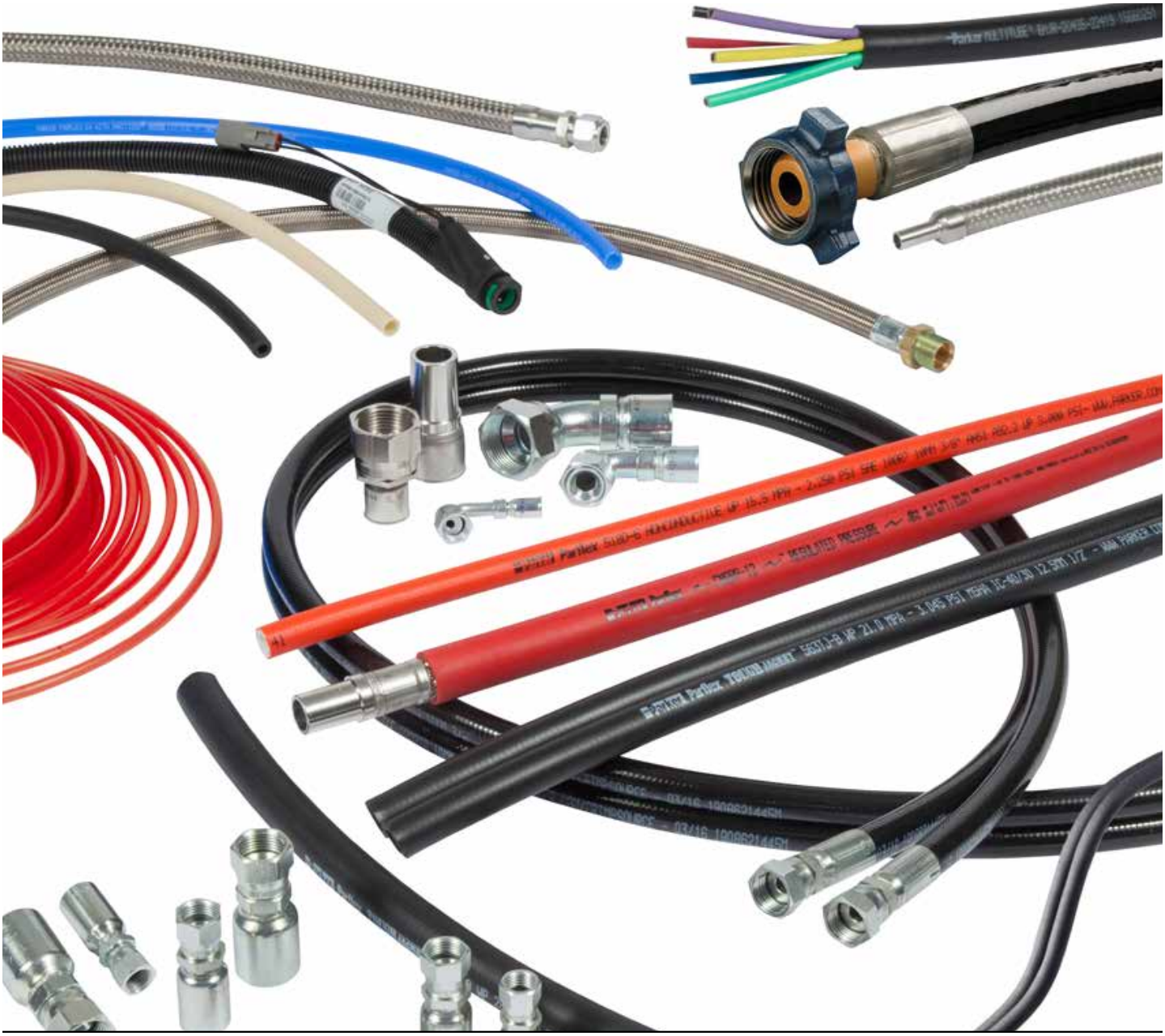

CAT 4660

Parflex Thermoplastic & Fluoropolymer
Products Hose, Tubing, & Fittings Catalog 2020
Updated August 6, 2025



Parker

ENGINEERING YOUR SUCCESS.

Updated August 6, 2025

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Welcome to Parflex

Hose	Tubing	Coils	Heat Shrink	Fittings
Thermoplastic	Thermoplastic	Thermoplastic	Fluoropolymer	Permanent Crimp
Fluoropolymer	Fluoropolymer	Fluoropolymer		Field Attachable

Updated August 6, 2025

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Parflex®

Partner. Innovator. Leader.

Parflex is a global leader in hose and tubing solutions for extreme applications.



Our Global Footprint

As part of the Parker Fluid Connectors Group, the Parflex Division is responsible for the design and manufacture of hoses and tubing to handle extreme applications. Products include thermoplastic and fluoropolymer hose and tubing, hose bundles, harnesses and accessories.

The Parflex Division includes the Ravenna, OH headquarters and manufacturing facilities in:

- Manitowoc, WI
- Fort Worth, TX
- Mansfield, TX
- Stafford, TX
- Monterrey, Mexico
- Huttenfeld, Lampertheim, Germany - sister division, ***polyflex***

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Tap Into Our Resources

In our state-of-the-art Polymer Innovation Center, driven by the single purpose of finding solutions to your most demanding fluid connector requirements. Abrasion, chemical compatibility, purity and permeation are just a few of the challenges our engineers work on everyday.

The Polymer Innovation Center is your portal to an array of solution-driven abilities and assets,all conveniently situated within a single organization.

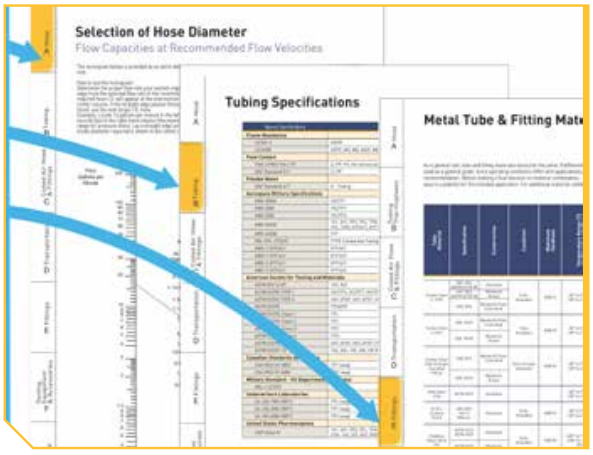


What's New

The biggest change to the catalog is in structure.

Now each chapter also includes the technical data for those products. For example, the General Technical section hose charts have been moved to Hose, tubing charts to Tubing and fitting charts to Fittings. Also, in the Fitting section, fittings are broken up into a Field Attachable section and a Crimp section.

And, like always, the product information was updated where applicable.



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What's Different With A Parflex Hose

For one thing, the reputation that precedes it.

Our reputation for being a problem solver in extreme hose applications can be traced to our ability to partner with our customers and become an extension of their engineering department rather than just another supplier.



For another thing, Parflex hoses are:

- more compact without reducing flow
- more flexible without compromising strength
- lighter without diminishing performance
- and can handle a very wide range of temperatures and working pressures

Hose

Hose & Fittings Highlights

- Parflex thermoplastic hoses are lightweight with weights up to 70% lighter than competitive constructions. Thermoplastic constructions also offer a compact O.D. (30%-70% smaller) and a low length change under pressure (as low as +/- 1%).
- Rapid Assembly fittings are available to improve installation time with hoses up to 3000 psi that are qualified with 56-series fittings such as 53DM and 518D.
- TOUGHJACKET (TJ) hoses deliver 650x more abrasion resistance than standard rubber equivalents. After 143 hours of testing, the TJ hose jacket was still intact. Unfortunately, the competitive hose didn't fair as well. The internal wire reinforcements were breaking through.
- Our low temperature hoses operate in temperatures as low as -70°F/-57°C (depending on series) with no embrittlement or added stress to the core tube.



TOUGHJACKET™



Advantages of Formed & Bonded Hoses - Why They Contribute to Your Bottom Line

- Cleaner Routings, decreasing maintenance time
- Weight reduction compared to conventional rubber and steel lines
- Reduced labor cost through quick and easy install
- Rigid but flexible, eliminating misalignment issues of steel tube equivalent
- Minimized leak points by eliminating thread joints and hose-tube combinations
- Reduced abrasion issues, increasing hose life compared to conventional rubber hose
- Reduced inventory components by eliminating clamps and/or single assemblies



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Thermoplastic Hose Advantages

Parker Parflex offers an extensive selection of high-quality thermoplastic and fluoropolymer hose and tubing, fittings and accessory solutions for “extreme” applications. We specialize in designing products to meet specific needs for increased profitability and efficiency.

Long Lengths

- In some product lines, continuous lengths up to 4,570 meters (15,000 feet) are available.



Bonded Hose

- Parflex bonded assemblies help prevent hose-to-hose abrasion at high stress levels. Bonding 2 to 10 varying-sized hoses (maximum 6" (152 mm) wide) together, bonded assemblies keep hoses from rubbing against each other or tangling.



Smaller I.D.

- The Parflex manufacturing process does not require a mandrel for support of the core tube so hoses can be made to a smaller inner diameter such as 2.0 mm (.08 inch).



~20%
IMPROVEMENT

Compact O.D.

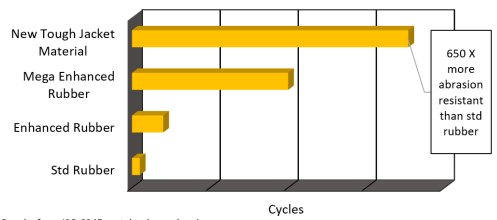
- Compact designs allow for a tighter bend radius, allowing the hose to be used in smaller work envelops and facilitate quicker installs (up to 50%).

Size	Typical 100R17 Hose (rubber) inch / mm		563TJ Hose inch / mm		Space Benefit
-4	0.52	13.2	0.47	11.9	10%
-6	0.67	17.0	0.64	16.3	4%
-8	0.81	20.6	0.77	19.5	5%
-10	0.98	24.8	0.97	24.6	1%
-12	1.15	29.2	1.12	28.3	3%
-16	1.47	37.3	1.43	36.9	3%

Abrasion Resistance

- In our new Polymer Innovation Center, Parflex engineers blend resins and create patented designed hoses to reduce permeation and withstand hours of abrasion without damaging the hose.

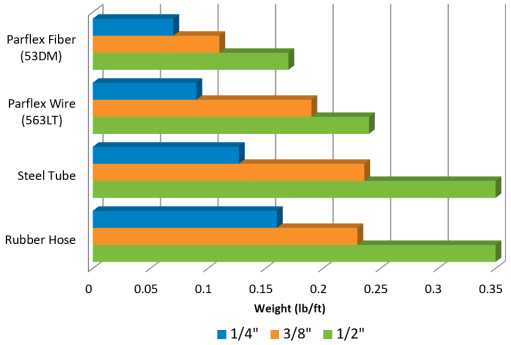
Hydraulic Tough Jacket Hose vs. Competitors
Full Weight ISO 6945



Results from ISO 6945 metal to hose abrasion test show TJ covers perform significantly better.

Lightweight

- Parflex products are lighter in weight due to their fiber reinforcements. In fact, a Parflex hose can weigh more than 70% less than a comparable rubber hose assembly.



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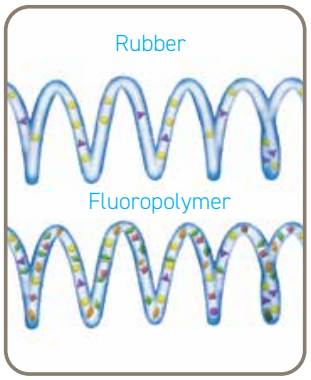
Fluoropolymer Hose Advantages

Parker Parflex manufactures PTFE hose for most markets that require high temperatures, chemical resistant hoses, or have applications where lubricity plays a critical factor in the success of the operation. Increased lubricity facilitates flow and makes for easy cleaning.

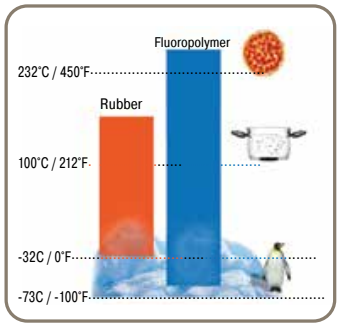
Chemical Compatibility

- The chemical compatibility of fluoropolymers is far greater than conventional thermoplastics or rubber products.



High/Low Temperatures

- PTFE products boast an operating temperature range of -100°F (73°C) to 500°F (260°C). For FEP and PFA, view specific materials for actual operating temperatures.



- In cold or heat, Fluoropolymers provide improved performance to flexing, vibration and impulse. Customers who make the switch not only reduce unscheduled maintenance repairs, but often, warranty repairs as well.

Shelf Life

- Under optimal storage conditions, fluoropolymer and thermoplastic hose and tubing products should have unlimited storage life prior to initial usage.*





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Eliminate Drive Time With The Best Portable Crimper On the Market



Grab & Go

Create factory style assemblies in minutes.

Ready to go at a moments notice.

With no additional power source required for operation and a built in carry handle, the MiniKrimp® is easy to transport to remote locations.

- Weight: 45 lbs. or less
- Force: 30,000 tons @ 10,000 psi max
- Cycle time: Approximately 30 seconds

Speed Up Installations with Rapid Assembly Wrenchless Fittings

No Tools Necessary

Speed Up Hose Installation by 50%





Watch the Video

56 Rapid Assembly Series

With one adapter, speed up assembly installations by 50%. Simply screw in the adapter and push the tube stub fitting into the adapter.

- Available for hoses qualified with 56-series fittings and pressures up to 3000 psi
- Typical Applications
  - Pilot lines
  - Joystick
  - Skid steer chassis

Reduce costs without reducing performance.



Watch the Video

51R Series

The 51R-series is the newest generation of Parflex field attachable fittings. With assembly possible via a deep well socket or screw gun and a vise, field repair and/or assembly has never been quicker.

- Available for 510D and 518D hoses (-3, -4, -6 and -8)
- Typical Applications
  - Hydraulic lines
  - Aerial lift
  - Car carrier

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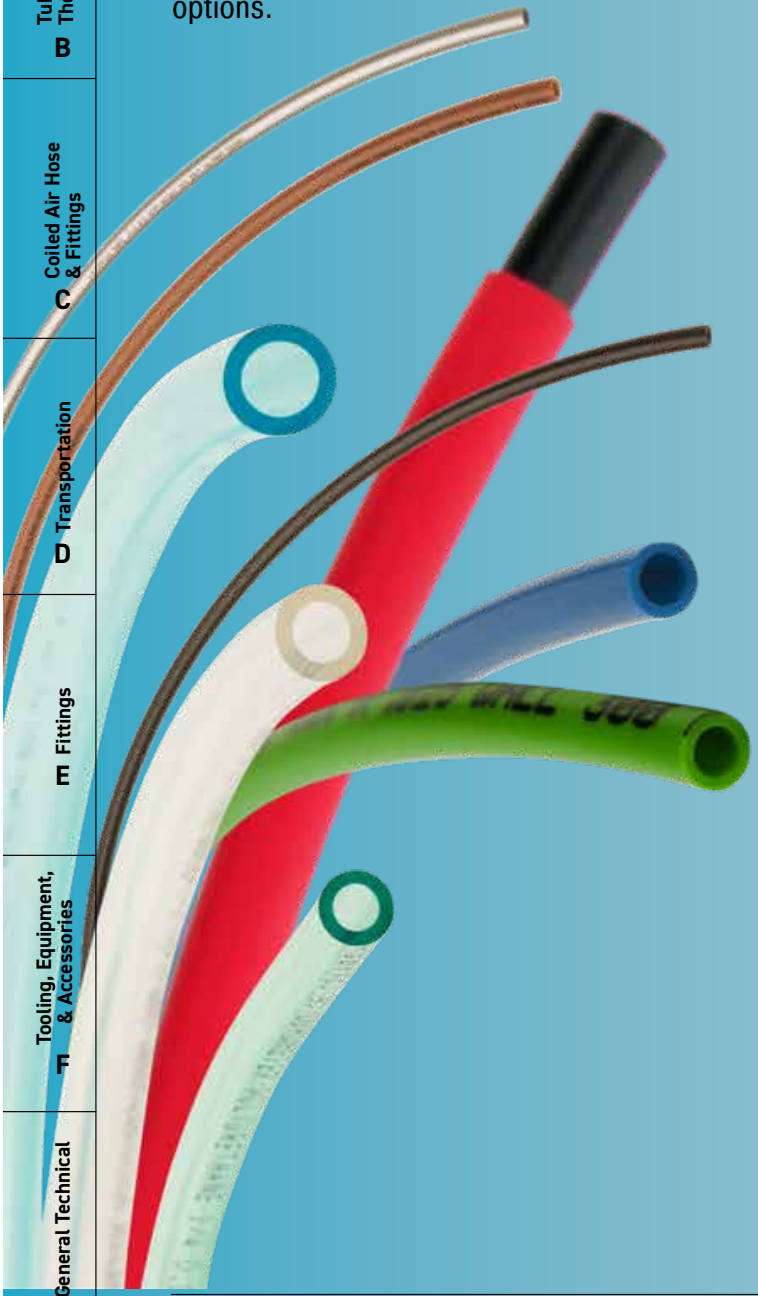
Parflex Manufactures Tubing for Almost Every Application

Not only is the tubing selection complete, so are the options to improve installation times. Parflex offers cut pieces, assemblies, bundled tubing, formed tubing, and combinations of all options.





Parflex Tubing

- Air Brake
- Flame Resistant
- Diesel Fuel
- Nylon
- Polypropylene
- Polyurethane
- Polyethylene
- PVC
- Retractable Coils
- PTFE
- FEP
- PFA/High Purity PFA
- Beading
- Electrical Insulation
- Convoluted
- Corrugated
- Spiral Wrap
- Heat Shrink













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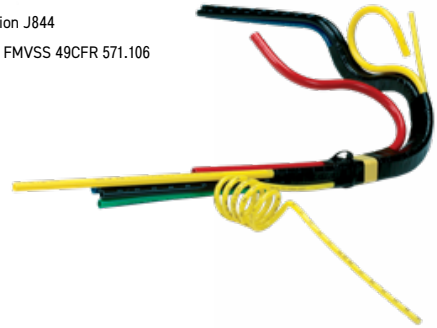
Tubing Highlights



Airbrake Tubing

- Every year, Parflex makes enough airbrake tubing to circle the globe
- Available in made to length harnesses for quicker installations
- Excellent UV stability
- Meets SAE Specification J844
- Most sizes meet DOT FMVSS 49CFR 571.106



Heat Shrinkable Tubing

- PTFE Shrink - 2:1, 4:1
- FEP Shrink - 1.3/1, 1.67/1
- FEP Roll Cover - 1.25/1
- FDA compliant
- USP Class VI compliant



Flame Resistant Tubing

- Extremely flexible tubing with a flame resistant jacket to protect the core tube from weld spatter and harsh environment applications. The specially formulated jacket material is easy to skive, exposing the core tube for quick insertion into Parker's Prestolok PLM fittings
- Use with Parflex Skive Tool for easy skiving
- UL-94 V0 compliant jacket





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Notes

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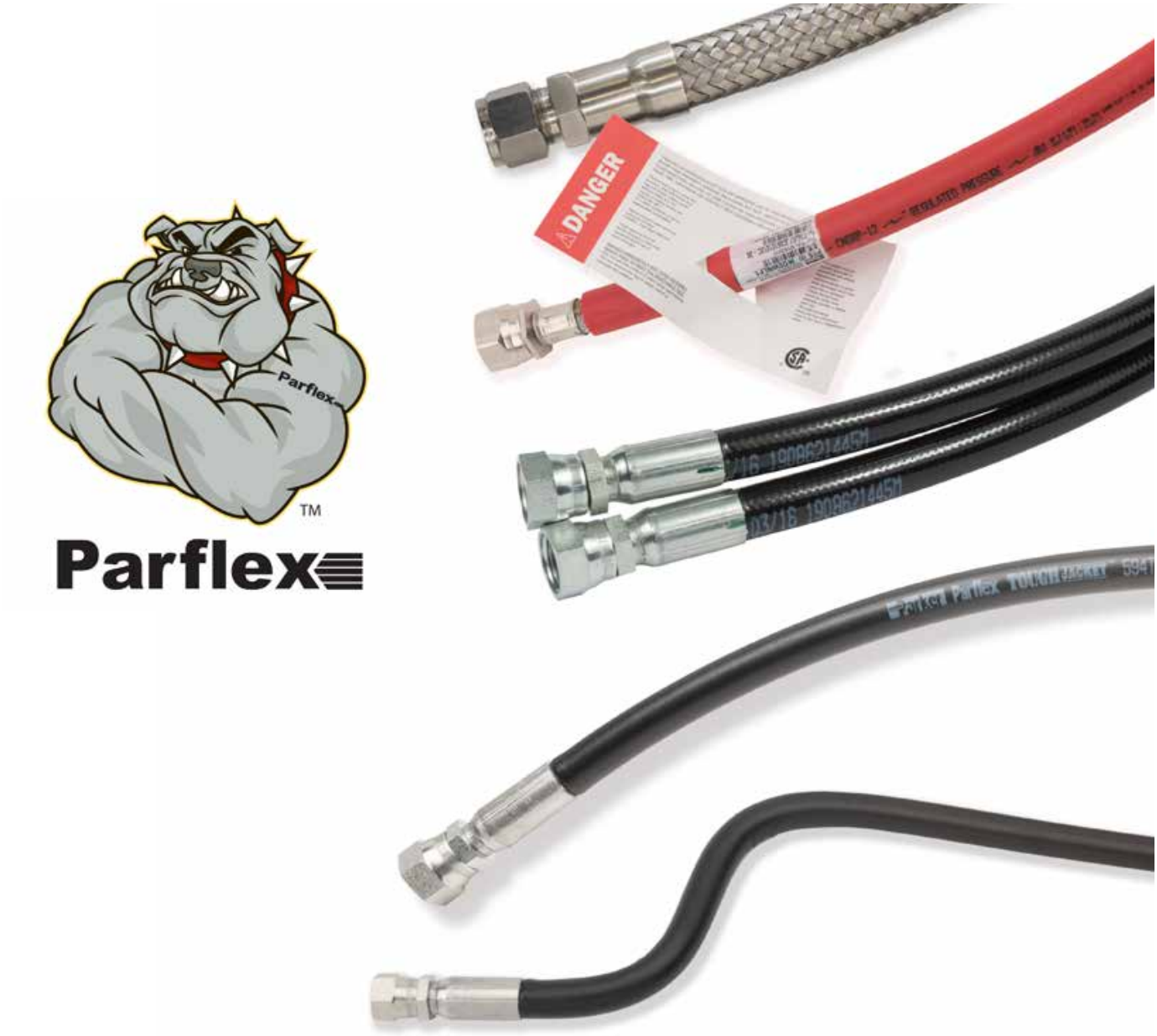

Hose

Thermoplastic Fluoropolymer

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Designing "problem-solving hoses" is what we do best and that's why it's hard to match the cost saving value of a Parflex hose.



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Thermoplastic - Fiber Reinforced

Fiber Reinforced Thermoplastic Hose

Part No.		Description	Pg.
	510C	General Hydraulic Obsolete see 510D/518D	A-43
	510D	General Hydraulic	A-44
	520N	General Hydraulic	A-47
	527BA	Breathing Air Refill 7,000 psi	A-48
	53DM	53DM - Low Temp	A-51
	540N	General Hydraulic Obsolete see 510D/518D	A-49
	540P	Specialty Water	A-50
	55LT	Low Temperature	A-52
	56DH	Diagnostic	A-53
	575X/ 575XN	Fast Response 5,000 psi	A-54
	580N	High Pressure	A-55

Fiber Reinforced Thermoplastic Hose

Part No.		Description	Pg.
	1035HT	High Temperature Power Cleaning	A-57
	B9	General Purpose Obsolete	A-58
	HLB/ HLBD	Lubrication	A-62
	MSH	Marine Steering	A-63
	MSXL	Marine Steering, High Pressure	A-64
	PTH	Marine Power Tilt	A-65
	S5N	Predator® Water Jetting 4,000 psi	A-66
	S6	Predator® Water Jetting 2,500 psi	A-67
	S9	Predator® Water Jetting 3,000 psi	A-68

Fiber Reinforced Conductive Natural Gas Thermoplastic Hose

Part No.		Description	Pg.
	5CNG	Compressed Natural Gas Electrically Conductive	A-59

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Thermoplastic - Wire Reinforced & Non Conductive

Wire Reinforced Thermoplastic Hose

Part No.	Description	Pg.
563LT	Low Temperature Hydraulic 3000 psi Constant Pressure	A-40
560TJ	TOUGHJACKET™ General Hydraulic	A-38
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2245N	High Pressure Hose	A-82

Wire Reinforced Thermoplastic Hose

Part No.	Description	Pg.
D6R	3000 psi Constant Pressure Obsolete	A-32
H6	Hydraulic Hose, Constant Pressure 3,000 psi Obsolete see 53DM/563LT	A-35
HFSR	Hybrid® Hose with Rubber Cover Obsolete see 560TJ/563TJ	A-33
HFS2R	Hybrid® Hose with Rubber Cover, 2 braids Obsolete	A-34
HTBR	Eliminator® Compact Obsolete	A-37
R6	3000 psi Constant Pressure Obsolete see 563TJ/563LT	A-36

Wire Reinforced Conductive Natural Gas Thermoplastic Hose

Part No.	Description	Pg.
CNGRP	Regulated Pressure CNG Electrically Conductive	A-60

Non-Conductive Thermoplastic Hose

Part No.	Description	Pg.
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518D	Hydraulic Non Conductive	A-46
528N	General Hydraulic Non-Conductive	A-47
538DM	DuraMax Low Temp Non-Conductive	A-51
578X	Fast Response Non-Conductive	A-54
588N	High Pressure Non-Conductive	A-55
83FR	General Purpose Non-Conductive	A-56

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Hose Index
Fluoropolymer

900 Series Fluoroplastic Hose

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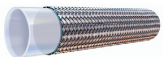
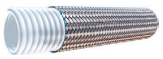
	919 919B	PTFE Natural Core / Static Dissipative Core	A-69
	919J 919BJ	Silicone Jacketed PTFE Static Dissipative Core	A-70
	919U	Silicone Jacketed PTFE Natural Core	A-71
	929B	Heavy Wall PTFE Static Dissipative Core	A-72
	929BJ	Silicone Covered Heavy Wall PTFE Static Dissipative Core	A-73
	939 939B	Convoluted PTFE Natural / Static Dissipative Core	A-74
	944B	High Pressure PTFE Static Dissipative, up to 4,500 psi	A-75
	955B	High Pressure PTFE Static Dissipative Core, 5,000 psi	A-76

Other Hoses

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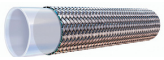
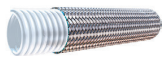
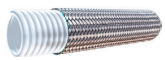
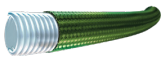
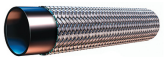
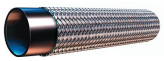
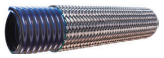
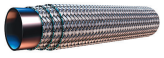
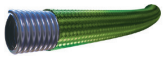
	MLT	Multitube Hose	A-84

PAGE Fluoroplastic Hose

Part No.		Description	Pg.
	STW STB	PTFE Natural / Static Dissipative Core	A-77
	SCW SCB	Convoluted PTFE Natural/ Static Dissipative Core	A-78
	SCWV SCBV	Heavy Wall Convoluted PTFE Natural /Static Dissipative Core Obsolete	A-79
	PCW PCB	Polypropylene Braid Convoluted PTFE Natural /Static Dissipative Core Obsolete	A-80
	NCW NCB	Nomex Braid Convoluted PTFE Natural /Static Dissipative Core	A-81

Static Dissipative Fluoroplastic Hose

Part No.		Description	Pg.
	919B STB	PTFE Static Dissipative	A-69 A-77
	919BJ	Silicone Jacketed PTFE Static Dissipative	A-70
	929B	Heavy Wall PTFE Static Dissipative	A-72
	929BJ	Silicone Covered Heavy Wall PTFE Static Dissipative	A-73
	939B SCB	Convoluted PTFE Static Dissipative	A-74 A-78
	944B	High Pressure PTFE Static Dissipative, up to 4,500 psi	A-75
	955B	5000 psi High Pressure PTFE Static Dissipative	A-76
	NCB	Nomex Braid Convoluted PTFE Static Dissipative	A-81
	PCB	Polypropylene Braid Convoluted PTFE Static Dissipative Obsolete	A-80
	SCBV	Heavy Wall Convoluted PTFE Static Dissipative Obsolete	A-79

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Agency Specifications

Agency Specifications	Hose Series
Flame Resistance	
MSHA	HLB, HLBD, 510D, 560TJ, 563TJ, 590TJ, 594TJ, 520N, 56DH-2, 575X, 580N, 83FR
UL94HB	83FR
Food Contact	
FDA, CFR21 Part 177	540P, 919, 919J, 919U, 939, STW, SCW
Natural Gas Service: For Vehicles and Dispensing Systems	
CSA/ANSI NGV 4.2; NFPA 52 Class A, Class D	5CNG
CSA/ANSI NGV 3.1; NFPA 52 Class B	5CNG-8
CSA/ANSI NGV 3.1; NFPA 52 Class C	CNGRP
ECE-R110	5CNG factory built assemblies
Hydraulic Service:	
ISO 3949	510D, 518D, HLBD
SAE 100R1AT	560TJ
SAE 100R7	540P, 510D, 518D, 55LT
SAE 100R8	520N, 528N, 580N, 588N
SAE 100R14A	919, 919J, 919U
SAE 100R14B	919B, 919BJ, 929B, 929BJ
SAE 100R17	563TJ, 563LT
SAE 100R18	53DM, 538DM
SAE 100R19	594TJ
Electrical, Non-Conductivity:	
SAE J517	518C, 518D, 528N, 578X, 588N, 538DM
DNV (with approved fittings only)	
Det Norski (Norwegian) Veritas Marine Steel Ships, Mobile Offshore & Fixed Offshore Drilling Units	510D, 518D, 520N, 528N, 575X, 575XN, 580N, 588N, 919*, 919B*, 929B*
Breathing Air Applications:	
CGA (Compressed Gas Association)- G7.1-1 Grade E Breathing Air	527BA
NFPA 1901	527BA
United States Pharmacopeia	
USP Class VI	SCW, STW, NCW

* Select sizes only - refer to product page for more details

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PTFE Hose Chemical Resistance
Summary

Within normal use, temperatures, fluoropolymers are attacked by so few chemicals that it is easier to describe the exceptions rather than list the chemicals they are compatible with.

DO NOT USE FLUOROPLASTICS WITH THE FOLLOWING:

- Alkali metals such as elemental sodium, potassium, lithium, etc. The alkali metals remove fluorine from the polymer molecule.
- Extremely potent oxidizers, fluorine (F2) and related compounds (e.g., chlorine trifluoride, ClF3). These can be handled by fluoropolymers, but only with great care, as fluorine is absorbed into the resins, and the mixture becomes sensitive to a source of ignition such as impact.

WARNING

FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS AND/OR SYSTEMS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.

This document and other information from Parker Hannifin Corporation, its subsidiaries and authorized distributors provide product and/or system options for further investigation by users having technical expertise. It is important that you analyze all aspects of your application and review the information concerning the product or system in the current product catalog. Due to the variety of operating conditions and applications for these products or systems, the user, through its own analysis and testing, is solely responsible for making the final selection of the products and systems and assuring that all performance, safety and warning requirements of the application are met.

The products described herein, including without limitation, product features, specifications, designs, availability and pricing, are subject to change by Parker Hannifin Corporation and its subsidiaries at any time without notice.

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Hose Construction
Hose Core, Reinforcement, Cover

Thermoplastic Hose Construction

Core

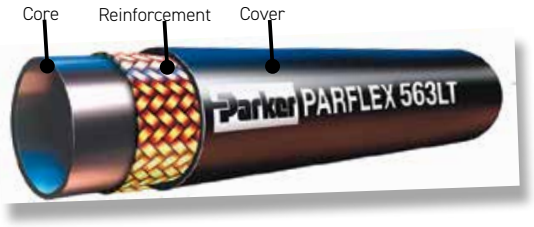
Contains Media
Materials: Nylon, Polyethylene, Polyurethane, Copolyester

Reinforcement

Provides Resistance to Internal Pressure
Materials: Fiber (Nylon, Polyester, Aramid), Steel, Stainless Steel

Cover

Protects Reinforcement
Advantages: Aesthetics, Color and Marking
Materials: Polyurethane, Nylon, Synthetic Rubber, Copolyester, and TPV

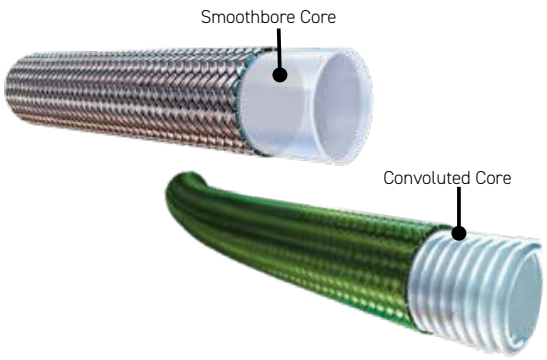


TOUGHJACKET™ Covers

Manufactured from Parflex **TOUGH**JACKET™ Polyurethane and designed to withstand the strains of demanding use.

Look for the TJ - Currently found on **560**TJ, **563**TJ, **590**TJ and **594**TJ

TOUGHJACKET™



Fluoropolymer Hose Construction

Core

Contains Media
Materials: PTFE
Style: Smoothbore or Convoluted

Reinforcement

Provides Resistance to Internal Pressure
Materials: Stainless Steel, Polypropylene and Nomex®

Cover or Protective Sleeve

Protects Reinforcement
Materials: Silicone, Polyolefin, Polyurethane

Construction/Specifications
Thermoplastic Hose, psi

Reinforcement Type	Hose	Description	PSI Thermoplastic Hose Working Pressures									
			3/32	1/8	3/16	1/4	5/16	3/8	1/2	5/8	3/4	1
		Dash Size	-1.5	-2	-3	-4	-5	-6	-8	-10	-12	-16
			psi	psi	psi	psi	psi	psi	psi	psi	psi	psi
Wire	CNGRP*	Regulated Pressure CNG								500	500	
Wire	560TJ	SAE 100R1AT TOUGHJACKET™			3626	3263	3118	2750	2500	2000	1750	
Wire	563TJ	SAE 100R17 TOUGHJACKET™				3045		3045	3045	3045	3045	3045
Wire	563LT	Constant Pressure Low Temperature						3045	3045	3045		
Wire	590TJ	General Hydraulic TOUGHJACKET™				5076		4061	3553		2500	2030
Wire	594TJ	SAE 100R19 TOUGHJACKET™				4061		4061	4061	4061	4061	
Fiber	510D	SAE 100R7 Hydraulic Hose			3250	3000	2500	2250	2250	2250	1250	1000
Fiber	518D	SAE 100R7 Non-conductive Hose		3000**	3250**	3000**	2500**	2250**	2250**	2250**	1250**	1000**
Fiber	520N / 528N	SAE 100R8 Hydraulic Hose			5000	5000	4500	4000	3500			
Fiber	527BA	Breathing Air Refill Hose			7000	7000						
Fiber	53DM	SAE 100R18 Low Temperature Hydraulic Hose		3045		3045		3045	3045	3045	3045	
Fiber	538DM	SAE 100R18 Low Temperature Hydraulic Hose Non-Conductive						3045				
Fiber	540P	SAE 100R7 Specialty Water Hose				2750		2250	2000			
Fiber	55LT	SAE 100R7 Low Temperature Hydraulic Hose			3250	3000	2500	2250	2000			
Fiber	56DH	Diagnostic Hose	6000	6000								
Fiber	575X/ 575XN	Fast Response Hydraulic Hose			5000	5000		5000	5000		5000	5000
Fiber	578X	Fast Response Hydraulic Hose				5000		5000			5000	
Fiber	580N / 588N	SAE 100R8 High Pressure Hydraulic 588N - Non-conductive							3500	2750	2250	2000
Fiber	1035HT	High Temperature Power Cleaning				1750						
Fiber	83FR	DuraGard™ General Purpose Polyurethane				300		300	300		300	
Fiber	5CNG	Compressed Natural Gas Hose				5000		5000	5000		5000	5000
Fiber	HLB/HLBD	SAE 100R7 Hydraulic & Lubrication Hose		3000	3000							
Fiber	MSH	Marine Steering Hose					1000	1000				
Fiber	MSXL	Fast Response Marine Steering Hose					1500					
Fiber	PTH	Marine Power Tilt Hose			3000							
Fiber	S5N	Sewer Cleaning - Lateral Cleaning							4000			
Fiber	S6	Sewer Cleaning									2500	2500
Fiber	S9	Sewer Cleaning									3000	3000

* Sizing for -10 is 1/2"; for -12 is 5/8"
**View actual hose chart for ANSI pressure ratings

Legend

F - Fiber
H - Copolyester
U - Polyurethane
N - Nylon
O - Polyethylene
UTJ - TOUGHJACKET™ Polyurethane
R - Smooth Synthetic Rubber
S - Silicone
X - TPV

Updated August 6, 2025

Construction/Specifications
Thermoplastic Hose, psi

	PSI Thermoplastic Hose Working Pressure								Reinforcement Type
	Core Tube	Reinforcement Material	Cover Material	SAE Specification	Additional Specifications	Page #	Description	Hose	
	N	Wire	X	-	ANSI CSA NGV 3.1; NFPA 52; CSA 12.3, Class C	A-60	Regulated Pressure CNG	CNGRP*	Wire
	H	Wire	UTJ	100R1AT	MSHA	A-38	SAE 100R1AT TOUGHJACKET™	560TJ	
	H	Wire	H	100R17	MSHA	A-39	SAE 100R17 TOUGHJACKET™	563TJ	
	H	Wire	UTJ	100R17		A-40	Constant Pressure Low Temperature	563LT	
	H	Wire	UTJ		MSHA	A-41	General Hydraulic TOUGHJACKET™	590TJ	
	H	Wire	UTJ	100R19	MSHA	A-42	SAE 100R19 TOUGHJACKET™	594TJ	
	N	Fiber	U	100R7	MSHA, DNV, ISO 3949	A-44	SAE 100R7 Hydraulic Hose	510D	Fiber
	N (H-16)	Fiber	U	100R7	ANSI A92.2, DNV, ISO 3949	A-46	SAE 100R7 Non-conductive Hose	518D	
	N	Fiber	U	100R8	MSHA***, DNV	A-47	SAE 100R8 Hydraulic Hose	520N / 528Na	
	N	Fiber	U	-	CGA / NFPA 1901	A-48	Breathing Air Refill Hose	527BA	
	N-2 (H-16)	Fiber	H	100R18		A-51	SAE 100R18 Low Temperature Hydraulic Hose	53DM	
	H	Fiber	H	100R18		A-51	SAE 100R18 Low Temperature Hydraulic Hose Non-Conductive	538DM	
	O	Fiber	U	100R7	FDA	A-50	SAE 100R7 Specialty Water Hose	540P	
	H	Fiber	H	100R7		A-52	SAE 100R7 Low Temperature Hydraulic Hose	55LT	
	N	Fiber	U	-	MSHA***	A-53	Diagnostic Hose	56DH	
	N	Fiber	U	-	MSHA***, DNV	A-54	Fast Response Hydraulic Hose	575X/575XN	
	U	Fiber	N	-	SAE J517	A-54	Fast Response Hydraulic Hose	578X	
	N	Fiber	U	100R8	MSHA, DNV	A-55	SAE 100R8 High Pressure Hydraulic 588N - Non-conductive	580N/588N	
	N	Fiber	U	-		A-57	High Temperature Power Cleaning	1035HT	
	U	Fiber	U	UL94HB	MSHA	A-56	DuraGard™ General Purpose Polyurethane	83FR	
	N	Fiber	U	-	ANSI CSA NGV 4.2; ECE R110***; NFPA 52; CSA 12.52 Class A, Class D, Class B***	A-59	Compressed Natural Gas Hose	5CNG	
	N and H	Fiber	U	100R7 (HLBD)	MSHA, ISO 3949 (HLBD)	A-62	SAE 100R7 Hydraulic & Lubrication Hose	HLB/HLBD	
	N	Fiber	U	-		A-63	Marine Steering Hose	MSH	
	N	Fiber	U	-		A-64	Fast Response Marine Steering Hose	MSXL	
	N	Fiber / SS Wire	U	-		A-65	Marine Power Tilt Hose	PTH	
	N	Fiber	U	-		A-66	Sewer Cleaning - Lateral Cleaning	S5N	
	H	Fiber	U	-		A-67	Sewer Cleaning	S6	
	H	Fiber	U	-		A-68	Sewer Cleaning	S9	

***View Government & Agency Specifications for exceptions, pg. A-7

Legend

F - Fiber	H - Copolyester	U - Polyurethane
N - Nylon	O - Polyethylene	UTJ - TOUGHJACKET™ Polyurethane
R - Smooth Synthetic Rubber	S - Silicone	X - TPV

Updated August 6, 2025

Construction/Specifications
Fluoropolymer Hose, psi

PSI Fluoropolymer Hose Working Pressures

Reinforcement Type	Fractional Size		Nominal Sizes											
			3/16 15/64	1/4	5/16	13/32 7/16	1/2	5/8	7/8 29/32	1-1/8	1/4	3/8	1/2	5/8
	Dash Size		-4	-5	-6	-8	-10	-12	-16	-20	-4	-6	-8	-10
	Hose	Description	psi	psi	psi	psi	psi	psi	psi	psi	psi	psi	psi	psi
Wire	919	PTFE Hose	3000	3000	2500	2000	1500	1200	1000	625				
Wire	919B	PTFE Hose with static-dissipative core	3000	3000	2500	2000	1500	1200	1000					
Wire	919J	Silicone Covered PTFE Hose	3000	3000	2500	2000	1500	1200	1000					
Wire	919BJ	Silicone Covered PTFE Hose with static-dissipative core	3000	3000	2500	2000	1500	1200	1000					
Wire	919U	High Abrasion Resistance PTFE Hose	3000		2500	2000		1200	1000					
Wire	929B	Heavy Wall PTFE Hose with static-dissipative core	3000		2500	2000		1200	1250					
Wire	929BJ	Silicone Covered PTFE Hose with static-dissipative core	3000		2500	2000		1200	1250					
Wire	939	Convoluted PTFE Hose										1500	1350	1000
Wire	939B	Convoluted PTFE Hose with static-dissipative core										1500	1350	1000
Wire	944B	High Pressure PTFE Hose with static-dissipative core			4500	4500	4000	4000	4000					
Wire	955B	High Pressure PTFE Hose with static-dissipative core	5500		5500	5500	5500	5500	5500					
Wire	STW Z-STW*	PAGE Heavy Wall PTFE Hose *Double Braid									3000	2000	1750	
Wire	STB Z-STB*	PAGE Heavy Wall PTFE Hose with static-dissipative core *Double Braid									3000	2000	1750	
Wire	SCW	PAGE Convoluted PTFE Hose									1500	1500	1500	
Wire	SCB	PAGE Convoluted PTFE Hose with static-dissipative core									1500	1500	1500	
Other	NCW	PAGE Nomex Braid Convoluted									725	400	280	
Other	NCB	PAGE Nomex Braid Convoluted with static-dissipative core									725	400	280	

*Z indicates double braid for sizes over 1".

Legend

PTFE – Polytetrafluoroethylene
PTFE-S – Polytetrafluoroethylene, Static Dissipative
U – Polyurethane
NB - Nomex Braid
PP - Polypropylene
S - Silicone

Updated August 6, 2025

Construction/Specifications
Fluoropolymer Hose, psi

PSI Fluoropolymer Construction and Specifications											
3/4	1	1 1/4	1 1/2	2					Fractional Size		Reinforcement Type
-12	-16	-20	-24	-32	Core Tube	Reinforcement Material	Cover Material	Page #	Description	Hose	
psi	psi	psi	psi	psi							
					PTFE	SS Wire	—	A-69	PTFE Hose	919	Wire
					PTFE-S	SS Wire	—	A-69	PTFE Hose with static-dissipative core	919B	
					PTFE	SS Wire	S	A-70	Silicone Covered PTFE Hose	919J	
					PTFE-S	SS Wire	S	A-70	Silicone Covered PTFE Hose with static-dissipative core	919BJ	
					PTFE	SS Wire	U	A-71	High Abrasion Resistance PTFE Hose	919U	
					PTFE-S	SS Wire	—	A-72	Heavy Wall PTFE Hose with static-dissipative core	929B	
					PTFE-S	SS Wire	S	A-73	Silicone Covered PTFE Hose with static-dissipative core	929BJ	
1100	1000	1000	750	250	PTFE	SS Wire	—	A-74	Convoluted PTFE Hose	939	
1100	1000	1000	750	250	PTFE-S	SS Wire	—	A-74	Convoluted PTFE Hose with static-dissipative core	939B	
					PTFE-S	SS Wire	—	A-75	High Pressure PTFE Hose with static-dissipative core	944B	
					PTFE-S	SS Wire	—	A-76	High Pressure PTFE Hose with static-dissipative core	955B	
1000	1000 1200	1000*	900*		PTFE	SS Wire	—	A-77	PAGE Heavy Wall PTFE Hose *Double Braid	STW Z-STW*	
1000	1000 1200		900*		PTFE-S	SS Wire	—	A-77	PAGE Heavy Wall PTFE Hose with static-dissipative core *Double Braid	STB Z-STB*	
1200	925	750	650	450	PTFE	SS Wire	—	A-78	PAGE Convoluted PTFE Hose	SCW	
1200	925	750	650	450	PTFE-S	SS Wire	—	A-78	PAGE Convoluted PTFE Hose with static-dissipative core	SCB	
200	200				PTFE	NB	—	A-81	PAGE Nomex® Braid Convoluted	NCW	Other
200	200				PTFE-S	NB	—	A-81	PAGE Nomex® Braid Convoluted with static-dissipative core	NCB	

*Z indicates double braid for sizes over 1".

Legend

PTFE – Polytetrafluoroethylene
PTFE-S – Polytetrafluoroethylene, Static Dissipative
U – Polyurethane
NB - Nomex Braid
PP - Polypropylene
S - Silicone

Updated August 6, 2025

Construction/Specifications
Thermoplastic Hose, MPa

Reinforcement Type	Hose	Description	PSI Thermoplastic Hose Working Pressures									
			3/32	1/8	3/16	1/4	5/16	3/8	1/2	5/8	3/4	1
	Dash Size		-1.5	-2	-3	-4	-5	-6	-8	-10	-12	-16
	Hose	Description	MPa	MPa	MPa	MPa	MPa	MPa	MPa	MPa	MPa	MPa
Wire	CNGRP*	Regulated Pressure CNG								3.5	3.5	
Wire	560TJ	SAE 100R1AT TOUGHJACKET™			25.0	22.5	21.5	19.0	17.2	13.8	12.1	
Wire	563TJ	SAE 100R17 TOUGHJACKET™				21.0		21.0	21.0	21.0	21.0	21.0
Wire	563LT	Constant Pressure Low Temperature						21.0	21.0	21.0		
Wire	590TJ	General Hydraulic TOUGHJACKET™				35.0		28.0	24.5		17.2	14.0
Wire	594TJ	SAE 100R19 TOUGHJACKET™				28.0		28.0	28.0	28.0	28.0	
Fiber	510D	SAE 100R7 Hydraulic Hose			22.4	21.0	17.5	15.8	15.8	15.8	8.8	7.0
Fiber	518D	SAE 100R7 Non-conductive Hose		21.0**	22.4**	21.0**	17.5**	15.8**	15.8**	15.8**	8.8**	7.0**
Fiber	520N / 528Na	SAE 100R8 Hydraulic Hose			34.5	34.5	31.0	27.6	24.1			
Fiber	527BA	Breathing Air Refill Hose			48.3	48.3						
Fiber	53DM	SAE 100R18 Low Temperature Hydraulic Hose		21.0		21.0		21.0	21.0	21.0	21.0	
Fiber	538DM	SAE 100R18 Low Temperature Hydraulic Hose, Non-conductive						20.7				
Fiber	540P	SAE 100R7 Specialty Water Hose				19.0		15.5	13.8			
Fiber	55LT	SAE 100R7 Low Temperature Hydraulic Hose			22.4	20.7	17.2	15.5	13.8			
Fiber	56DH	Diagnostic Hose	41.4	41.4								
Fiber	575X 575XN	Fast Response Hydraulic Hose			34.5	34.5		34.5	34.5		34.5	34.5
Fiber	578X	Fast Response Hydraulic Hose				34.5		34.5			34.5	
Fiber	580N / 588N	SAE 100R8 High Pressure Hydraulic 588N - Non-conductive							24.1	19.0	15.5	13.8
Fiber	1035HT	High Temperature Power Cleaning				12.1						
Fiber	83FR	DuraGard™ General Purpose Polyurethane				2.1		2.1	2.1		2.1	
Fiber	B9	General Purpose Transfer Hose			1.7	1.7	1.7	1.7	1.7	1.7		
Fiber	5CNG	Compressed Natural Gas Hose				34.5		34.5	34.5		34.5	34.5
Fiber	HLB/HLBD	SAE 100R7 Hydraulic & Lubrication Hose		20.7	20.7							
Fiber	MSH	Marine Steering Hose					6.9	6.9				
Fiber	MSXL	Fast Response Marine Steering Hose					10.3					
Fiber	PTH	Marine Power Tilt Hose			20.7							
Fiber	S5N	Sewer Cleaning - Lateral Cleaning							28.0			
Fiber	S6	Sewer Cleaning									17.2	17.2
Fiber	S9	Sewer Cleaning									20.7	20.7

* Sizing for -10 is 1/2"; for -12 is 5/8"
**View actual hose chart for ANSI pressure ratings

Legend

F - Fiber	H - Copolyester	U - Polyurethane
N - Nylon	O - Polyethylene	UTJ - TOUGHJACKET™ Polyurethane
R - Smooth Synthetic Rubber	S - Silicone	X - TPV

Updated August 6, 2025

Construction/Specifications
Thermoplastic Hose, MPa

PSI Thermoplastic Construction and Specifications								Reinforcement Type
Core Tube	Reinforcement Material	Cover Material	SAE Specification	Additional Specifications	Page #	Description	Hose	
N	Wire	X	-	ANSI CSA NGV 3.1; NFPA 52; CSA 12.3, Class C	A-60	Regulated Pressure CNG	CNGRP*	Wire
H	Wire	UTJ	100R1AT	MSHA	A-38	SAE 100R1AT **TOUGH**JACKET™	560TJ	
H	Wire	UTJ	100R17	MSHA	A-39	SAE 100R17 **TOUGH**JACKET™	563TJ	
H	Wire	H	100R17		A-40	Constant Pressure Low Temperature	563LT	
H	Wire	UTJ		MSHA	A-41	General Hydraulic **TOUGH**JACKET™	590TJ	
H	Wire	UTJ	100R19	MSHA	A-42	SAE 100R19 **TOUGH**JACKET™	594TJ	
N	Fiber	U	100R7	MSHA, DNV, ISO 3949	A-44	SAE 100R7 Hydraulic Hose	510D	Fiber
N (H-16)	Fiber	U	100R7	ANSI A92.2, DNV, ISO 3949	A-46	SAE 100R7 Non-conductive Hose	518D	
N	Fiber	U	100R8	MSHA***, DNV	A-47	SAE 100R8 Hydraulic Hose	520N / 528Na	
N	Fiber	U	-	CGA / NFPA 1901	A-48	Breathing Air Refill Hose	527BA	
N-2 (H-16)	Fiber	H	100R18		A-51	SAE 100R18 Low Temperature Hydraulic Hose	53DM	
H	Fiber	H	100R18		A-51	SAE 100R18 Low Temperature Hydraulic Hose, Non-conductive	538DM	
O	Fiber	U	100R7	FDA	A-50	SAE 100R7 Specialty Water Hose	540P	
H	Fiber	H	100R7		A-52	SAE 100R7 Low Temperature Hydraulic Hose	55LT	
N	Fiber	U	-	MSHA***	A-53	Diagnostic Hose	56DH	
N	Fiber	U	-	MSHA***, DNV	A-54	Fast Response Hydraulic Hose	575X/575XN	
U	Fiber	U	-	SAE J517	A-54	Fast Response Hydraulic Hose	578X	
N	Fiber	U	100R8	MSHA, DNV	A-55	SAE 100R8 High Pressure Hydraulic 588N - Non-conductive	580N/588N	
N	Fiber	U	-		A-57	High Temperature Power Cleaning	1035HT	
U	Fiber	U	UL94HB	MSHA	A-56	DuraGard™ General Purpose Polyurethane	83FR	
U	Fiber	U	-		A-58	General Purpose Transfer Hose	B9	
N	Fiber	U	-	ANSI CSA NGV 4.2; ECE R110***; NFPA 52; CSA 12.52 Class A, Class D, Class B***	A-59	Compressed Natural Gas Hose	5CNG	
N and H	Fiber	U	100R7 (HLBD)	MSHA, ISO 3949 (HLBD)	A-62	SAE 100R7 Hydraulic & Lubrication Hose	HLB/HLBD	
N	Fiber	U	-		A-63	Marine Steering Hose	MSH	
N	Fiber	U	-		A-64	Fast Response Marine Steering Hose	MSXL	
N	Fiber / SS Wire	U	-		A-65	Marine Power Tilt Hose	PTH	
N	Fiber	U	-		A-66	Sewer Cleaning - Lateral Cleaning	S5N	
H	Fiber	U	-		A-67	Sewer Cleaning	S6	
H	Fiber	U	-		A-68	Sewer Cleaning	S9	

***View Government & Agency Specifications for exceptions, pg. A-7

Legend

F - Fiber
H - Copolyester
U - Polyurethane
N - Nylon
O - Polyethylene
UTJ - TOUGHJACKET™ Polyurethane
R - Smooth Synthetic Rubber
S - Silicone
X - TPV

Updated August 6, 2025

Construction/Specifications
Fluoropolymer Hose, MPa

Reinforcement Type	Hose	Description	PSI Fluoropolymer Hose Working Pressures												
	Fractional Size		Nominal Sizes												
			3/16 (15/64)	1/4	5/16	13/32 (7/16)	1/2	5/8	7/8 (29/32)	1-1/8	1/8	1/4	3/8	1/2	5/8
	Dash Size		-4	-5	-6	-8	-10	-12	-16	-20	-3	-4	-6	-8	-10
	Hose	Description	MPa	MPa	MPa	MPa	MPa	MPa	MPa	MPa	MPa	MPa	MPa	MPa	MPa
Wire	919	PTFE Hose	20.7	20.7	17.2	13.8	10.3	8.3	6.9	4.3					
	919B	PTFE Hose with static-dissipative core	20.7	20.7	17.2	13.8	10.3	8.3	6.9						
	919J	Silicone Covered PTFE Hose	20.7	20.7	17.2	13.8	10.3	8.3	6.9						
	919BJ	Silicone Covered PTFE Hose with static-dissipative core	20.7	20.7	17.2	13.8	10.3	8.3	6.9						
	919U	High Abrasion Resistance PTFE Hose	20.7		17.2	13.8									
	929B	Heavy Wall PTFE Hose with static-dissipative core	20.7		17.2	13.8		8.3	8.6						
	929BJ	Silicone Covered PTFE Hose with static-dissipative core	20.7		17.2	13.8		8.3	8.6						
	939	Convoluted PTFE Hose											10.3	9.3	6.9
	939B	Convoluted PTFE Hose with static-dissipative core											10.3	9.3	6.9
	944B	High Pressure PTFE Hose with static-dissipative core			31.0	31.0	27.6	27.6	27.6						
	955B	High Pressure PTFE Hose with static-dissipative core	37.9		37.9	37.9	37.9	37.9	37.9						
	STW Z-STW*	PAGE Heavy Wall PTFE Hose *Double Braid									20.7	20.7	13.8	12.1	
	STB Z-STB*	PAGE Heavy Wall PTFE Hose with static-dissipative core *Double Braid									20.7	20.7	13.8	12.1	
	SCW	PAGE Convoluted PTFE Hose										10.3	10.3	10.3	
	SCB	PAGE Convoluted PTFE Hose with static-dissipative core										10.3	10.3	10.3	
Other	NCW	PAGE Nomex Braid Convoluted										5.0	2.8	1.9	
	NCB	PAGE Nomex Braid Convoluted with static-dissipative core										5.0	2.8	1.9	

*Z indicates double braid for sizes over 1".

Legend

PTFE – Polytetrafluoroethylene
PTFE-S – Polytetrafluoroethylene, Static Dissipative
U – Polyurethane
NB - Nomex Braid
PP - Polypropylene
S - Silicone

Updated August 6, 2025

Construction/Specifications
Fluoropolymer Hose, MPa

PSI Fluoropolymer Construction and Specifications												Reinforcement Type
3/4	1	1 1/4	1 1/2	2					Fractional Size			
-12	-16	-20	-24	-32	Core Tube	Reinforcement Material	Cover Material	Page #	Description	Hose		
MPa	MPa	MPa	MPa	MPa								
					PTFE	SS Wire	—	A-69	PTFE Hose	919		
					PTFE-S	SS Wire	—	A-69	PTFE Hose with static-dissipative core	919B		
					PTFE	SS Wire	S	A-70	Silicone Covered PTFE Hose	919J		
					PTFE-S	SS Wire	S	A-70	Silicone Covered PTFE Hose with static-dissipative core	919BJ		
					PTFE	SS Wire	U	A-71	High Abrasion Resistance PTFE Hose	919U		
					PTFE-S	SS Wire	—	A-72	Heavy Wall PTFE Hose with static-dissipative core	929B		
					PTFE-S	SS Wire	S	A-73	Silicone Covered PTFE Hose with static-dissipative core	929BJ		
7.6	6.9	6.9	5.2	1.7	PTFE	SS Wire	—	A-74	Convoluted PTFE Hose	939		Wire
7.6	6.9	6.9	5.2	1.7	PTFE-S	SS Wire	—	A-74	Convoluted PTFE Hose with static-dissipative core	939B		
					PTFE-S	SS Wire	—	A-75	High Pressure PTFE Hose with static-dissipative core	944B		
					PTFE-S	SS Wire	—	A-76	High Pressure PTFE Hose with static-dissipative core	955B		
6.9	6.9 8.3	6.9*	6.2*		PTFE	SS Wire	—	A-77	PAGE Heavy Wall PTFE Hose *Double Braid	STW Z-STW*		
6.9	6.9 8.3		6.2*		PTFE-S	SS Wire	—	A-77	PAGE Heavy Wall PTFE Hose with static-dissipative core *Double Braid	STB Z-STB*		
8.3	6.4	5.2	4.5	3.1	PTFE	SS Wire	—	A-78	PAGE Convoluted PTFE Hose	SCW		
8.3	6.4	5.2	4.5	3.1	PTFE-S	SS Wire	—	A-78	PAGE Convoluted PTFE Hose with static-dissipative core	SCB		
1.4	1.4				PTFE	NB	—	A-81	PAGE Nomex® Braid Convoluted	NCW		Other
1.4	1.4				PTFE-S	NB	—	A-81	PAGE Nomex® Braid Convoluted with static-dissipative core	NCB		

*Z indicates double braid for sizes over 1".

Legend

PTFE – Polytetrafluoroethylene
PTFE-S – Polytetrafluoroethylene, Static Dissipative
U – Polyurethane
NB - Nomex Braid
PP - Polypropylene
S - Silicone

Updated August 6, 2025

Selection of Hose Diameter

Flow Capacities at Recommended Flow Velocities

The nomogram below is provided as an aid in determining the correct hose size.

How to use the nomogram:
Determine the proper flow rate your system requires, then connect a straight edge from the selected flow rate to the recommended velocity range. The required hose I.D. will appear at the intersection of the straight edge and the center column. If the straight edge passes through the scale between sizes listed, use the next larger I.D. hose.

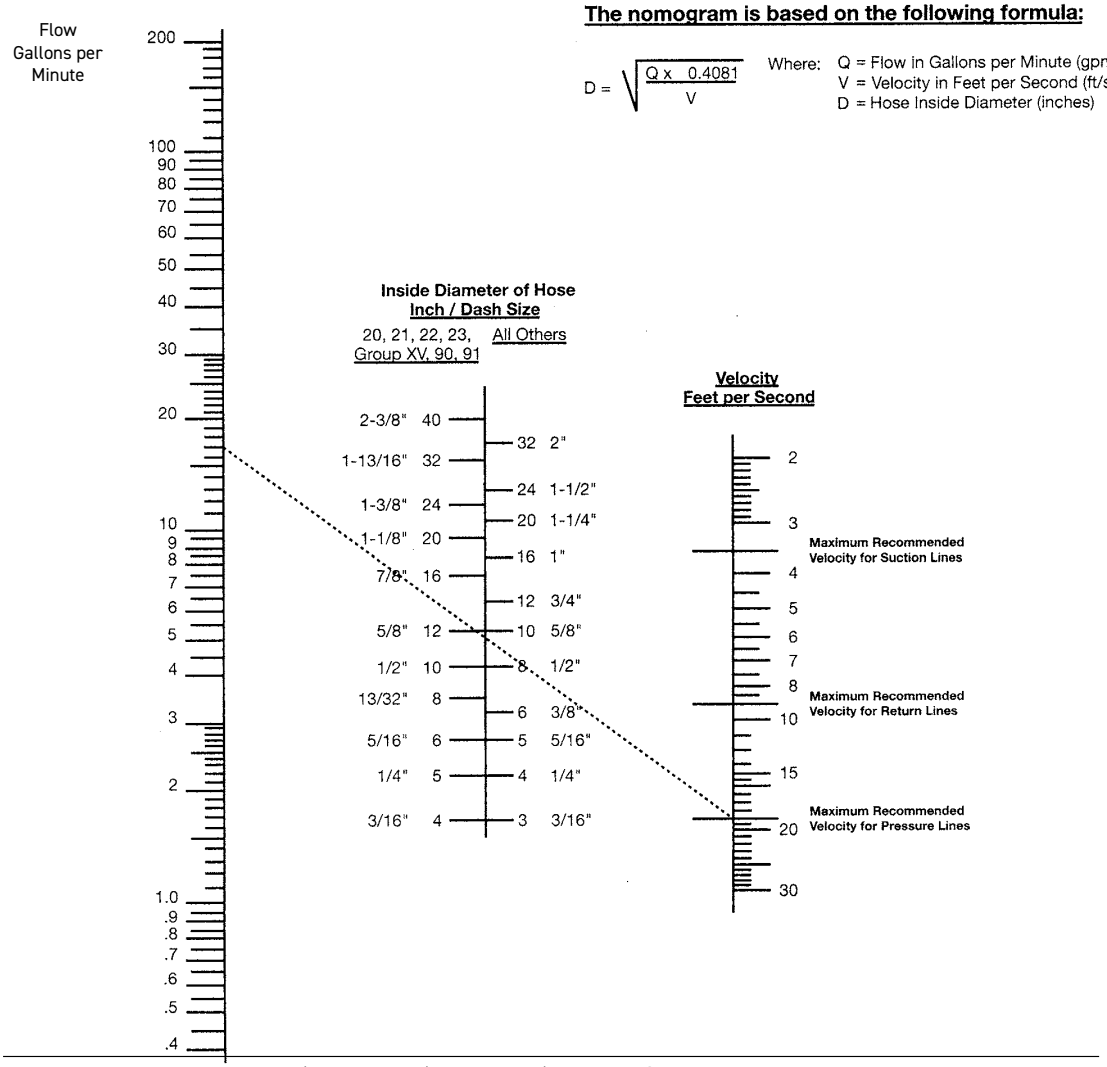
Example: Locate 16 gallons per minute in the left-hand column and 20 feet per second (fps) in the right-hand column (the maximum recommended velocity range for pressure lines). Lay a straight edge across these two points. The inside diameter required is shown in the center column at or above the straight edge. In this case, we need a hose I.D. of 0.625 (5/8") inch (or larger).

Use the same procedure for suction of return lines, except utilizing their respective maximum recommend velocities.

The nomogram is based on the following formula:

$$D = \sqrt{\frac{Q \times 0.4081}{V}}$$

Where: Q = Flow in Gallons per Minute (gpm)
V = Velocity in Feet per Second (ft/sec)
D = Hose Inside Diameter (inches)



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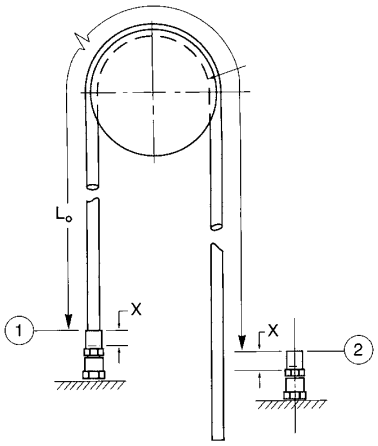
Calculation of Hose Length
For Over-the-Sheave applications

The exact cut-off length for an optimum over-the-sheave assembly depends on the particular mechanical arrangement of the machine. A method for finding an approximate starting point is as follows:

1. Assemble hose with one coupling as shown in diagram.
2. Measure hose length from point 1 to point 2 with hose taut. LO = length
3. Calculation of insert allowance (x) may be found from the coupling dimension tabulations in the fittings section or from direct measurement on the coupling. A 1.5% stretch allowance is provided in the following formula.
4. Calculate hose cutoff hose cut length HCL: HCL = 0.985 LO +2X
   Where HCL includes coupling, insert allowance on both ends.
5. Couple the remaining hose end, check crimp, and assemble on the machine.



Selecting The Correct Hose
"STAMPED"

S **Size**

The appropriate inside and outside diameters

T **Temperature**

The ambient and minimum/maximum temperature of the material being conveyed

A **Application**

External conditions including abrasion, climate, heat, flexing, routing and degrees of bending

M **Media**

The composition of the substance being conveyed and chemical compatibility with the hose inner core and, if applicable, the outer cove

P **Pressure**

The maximum vacuum or pressure of the system, including pressure spikes

E **End**

The appropriate end connection, material and attachment method for the application

D **Delivery**

Testing, quality, packaging, and delivery requirements

Hose Material Features
Core, Reinforcement & Jacket

Attributes Parflex Hose - Hose Core Tubes

	Material	Maximum Working Temperature	Features
Core Tube	Copolyester	Working Temperature: ranging from -70°F (-57°C) to 250°F (127°C)*	▪ Good chemical resistance ▪ Superior flexibility in cold temperatures
	Nylon	Working Temperature: ranging from -40°F (-40°C) to 230°F (110°C)*	▪ Very good chemical resistance ▪ Maximum resistance to permeable fluids
	Polyethylene	Working Temperature: ranging from -40°F (-40°C) to 150°F (66°C)*	▪ Non-leaching ▪ Low moisure absorption
	Polyurethane	Working Temperature: ranging from -40°F (-40°C) to 200°F (93)*	▪ Excellent flexibility
	PTFE	Working Temperature: ranging from -100°F (-73°C) to 500°F (260°C)*	▪ Chemically inert, superior chemical resistance ▪ Lowest coefficient of friction ▪ Superior dielectric strength ▪ Exceptional heat resistance ▪ Non wetting

Attributes Parflex Hose - Hose Reinforcements

	Material	Maximum Working Temperature	Features
Reinforcement	Fiber	Working Temperature: ranging from -70°F (-57°C) to 250°F (127°C)*	▪ High density braid allows for compact braid O.D. ▪ Maximum impulse life ▪ Excellent flexibility
	Steel Stainless Steel	Working Temperature: ranging from -100°F (-73°C) to 500°F (260°C)*	▪ Low volumentric expansion ▪ Maximum strength reinforcement
	Nomex	Working Temperature: ranging from -100°F (-73°C) to 400°F (204°C)*	▪ Very light weight ▪ Superior flexibility ▪ Eliminates RFI issues

Attributes Parflex Hose - Hose Covers

	Material	Maximum Working Temperature	Features
Cover	Copolyester	Working Temperature: ranging from -70°F (-57°C) to 250°F (121°C)*	▪ Low coefficient of friction ▪ Superior flexibility in cold temperatures
	Polyurethane	Working Temperature: ranging from -40°F (-40°C) to 200°F (93°C)*	▪ Abrasion resistant ▪ Non-marring
	Silicone	Working Temperature: ranging from -65°F (-54°C) to 450°F (232°C)*	▪ Abrasion resistant ▪ Keeps hose cooler for operator safety ▪ Protects braiding
	TPV	Working Temperature: ranging from -40°F (-40°C) to 250°F (121°C)*	▪ Extremely durable ▪ Resistant to chemicals and weathering

Notes: *Temperatures listed are maximum and minimums typically associated with this material. However, other factors in the manufacturing process may limit the working temperature. Refer to the specific hose page for actual hose working temperature.

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Hose Material Overview
Materials to Parflex Hose

Materials to Parflex Hose - Hose Core Tubes

Material Code for Hose Core Tubes	Material Name	Hose
H	Copolyester	R6HTBR, 560TJ, 563LT, 563TJ, 590TJ, 594TJ, 53DM/538DM, 55LT, HLB, HLBD, S6, S9
N	Nylon	510D, 518D, 520N, 527BA, 528N, 53DM, 56DH, 575X, 575XN, 578X, 580N, 588N, 1035HT, 5CNG, MSH, MSXL, PTH, S5N, 1035HT, CNGRP
O	Polyethylene	540P
PTFE	Fluoropolymer PTFE	919/919B, 919J, 919BJ, 919U, 929B, 929BJ, 939/939B, 944B, 955B, STW/STB, SCW/SCB, NCW/NCB
U	Polyurethane	83FR, B9

Materials to Parflex Hose - Hose Covers

Material Code for Hose Covers	Material Name	Hose
H	Low Temperature Copolyester	55LT, 53DM/538DM, 563LT
M	Silicone	919J, 919BJ, 929BJ
U	Polyurethane, Elastomeric Nylon	560TJ, 563TJ, 590TJ, 594TJ, 518D, 520N, 528N, 527BA, 540P, 56DH, 575X, 578X-12, 580N, 588N, 83FR, 1035HT, 5CNG, HLB, HLBD, MSH, PTH, S5N, S6, S9
UTJ	Polyurethane TOUGHJACKET	560TJ, 563TJ, 578X-4, 578X-6, 590TJ, 594TJ
N	Flexible Nylon	575XN
TPV	Thermoplastic Vulcanizate	CNGRP

Rating Codes

- G Good to excellent. Little or no swelling, tensile or surface changes. Preferred choice.
- L Marginal or conditional. Noticeable effects but not necessarily indicating lack of serviceability. Further testing suggested for specific application. Very long-term effects such as stiffening or potential for crazing should be evaluated.
- P Poor or unsatisfactory. Not recommended without extensive and realistic testing.
- – Indicates that this was not tested.
- # For fluoropolymer. Indicates good chemical resistance but potential for excessive permeation.
- 2 See notes pg. A-25.
- 3 See notes pg. A-25.
- 4 See notes pg. A-25.
- 5 See notes pg. A-25.
- 6 See notes pg. A-25.
- 7 See notes pg. A-25.
- 8 See notes pg. A-25.

Compatibility Guide
Media to Hose Material

Media to Hose Material

Media	H	N	U/UTJ	PTFE	M	TPV
Acetaldehyde	G	L	L	G	P	L
Acetic Acid Glacial	L	L	L	G	L	L
Acetone	L	G	P	G	P	L
Acetylene	(2)	(2)	(2)	(2)	P	P
Air (4)	G	G	G	G	G	G
Ammonium Chloride	G	P	G	G	P	G
Ammonium Hydroxide	L	G	P	G	G	G
Anhydrous Ammonia	P	P	P	(8)	P	G
Aniline	P	P	P	G	P	L
Animal Oils (6)	G	G	G	G	P	P
Aromatic Hydrocarbons	L	G	L	G	P	P
Asphalt	G	G	G	G	P	L
Baygon (Insecticide)	L	G	P	G	-	-
Beer	G	G	G	G	G	G
Benzene	L	G	L	G	P	P
Brake Fluid (DOT #3)	-	G	P	G	P	L
Butane (2) (4)	G	G	L	#	P	P
Butter (6)	G	G	G	G	P	P
Calcium Chloride	G	(3)	G	G	G	G
Carbon Dioxide (4)	G	G	G	#	L	G
Carbon Monoxide (4)	G	(3)	G	#	G	G
Carbon Tetrachloride	L	G	P	G	P	P
Castor Oil	G	L	L	G	G	L
Chlorinated Hydrocarbon Base Fluids	L	G	L	G	P	P
Chlorinated Petroleum Oil	G	G	L	-	P	P
Chlorinated Solvents	P	(3)	P	G	P	P
Chlorine, Gaseous, Dry	P	P	P	#	P	P
Chlordane (Insecticide)	L	G	P	-	P	P
Chloroform	P	P	P	G	P	P
Chromic Acid	P	(3)	P	G	P	P
Citric Acid Solutions	G	G	L	G	G	G
Crude Petroleum Oil	G	G	G	G	P	P
Cyclohexane (2)	G	G	G	G	P	P
Cygon (Insecticide)	L	G	P	-	-	-
Diazion (Insecticide)	L	-	P	-	P	P
Diesel Fuel (2)	G	G	G	G	P	P
Diester Oils	L	G	P	G	P	P
Enamels	G	G	G	G	-	-
Ethanol (6)	G	G	L	G	P	G
Ethers	L	G	P	G	P	P
Ethylene Glycol	L	G	L	G	G	G
Ethylene Oxide	G	G	L	#	P	G
Fatty Acids	G	G	(3)	G	P	L
Formaldehyde	L	L	P	G	P	G
Formic Acid	P	P	P	G	P	G

Rating Code - pg. A-21
Notes - pg. A-25

(Cont.)

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Compatibility Guide
Media to Hose Material

Media to Hose Material

Media	H	N	U/UTJ	PTFE	M	TPV
Freon 12 (5)	P	G	L	#	P	P
Freon 22 (5)	P	G	L	#	P	P
Fruit Juices	G	G	G	G	G	G
Fuel Oil (2)	G	G	L	G	P	P
Gas (Oil) (2)	G	G	G	G	P	P
Gas (Natural) (4)	(2)	(2)	(2)	(2)	P	P
Gasoline (2)	G	G	(3)	G	P	P
Glue	(3)	(3)	(3)	(3)	G	G
Glycerin	G	G	L	G	G	G
Glycols (to 135°F)	L	G	L	G	G	L
Grease (Petroleum base)	G	G	G	G	P	P
Heptachlor (Insecticide)	L	G	P	G	-	-
Hexane (2)	G	G	G	G	P	L
Houghto Safe-600 Series (Hydraulic fluid)	G	G	L	G	L	G
Houghto Safe-1000 Series (Phosphate esters)	L	G	P	G	P	G
Hydraulic Fluid (Petroleum base)	G	G	G	G	P	P
Hydraulic Fluid (Phosphate ester base)	L	G	L	G	P	G
Hydraulic Fluid (Water glycol base)	G	G	G	G	P	L
Hydraulic Oil (Petroleum base)	G	G	G	G	P	P
Hydrochloric Acid	P	L	P	G	P	L
Hydrofluoric Acid	P	P	P	G	P	P
Hydrogen, Gaseous (2) (4) (5)	G	G	G	-	P	G
Hydrolube (Hydraulic fluid/water glycol base)	G	G	L	G	P	G
IRUS 902 (Hydraulic fluid/water-oil emulsion)	G	G	G	G	-	-
Isocyanates (2)	L	L	L	G	-	-
IsoOctane (2)	G	G	G	G	P	P
Isopropyl Alcohol	G	G	L	G	G	L
Kerosene (2)	G	G	L	G	P	P
Ketones	L	G	P	G	P	P
Lacquer Solvents	L	G	P	G	P	P
Lactic Acid	P	G	P	G	L	G
Lime (Calcium oxide)	G	G	G	G	P	G
Lindol (Hydraulic fluid/phosphate esters)	L	G	P	G	G	G
Linseed Oil	G	G	G	G	G	L
LP - Gas	(2)	(2)	(2)	(2)	P	P
Lubricating Oils (Diester base)	L	G	P	G	P	P
Lubricating Oils (Petroleum base)	G	G	G	G	P	P
Malathion (Insecticide)	L	G	P	G	P	-
Magnesium Hydroxide	L	G	L	G	P	G
Magnesium Salts	-	G	G	G	G	G
Mercury	G	G	G	G	G	G
Meropa Oil (Sulphur base)	G	G	-	G	-	-
Methane	(2)	(2)	(2)	(2)	P	P
Methanol	G	G	P	G	G	G
Methoxychlor (Insecticide)	L	G	P	G	-	-

Rating Code - pg. A-21
Notes - pg. A-25
(Cont.)

Compatibility Guide
Media to Hose Material

Media to Hose Material

Media	H	N	U/UTJ	PTFE	M	TPV
Methyl Alcohol (6)	G	G	P	G	G	G
Methylene Chloride	P	L	P	G	P	P
Methyl Ethyl Ketone (MEK)	L	G	P	G	P	P
Methyl Ethyl Ketone Peroxide (MEKP)	-	L	P	G	L	-
Methyl Isobutyl Ketone (MIBK)	L	G	P	G	P	P
Milk (6)	G	G	G	G	G	G
Mineral Oil	G	G	G	G	P	P
Mineral Spirits	P	-	L	G	P	L
Motor Oils	G	G	G	G	P	-
Naphtha	L	G	P	G	P	P
Natural Gas (4)	(2)	(2)	(2)	(2)	P	P
Nitric Acid	P	P	P	G	P	P
Nitrobenzene	P	G	P	G	P	L
Nitrogen, Gaseous (4) (5)	G	G	G	G	G	G
Nitrous Oxide	-	L	-	#	G	-
Oil (SAE)	G	G	G	G	L	P
Oil of Turpentine	G	G	P	G	P	P
Oleic Acid	G	G	G	G	P	L
OS 45 Type 3 Hydraulic Fluid (Silicate esters)	L	G	L	-	P	-
Oxygen, Gaseous (4) (5) (6)	G	G	G	G	G	G
Ozone	L	P	L	G	G	G
Paint Solvents (Oil base)	L	G	L	G	-	L
Paint (Oil Base) (7)	G	G	G	G	P	P
Pentane (2)	G	G	L	G	P	G
Perchloric Acid	P	P	P	G	P	P
Perchloroethylene	P	P	P	G	P	P
Petroleum Ether	-	(2)	(2)	(2)	P	-
Petroleum Oils	G	G	G	G	P	P
Phenols	P	P	P	G	-	P
Phosphate Esters (above 135°F)	P	G	P	G	P	G
Phosphate Esters (to 135°F)	G	G	P	G	P	G
Polyol Esters	L	G	P	G	P	P
Potassium Hydroxide, 50%	P	P	P	G	G	G
Propane (4) (5)	(2)	(2)	(2)	(2)	P	P
Propylene Glycol	-	-	G	G	G	G
Pydraul F-9, 150, 160 (to 135°F)	G	G	P	G	-	P
Pydraul 312C, 625 (to 135°F)	P	G	P	G	P	P
Quintolubric 822 Fluid	-	G	G	G	-	-
Salt Water	(3)	(3)	(3)	G	G	G
Sevin (Insecticides in water)	G	G	G	G	-	-
Silicone Greases	G	G	G	G	P	L
Silicone Oils	G	G	G	G	P	L
Skydrol 500 & 7000	L	G	P	G	P	L
Soap Solutions	G	G	G	G	G	G

Rating Code - pg. A-21
Notes - pg. A-25

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Compatibility Guide
Media to Hose Material

Media to Hose Material

Media	H	N	U/UTJ	PTFE	M	TPV
Soda Water	G	G	G	G	G	G
Sodium Borate	G	G	G	G	G	G
Sodium Carbonate	(3)	(3)	(3)	(3)	G	G
Sodium Chloride Solutions	G	G	G	G	G	G
Sodium Hydroxide, 50%	L	P	P	G	G	G
Sodium Hypochlorite	L	P	P	G	P	G
Steam	P	P	P	G	P	G
Stoddard Solvent	P	G	P	G	P	P
Straight Synthetic Oils (Phosphate esters)	L	G	P	G	P	G
Sulfur	G	G	G	G	P	L
Sulfur Dioxide	P	L	L	G	P	G
Sulfur Hexafluoride Gas (4) (5)	G	G	G	G	P	L
Sulphuric Acid	P	P	P	G	P	P
Toluene	L	G	L	G	P	P
Toloul	L	G	L	G	-	-
Transmission Fluid	G	G	G	G	P	P
Trichloroethylene	P	L	P	G	P	P
Trisodium Phosphate Solutions	L	G	P	G	G	G
Turpentine	G	G	L	G	P	P
Ucon (Hydraulic fluid-water glycol base)	G	G	L	G	G	L
Varnish	G	G	G	G	P	L
Vinegar (6)	L	G	L	G	G	G
Water (to 135°F) (6)	G	G	G	G	G	G
Water (above 135°F) (6)	P	G	P	G	G	G
Water Glycols (to 135°F)	L	G	L	G	G	-
Water Glycols (above 135°F)	P	P	P	G	G	-
Water in oil Emulsions (to 135°F)	G	G	L	G	P	-
Water in oil Emulsions (above 135°F)	P	G	P	G	P	-
Whiskey, Wines (6)	G	G	L	G	G	G
Wood Oils	G	G	L	G	P	L
Xylene	L	G	P	G	P	P
Zinc Chloride	G	G	G	G	G	G

Rating Code - pg. A-21

Notes:

The Fluid Compatibility Guides are simplified rating tabulations based on immersion tests at 75°F (24°C). Higher temperatures tend to reduce ratings. Since final selection depends on pressure, fluid and ambient temperature and other factors not known to Parker Hannifin Co., no performance guarantee is expressed or implied. Ratings do not imply compliance with specialized codes such as FDA, NSF, CSA or UL and do not cover possible fluid discoloration, taste or odor effects. For conveying foodstuffs, use FDA sanctioned materials and for potable water, use NSF listed materials. For chemicals not listed, or for advice on particular applications, please consult pfd_support@support.parker.com

- (2) Hose applications for these fluids must take into account legal and insurance regulations. This does not imply ISO, CSA, ECE or UL compliance.
- (3) Satisfactory at some concentrations and temperatures, unsatisfactory in others.
- (4) For high pressure gases, the cover should be pinpricked and the pressure must not be released quickly. Chain or restrain the hose to prevent personal injury in the event of damage or failure.
- (5) Chemical compatibility does not imply low permeation rates. Consult the Parker factory for a suggestion for your specific requirement.
- (6) Does not imply NSF or FDA compliance.
- (7) Chemical compatibility does not imply acceptability for use in airless paint spray applications. These applications require a special conductive hose.
- (8) Fluoropolymers are chemically compatible with Anhydrous Ammonia. However,extreme caution must be used in dealing with Anhydrous Ammonia since it can cause severe injuries such as blindness and/or chemical burns.

Updated August 6, 2025

Volumetric Expansion of Hose
at Maximum Working Pressure

Hydraulic hoses expand under pressure. On some applications, customers can use the differences in expansion between hoses to tune systems for better performance or even noise reduction. Parflex has tested a select list of hoses and determined the rate of expansion in cubic centimeters per foot of hose (cc/ft). To calculate the volumetric expansion of a hose, substitute the desired pressure into the "X" values in the appropriate equation. For other hoses, please contact the division.

Volumetric Expansion (VE) of Hose

Hose Part Number	VE at Max. Working Pressure		Equation for Volumetric Expansion	
	psi	cc/ft	Y=cc/ft	X=psi
510C-3	3250	2.33	Y=0.0007X+0.0581	
510C-4	3000	2.71	Y=0.0009X+0.0059	
510C-5	2500	3.41	Y=0.0013X+0.1647	
510C-6	2250	4.32	Y=0.0019X+0.0471	
510C-8	2250	7.36	Y=0.0032X+0.1637	
510C-12	1250	8.99	Y = 0.00745x - 0.29910	
510C-16	1000	15.33	Y = 0.01573x - 0.44928	
518C-3	3250	2.33	Y=0.0007X+0.0581	
518C-4	3150	2.71	Y=0.0009X+0.0059	
518C-5	3150	3.41	Y=0.0013X+0.1647	
518C-6	3000	4.32	Y=0.0019X+0.0471	
518C-8	3000	7.36	Y=0.0032X+0.1637	
518C-12	1660	8.99	Y = 0.00745x - 0.29910	
518C-16	1330	15.33	Y = 0.01573x - 0.44928	
520N-3/528N-3	5000	1.13	Y = 0.0002x + 0.1621	
520N-4/528N-4	5000	2.05	Y = 0.00031x + 0.47589	
520N-5/528N-5	4500	2.63	Y = 0.00048x + 0.48415	
520N-6/528N-6	4000	2.87	Y = 0.00053x + 0.75151	
520N-8/528N-8	3500	3.64	Y = 0.00086x + 0.64994	
53DM-4	3045	1.9	Y = 0.00062x + 0.02373	
53DM-6/538DM-6	3045	3.19	Y = 0.0010x + 0.0647	
53DM-8	3045	4.68	Y = 0.0016x + 0.0384	
53DM-10	3045	9.82	Y = 0.0033x - 0.2254	
540N-2	3000	1.11	Y = 0.00036x + 0.04607	
540N-3	3000	1.75	Y = 0.00057x + 0.03059	
540N-4	2750	2.33	Y = 0.00079x + 0.14354	
540N-5	2500	3.46	Y = 0.00124x + 0.31870	
540N-6	2250	4.06	Y = 0.00174x + 0.15045	
540N-8	2000	6.05	Y = 0.0030x + 0.0928	
540N-12	1250	10.26	Y = 0.0081x - 0.2671	
560TJ-3	3626	0.575	Y = 0.00017x + 0.00875	
560TJ-4	3263	0.757	Y = 0.0002x + 0.1172	
560TJ-5	3118	0.729	Y = 0.00021x + 0.09887	
560TJ-6	2750	1.33	Y = 0.0004x + 0.1918	
560TJ-8	2500	1.98	Y = 0.0007x + 0.2093	
560TJ-10	2000	3.04	Y = 0.0012x + 0.5704	
560TJ-12	1750	3.07	Y = 0.0015x + 0.4449	

Example: Find the volumetric expansion of 560-8 hose at 2000 psi

- From the chart, the appropriate equation would be Y=0.0007x + 0.2093
- Substituting: Y=0.0007* (2000) + 0.2093
- Volumetric expansion "Y" = 1.60 cc/ft @ 2000 psi

Volumetric Expansion (VE) of Hose

Hose Part Number	VE at Max. Working Pressure		Equation for Volumetric Expansion	
	psi	cc/ft	Y=cc/ft	X=psi
575X-3	5000	1.69	Y = 0.0003x + 0.2119	
575X-4	5000	2.05	Y = 0.0003x + 0.5601	
575X-6	5000	2.71	Y = 0.0004x + 0.8412	
575XN-8	5000	4.59	Y = 0.00064x + 1.41795	
575X-12	5000	12.52	Y = 0.00192x + 2.92038	
575X-16	5000	16.81	Y = 0.0028x + 2.9560	
590TJ-4	5076	0.888	Y = 0.00016x + 0.09821	
590TJ-6	4061	1.87	Y = 0.00038x + 0.32317	
590TJ-8	3553	2.17	Y = 0.00049x + 0.43765	
590TJ-12	2500	4.2	Y = 0.0013x + 0.8216	
590TJ-16	2030	6.21	Y = 0.0026x + 1.0558	

The actual volumetric expansion achieved is influenced by multiple variables including fluid properties, hose routing and application temperature.

The volumetric expansion calculation is only a general guideline and must be verified by actual testing in the end-use application.

No performance warranty in design is expressed or implied by this calculation. Parker recommends that the user review and understand all the precautions listed in the Parker Safety Guide for Selecting and Using Hose, Fittings and Accessories,bulletin BUL. 4400-B.1.

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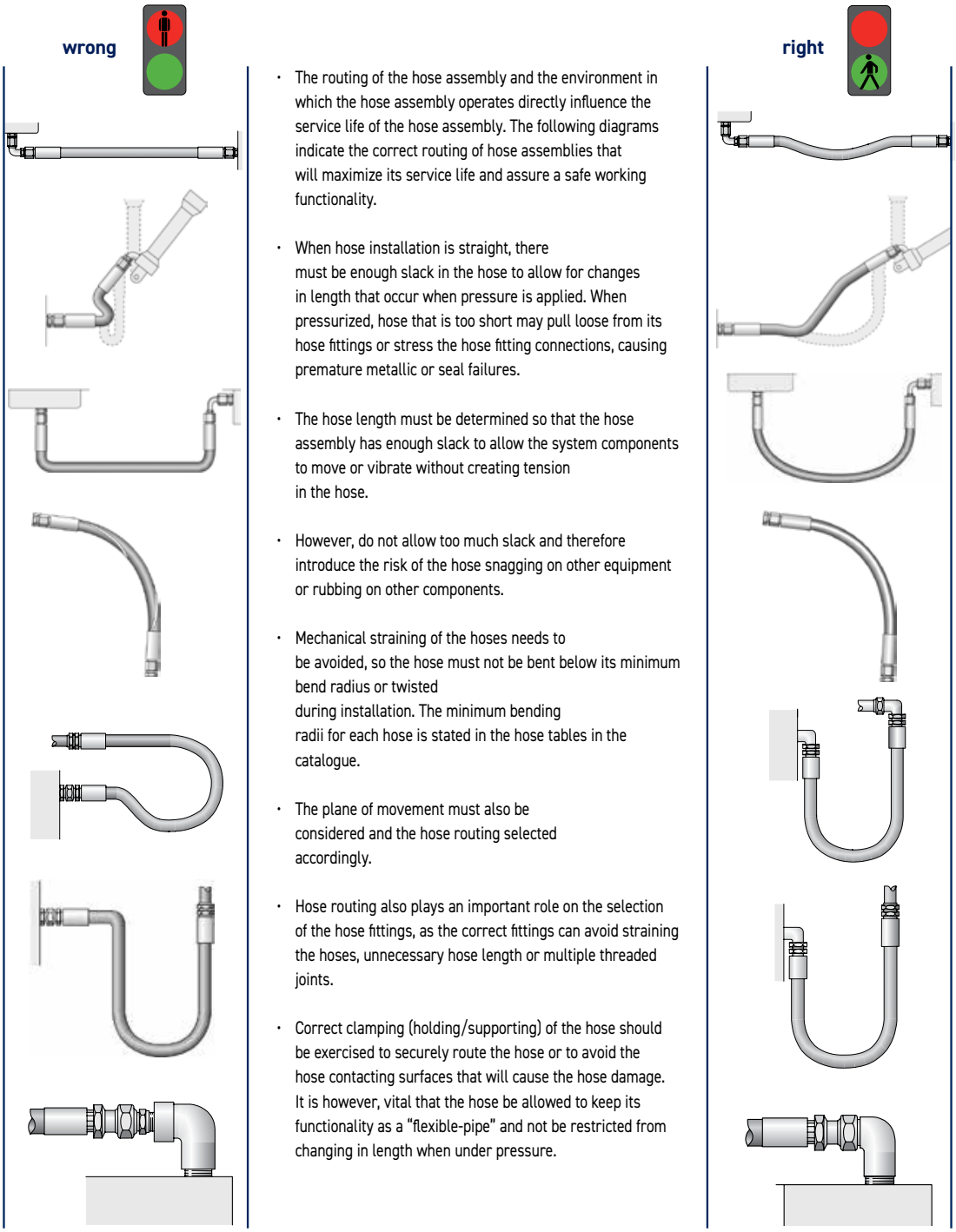
Selection, Installation & Maintenance
Right/Wrong

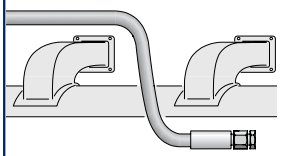


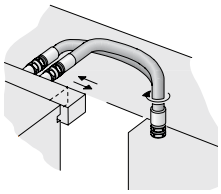
- The routing of the hose assembly and the environment in which the hose assembly operates directly influence the service life of the hose assembly. The following diagrams indicate the correct routing of hose assemblies that will maximize its service life and assure a safe working functionality.
- When hose installation is straight, there must be enough slack in the hose to allow for changes in length that occur when pressure is applied. When pressurized, hose that is too short may pull loose from its hose fittings or stress the hose fitting connections, causing premature metallic or seal failures.
- The hose length must be determined so that the hose assembly has enough slack to allow the system components to move or vibrate without creating tension in the hose.
- However, do not allow too much slack and therefore introduce the risk of the hose snagging on other equipment or rubbing on other components.
- Mechanical straining of the hoses needs to be avoided, so the hose must not be bent below its minimum bend radius or twisted during installation. The minimum bending radii for each hose is stated in the hose tables in the catalogue.
- The plane of movement must also be considered and the hose routing selected accordingly.
- Hose routing also plays an important role on the selection of the hose fittings, as the correct fittings can avoid straining the hoses, unnecessary hose length or multiple threaded joints.
- Correct clamping (holding/supporting) of the hose should be exercised to securely route the hose or to avoid the hose contacting surfaces that will cause the hose damage. It is however, vital that the hose be allowed to keep its functionality as a "flexible-pipe" and not be restricted from changing in length when under pressure.

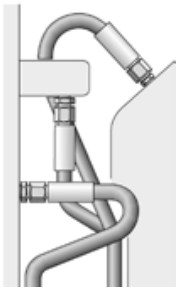
Updated August 6, 2025

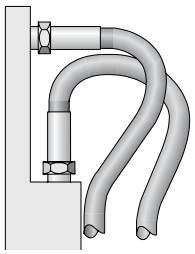
Selection, Installation & Maintenance
Right/Wrong

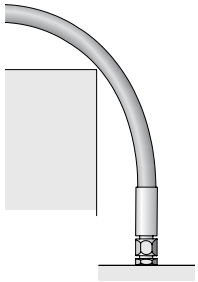
wrong









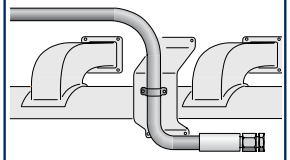


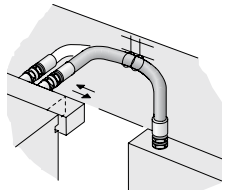
- It should also be noted that hoses for high- and low-pressure lines shall not be crossed or clamped together, as the difference in changes in length could wear the hose covers.
- Hose should not be bent in more than one plane. If hose follows a compound bend, it shall be coupled into separate segments or clamped into segments that each flex in only one plane.
- Hoses should be kept away from hot parts as high ambient temperatures shorten hose life. Protective insulation may need to be used in unusually high ambient temperature areas.
- While the importance of the functionality is primary, the aesthetics and practicality of the installation should also be considered in the design.
- Maintenance might be necessary at some point in the future, so prohibitive design routings should be avoided.

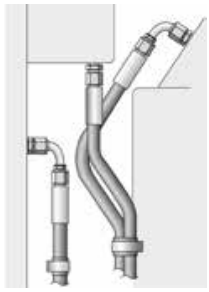
Abrasive Influences

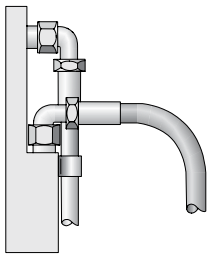
In general care should be taken so that the hose is not exposed to direct surface contact that will cause abrasive wearing of the outer cover (either hose to object or hose to hose contact). If however, the application is such that this cannot be avoided, either a hose with a higher abrasion resistant hose cover or a protective sleeve need to be used.

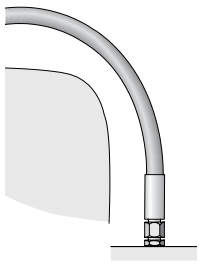
right











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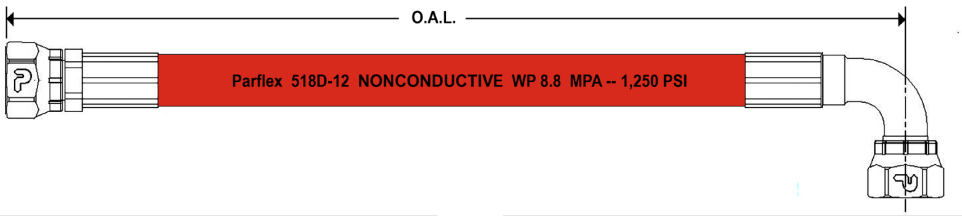
Nomenclature - Thermoplastic Hose
Parflex



BOX 1 Prefix
Symbol Description

F = Parkrimp (56-series, CG-series, etc)
R = Field Attachable (51R-series, etc)

BOX 2 Hose Type
Symbol Description

518D = SAE 100R7 Non-conductive hose

Note: see page A-4 - A-5 for complete list of Parflex thermoplastic hoses

BOX 3 1st Fitting Configuration
Symbol Description

06 = Female JIC 37° Swivel - straight

Note: see page E-5 for list of fitting configurations

BOX 4 2nd Fitting Configuration
Symbol Description

39 = Female JIC 37° Swivel - 90° elbow short drop

Note: see page E-5 for list of fitting configurations

BOX 5 1st Fitting Connection Size
Symbol Description

-12 = 3/4" Female JIC (1-1/16 x 12 thread)

BOX 6 2nd Fitting Connection Size
Symbol Description

-12 = 3/4" Female JIC (1-1/16 x 12 thread)

BOX 7 Hose Size
Symbol Description

-12 = 3/4" (Hose Inner Diameter)

BOX 8 Fitting Material
Symbol Description

No Suffix = Carbon Steel
C = Stainless Steel

BOX 9 Hose Assembly Guard
Symbol Description

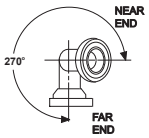
G - Hose Guard (Carbon Steel/Stainless Steel)
VG - Hose Guard (Vinyl)

Suffix is omitted if there is no guard used with the hose assembly

BOX 10 Over All Length (OAL) 52 - expressed in inches
Symbol Description

OAL of a hose assembly is measured from the end of the straight fitting or centerline of the fitting seat. OAL of the Seal-Lok® (ORFS) fitting is measured to the sealing surface of the straight fitting or to the centerline of the elbow fitting

BOX 11 Displacement Angle
Symbol Description

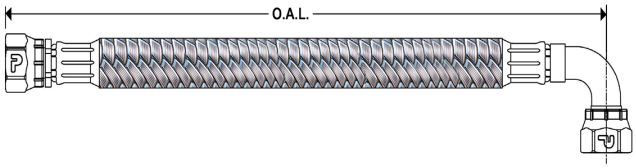


Specified only if two (2) elbow fittings are used. Start with either end as the far end, measure the angle clockwise to describe the displacement angle of the near end.

Example: F518D0639121212C#-52-##

BOX 1 Parkrimp Hose Style	F518D0639121212C#-52-##
BOX 2 Hose Series	F518D0639121212C#-52-##
BOX 3 & 4 Fitting Configuration	F518D0639121212C#-52-##
BOX 3 06 = Female SAE JIC 37° Swivel	
BOX 4 39 = Female SAE JIC 37° Swivel - 90° Elbow	
BOX 5 & 6 Connection Size	F518D0639121212C#-52-##
Box 5 -12 = 3/4"	
Box 6 -12 = 3/4"	
BOX 7 Hose Size -12 = 3/4"	F518D0639121212C#-52-##
BOX 8 Fitting Material C= Stainless Steel	F518D0639121212C#-52-##
BOX 9 Hose Assembly Guard - Blank (none)	F518D0639121212C#-52-##
BOX 10 Overall Hose Length 52"	F518D0639121212C#-52-##
BOX 11 Displacement Angle Not used	F518D0639121212C#-52-##

Nomenclature - PTFE Hose
Series 919



BOX 1 Prefix
Symbol Description

P	=	Parkrimp (91N-series, 93N-series, etc)
R	=	Field Attachable (90-series)

BOX 2 Hose Type
Symbol Description

919 - SAE 100R14 PTFE hose

Note: see page A-6 for complete list of Parflex fluoropolymer hoses

BOX 3 1st Fitting Configuration
Symbol Description

06 = Female JIC 37° Swivel - straight

Note: see page E-5 for list of fitting configurations

BOX 4 2nd Fitting Configuration
Symbol Description

39 = Female JIC 37° Swivel - 90° elbow short drop

Note: see page E-5 for list of fitting configurations

BOX 5 1st Fitting Connection Size
Symbol Description

-06 = 3/8" Female JIC (9/16 x 18 thread)

BOX 6 2nd Fitting Connection Size
Symbol Description

-06 = 3/8" Female JIC (9/16 x 18 thread)

BOX 7 Hose Size
Symbol Description

-06 = (3/8" Hose Inner Diameter)

Note: PTFE smooth bore hoses have a reduced inside diameter.
See individual catalog pages for exact I.D.

BOX 8 Fitting Material
Symbol Description

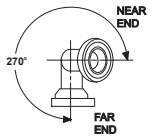
No Suffix = Carbon Steel
C = Stainless Steel
S = All Carbon Steel (91N-series)

Note: 91N-series fittings do have configurations where there standard construction is brass nipple with carbon steel crimp shell.
Reference individual catalog pages for specific constructions.

BOX 9 Over All Length (OAL) 30 - expressed in inches
Symbol Description

OAL of a hose assembly is measured from the end of the straight fitting or centerline of the fitting seat. OAL of the Seal-Lok® (ORFS) fitting is measured to the sealing surface of the straight fitting or to the centerline of the elbow fitting

BOX10 Displacement Angle
Symbol Description



Specified only if two (2) elbow fittings are used. Start with either end as the far end, measure the angle clockwise to describe the displacement angle of the near end.

Example: P9190639060606C-30-##

BOX 1 Parkrimp Hose Style	P9190639060606C-30-##
BOX 2 Hose Series	P9190639060606C-30-##
BOX 3 & 4 Fitting Configuration	P9190639060606C-30-##
BOX 3 06 = Female SAE JIC 37° Swivel	
BOX 4 39 = Female SAE JIC 37° Swivel - 90° Elbow	
BOX 5 & 6 Connection Size	P9190639060606C-30-##
BOX 5 -06 = 3/8"	
BOX 6 -06 = 3/8"	
BOX 7 Hose Size -06 = 3/8"	P9190639060606C-30-##
BOX 8 Fitting Material C= Stainless Steel	P9190639060606C-30-##
BOX 9 Overall Hose Length 30"	P9190639060606C-30-##
BOX 10 Displacement Angle Not used	P9190639060606C-30-##

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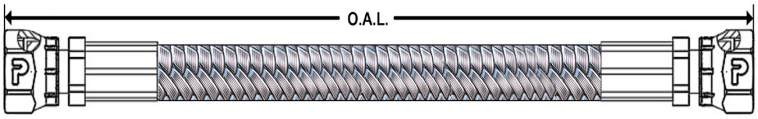
Nomenclature - PTFE Hose
Series PAGE



BOX 1 Hose Size
Symbol Description

-32 = 2" Hose Inner Diameter

BOX 2 Hose Code
Symbol Description

M	=	NCW	T	=	SCW
MB	=	NCB	TB	=	SCB
S	=	STW	V	=	CWV
SB	=	STB			

BOX 3 1st Fitting Configuration
Symbol Description

30 = Female JIC 37° Swivel - straight

BOX 4 1st Fitting Material
Symbol Description

4 = 304 Stainless (SS 304)
6 = 316 Stainless (SS 316)
C = Steel
H = Hastelloy
M = Monel

BOX 5 2nd Fitting Configuration
Symbol Description

30 = Female JIC 37° Swivel - straight

BOX 6 2nd Fitting Material
Symbol Description

4 = 304 Stainless (SS 304)
6 = 316 Stainless (SS 316)
C = Steel
H = Hastelloy
M = Monel

BOX 7 Flange Material
Symbol Description

0 = No flange
6 = 316 Stainless (SS 316)

BOX 8 Over All Length (OAL) 0120 - expressed in inches
Symbol Description

OAL of a hose assembly is measured from the end of the straight fitting or centerline of the fitting seat. OAL of the Seal-Lok® (ORFS) fitting is measured to the sealing surface of the straight fitting or to the centerline of the elbow fitting

*Note: There are 2 places for length. If length is not a full inch, the 2nd character length is noted in 1/8" increments (120.5" = 0120-4) 32J03C13C0-0120-4-F

BOX 9 Accessories
Symbol Description

Blank	=	None	T	=	FEP Heat Shrink
F	=	Fire Sleeve	W	=	Vacuum Spring Wire
S	=	Spring Guard			

		Fitting Code		
Industrial Thread	Male Pipe NPTF Rigid	03	JIC Female Swivel	30
	Female Pipe NPTF Rigid	06	JIC Female Step Up	32
	Male Pipe NPTF Step Down	13	Female ORFS Swivel	80
	Male Pipe NPTF Step Up	23		
Flanges	Flange Retainer	05		
Sanitary	Sanitary Tri Clamp Flange	40	Sanitary 3-Step Up	4C
	Sanitary 1-Step Up	4A	Sanitary Mini Flange	42
	Sanitary 2-Step Up	4B	Sanitary Mini Step Up	43
Tube and Vacuum	Alok Male Standpipe	38	Female Alok Compression	39
Special Ends	Cuffed Ends*	90	Non Standard Fitting	99

*For use with CV01 and CVH convoluted assemblies

Example: 32S3063060-0120-4-#

BOX 1 Hose Size -32 = 2 inches	**32S3063060-0120-4-#**
BOX 2 Hose Code = STW Series	**32S3063060-0120-4-#**
BOX 3 Fitting Configuration 1st end	**32S3063060-0120-4-#**
Fitting 30 = Female JIC 37° Swivel - Straight	
BOX 4 Fitting Material 1st end	**32S3063060-0120-4-#**
BOX 5 Fitting Configuration 2nd end	**32S3063060-0120-4-#**
Fitting 30 = Female JIC 37° Swivel - Straight	
BOX 6 Fitting Material 2nd end	**32S3063060-0120-4-#**
BOX 7 Flange Material 0 = no flange	**32S3063060-0120-4-#**
BOX 8 Overall Hose Length 0120-4 = 120.5"	**32S3063060-0120-4-#**
BOX 9 Accessory Code - Blank (no accessory)	**32S3063060-0120-4-#**

*Note: There are places for 2 characters. If number, refer to length; if letter, refer to accessories code
Character 1 = Length in 1/8" increments
Character 2 = Accessory code

Updated August 6, 2025

D6R – Hybrid® SAE 100R17 Hydraulic Hose
Copolyester Core Tube

Compact hose construction for bend radius less than half of conventional SAE hoses.



Features
- Up to 40% lighter than comparable rubber hoses
- Wide range of fluid compatibility
- Bend radius less than half of conventional SAE 100R1AT and 100R2 hoses
- Low force to flex
- 3,000 psi constant working pressure

Compliance
- Exceeds SAE J517 100R17
- MSHA compliant cover

Construction
- Tube: Copolyester
- Reinforcement: One or two high tensile steel wire braids
- Cover: Smooth Synthetic Rubber

Fittings
- 56 Series – pg. E-33
- For most Parker products, Crimp Die Selection charts are found online at www.parker.com/crimpsource
- Access instructions are on pg. G-3

Operating Parameters
- Temperature Range:
  - Petroleum based hydraulic fluids and lubricating oils within a temperature range -40°F (-40°C) to 250°F (121°C)
  - Synthetic, synthetic blend, water, and water/oil emulsion hydraulic fluids limited to 185°F (85°C)
  - Water/glycol hydraulic fluids limited to 135°F (57°C)
- Vac. Rating: 28 inch Hg
- Change in length at Max. Working Pressure: +2% to -4%
- Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

Notes
- Non-perforated cover

Color
- ● Black

OBSOLETE

Series D6R

Visit the webpage

Part Number	Nominal I.D.		Maximum O.D.		Maximum Working Pressure		Minimum Bend Radius		Weight		Permanent Fitting Series
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs./ft.	kg/mtr	
D6R04	1/4	6.3	0.46	11.7	3,045	21.0	1-1/2	38.1	0.10	0.14	56
D6R05	5/16	8	0.52	13.2	3,045	21.0	1-3/4	44.5	0.12	0.18	56
D6R06	3/8	10	0.61	15.5	3,045	21.0	2	50.8	0.17	0.25	56
D6R08	1/2	12.5	0.78	19.9	3,045	21.0	3	76.2	0.26	0.38	56

⚠ WARNING
This product can expose you to chemicals including Antimony Oxide (Antimony Trioxide), which is known to the State of California to cause cancer, and 2-Imidazolidinethione, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

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HFSR Hybrid® SAE 100R1AT Hydraulic Hose
Copolyester Core Tube

Compact O.D. without reduced flow and up to 40% lighter than comparable rubber hoses.



Features
- Up to 40% lighter than comparable rubber hoses
- Wide range of fluid compatibility
- Bend radius less than half of conventional SAE 100R1AT and 100R2 hoses
- Low force to flex

Compliance
- Meets/Exceeds SAE J517 100R1AT
- MSHA compliant cover

Construction
- Tube: Copolyester
- Reinforcement: High tensile steel wire braid
- Cover: Smooth Synthetic Rubber

Fittings
- 56 Series – pg. E-33
- For most Parker products, Crimp Die Selection charts are found online at www.parker.com/crimpsource
- Access instructions are on pg. G-3

Operating Parameters
- Temperature Range:
  - Petroleum based hydraulic fluids and lubricating oils within a temperature range -40°F (-40°C) to 250°F (121°C)
  - Synthetic, synthetic blend, water, and water/oil emulsion hydraulic fluids limited to 185°F (85°C)
  - Water/glycol hydraulic fluids limited to 135°F (57°C)
- Vac. Rating: 28 inch Hg
- Change in length at Max. Working Pressure: +2% to -4%
- Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

Notes
- Non-perforated cover

Color
- ● Black

OBSOLETE

Series HFS2R

Visit the webpage

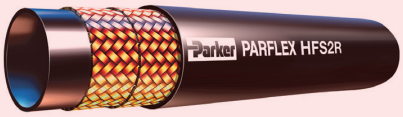
Part Number	Nominal I.D.		Maximum O.D.		Maximum Working Pressure		Minimum Bend Radius		Weight		Permanent Fitting Series
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs./ft.	kg/mtr	
HFSR04	1/4	6.3	0.46	11.7	3,263	22.5	1-1/2	38.1	0.10	0.15	56
HFSR05	5/16	8	0.52	13.2	3,118	21.5	1-3/4	44.5	0.12	0.18	56
HFSR06	3/8	10	0.61	15.5	2,611	18.0	2	50.8	0.17	0.25	56
HFSR08	1/2	12.5	0.74	18.8	2,500	17.2	3	76.2	0.21	0.31	56
HFSR12	3/4	19	1.02	25.9	1,523	10.5	4-1/2	108.0	0.31	0.46	56
HFSR16	1	25	1.31	33.2	1,276	8.8	7-1/2	190.5	0.44	0.66	56

⚠ WARNING
This product can expose you to chemicals including Antimony Oxide (Antimony Trioxide), which is known to the State of California to cause cancer, and 2-Imidazolidinethione, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Updated August 6, 2025

HFS2R – Hybrid® Hydraulic Hose
Copolyester Core Tube

Compact O.D. for easier change outs and up to 40% lighter than comparable rubber hose.



Features
- Up to 40% lighter than comparable rubber hoses
- Wide range of fluid compatibility
- Compact hose construction
- Bend radius less than half of conventional 100R2 hoses
- Low force to flex

Compliance
- MSHA compliant cover

Construction
- Tube: Copolyester
- Reinforcement: One or two high tensile steel wire braids
- Cover: Smooth Synthetic Rubber

Fittings
- 56 Series – pg. E-33
- For most Parker products, Crimp Die Selection charts are found online at www.parker.com/crimpsource
- Access instructions are on pg. G-3

Operating Parameters
- Temperature Range:
  - Petroleum based hydraulic fluids and lubricating oils within a temperature range -40°F (-40°C) to 212°F (100°C)
  - Synthetic, synthetic blend, water, and water/oil emulsion hydraulic fluids limited to 185°F (85°C)
  - Water/glycol hydraulic fluids limited to 135°F (57°C)
- Vac. Rating: 28 inch Hg
- Change in length at Max. Working Pressure: +2% to -4%
- Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

Notes
- *Two wire braid
- Non-perforated cover

Color
- ● Black

OBSOLETE

Series HFS2R

Visit the webpage

Part Number	Nominal I.D.		Maximum O.D.		Maximum Working Pressure		Minimum Bend Radius		Weight		Permanent Fitting Series
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs./ft.	kg/mtr	
HFS2R04*	1/4	6.3	0.54	13.7	5,076	35.0	2	50.0	0.20	0.29	56
HFS2R06	3/8	10	0.64	16.3	4,061	28.0	2-1/2	63.5	0.20	0.30	56
HFS2R08	1/2	12.5	0.78	19.9	3,553	24.5	3-1/2	88.9	0.26	0.38	56

⚠ WARNING
This product can expose you to chemicals including Antimony Oxide (Antimony Trioxide), which is known to the State of California to cause cancer, and 2-Imidazolidinethione, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

H6 – Low Temperature SAE 100R17 Hydraulic Hose
Copolyester Core Tube

Largest temperature range in a medium pressure hydraulic hose.



Features
- Largest temperature range in a medium pressure hydraulic hose
- Low length change under pressure
- Ideal for over-the-sheave boom applications

Compliance
- Meets/Exceeds SAE J517 100R17 performance

Construction
- Tube: Copolyester
- Reinforcement: One or two high tensile steel wire braids
- Cover: Abrasion resistant copolyester

Fittings
- 56 Series – pg. E-33 HY Series - Fittings available from Parker Hose Products Division
- For most Parker products, Crimp Die Selection charts are found online at www.parker.com/crimpsource
- Access instructions are on pg. G-3

Operating Parameters
- Temperature Range:
  - Petroleum based hydraulic fluids and lubricating oils within a temperature range:
    H604 to H608 -70°F (-57°C) to 250°F (121°C)
    H610 to H612 -50°F (-45°C) to 250°F (121°C)
  - Synthetic, synthetic blend, water, and water/oil emulsion hydraulic fluids limited to 135°F (57°C)
- Vac. Rating: 28 inch Hg
- Change in length at Max. Working Pressure: +2% to -4%
- Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

Notes
- *Two wire braid
- Twin line hose available
- Preformed assemblies
- Non-perforated cover

Color
- ● Black

OBSOLETE

Series H6

Visit the webpage

Part Number	Nominal I.D.		Maximum O.D.		Maximum Working Pressure		Minimum Bend Radius		Weight		Permanent Fitting Series
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs./ft.	kg/mtr	
H604	1/4	6.3	0.49	12.5	3,045	21.0	2	50.0	0.11	0.16	56
H606	3/8	10	0.65	16.4	3,045	21.0	2-1/2	63.5	0.19	0.28	56
H608	1/2	12.5	0.78	19.8	3,045	21.0	3-1/2	88.9	0.25	0.38	56
H610*	5/8	16	1.00	25.3	3,045	21.0	4	100.0	0.48	0.71	HY
H612*	3/4	19	1.17	29.6	3,045	21.0	4-3/4	120.0	0.67	1.00	HY

⚠ WARNING
This product can expose you to chemicals including Antimony Oxide (Antimony Trioxide), which is known to the State of California to cause cancer, and 2-Imidazolidinethione, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

R6 – Abrasion King, SAE 100R17 Hydraulic Hose

Copolyester Core Tube

Low temperature and abrasion resistant fabric cover.



Features

- Light weight
- Excellent flexibility
- Excellent abrasion resistance
- Blue plait provides hose identification

Compliance

- Meets/Exceeds SAE J517 100R17 performance

Construction

- Tube: Copolyester
- Reinforcement: One or two high tensile steel wire braids
- Cover: Abrasion-resistant Nylon Fabric

Fittings

- HY Series - Fittings available from Parker Hose Products Division
- For most Parker products, Crimp Die Selection charts are found online at www.parker.com/crimpsource
- Access instructions are on pg. G-3

OBSOLETE

Operating Parameters

- Temperature Range:
  - Petroleum based hydraulic fluids and lubricating oils within a temperature range:
    R604 to R610 -70°F (-57°C) to 250°F (121°C)
    R612 -50°F (-45°C) to 212°F (100°C)
  - Synthetic, synthetic blend, water, and water/oil emulsion hydraulic fluids limited to 135°F (57°C)
- Vac. Rating: 28 inch Hg
- Change in length at Max. Working Pressure: +2% to -4%
- Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

Notes

- *Two wire braid
- Non-perforated cover

Color

- ● Black

Series R6

Visit the webpage

Part Number	Nominal I.D.		Maximum O.D.		Maximum Working Pressure		Minimum Bend Radius		Weight		Permanent Fitting Series
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs./ft.	kg/mtr	
R604	1/4	6.3	0.53	13.5	3000	20.7	2	50.8	0.11	0.16	HY
R606	3/8	10	0.69	17.5	3000	20.7	2-1/2	63.5	0.20	0.30	HY
R608	1/2	12.5	0.84	21.3	3000	20.7	3-1/2	88.9	0.27	0.40	HY
R610*	5/8	16	1.09	27.7	3000	20.7	4	102.0	0.51	0.76	HY
R612*	3/4	19	1.24	31.5	3000	20.7	4-3/4	120.7	0.71	1.06	HY

⚠ WARNING

This product can expose you to chemicals including Antimony Oxide (Antimony Trioxide), which is known to the State of California to cause cancer, and 2-Imidazolidinethione, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Updated August 6, 2025

HTBR – Eliminator® Hybrid® Hydraulic Hose
Copolyester Core Tube

Four-spiral wire hose performance in a high tensile two-wire braid construction.



Features
- Four-spiral wire hose performance in a high tensile two-wire construction
- Ideal for applications typically reserved for spiral wire reinforced hoses
- Excellent flexibility
- Compact design

Compliance
- MSHA compliant cover

Construction
- Tube: Copolyester
- Reinforcement: Two high tensile steel wire braids
- Cover: Smooth Synthetic Rubber

Fittings
- HY Series 43 Series - Fittings available from Parker Hose Products Division
- For most Parker products, Crimp Die Selection charts are found online at www.parker.com/crimpsource
- Access instructions are on pg. G-3

Operating Parameters
- Temperature Range:
  - Petroleum based hydraulic fluids and lubricating oils within a temperature range -40°F (-40°C) to 212°F (100°C)
  - Synthetic, synthetic blend, water, and water/oil emulsion hydraulic fluids limited to 185°F (85°C) **HTB04 is limited to 135°F (57°C)
  - Water/glycol hydraulic fluids limited to 135°F (57°C)
- Vac. Rating: 28 inch Hg
- Change in length at Max. Working Pressure: +2% to -4%
- Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

Notes
- Non-perforated cover

Color
- ● Black

OBSOLETE

Series HTBR

Visit the webpage

Part Number	Nominal I.D.		Maximum O.D.		Maximum Working Pressure		Minimum Bend Radius		Weight		Permanent Fitting Series
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs./ft.	kg/mtr	
HTBR06	3/8	10	0.72	18.2	5,500	37.9	6	152.4	0.33	0.50	43
HTBR08	1/2	12.5	0.85	21.5	5,000	34.4	7	177.8	0.43	0.63	43
HTBR10	5/8	16	1.01	25.6	4,000	27.5	8	203.2	0.52	0.77	43
HTBR12	3/4	19	1.17	29.6	4,000	27.5	9-1/2	241.3	0.72	1.07	43
HTBR16	1	25	1.45	36.8	3,500	24.1	12	304.8	0.91	1.36	43

⚠ WARNING
This product can expose you to chemicals including Antimony Oxide (Antimony Trioxide), which is known to the State of California to cause cancer, and 2-Imidazolidinethione, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Updated August 6, 2025

560TJ – TOUGHJACKET™ SAE 100R1AT Hydraulic Hose
Copolyester Core Tube

Twin or multi-line available.
General hydraulic hose.



Features
- Twin or multi-line available.
- Lighter and smaller than 100R1AT with longer lengths
- Fast response hose
- TOUGHJACKET Polyurethane cover for best abrasion resistance
- Low length change under pressure makes it an ideal solution for boom or cable track applications where long lengths are required
- Twin or multi-line hose/hose assembly production capabilities

Compliance
- Meets/Exceeds SAE J517 100R1AT performance
- MSHA compliant cover

Construction
- Tube: Copolyester
- Reinforcement: High Tensile Steel Wire Braid
- Cover: TOUGHJACKET Polyurethane

Fittings
- 56 Series – pg. E-33
- For most Parker products, Crimp Die Selection charts are found online at www.parker.com/crimpsource
- Access instructions are on pg. G-3

Operating Parameters
- Temperature Range:
  - Petroleum based hydraulic fluids and lubricating oils within a temperature range -40°F (-40°C) to 250°F (121°C)
  - Synthetic, synthetic blend, water, and water/oil emulsion hydraulic fluids limited to 185°F (85°C)
  - Water/glycol hydraulic fluids limited to 135°F (57°C)
- Vac. Rating: 28 inch Hg
- Change in length at Max. Working Pressure: +/-2%
- Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

Notes
- Non-perforated cover

Color
- ● Black



Series 560TJ

Visit the webpage

Part Number	Nominal I.D.		Maximum O.D.		Maximum Working Pressure		Minimum Bend Radius		Weight		Permanent Fitting Series
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs./ft.	kg/mtr	
560TJ-3	3/16	5	0.39	9.9	3,626	25.0	3/4	19.1	0.01	0.11	56
560TJ-4	1/4	6.3	0.47	11.9	3,263	22.5	1-1/2	38.1	0.09	0.14	56
560TJ-5	5/16	8	0.53	13.4	3,118	21.5	1-3/4	44.5	0.11	0.16	56
560TJ-6	3/8	10	0.61	15.5	2,750	19.0	2	50.8	0.14	0.21	56
560TJ-8	1/2	12.5	0.75	19.0	2,500	17.2	3	76.2	0.19	0.29	56
560TJ-10	5/8	16	0.93	23.6	2,000	13.8	4	101.6	0.31	0.47	56
560TJ-12	3/4	19	1.04	26.4	1,750	12.1	4-1/4	107.9	0.28	0.42	56

⚠ WARNING
This product can expose you to chemicals including Antimony Oxide (Antimony Trioxide), which is known to the State of California to cause cancer, and 2-Imidazolidinethione, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Updated August 6, 2025

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563TJ – TOUGHJACKET™ SAE 100R17 Hydraulic Hose

Copolyester Core Tube - 3,000 psi

Lowest length change under pressure (+/- 1%).



Features

- Low length change under pressure makes it an ideal solution for boom or cable track applications where long lengths are required
- Up to 5% smaller O.D. than comparable 100R17 hoses
- Up to 42% lighter than comparable 100R17 hoses
- Excellent flexibility
- Consistent long-lengths
- TOUGHJACKET Polyurethane cover for best abrasion resistance
- Twin or multi-line hose/hose assembly production capabilities

Compliance

- Meets/Exceeds SAE J517 100R17 performance
- MSHA compliant cover

Construction

- Tube: Copolyester
- Reinforcement: One or two high tensile steel wire braids
- Cover: TOUGHJACKET Polyurethane

Fittings

- 56 Series – pg. E-33 43 Series - Fittings available from Parker Hose Products Division
- For most Parker products, Crimp Die Selection charts are found online at www.parker.com/crimpsource
- Access instructions are on pg. G-3

Operating Parameters

- Temperature Range:
  - Petroleum based hydraulic fluids and lubricating oils within a temperature range -40°F (-40°C) to 250°F (121°C)
  - Synthetic, synthetic blend, water, and water/oil emulsion hydraulic fluids limited to 185°F (85°C)
  - Water/glycol hydraulic fluids limited to 135°F (57°C)
- Vac. Rating: 28 inch Hg
- Change in length at Max. Working Pressure:
  -4 to -8: +/- 1%
  -10 to -16: +/- 2%
- Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

Notes

- Non-Perforated Cover
- For a lower temperature working hose -70°F (-57°C), see 563LT
- *Two wire braid

Color

- ● Black



Series 563TJ

Visit the webpage

Part Number	Nominal I.D.		Maximum O.D.		Maximum Working Pressure		Minimum Bend Radius		Weight		Permanent Fitting Series
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs./ft.	kg/mtr	
563TJ-4	1/4	6.3	0.47	11.9	3,045	21.0	1-1/2	38.1	0.09	0.14	56
563TJ-6	3/8	10	0.64	16.3	3,045	21.0	2	50.8	0.19	0.29	56
563TJ-8	1/2	12.5	0.77	19.5	3,045	21.0	2-3/4	69.9	0.24	0.36	56
563TJ-10*	5/8	16	0.97	24.6	3,045	21.0	3-1/2	88.9	0.40	0.60	43
563TJ-12*	3/4	19	1.12	28.3	3,045	21.0	4-1/4	108.0	0.55	0.82	43
563TJ-16*	1	25	1.45	36.9	3,045	21.0	6	150.0	0.88	1.31	43

⚠ WARNING

This product can expose you to chemicals including Antimony Oxide (Antimony Trioxide), which is known to the State of California to cause cancer, and 2-Imidazolidinethione, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

563LT – DuraMax™ SAE 100R17 Low Temperature Hydraulic Hose
Copolyester Core Tube

Largest temperature range in a medium pressure hydraulic hose.



Features
- Lowest length change under pressure
- 3,000 psi constant pressure
- Ideal for over-the-sheave applications in cold temperature applications
- Twin or multi-line hose/hose assembly production capabilities

Compliance
- Meets/Exceeds SAE 100R17 performance

Construction
- Tube: Copolyester
- Reinforcement: High Tensile Steel Wire Braid
- Cover: Copolyester

Fittings
- 56 Series – pg. E-33 43 Series - Fittings available from Parker Hose Products Division
- For most Parker products, Crimp Die Selection charts are found online at www.parker.com/crimpsource

Operating Parameters
- Temperature Range:
  - Petroleum based hydraulic fluids and lubricating oils within a temperature range:
    563LT-4 to 563LT-8 -70°F (-57°C) to 250°F (121°C)
    563LT-10 to 563LT-12 -50°F (-45°C) to 250°F (121°C)
  - Synthetic, synthetic blend, water, and water/oil emulsion hydraulic fluids limited to 185°F (85°C)
  - Water/glycol hydraulic fluids limited to 135°F (57°C)
- Vac. Rating: 28 inch Hg
- Change in length at Max. Working Pressure:
  -4 to 8: +/-1%
  -10 to 12: +/-2%
- Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

Notes
- *Two-wire braid
- Non-perforated cover

Color
- ● Black

Series 563LT

Visit the webpage

Part Number	Nominal I.D.		Maximum O.D.		Maximum Working Pressure		Minimum Bend Radius		Weight		Permanent Fitting Series
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs./ft.	kg/mtr	
563LT-4	1/4	6.3	0.47	11.9	3,045	21.0	1-1/2	38	0.09	0.13	56
563LT-6	3/8	10	0.64	16.3	3,045	21.0	2	51	0.19	0.29	56
563LT-8	1/2	12.5	0.77	19.5	3,045	21.0	2-3/4	70	0.24	0.36	56
563LT-10*	5/8	16	0.97	24.6	3,045	21.0	3-1/2	89	0.40	0.60	43
563LT-12*	3/4	19	1.12	28.3	3,045	21.0	4-1/4	108	0.55	0.82	43

⚠ WARNING
This product can expose you to chemicals including Antimony Oxide (Antimony Trioxide), which is known to the State of California to cause cancer, and 2-Imidazolidinethione, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

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590TJ – TOUGHJACKET™ Hydraulic Hose
Copolyester Core Tube

Two-wire strength, one wire construction for improved bend radius.



Features
- Two wire strength, one wire construction, improved bend radius results
- Low length change under pressure makes it an ideal solution for boom or cable track applications where long lengths are required
- Twin and multi-line available
- TOUGHJACKET Polyurethane cover for best abrasion resistance
- Twin or multi-line hose/hose assembly production capabilities

Compliance
- MSHA compliant cover

Construction
- Tube: Copolyester
- Reinforcement: One or two high tensile steel wire braids
- Cover: TOUGHJACKET Polyurethane

Fittings
- 56 Series – pg. E-33 43 Series - Fittings available from Parker Hose Products Division
- For most Parker products, Crimp Die Selection charts are found online at www.parker.com/crimpsource
- Access instructions are on pg. G-3

Operating Parameters
- Temperature Range:
  - Petroleum based hydraulic fluids and lubricating oils within a temperature range -40°F (-40°C) to 250°F (121°C)
  - Synthetic, synthetic blend, water, and water/oil emulsion hydraulic fluids limited to 185°F (85°C)
  - Water/glycol hydraulic fluids limited to 135°F (57°C)
- Vac. Rating: 28 inch Hg
- Change in length at Max. Working Pressure: +/-2%
- Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

Notes
- Non-perforated cover
- *Two wire braid

Color
- ● Black

Series 590TJ

Visit the webpage

Part Number	Nominal I.D.		Maximum O.D.		Maximum Working Pressure		Minimum Bend Radius		Weight		Permanent Fitting Series
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs./ft.	kg/mtr	
590TJ-4	1/4	6.3	0.49	12.5	5,076	35.0	1-3/4	44.5	0.13	0.20	56
590TJ-6	3/8	10	0.64	16.3	4,061	28.0	2-1/4	57.2	0.19	0.29	56
590TJ-8	1/2	12.5	0.77	19.5	3,553	24.5	3-1/4	82.6	0.24	0.36	56
590TJ-12	3/4	19	1.08	27.3	2,500	17.2	4-3/4	120.0	0.39	0.58	43
590TJ-16*	1	25	1.42	36.0	2,030	14.0	6	150.0	0.71	1.06	43

⚠ WARNING
This product can expose you to chemicals including Antimony Oxide (Antimony Trioxide), which is known to the State of California to cause cancer, and 2-Imidazolidinethione, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

594TJ – TOUGHJACKET™ SAE 100R19 Hydraulic Hose

Copolyester Core Tube - 4,000 psi

Four-spiral wire performance
in a two-wire braid construction.



Features

- Four-spiral wire hose performance in a high tensile two-wire braid construction
- Excellent flexibility
- Consistent long-lengths
- TOUGHJACKET Polyurethane cover for best abrasion resistance
- Twin or multi-line hose/hose assembly production capabilities

Compliance

- Meets/Exceeds SAE 100R19 performance
- MSHA compliant cover

Construction

- Tube: Copolyester
- Reinforcement: One or two high tensile steel wire braids
- Cover: TOUGHJACKET Polyurethane™

Fittings

- 56 Series – pg. E-33 43 Series - Fittings available from Parker Hose Products Division
- For most Parker products, Crimp Die Selection charts are found online at www.parker.com/crimpsource
- Access instructions are on pg. G-3

Operating Parameters

- Temperature Range:
  - Petroleum based hydraulic fluids and lubricating oils within a temperature range -40°F (-40°C) to 212°F (100°C)
  - Synthetic, synthetic blend, water, and water/oil emulsion hydraulic fluids limited to 185°F (85°C); **594TJ-10 is limited to 135°F (57°C)
  - Water/glycol hydraulic fluids limited to 135°F (57°C)
- Vac. Rating: 28 inch Hg
- Change in length at Max. Working Pressure:
  -4 to -10: +/- 2%
  -12: +2% to -4%
- Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

Notes

- Non-perforated cover
- *Two wire braid

Color

- ● Black



Series 594TJ

Visit the webpage

Part Number	Nominal I.D.		Maximum O.D.		Maximum Working Pressure		Minimum Bend Radius		Weight		Permanent Fitting Series
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs./ft.	kg/mtr	
594TJ-4	1/4	6.3	0.49	12.5	4,061	28.0	1-3/4	44.5	0.13	0.19	56
594TJ-6	3/8	10	0.64	16.3	4,061	28.0	2-1/2	63.5	0.19	0.28	56
594TJ-8*	1/2	12.5	0.85	21.5	4,061	28.0	3-1/2	88.9	0.39	0.59	43
594TJ-10* **	5/8	16	1.04	26.4	4,061	28.0	4	100.0	0.59	0.88	43
594TJ-12*	3/4	19	1.17	29.7	4,061	28.0	4-3/4	120.0	0.72	1.07	43

⚠ WARNING

This product can expose you to chemicals including Antimony Oxide (Antimony Trioxide), which is known to the State of California to cause cancer, and 2-Imidazolidinethione, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Tel: +45 63 12 83 00 | Email: ps@hymatik.com | www.hymatik.com | Hvidkaervej 27a, DK-5250 Odense SV, Denmark

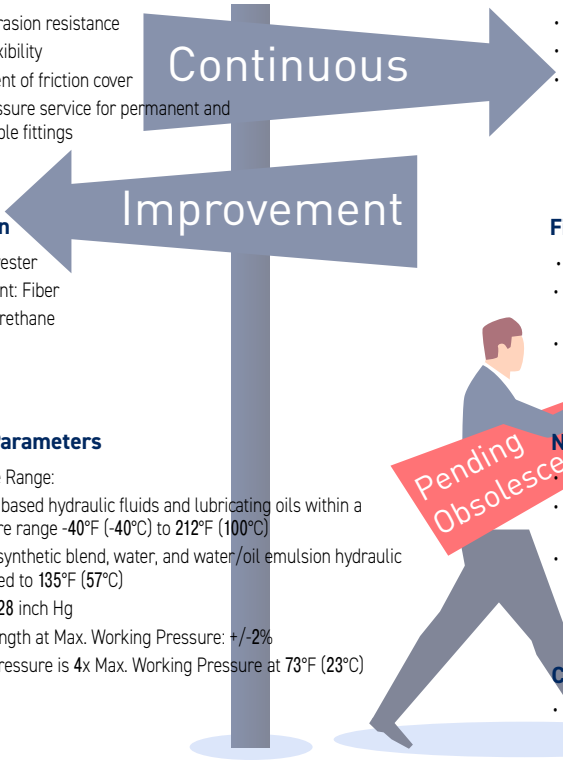
510C – SAE 100R7 Hydraulic Hose
Copolyester Core Tube

Largest size range for a medium pressure hydraulic hose.



Features
- Excellent abrasion resistance
- Excellent flexibility
- Low coefficient of friction cover
- Medium pressure service for permanent and field attachable fittings

Compliance
- Meets/Exceeds SAE J517 100R7 (excluding -2)
- MSHA compliant cover (excluding -4)
- DNV-GL Type Approved



Construction
- Tube: Copolyester
- Reinforcement: Fiber
- Cover: Polyurethane

Fittings
- 56 Series – pg. E-33 51 Series - pg. E-22
- For most Parker products, Crimp Die Selection charts are found online at www.parker.com/crimpsource
- Access instructions are on pg. G-3

Operating Parameters
- Temperature Range:
  - Petroleum based hydraulic fluids and lubricating oils within a temperature range -40°F (-40°C) to 212°F (100°C)
  - Synthetic, synthetic blend, water, and water/oil emulsion hydraulic fluids limited to 135°F (57°C)
- Vac. Rating: 28 inch Hg
- Change in length at Max. Working Pressure: +/-2%
- Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

Notes
- Perforated cover
- *3/16" and 1/4" working pressure reduced to 3,000 and 2,750 psi respectively when using field attachable fittings
- Field attachable fittings are not intended for use on hose that has been previously in service

Color
- ● Black

Series 510C

Visit the webpage

Part Number	Nominal I.D.		Maximum O.D.		Maximum Working Pressure		Minimum Bend Radius		Weight		Permanent Fitting Series	F.A. Fitting Series
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs./ft.	kg/mtr		
510C-2	1/8	3.2	0.34	8.6	2,500	17.2	1/2	13.0	0.03	0.05	56	–
510C-3	3/16	5	0.43	10.9	3,250	22.4	3/4	19.0	0.05	0.07	56	51*
510C-4	1/4	6.3	0.47	11.9	3,000	20.7	1-1/2	38.0	0.05	0.08	56	51*
510C-5	5/16	8	0.57	14.5	2,500	17.2	1-3/4	44.0	0.08	0.11	56	51
510C-6	3/8	10	0.64	16.3	2,250	15.5	2	51.0	0.10	0.14	56	51
510C-8	1/2	12.5	0.81	20.6	2,250	15.5	3	76.0	0.15	0.22	56	51
510C-12	3/4	19	1.09	27.7	1,250	8.7	5	127.0	0.21	0.31	56	51
510C-16	1	25	1.32	33.5	1,000	6.9	8	203.0	0.27	0.40	56	51

⚠ WARNING

This product can expose you to chemicals including Nickel compounds, which is known to the State of California to cause cancer, and Toluene, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

510D – SAE 100R7 Hydraulic Hose
Nylon Core Tube

Largest size selection in a 100R7 hose.



Features
- Matte cover for low coefficient of friction
- Special order colors
- Twin or multi-line available
- Good chemical compatibility
- Approved for use with 51R-Series Field Attachable and Rapid Assembly connections

Compliance
- Meets/Exceeds SAE J517 100R7
- MSHA compliant cover
- DNV Type Approved
- ISO 3949-R7-1

Construction
- Tube: Nylon: -3 to -12
  Copolyester: -16
- Reinforcement: Fiber
- Cover: Polyurethane

Fittings
- 56 Series – pg. E-33 51R Series - pg. E-24
- For most Parker products, Crimp Die Selection charts are found online at www.parker.com/crimpsource
- Access instructions are on pg. G-3

Operating Parameters
- Temperature Range:
  -40°F (-40°C) to 212°F (100°C)
  - Synthetic, synthetic blend, water, and water/oil emulsion hydraulic fluids limited to 135°F (57°C) {510D-16 only}
- Vac. Rating: 28 inch Hg
- Change in length at Max. Working Pressure: +/-2%
- Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

Notes
- Perforated cover
- For -2 hose needs, please reference HLBD02 on pg. A-62
- Field attachable fittings are not intended for use on hose that has been previously in service

Color
- ● Black

Series 510D

Visit the webpage

Part Number	Nominal I.D.		Maximum O.D.		Maximum Working Pressure		Minimum Bend Radius		Weight		Permanent Fitting Series	F.A. Fitting Series
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs./ft.	kg/mtr		
510D-3	3/16	5	0.43	10.9	3,250	22.4	3/4	19.0	0.05	0.07	56	51R
510D-4	1/4	6.3	0.47	11.9	3,000	21.0	1-1/2	38.0	0.06	0.09	56	51R
510D-5	5/16	8	0.57	14.5	2,500	17.5	1-3/4	44.0	0.08	0.11	56	-
510D-6	3/8	10	0.64	16.3	2,250	15.8	2	51.0	0.10	0.14	56	51R
510D-8	1/2	12.5	0.81	20.6	2,250	15.8	3	76.0	0.15	0.22	56	51R
510D-10	5/8	16	0.98	24.9	2,250	15.8	4	102.0	0.21	0.31	56	-
510D-12	3/4	19	1.05	26.7	1,250	8.8	5	127.0	0.17	0.25	56	-
510D-16	1	25	1.32	33.5	1,000	7.0	8	203.0	0.27	0.40	56	-

⚠ WARNING
This product can expose you to chemicals including Nickel compounds, which is known to the State of California to cause cancer, and Toluene, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Updated August 6, 2025

518C – SAE 100R7 Non-conductive Hose
Copolyester Core Tube

Hydraulic service where hydraulic circuit exposure and contact with high voltage may be encountered.

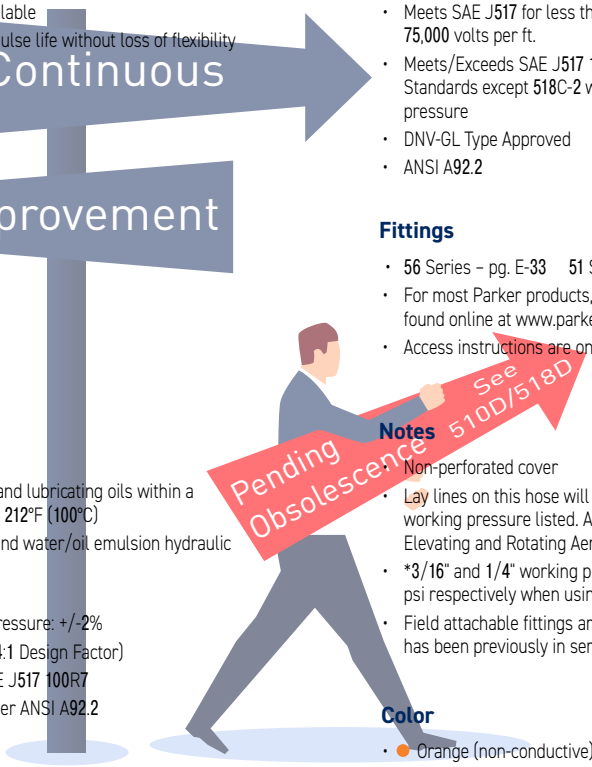


Features
- Twin or multi-line constructions available
- High density braid for maximum impulse life without loss of flexibility
- Low coefficient of friction cover

Compliance
- Meets SAE J517 for less than 50 micro-amps leakage under 75,000 volts per ft.
- Meets/Exceeds SAE J517 100R7 specifications and Electrical Standards except 518C-2 with respect to maximum working pressure
- DNV-GL Type Approved
- ANSI A92.2

Construction
- Tube: Copolyester
- Reinforcement: Fiber
- Cover: Polyurethane

Fittings
- 56 Series – pg. E-33 51 Series – pg. E-22
- For most Parker products, Crimp Die Selection charts are found online at www.parker.com/crimpsource
- Access instructions are on pg. G-3



Operating Parameters
- Temperature Range:
  - Petroleum based hydraulic fluids and lubricating oils within a temperature range -40°F (-40°C) to 212°F (100°C)
  - Synthetic, synthetic blend, water, and water/oil emulsion hydraulic fluids limited to 135°F (57°C)
- Vac. Rating: 28 inch Hg
- Change in length at Max. Working Pressure: +/-2%
- Min. Burst Pressure: (SAE requires 4:1 Design Factor)
  - 4:1 design factor required per SAE J517 100R7
  - 3:1 min design factor acceptable per ANSI A92.2

Notes
- Non-perforated cover
- Lay lines on this hose will have both ANSI and SAE maximum working pressure listed. ANSI A92.2 "Vehicle Mounted Elevating and Rotating Aerial Devices"
- *3/16" and 1/4" working pressure reduced to 3,000 and 2,750 psi respectively when using field attachable fittings
- Field attachable fittings are not intended for use on hose that has been previously in service

Color
- Orange (non-conductive)

Series 518C

Visit the webpage

Part Number	Nominal I.D.		Maximum O.D.		ANSI A92.2 Maximum Working Pressure		SAE 100R7 Maximum Working Pressure		Minimum Bend Radius		Weight		Permanent Fitting Series	F.A. Fitting Series
	inch	mm	inch	mm	psi	MPa	psi	MPa	inch	mm	lbs./ft.	kg/mtr		
518C-2	1/8	3.2	0.34	8.6	3,150	21.7	2,500	17.2	1/2	13.0	0.03	0.05	56	–
518C-3	3/16	5	0.43	10.9	3,250	22.4	3,250	22.4	3/4	19.0	0.05	0.07	56	51*
518C-4	1/4	6.3	0.47	11.9	3,150	21.7	3,000	21.0	1-1/2	38.0	0.05	0.08	56	51*
518C-5	5/16	8	0.57	14.5	3,150	21.7	2,500	17.2	1-3/4	44.0	0.08	0.11	56	51
518C-6	3/8	10	0.64	16.3	3,000	20.7	2,250	15.5	2	51.0	0.10	0.14	56	51
518C-8	1/2	12.5	0.81	20.6	3,000	20.7	2,250	15.5	3	76.0	0.15	0.22	56	51
518C-12	3/4	19	1.09	27.7	1,660	11.4	1,250	8.7	5	127.0	0.21	0.31	56	51
518C-16	1	25	1.32	33.5	1,330	9.2	1,000	6.9	8	203.0	0.27	0.40	56	51

⚠ WARNING

This product can expose you to chemicals including Nickel compounds, which is known to the State of California to cause cancer, and Toluene, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

518D – SAE 100R7 Non-conductive Hose
Nylon Core Tube

Nylon core for maximum resistance in hydraulic circuit applications where contact with high voltage may be encountered.



Features
- Nylon core for maximum resistance to permeable fluids
- -4 construction features:
  - Super high density braid resulting in compact braid O.D.
  - Heavier polyurethane jacket improving abrasion resistance and mutli/twin-line separation for bonded assemblies
- Low coefficient of friction cover
- Twin or multi-line constructions available
- Approved for use with 51R-Series Field Attachable and Rapid Assembly connections

Construction
- Tube: Nylon: -2 to -12 Copolyester: -16
- Reinforcement: Fiber
- Cover: Polyurethane

Operating Parameters
- Temperature Range:
  -40°F (-40°C) to 212°F (100°C)

  {518D-16 only}
  - Petroleum based hydraulic fluids and lubricating oils within a temperature range -70°F (-57°C) to 212°F (100°C)
  - Synthetic, synthetic blend, water, and water/oil emulsion hydraulic fluids limited to 135°F (57°C)
- Vac. Rating: 28 inch Hg
- Change in length at Max. Working Pressure: +/-2%
- Min. Burst Pressure: (SAE requires 4:1 Design Factor)
  - 4:1 design factor required per SAE J517 100R7
  - 3:1 min design factor acceptable per ANSI A92.2

Compliance
- Meets SAE J517 electrical standards (non-conductivity)
- Meets/Exceeds SAE J517 100R7
- DNV Type Approved
- ANSI A92.2
- ISO 3949-R7-2

Fittings
- 56 Series – pg. E-33 51R Series – pg. E-24
- For most Parker products, Crimp Die Selection charts are found online at www.parker.com/crimpsource
- Access instructions are on pg. G-3

Notes
- Non-perforated cover
- Lay lines on this hose will have both ANSI and SAE maximum working pressure listed. ANSI A92.2 "Vehicle Mounted Elevating and Rotating Aerial Devices"
- Field attachable fittings are not intended for use on hose that has been previously in service

Color
- Orange (non-conductive)

Series 518D

Visit the webpage

Part Number	Nominal I.D.		Maximum O.D.		ANSI A92.2 Maximum Working Pressure		SAE 100R7 Maximum Working Pressure		Minimum Bend Radius		Weight		Permanent Fitting Series	F.A. Fitting Series
	inch	mm	inch	mm	psi	MPa	psi	MPa	inch	mm	lbs./ft.	kg/mtr		
518D-2	1/8	3.2	0.34	8.6	3,150	21.7	3,000	21.0	1/2	13.0	0.03	0.05	56	-
518D-3	3/16	5	0.43	10.9	3,250	22.4	3,250	22.4	3/4	19.0	0.05	0.07	56	51R
518D-4	1/4	6.3	0.47	11.9	3,150	21.7	3,000	21.0	1-1/2	38.0	0.06	0.09	56	51R
518D-5	5/16	8	0.57	14.5	3,150	21.7	2,500	17.5	1-3/4	44.0	0.08	0.11	56	-
518D-6	3/8	10	0.64	16.3	3,000	21.0	2,250	15.8	2	51.0	0.10	0.14	56	51R
518D-8	1/2	12.5	0.81	20.6	3,000	21.0	2,250	15.8	3	76.0	0.15	0.22	56	51R
518D-10	5/8	16	0.98	24.9	3,000	21.0	2,250	15.8	4	102.0	0.21	0.31	56	-
518D-12	3/4	19	1.05	26.7	1,660	11.4	1,250	8.8	5	127.0	0.17	0.25	56	-
518D-16	1	25	1.32	33.5	1,330	9.2	1,000	7.0	8	203.0	0.27	0.40	56	-

⚠ WARNING
This product can expose you to chemicals including Nickel compounds, which is known to the State of California to cause cancer, and Toluene, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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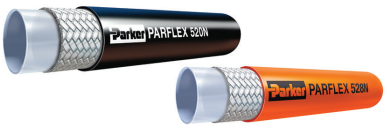
520N/528N – SAE 100R8 Hydraulic Hose
Nylon Core Tube

Fast response with high density braid; available in twin-line constructions.



Features
- Twin and multi-line available
- Fast response, lighter and smaller O.D. than 100R2 hose

Compliance
- Meets/Exceeds SAE J517 100R8
- Meets SAE J517 electrical standards (non-conductivity) - 528N
- MSHA compliant cover - 520N
- DNV Type Approved

Construction
- Tube: Nylon
- Reinforcement: Aramid Fiber
- Cover: Polyurethane

Fittings
- 56 Series – pg. E-33
- For most Parker products, Crimp Die Selection charts are found online at www.parker.com/crimpsource
- Access instructions are on pg. G-3

Operating Parameters
- Temperature Range: -40°F (-40°C) to 212°F (100°C)
- Vac. Rating: 28 inch Hg
- Change in length at Max. Working Pressure: +/-2%
- Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

Notes
- Perforated cover - 520N
- Non-perforated cover - 528N

Color
- ● Black - 520N
- ● Orange (non-conductive) - 528N

Series 520N/528N

Visit the webpage

Part Number		Nominal I.D.		Maximum O.D.		Maximum Working Pressure		Minimum Bend Radius		Weight		Permanent Fitting Series
Non-Conductive		inch	mm	inch	mm	psi	MPa	inch	mm	lbs./ft.	kg/mtr	
520N-3	528N-3	3/16	5	0.43	10.9	5,000	34.5	1-1/2	38.0	0.05	0.07	56
520N-4	528N-4	1/4	6.3	0.51	13.0	5,000	34.5	2	51.0	0.07	0.10	56
520N-5	528N-5	5/16	8	0.57	14.5	4,500	31.0	2-1/2	64.0	0.08	0.12	56
520N-6	528N-6	3/8	10	0.65	16.5	4,000	27.6	2-1/2	64.0	0.08	0.13	56
520N-8	528N-8	1/2	12.5	0.81	20.6	3,500	24.1	4	102.0	0.14	0.20	56

⚠ WARNING

This product can expose you to chemicals including Nickel compounds, which is known to the State of California to cause cancer, and Toluene, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

527BA– Breathing Air Refill Hose
Nylon Core Tube

7,000 psi constant pressure.



Features
- 7,000 psi constant pressure hose

Construction
- Tube: Nylon
- Reinforcement: Aramid Fiber
- Cover: Polyurethane

Operating Parameters
- Temperature Range: -40°F (-40°C) to 180°F (82°C)
- Vac. Rating: 28 inch Hg
- Change in length at Max. Working Pressure: +/-2%
- Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

Color
- ● Blue

Compliance
- CGA G7.1-1 Grade E Breathing Air Standards
- NFPA 1901

Fittings
- CG Series – pg. E-72

101CG-2-X	102CG-4-X	137CG-4-X	141CG-4-X
101CG-4-X	103CG-4-X	139CG-4-X	1L9CG-4-X
102CG-2-X	106CG-4-X	13ECG-4-X	105CG-4-X

- Approved configurations referenced above
- When used with 527BA hose only, Parflex -4 JIC and -4 O-ring boss fittings are rated for 7000 psi (48.3 MPa) working pressure
- Please note X in the part number references the qualified hose sizes above but does not indicate availability
- For most Parker products, Crimp Die Selection charts can be found online at www.parker.com/crimpsource
- Access instructions are on pg. G-3

Notes
- Perforated cover
- Not for use as part of a SCBA systems
- This hose is not for use between a pressure reducing regulator and breathing mask
- For fitting attachment lubricate only with water or non-toxic lubricant. Do not assemble with petroleum or hydrocarbon based lubricants. Do not flush with solvents of any kind
- This hose does not contain a conductive element; therefore, it should not be used with explosive gases such as pure oxygen and hydrogen
- Hose is compliant with CGA Grade E Breathing Air Standards, however air quality is dependent upon all system components and maximum length of the hose assembly which is limited to: 150' at 180°F and 375' at 120°F.

Series 527BA

Visit the webpage

Part Number	Nominal I.D.		Maximum O.D.		Maximum Working Pressure		Minimum Bend Radius		Weight		Permanent Fitting Series
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs./ft.	kg/mtr	
527BA-3	3/16	5	0.43	10.9	7,000	48.3	1-1/2	38.0	0.05	0.07	CG
527BA-4	1/4	6.3	0.52	13.2	7,000	48.3	2	51.0	0.07	0.11	CG

⚠ WARNING

This product can expose you to chemicals including Nickel compounds, which is known to the State of California to cause cancer, and Toluene, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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540N – SAE 100R7 - Hydraulic Hose
Nylon Core Tube

Low coefficient of friction jacket.

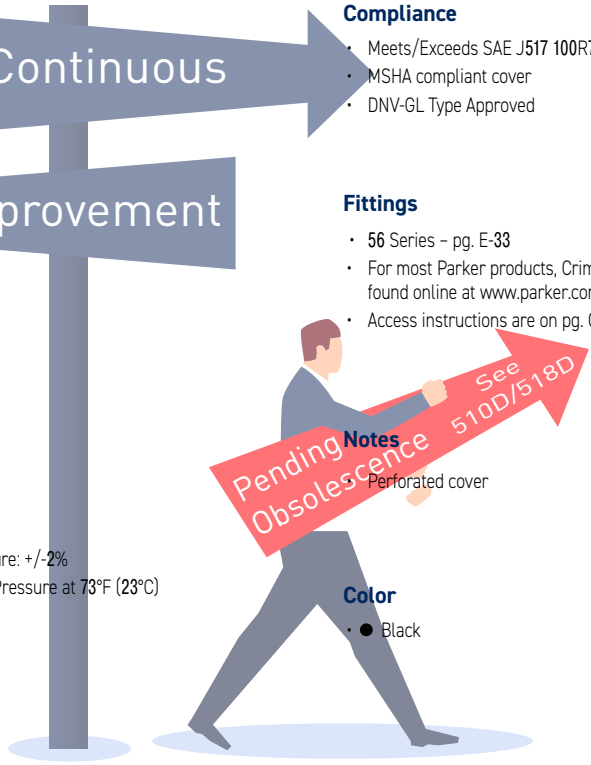


Features
- Low coefficient of friction jacket
- Special order colors
- Twin or multi-line available
- Good chemical compatibility

Compliance
- Meets/Exceeds SAE J517 100R7
- MSHA compliant cover
- DNV-GL Type Approved

Construction
- Tube: Nylon
- Reinforcement: Fiber
- Cover: Polyurethane

Fittings
- 56 Series – pg. E-33
- For most Parker products, Crimp Die Selection charts are found online at www.parker.com/crimpsource
- Access instructions are on pg. G-3



Operating Parameters
- Temperature Range: -40°F (-40°C) to 212°F (100°C)
- Vac. Rating: 28 inch Hg
- Change in length at Max. Working Pressure: +/-2%
- Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

Notes
- Perforated cover

Color
- ● Black

Series 540N

Visit the webpage

Part Number	Nominal I.D.		Maximum O.D.		Maximum Working Pressure		Minimum Bend Radius		Weight		Permanent Fitting Series
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs./ft.	kg/mtr	
540N-2	1/8	3.2	0.34	8.6	3,000	20.7	1/2	13.0	0.03	0.05	56
540N-3	3/16	5	0.44	10.9	3,000	20.7	3/4	19.0	0.04	0.06	56
540N-4	1/4	6.3	0.50	12.7	2,750	19.0	1-1/2	38.0	0.07	0.10	56
540N-5	5/16	8	0.58	14.7	2,500	17.2	1-3/4	44.0	0.07	0.10	56
540N-6	3/8	10	0.65	16.5	2,250	15.5	2	51.0	0.09	0.13	56
540N-8	1/2	12.5	0.81	20.6	2,000	13.8	3	76.0	0.13	0.19	56
540N-12	3/4	19	1.05	26.7	1,250	8.6	6	152.0	0.17	0.25	56

⚠ WARNING

This product can expose you to chemicals including Nickel compounds, which is known to the State of California to cause cancer, and Toluene, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

540P – SAE 100R7 Specialty Water Hose
Polyethylene Core Tube

Non leaching core tube.



Features
- Plasticizer free non-leaching core tube
- Low-moisture permeability
- Ideal for potable water, destilled water and de-ionized water

Compliance
- Meets/Exceeds SAE J517 100R7
- FDA, CFR21 Part 177 compliant core

Construction
- Tube:Polyethylene
- Reinforcement: Fiber
- Cover: Polyurethane

Fittings
- 56 Series – pg. E-33
- For most Parker products, Crimp Die Selection charts are found online at www.parker.com/crimpsource
- Access instructions are on pg. G-3

Operating Parameters
- Temperature Range: -40°F (-40°C) to 150°F (66°C)
- Vac. Rating: 28 inch Hg
- Change in length at Max. Working Pressure: +/-2%
- Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

Notes
- Perforated cover

Color
- Aqua

Series 540P

Visit the webpage

Part Number	Nominal I.D.		Maximum O.D.		Maximum Working Pressure		Minimum Bend Radius		Weight		Permanent Fitting Series
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs./ft.	kg/mtr	
540P-4	1/4	6.4	.50	12.7	2,750	19.0	1-1/4	32.0	.05	.08	56
540P-6	3/8	9.5	.65	16.5	2,250	15.5	2	51.0	.09	.13	56
540P-8	1/2	12.7	.81	20.6	2,000	13.8	3	76.0	.13	.19	56

⚠ WARNING

This product can expose you to chemicals including Nickel compounds, which is known to the State of California to cause cancer, and Toluene, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Tel: +45 63 12 83 00 | Email: ps@hymatik.com | www.hymatik.com | Hvidkaervej 27a, DK-5250 Odense SV, Denmark

53DM/538DM – DuraMax™ SAE 100R18 Low Temperature Hydraulic Hose Nylon/Copolyester Core Tube

Superior flexibility in cold temperature applications.



Features

- Low coefficient of friction cover
- Superior flexibility in cold temperature applications
- Excellent for over-the-sheave applications
- Better bend radius than SAE J517 and 100R7
- 3,045 psi constant pressure

Compliance

- Meets/Exceeds SAE J517 100R18
- Meets SAE J517 electrical standards (non-conductivity) - 538DM

Construction

- Tube: Nylon: -2
  Copolyester: -4 to -12
- Reinforcement: Fiber
- Cover: Copolyester

Fittings

- 56 Series – pg. E-33 CG Series - pg. E-72
  CY Series - pg. E-77
- For most Parker products, Crimp Die Selection charts are found online at www.parker.com/crimpsource

Operating Parameters

- Temperature Range:
  - Petroleum based hydraulic fluids and lubricating oils within a temperature range -70°F (-57°C) to 212°F (100°C)
  - Synthetic, synthetic blend, water, and water/oil emulsion hydraulic fluids limited to 135°F (57°C) {Sizes -4 thru -12}
- Vac. Rating: 28 inch Hg
- Change in length at Max. Working Pressure: +/-2%
- Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

Notes

- Perforated cover - 53DM
- Non-perforated cover - 538DM

Color

- ● Black - 53DM
- ● Orange (non-conductive) - 538DM



Series 53DM/538DM

Visit the webpage

Part Number		Nominal I.D.		Maximum O.D.		Maximum Working Pressure		Minimum Bend Radius		Weight		Permanent Fitting Series
	Non-Conductive	inch	mm	inch	mm	psi	MPa	inch	mm	lbs./ft.	kg/mtr	
53DM-2	-	1/8	3.2	0.33	8.2	3,045	21	1/2	13	0.03	0.05	CY
53DM-4	-	1/4	6.3	0.49	11.9	3,045	21	1-1/4	32	0.07	0.10	56
53DM-6	538DM-6	3/8	10	0.66	16.7	3,045	21	2	51	0.11	0.16	56
53DM-8	-	1/2	12.5	0.85	21.6	3,045	21	3-1/2	89	0.17	0.26	56
53DM-10	-	5/8	16	1.03	26.2	3,045	21	4	102	0.22	0.33	56
53DM-12	-	3/4	19	1.13	28.7	3,045	21	6-1/2	165	0.26	0.39	CG

⚠ WARNING

This product can expose you to chemicals including N-Methylpyrrolidone, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

55LT – DuraMax™ SAE 100R7 Low Temperature Hydraulic Hose
Nylon Core Tube

Superior flexibility in cold temperature applications.



Features
- Twin and multi-line available
- Superior flexibility in cold temperature applications
- Excellent for over-the-sheave applications

Compliance
- Meets/Exceeds SAE J517 100R7

Construction
- Tube: Nylon
- Reinforcement: Fiber
- Cover: Copolyester

Fittings
- 56 Series – pg. E-33
- For most Parker products, Crimp Die Selection charts are found online at www.parker.com/crimpsource

Operating Parameters
- Temperature Range: -70°F (-57°C) to 212°F (100°C)
- Vac. Rating: 28 inch Hg
- Change in length at Max. Working Pressure: +/-2%
- Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

Notes
- Perforated cover

Color
- ● Black

Series 55LT

Visit the webpage

Part Number	Nominal I.D.		Maximum O.D.		Maximum Working Pressure		Minimum Bend Radius		Weight		Permanent Fitting Series
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs./ft.	kg/mtr	
55LT-3	3/16	5	0.43	10.9	3,250	22.4	3/4	19	0.05	0.08	56
55LT-4	1/4	6.3	0.51	13.0	3,000	20.7	1-1/4	32	0.07	0.10	56
55LT-5	5/16	8	0.57	14.5	2,500	17.2	1-3/4	44	0.09	0.13	56
55LT-6	3/8	10	0.65	16.5	2,250	15.5	2	51	0.10	0.14	56
55LT-8	1/2	12.5	0.81	20.6	2,000	13.8	3	76	0.14	0.21	56

⚠ WARNING

This product can expose you to chemicals including Nickel compounds, which is known to the State of California to cause cancer, and Toluene, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Tel: +45 63 12 83 00 | Email: ps@hymatik.com | www.hymatik.com | Hvidkaervej 27a, DK-5250 Odense SV, Denmark

56DH – Diagnostic Hose
Nylon Core Tube

Improved signal response due to smaller I.D. and low volumetric expansion.



Features
- Improved signal response due to smaller I.D. and low volumetric expansion
- Excellent flexibility
- Ease of routing due to flexibility and small O.D.
- Light weight - up to 70% less than other diagnostic hoses
- Twin and multi-line constructions available

Compliance
- MSHA compliant cover

Construction
- Tube: Nylon
- Reinforcement: Aramid Fiber
- Cover: Polyurethane

Fittings
- CY Series - pg. E-77 SF Series - pg. E-81
- For most Parker products, Crimp Die Selection charts are found online at www.parker.com/crimpsource
- Access instructions are on pg. G-3

Operating Parameters
- Temperature Range: -40°F (-40°C) to 200°F (93°C)
- Vac. Rating: 28 inch Hg
- Change in length at Max. Working Pressure: +/-2%
- Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

Notes
- Perforated cover

Color
- ● Black

Series 56DH Visit the webpage

Part Number	Nominal I.D.		Maximum O.D.		Maximum Working Pressure		Minimum Bend Radius		Weight		Permanent Fitting Series
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs./ft.	kg/mtr	
56DH-1.5	0.09	2.3	0.21	5.3	6,000	41.4	1/4	6.4	0.01	0.02	SF
56DH-2	0.14	3.6	0.32	8.1	6,000	41.4	1/2	13.0	0.03	0.05	CY

⚠ WARNING
This product can expose you to chemicals including Nickel compounds, which is known to the State of California to cause cancer, and Toluene, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Updated August 6, 2025

575X/575XN/578X - Fast Response Hose
Nylon Core Tube

5,000 psi constant pressure
and long, continuous lengths.



Features
- Light weight
- Low change in length under pressure
- Low volumetric expansion
- Fast response even over longer lengths
- 5000 psi constant pressure

Construction
- Tube: Nylon
- Reinforcement: Aramid Fiber
- Cover: Polyurethane (575X)
  Polyurethane TOUGHJACKET (578X-4, -6)
  Nylon (575XN)
  Elastomeric Nylon (578X-12)

Operating Parameters
- Temperature Range:
  575X-3 to 575X-16, 575XN-8 -40°F (-40°C) to 212°F (100°C)
  575XN-16 -40°F (-40°C) to 150°F (65°C)
- Vac. Rating: 28 inch Hg
- Change in length at Max. Working Pressure: +/-2%
- Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

Compliance
- MSHA compliant cover -575X/575XN-16 only
- DNV Type Approved - 575X/575XN
- Meets SAE J517 electrical standards (non-conductivity) - 578X only

Fittings
- CG Series – pg. E-72
- For most Parker products, Crimp Die Selection charts are found online at www.parker.com/crimpsource
- Access instructions are on pg. G-3

Notes
- Non-perforated cover
- 575XN and 578X-12 are not available in twin-line or multi-line constructions

Color
- ● Black - 575X/575XN
- ● Orange (non-conductive) - 578X

Series 575X/575XN

Visit the webpage

Part Number	Nominal I.D.		Maximum O.D.		Maximum Working Pressure		Minimum Bend Radius		Weight		Permanent Fitting Series
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs./ft.	kg/mtr	
575X-3	3/16	5	0.43	10.9	5,000	34.5	1-1/2	38.0	0.05	0.07	CG
575X-4	1/4	6.3	0.51	13.0	5,000	34.5	2	51.0	0.07	0.10	CG
575X-6	3/8	10	0.64	16.3	5,000	34.5	3	76.0	0.09	0.13	CG
575XN-8	1/2	12.5	0.81	20.6	5,000	34.5	4	102.0	0.14	0.21	CG
575X-12	3/4	19	1.15	29.2	5,000	34.5	8	203.0	0.24	0.36	CG
575X-16	1	25	1.59	40.4	5,000	34.5	10	254.0	0.48	0.71	CG
575XN-16	1	25	1.51	38.3	5,000	34.5	10	254.0	0.37	0.55	CG

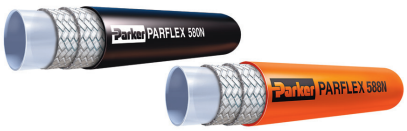
Series 578X

Part Number	Nominal I.D.		Maximum O.D.		Maximum Working Pressure		Minimum Bend Radius		Weight		Permanent Fitting Series
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs./ft.	kg/mtr	
578X-4	1/4	6.3	0.51	13.0	5,000	34.5	2	51.0	0.07	0.10	CG
578X-6	3/8	10	0.64	16.3	5,000	34.5	3	76.0	0.09	0.13	CG
578X-12	3/4	19	1.17	29.6	5,000	34.5	8	203.0	0.26	0.39	CG

⚠ WARNING
This product can expose you to chemicals including Nickel compounds, which is known to the State of California to cause cancer, and Toluene, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

580N/588N – SAE 100R8 High Pressure Hydraulic Hose
Nylon Core Tube

Lighter weight and smaller O.D. than comparable hoses with same working pressure.



Features
- Twin and multi-line available
- Lighter weight and smaller O.D. than 100R2

Compliance
- Meets/Exceeds SAE J517 100R8
- Meets SAE J517 electrical standards (non-conductivity) - 588N
- MSHA compliant cover - 580N
- DNV Type Approved

Construction
- Tube: Nylon
- Reinforcement: Fiber
- Cover: Polyurethane

Fittings
- 56 Series – pg. E-33
- For most Parker products, Crimp Die Selection charts are found online at www.parker.com/crimpsource
- Access instructions are on pg. G-3

Operating Parameters
- Temperature Range: -40°F (-40°C) to 212°F (100°C)
- Vac. Rating: 28 inch Hg
- Change in length at Max. Working Pressure: +/-2%
- Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

Notes
- Perforated cover - 580N
- *Non-perforated cover - 588N

Color
- ● Black - 580N
- ● Orange (non-conductive) - 588N

Series 580N/588N

Visit the webpage

Part Number		Nominal I.D.		Maximum O.D.		Maximum Working Pressure		Minimum Bend Radius		Weight		Permanent Fitting Series
Non-Conductive		inch	mm	inch	mm	psi	MPa	inch	mm	lbs./ft.	kg/mtr	
580N-8	588N-8*	1/2	12.5	0.89	22.6	3,500	24.1	4	102.0	0.21	0.31	56
580N-10	588N-10*	5/8	16	0.98	24.9	2,750	19.0	6	152.0	0.21	0.31	56
580N-12	588N-12*	3/4	19	1.15	29.2	2,250	15.5	8	203.0	0.23	0.35	56
580N-16	588N-16*	1	25	1.47	37.3	2,000	13.8	10	254.0	0.38	0.56	56

⚠ WARNING

This product can expose you to chemicals including Nickel compounds, which is known to the State of California to cause cancer, and Toluene, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

83FR – DuraGard™ General Purpose Polyurethane
Polyurethane Core Tube

Weld spatter resistant.



Features
- Weld spatter resistant
- Excellent abrasion resistance
- Excellent flexibility
- Compact bend radius
- Specially Formulated Polyurethane tube
- Twin-line or multi-line constructions available

Compliance
- Meets SAE J517 electrical standards (non-conductivity)
- UL94HB compliant
- MSHA compliant cover

Construction
- Tube: Specially Formulated Polyurethane
- Reinforcement: Fiber
- Cover: Polyurethane

Fittings
- 56 Series – pg. E-33 82 Series – Available from Parker Hose Products Division
- For most Parker products, Crimp Die Selection charts can be found online at www.parker.com/crimpsource
- Access instructions are on pg. G-3

Operating Parameters
- Temperature Range: -20°F (-29°C) to 200°F (93°C)
- Vac. Rating: 28 inch Hg
- Change in length at Max. Working Pressure: +/-2%
- Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

Notes
- *Temperature and pressure reduced with 82 series Push-Lok Fitting: -20°F (-29°C) to 145°F (62°C) 175 psi maximum working pressure
- Non-perforated cover
- Correct Part Nomenclature: 83FR-6-XXX-RL, where XXX indicates the color

Color
- Black (BLK)
- Blue (BLU)
- Brown (BRN)
- Green (GRN)
- Gray (GRA)
- Red (RED)

Series 83FR

Visit the webpage

Part Number	Nominal I.D.		Maximum O.D.		Maximum Working Pressure		Minimum Bend Radius		Weight		Permanent Fitting Series	Push-Lok Fitting*
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs./ft.	kg/mtr		
83FR-3	3/16	5	0.39	9.8	300	2.1	1	25.0	0.04	0.06	56	-
83FR-4	1/4	6.3	0.48	12.2	300	2.1	1	25.0	0.05	0.07	56	82*
83FR-6	3/8	10	0.60	15.2	300	2.1	2	51.0	0.08	0.11	56	82*
83FR-8	1/2	12.5	0.76	19.3	300	2.1	2-1/2	64.0	0.12	0.17	56	82*
83FR-10	5/8	16	0.92	23.3	300	2.1	3-1/2	89.0	0.15	0.22	56	82*
83FR-12	3/4	19	1.04	26.4	300	2.1	3-1/2	89.0	0.19	0.28	56	82*

⚠ WARNING
This product can expose you to chemicals including N-Methylpyrrolidone, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Tel: +45 63 12 83 00 | Email: ps@hymatik.com | www.hymatik.com | Hvidkaervej 27a, DK-5250 Odense SV, Denmark

1035HT – High Temperature Power Cleaning
Nylon Core Tube

Handles temperatures
up to 230°F (110°C).



Features
- Non-marring
- Broad temperature range

Fittings
- 56 Series – pg. E-33
- For most Parker products, Crimp Die Selection charts are found online at www.parker.com/crimpsource
- Access instructions are on pg. G-3

Construction
- Tube: Nylon
- Reinforcement: Fiber
- Cover: Polyurethane

Notes
- Perforated cover
- Chlorinated solvents should not be used
- Also available with a blue jacket (1035HT-4-BLU) upon request
- HBR (Hose Bend Restrictor) suggested for carpet cleaning applications - See Hose Guard in Tooling Equipment and Accessories Section pg. F-18

Operating Parameters
- Temperature Range:
  -40°F (-40°C) to 230°F (110°C)
- Vac. Rating: 28 inch Hg
- Change in length at Max. Working Pressure: +/-2%
- Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

Color
- Yellow

Series 1035HT

Visit the webpage

Part Number	Nominal I.D.		Maximum O.D.		Maximum Working Pressure		Minimum Bend Radius		Weight		Permanent Fitting Series
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs./ft.	kg/mtr	
1035HT-4	1/4	6.3	0.50	12.7	1,750	12.1	1-1/2	38.0	0.06	0.08	56

WARNING
This product can expose you to chemicals including Nickel compounds, which is known to the State of California to cause cancer, and Toluene, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Updated August 6, 2025

B9 – General Purpose Transfer Hose
Polyurethane Core Tube

Specially formulated polyurethane for increased chemical resistance.



Features
- Excellent flexibility
- Light weight
- Specially Formulated Polyurethane core tube for good chemical compatibility

Fittings
- 56 Series – pg. E-33 82 Series - Fittings available from Parker Hose Products Division
- For most Parker products, Crimp Die Selection charts can be found online at www.parker.com/crimpsource
- Access instructions are on pg. G-3

Construction
- Tube: Specially Formulated Polyurethane
- Reinforcement: Fiber
- Cover: Specially Formulated Polyurethane

Notes
- *Temperature and pressure reduced with 82 series Push-Lok Fitting: -20°F (-29°C) to 100°F (38°C) 100 psi maximum working pressure
- Non-perforated cover

OBSOLETE

Operating Parameters
- Temperature Range: -40°F (-40°C) to 200°F (93°C)
  - Water/glycol hydraulic fluids limited to 130°F (54°C)
- Vac. Rating: 28 inch Hg
- Change in length at Max. Working Pressure: +/-2%
- Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

Color
- Red
- Black (BK) - B904BK

Series B9

Visit the webpage

Part Number	Nominal I.D.		Maximum O.D.		Maximum Working Pressure		Minimum Bend Radius		Weight		Permanent Fitting Series	Push-Lok Fitting*
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs./ft.	kg/mtr		
B903	3/16	5	0.39	9.9	250	1.7	1	25.0	0.04	0.06	56	–
B904	1/4	6.3	0.46	11.7	250	1.7	1-1/2	38.0	0.05	0.07	56	82*
B905	5/16	8	0.55	14.0	250	1.7	2	51.0	0.08	0.12	56	–
B906	3/8	10	0.64	16.3	250	1.7	3	76.0	0.09	0.13	56	82*
B908	1/2	12.5	0.78	19.8	250	1.7	3	76.0	0.13	0.19	56	82*

⚠ WARNING
This product can expose you to chemicals including N-Methylpyrrolidone, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Updated August 6, 2025

5CNG – Compressed Natural Gas Hose
Electrically Conductive Nylon Core Tube

High pressure CNG transfer hose conforms to ANSI, CSA, ECE, and NFPA 52.



Features
- Electrically conductive core tube perforated polyurethane cover
- Sizes up to 1"
- Twin-line assemblies available to reduce installation time, eliminate tangling and reduce component part numbers

Compliance
- ANSI/CSA NGV 4.2*CSA 12.52 (Class A, Class D)
- ECE R110 CNG Class 6
- ANSI NGV 3.1*CSA 12.3 (Class B - P36) 5CNG-8 only
- NFPA 52
- CSA Certified (www.csagroup.org)

Construction
- Tube: Electrically Conductive Nylon
- Reinforcement: Aramid Fiber
- Cover: Polyurethane

Fittings
- CG Series – pg. E-72

Operating Parameters
- Temperature Range: -40°F (-40°C) to 185°F (85°C)
- Vac. Rating: 28 inch Hg
- Change in length at Max. Working Pressure: +/-2%
- Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

Notes
- Perforated cover
- Assemblies only - CNG hose must be assembled at the factory or by a Parflex approved facility
- Appropriate wire and vinyl guards must be used on ANSI/CSA compliant single-line and twin-line bonded hose assemblies.
  - (-4 to -8 SS wire guards - pg. F-17)
  - (-12 & -16 Vinyl guards - pg. F-16)

Color
- Red

Accessories
- 5PSG - Stainless steel spring guard
- CNGG5 - Vinyl hose guardd

Series 5CNG

Visit the webpage

Part Number	Nominal I.D.		Maximum O.D.		Maximum Working Pressure		Minimum Bend Radius		Weight	
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs./ft.	kg/mtr
5CNG-4	1/4	6.3	0.55	14.0	5,000	34.5	2	51.0	0.08	0.11
5CNG-6	3/8	10	0.65	16.5	5,000	34.5	3	76.0	0.09	0.13
5CNG-8	1/2	12.5	0.90	22.9	5,000	34.5	4	102.0	0.21	0.31
5CNG-12	3/4	19	1.19	30.2	5,000	34.5	7-1/2	191.0	0.24	0.36
5CNG-16	1	25	1.59	40.4	5,000	34.5	10	254.0	0.36	0.53

⚠ WARNING
This product can expose you to chemicals including Antimony Oxide (Antimony Trioxide), which is known to the State of California to cause cancer, and 2-Imidazolidinethione, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

CNGRP – Regulated Pressure Natural Gas Hose

Electrically Conductive Nylon Core Tube

Low pressure CNG transfer for on-vehicle use downstream of the pressure regulator.



Features

- For use downstream of the pressure reglator
- Approved for both under body and engine compartment installations

Compliance

- ANSI CSA NGV 3.1
- NFPA 52
- CSA 12.3, Class C
- CSA Certified (www.csagroup.org)

Construction

- Tube: Electrically Conductive Nylon
- Reinforcement: Stainless Steel
- Cover: TPV

Fittings

- 91N Series - pg. E-51

10691N-8-10C	10691N-12-12C	1JC91N-12-12C
10691N-10-10C	1AL91N-10-12C	1TU91N-10-12C
10691N-10-12C	1AL91N-12-12C	1TU91N-12-12C

Operating Parameters

- Temperature Range: -40°F (-40°C) to 250°F (121°C)
- Change in length at Max. Working Pressure: +2%/-4%
- Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

Notes

- For use with natural gas only
- Factory-made assemblies only

Series CNGRP

Visit the webpage

Part Number	Nominal I.D.		Maximum O.D.		Maximum Working Pressure		Minimum Bend Radius		Weight	
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs./ft.	kg/mtr
CNGRP-10	1/2	12.5	0.89	22.6	500	3.5	4	102.0	0.26	0.39
CNGRP-12	5/8	16	1.04	26.4	500	3.5	5	127.0	0.30	0.45

⚠ WARNING

This product can expose you to chemicals including Antimony Oxide (Antimony Trioxide), which is known to the State of California to cause cancer, and 2-Imidazolidinethione, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Updated August 6, 2025

⚠ WARNING

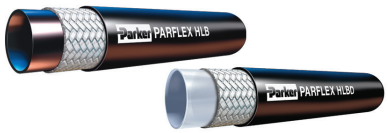
This product can expose you to chemicals including Titanium dioxide, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Updated August 6, 2025

HLB/HLBD – SAE 100R7 Hydraulic & Lubrication Hose

Copolyester Core Tube/Nylon Core Tube

Compact 1/8" I.D. hoses save hundreds of dollars of waste.



Features

- HLB/HLBD remote lubrication system versus 1/4" rubber hoses can save money per line in reduced component and installation labor costs
- Unique GK bulkhead hose fittings with integrated nipple can save money per zerk connection in unnecessary adapter costs
- Compact 1/8" hoses save hundreds of dollars of waste in your operation by eliminating gallons of unnecessary "in-line" grease versus larger bore rubber hoses

Compliance

- MSHA compliant cover
- Meets/Exceeds SAE J517 100R7 (HLBD)
- ISO 3949-R7-1 (HLBD)

Construction

- Tube: HLBD02 - Nylon
  HLB03 - Copolyester
- Reinforcement: Fiber
- Cover: Polyurethane

Fittings

- CY Series – pg. E-77 BU Series - pg. E-31
- For most Parker products, Crimp Die Selection charts are found online at www.parker.com/crimpsource

Operating Parameters

- Temperature Range:
  - -40°F (-40°C) to 212°F (100°C)
  - Synthetic, synthetic blend, water, and water/oil emulsion hydraulic fluids limited to 135°F (57°C) (HLB03 only)
  - BU Series Field Attachable Fitting limited to 120°F (48°C)
- Vac. Rating: 28 inch Hg
- Change in length at Max. Working Pressure:
  - HLBD02: +/-2%
  - HLB03: +/-3%
- Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

Notes

- Perforated cover - HLBD02
- Non-perforated cover - HLB03
- Field attachable fittings are not intended for use on hose that has been previously in service

Color

- ● Black

Series HLB/HLBD

Visit the webpage

Part Number	Nominal I.D.		Maximum O.D.		Maximum Working Pressure		Minimum Bend Radius		Weight		Permanent Fitting Series	Field Attachable Series
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs./ft.	kg/mtr		
HLBD02	1/8	3.2	0.32	8.1	3,000	20.7	1/2	13.0	0.03	0.04	CY	BU
HLB03	3/16	5	0.41	10.4	3,000	20.7	3/4	19.0	0.06	0.08	CY	-

⚠ WARNING

This product can expose you to chemicals including Nickel compounds, which is known to the State of California to cause cancer, and Toluene, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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MSH – Marine Steering Hose
Nylon Core Tube

Salt water resistant.



Features
- Fast, accurate response
- Permanent or field attachable fittings
- Salt water, corrosion resistant
- Ideal for marine hydraulic steering systems

Fittings
- MS Series – pg. E-65; E-80
- For most Parker products, Crimp Die Selection charts are found online at www.parker.com/crimpsource
- Access instructions are on pg. G-3

Construction
- Tube: Nylon
- Reinforcement: Fiber
- Cover: Polyurethane

Notes
- Non-perforated cover
- Bend restrictor (HBR) available for only permanent fittings (pg. F-16)
- Field attachable fittings are not intended for use on hose that has been previously in service

Operating Parameters
- Temperature Range: -40°F (-40°C) to 200°F (93°C)
- Vac. Rating: 28 inch Hg
- Change in length at Max. Working Pressure: +/-2%
- Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

Color
- ● Black

Series MSH

Visit the webpage

Part Number	Nominal I.D.		Maximum O.D.		Maximum Working Pressure		Minimum Bend Radius		Weight		Permanent Fitting Series	F.A. Fitting Series
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs./ft.	kg/mtr		
MSH-5	5/16	8	0.48	12.2	1,000	6.9	2-1/4	57.0	0.05	0.07	MS	MS
MSH-6	3/8	10	0.59	15.0	1,000	6.9	3	76.0	0.07	0.11	MS	MS

⚠ WARNING

This product can expose you to chemicals including Nickel compounds, which is known to the State of California to cause cancer, and Toluene, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Updated August 6, 2025

MSXL – Fast Response Marine Steering Hose
Nylon Core Tube

Fast, accurate response with a salt water resistant cover.



Features
- Fast, accurate response in marine steering systems
- Low volumetric expansion
- Salt water resistant cover
- Ideal for marine hydraulic steering systems

Fittings
- MS Series – Permanent Crimp Only E-80
- For most Parker products, Crimp Die Selection charts are found online at www.parker.com/crimpsource
- Access instructions are on pg. G-3

Construction
- Tube: Nylon
- Reinforcement: Aramid Fiber
- Cover: Polyurethane

Notes
- Non-perforated cover
- Bend restrictor (HBR) available for only permanent fittings (pg. F-16)

Operating Parameters
- Temperature Range: -40°F (-40°C) to 185°F (85°C)
- Vac. Rating: 28 inch Hg
- Change in length at Max. Working Pressure: +/-2%
- Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

Color
- ● Black

Series MSXL

Visit the webpage

Part Number	Nominal I.D.		Maximum O.D.		Maximum Working Pressure		Minimum Bend Radius		Weight		Permanent Fitting Series
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs./ft.	kg/mtr	
MSXL-5	5/16	8	0.50	12.7	1,500	10.3	2-1/4	57.0	0.05	0.07	MS

⚠ WARNING

This product can expose you to chemicals including Nickel compounds, which is known to the State of California to cause cancer, and Toluene, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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PTH – Marine Power Tilt Hose
Nylon Core Tube

Designed for power tilt mechanisms, trim tab assemblies and jack plate assemblies.



Features
- Compact design
- Abrasion resistant polyurethane cover
- Excellent flexibility
- Corrosion resistant

Fittings
- 92 Series – pg. E-61
- For most Parker products, Crimp Die Selection charts are found online at www.parker.com/crimpsource
- Access instructions are on pg. G-3

Construction
- Tube: Nylon
- Reinforcement: Fiber and Stainless Steel Wire
- Cover: Polyurethane

Notes
- Non-perforated cover
- SS wire overbraid for enhanced kink resistance and cut through protection

Operating Parameters
- Temperature Range: -40°F (-40°C) to 212°F (100°C)
- Change in length at Max. Working Pressure: +/-2%
- Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

Color
- ● Black

Series PTH

Visit the webpage

Part Number	Nominal I.D.		Maximum O.D.		Maximum Working Pressure		Minimum Bend Radius		Weight		Permanent Fitting Series
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs./ft.	kg/mtr	
PTH-3-BLK	3/16	5	0.43	10.9	3,000	20.7	3/4	19.0	0.08	0.11	92

⚠ WARNING

This product can expose you to chemicals including Nickel compounds, which is known to the State of California to cause cancer, and Toluene, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Updated August 6, 2025

S5N – Predator® Hose (Water Jetting/Lateral Cleaning)

Nylon Core Tube

High-pressure water equipment in lateral sewer lines.



Features

- Easily identified lime green cover signifies 4000 psi constant pressure
- Slim profile and light weight provide easy handling and routing
- High-pressure water equipment for cleaning or debris removal in lateral sewer lines

Fittings

- 56 Series – pg. E-33
- For most Parker products, Crimp Die Selectionfound online at www.parker.com/crimpsource
- Access instructions are on pg. G-3

Construction

- Tube: Gray Nylon
- Reinforcement: Aramid Fiber
- Cover: Polyurethane

Notes

- Perforated cover
- All standard assembly lengths coupled with rigid male pipe (NPT) each end
- Not for use in hydraulic applications

Operating Parameters

- Temperature Range: -40°F (-40°C) to 135°F (57°C)
- Vac. Rating: 28 inch Hg
- Change in length at Max. Working Pressure: +/-2%
- Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

Color

- Green

Series S5N

Visit the webpage

Part Number	Nominal I.D.		Maximum O.D.		Maximum Working Pressure		Minimum Bend Radius		Weight		Permanent Fitting Series
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs./ft.	kg/mtr	
S508N	1/2	12.5	0.81	20.6	4000	28.0	4	102.0	0.16	0.24	56

⚠ WARNING

This product can expose you to chemicals including Nickel compounds, which is known to the State of California to cause cancer, and Toluene, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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S6 – Predator® Hose (Sewer Cleaning)
Copolyester Core Tube

2,500 psi pressure and high-volume water equipment in large sewer lines.



Features

- Easily identified orange cover signifies 2500 psi constant pressure
- Bonded construction provides excellent kink resistance and flexibility
- High-pressure and high-volume water equipment for cleaning or debris removal in large sewer lines

Construction

- Tube: Gray Copolyester
- Reinforcement: Fiber
- Cover: Polyurethane

Fittings

- SQ Series (Swage Only) – pg. E-82 HY Series - Fittings available from Parker Hose Products Division
- For most Parker products, Crimp Die Selection charts are found online at www.parker.com/crimpsource
- Access instructions are on pg. G-3

Operating Parameters

- Temperature Range: -40°F (-40°C) to 135°F (57°C)
- Vac. Rating: 28 inch Hg
- Change in length at Max. Working Pressure: +/-2%
- Min. Burst Pressure is 2.5x Max. Working Pressure at 73°F (23°C)

Notes

- All standard assembly lengths coupled with rigid male pipe (NPT) each end
- Not for use in hydraulic applications
- Perforated cover

Color

- Orange

Series S6

Visit the webpage

Part Number	Nominal I.D.		Maximum O.D.		Maximum Working Pressure		Minimum Bend Radius		Weight		Permanent Fitting Series
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs./ft.	kg/mtr	
S612	3/4	19	1.15	29.2	2,500	17.2	4	102.0	0.27	0.40	SQ/HY
S616	1	25	1.42	36.1	2,500	17.2	6	152.0	0.36	0.53	SQ/HY

⚠ WARNING

This product can expose you to chemicals including Nickel compounds, which is known to the State of California to cause cancer, and Toluene, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

S9 – Predator® Hose (Sewer Cleaning)

Copolyester Core Tube

3,000 psi pressure and high-volume water equipment in large sewer lines.



Features

- Easily identified blue cover signifies 3000 psi constant pressure
- Bonded construction provides excellent kink resistance and flexibility
- High-pressure and high-volume water equipment for cleaning or debris removal in large sewer lines

Fittings

- SQ Series (Swage Only) – pg. E-68 HY Series - Fittings available from Parker Hose Products Division
- For most Parker products, Crimp Die Selection charts are found online at www.parker.com/crimpsource
- Access instructions are on pg. G-3

Construction

- Tube: Gray Copolyester
- Reinforcement: Fiber
- Cover: Polyurethane

Notes

- All standard assembly lengths coupled with rigid male pipe (NPT) each end
- Not for use in hydraulic applications
- Perforated cover

Operating Parameters

- Temperature Range: -40°F (-40°C) to 135°F (57°C)
- Vac. Rating: 28 inch Hg
- Change in length at Max. Working Pressure: +/-2%
- Min. Burst Pressure is 2.5x Max. Working Pressure at 73°F (23°C)

Color

- Blue

Series S9

Visit the webpage

Part Number	Nominal I.D.		Maximum O.D.		Maximum Working Pressure		Minimum Bend Radius		Weight		Permanent Fitting Series
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs./ft.	kg/mtr	
S912	3/4	19	1.16	29.5	3,000	20.7	4	102.0	0.28	0.42	SQ/HY
S916	1	25	1.48	37.6	3,000	20.7	8	203.0	0.41	0.61	SQ/HY

⚠ WARNING

This product can expose you to chemicals including Nickel compounds, which is known to the State of California to cause cancer, and Toluene, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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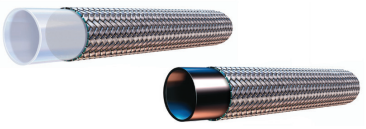
919/919B - SAE 100R14 PTFE Hose
PTFE Core Tube

Best chemical resistance with high operating temperature (450°F/232°C).



Features
- Excellent chemical compatibility
- Handles extreme temperatures to 450°F
- Environmentally safe
- Resists moisture
- Low friction minimizes pressure drops and deposits

Compliance
- Meets/Exceeds SAE J517 100R14A - 919
- Meets/Exceeds SAE J517 100R14B - 919B
- FDA CFR21 Part 177 compliant core - 919
- DNV Type Approved - 919/919B -4, -6, -8, & -10 only

Construction
- Tube: 919 - Natural FDA Compliant PTFE
  919B - Black Static-Dissipative PTFE
- Reinforcement: 304 Stainless Steel Braid

Fittings
- 90 Series – pg. E-26 91/91N Series – pg. E-52
- For most Parker products, Crimp Die Selection charts are found online at www.parker.com/crimpsource

Operating Parameters
- Temperature Range:
  -100°F (-73°C) to 450°F (232°C)
- Change in length at Max. Working Pressure: +2% to -4%
- Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

Notes
- Use hose type 919B with static-dissipative core tube when conveying non-conducting fluids such as oils, paints, fuels, steam, etc.
- Constructed with minimum .030" PTFE tube wall thickness
- Field attachable fittings are not intended for use on hose that has been previously in service

Series 919/919B

Visit the webpage

Part Number		Nominal I.D.		Maximum O.D.		Maximum Working Pressure		Minimum Bend Radius		Vac. Rating	Weight		Permanent Fitting Series	F.A. Fitting Series
Natural	Static-Dissipative	inch	mm	inch	mm	psi	MPa	inch	mm	Hg/73F	lbs./ft.	kg/mtr		
919-4	919B-4	3/16	5	0.33	8.2	3,000	20.7	2	50.0	28	0.06	0.09	91N	90
919-5	919B-5	1/4	6.3	0.40	10.1	3,000	20.7	3	75.0	28	0.09	0.13	91N	90
919-6	919B-6	5/16	8	0.46	11.6	2,500	17.2	4	100.0	28	0.10	0.15	91N	90
919-8	919B-8	13/32	10.4	0.56	14.3	2,000	13.8	5	127.0	28	0.13	0.19	91N	90
919-10	919B-10	1/2	12.5	0.66	16.8	1,500	10.3	6-1/2	165.0	28	0.15	0.22	91N	90
919-12	919B-12	5/8	16	0.79	20.1	1,200	8.3	7-1/2	191.0	12	0.19	0.28	91N	90
919-16	919B-16	7/8	22	1.06	26.9	1,000	6.9	9	229.0	14	0.27	0.40	91N	90
919-20	-	1-1/8	29	1.32	33.5	625	4.3	16	406.0	10	0.39	0.58	91	90

⚠ WARNING
This product can expose you to chemicals including Tetrafluoroethylene, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

919J/919BJ – Silicone Covered SAE 100R14 PTFE Hose

PTFE Core Tube

Steam cleanable with silicone cover for operator protection.



Features

- Silicone cover provides a clean, smooth cover to protect the stainless steel wire reinforcement against wear, fraying and contaminants
- Steam cleanable

Compliance

- Meets/Exceeds SAE J517 100R14A - 919J
- Meets/Exceeds SAE J517 100R14B - 919BJ
- FDA CFR21 Part 177 compliant core - 919J

Construction

- Tube: 919J - Natural FDA Compliant PTFE
  919BJ - Black Static-Dissipative PTFE
- Reinforcement: 304 Stainless Steel Braid
- Cover: Extruded Silicone

Fittings

- 91N Series – pg. E-52
- For most Parker products, Crimp Die Selection charts are found online at www.parker.com/crimpsource
- Access instructions are on pg. G-3

Operating Parameters

- Temperature Range:
  -40°F (-40°C) to 450°F (232°C)
- Change in length at Max. Working Pressure: +2% to -4%
- Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

Notes

- Cover must be skived prior to fitting attachment
- Constructed with minimum .030" PTFE tube wall thickness

Color

- Red - 919J
- Orange - 919BJ

Series 919J/919BJ

Visit the webpage

Part Number		Nominal I.D.		Maximum O.D.		Maximum Working Pressure		Minimum Bend Radius		Vac. Rating	Weight		Permanent Fitting Series
Natural	Static-Dissipative	inch	mm	inch	mm	psi	MPa	inch	mm	Hg/73F	lbs./ft.	kg/mtr	
919J-4-RED	919BJ-4-ORG	3/16	5	0.45	11.4	3,000	20.7	2	50.0	28	0.12	0.18	91N
919J-5-RED	919BJ-5-ORG	1/4	6.3	0.52	13.2	3,000	20.7	3	75.0	28	0.14	0.21	91N
919J-6-RED	919BJ-6-ORG	5/16	8	0.58	14.8	2,500	17.2	4	100.0	28	0.17	0.25	91N
919J-8-RED	919BJ-8-ORG	13/32	10.4	0.68	17.3	2,000	13.8	5	127.0	28	0.20	0.30	91N
919J-10-RED	919BJ-10-ORG	1/2	12.5	0.78	19.8	1,500	10.3	6-1/2	165.0	28	0.24	0.35	91N
919J-12-RED	919BJ-12-ORG	5/8	16	0.91	23.1	1,200	8.3	7-1/2	191.0	12	0.29	0.43	91N
919J-16-RED	919BJ-16-ORG	7/8	22	1.19	30.2	1,000	6.9	9	229.0	14	0.38	0.56	91N

⚠ WARNING

This product can expose you to chemicals including Tetrafluoroethylene, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Updated August 6, 2025

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919U - Abrasion Resistant SAE 100R14 PTFE Hose
PTFE Core Tube

Non-marring, abrasion resistant polyurethane cover.



Features
- Non-marring, abrasion resistant polyurethane cover protects the stainless steel wire reinforcement against wear, fraying and contaminants

Compliance
- Meets/Exceeds SAE J517 100R14A
  - Limited to temperature range of -40°F to 275°F
- FDA CFR21 Part 177 compliant core

Construction
- Tube: Natural FDA Compliant PTFE
- Reinforcement: 304 Stainless Steel Braid
- Cover: Polyurethane

Fittings
- 91N Series – pg. E-52
- For most Parker products, Crimp Die Selection charts are found online at www.parker.com/crimpsource
- Access instructions are on pg. G-3

Operating Parameters
- Temperature Range::
  -40°F (-40°C) to 275°F (135°C)
- Change in length at Max. Working Pressure: +2% to -4%
- Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

Notes
- Cover must be skived prior to fitting attachment
- Constructed with minimum .030" PTFE tube wall thickness

Color
- ●Black

Series 919U

Visit the webpage

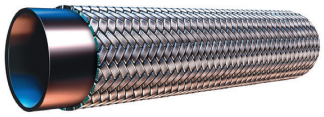
Part Number	Nominal I.D.		Maximum O.D.		Maximum Working Pressure		Minimum Bend Radius		Vac. Rating	Weight		Permanent Fitting Series
Natural	inch	mm	inch	mm	psi	MPa	inch	mm	Hg/73F	lbs./ft.	kg/mtr	
919U-4	3/16	5	0.37	9.4	3,000	20.7	2	50.0	28	0.08	0.13	91N
919U-6	5/16	8	0.51	13.0	2,500	17.2	4	100.0	28	0.13	0.20	91N
919U-8	13/32	10.4	0.61	15.5	2,000	13.8	5	127.0	28	0.15	0.22	91N
919U-12	5/8	16	0.84	21.4	1,200	8.3	7-1/2	191.0	12	0.22	0.33	91N
919U-16	7/8	22	1.12	28.5	1,000	6.9	9	229.0	14	0.31	0.47	91N

⚠ WARNING
This product can expose you to chemicals including Tetrafluoroethylene, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Updated August 6, 2025

929B - Heavy Wall SAE 100R14 PTFE Hose
PTFE Core Tube

Enhanced resistance to gas permeation due to increased PTFE wall thickness (.040").



Features

- Excellent kink resistance
- Enhanced resistance to gas permeation due to increased PTFE wall thickness (.040")
- Excellent chemical compatibility
- Handles extreme temperatures to 450°F

Compliance

- Meets/Exceeds SAE J517 100R14B
- DNV Type Approved - 929B -12 & -16 only

Construction

- Tube: Black Static-Dissipative PTFE
- Reinforcement: 304 Stainless Steel Braid

Fittings

- 91N Series – pg. E-52
- For most Parker products, Crimp Die Selection charts are found online at www.parker.com/crimpsource

Operating Parameters

- Temperature Range:
  -100°F (-73°C) to 450°F (232°C)
- Change in length at Max. Working Pressure: +2% to -4%
- Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

Notes

- Use 929B with static-dissipative core tube when conveying non-conducting fluids such as oils, paints, fuels, steam, etc.
- Constructed with minimum .040" PTFE tube wall thickness

Series 929B

Visit the webpage

Part Number	Nominal I.D.		Maximum O.D.		Maximum Working Pressure		Minimum Bend Radius		Vac. Rating	Weight		Permanent Fitting Series
Static-Dissipative	inch	mm	inch	mm	psi	MPa	inch	mm	Hg/73F	lbs./ft.	kg/mtr	
929B-4	3/16	5	0.34	8.6	3,000	20.7	2	51.0	28	0.08	0.12	91N
929B-6	5/16	8	0.47	11.9	2,500	17.2	4	102.0	28	0.12	0.18	91N
929B-8	13/32	10	0.59	15.0	2,000	13.8	4-5/8	117.0	28	0.16	0.23	91N
929B-12	5/8	16	0.81	20.6	1,200	8.3	6-1/2	165.0	12	0.19	0.28	91N
929B-16	7/8	22	1.14	29.0	1,250	8.6	7-1/2	188.0	12	0.49	0.73	91N

⚠ WARNING

This product can expose you to chemicals including Tetrafluoroethylene, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

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929BJ - Silicone Covered SAE 100R14 PTFE Hose
PTFE Core Tube

Silicone cover protects SS wire reinforcement against wear and fraying, up to 450°F.



Features
- Silicone cover protects SS wire reinforcement against wear and fraying, up to 450°F
- Silicone cover provides clean, smooth cover and prevents contaminants from accumulating in braid
- Excellent kink resistance
- Enhanced resistance to gas permeation due to increased PTFE wall thickness
- Steam cleanable

Compliance
- Meets/Exceeds SAE J517 100R14B

Construction
- Tube: Black Static-Dissipative PTFE
- Reinforcement: 304 Stainless Steel Braid
- Cover: Silicone

Fittings
- 91N Series – pg. E-52
- For most Parker products, Crimp Die Selection charts are found online at www.parker.com/crimpsource
- Access instructions are on pg. G-3

Operating Parameters
- Temperature Range: -65°F (-54°C) to 450°F (232°C)
- Change in length at Max. Working Pressure: +2% to -4%
- Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

Notes
- Cover must be skived prior to fitting attachment
- Constructed with minimum .040" PTFE tube wall thickness

Color
- Brown

Series 929BJ

Visit the webpage

Part Number	Nominal I.D.		Maximum O.D.		Maximum Working Pressure		Minimum Bend Radius		Vac. Rating	Weight		Permanent Fitting Series
Natural	inch	mm	inch	mm	psi	MPa	inch	mm	Hg/73F	lbs./ft.	kg/mtr	
929BJ-4	3/16	5	0.58	14.7	3,000	20.7	2	51.0	28	0.17	0.25	91N
929BJ-6	5/16	8	0.70	17.8	2,500	17.2	4	102.0	28	0.23	0.34	91N
929BJ-8	13/32	10	0.81	20.6	2,000	13.8	4-5/8	117.0	28	0.29	0.43	91N
929BJ-12	5/8	16	1.04	26.4	1,200	8.3	6-1/2	165.0	12	0.43	0.64	91N
929BJ-16	7/8	22	1.36	34.5	1,250	8.6	7-1/2	188.0	12	0.78	1.16	91N

⚠ WARNING

This product can expose you to chemicals including Tetrafluoroethylene, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

939/939B – Convoluted PTFE Hose
PTFE Core Tube

Up to 50% tighter bend radius than smoothbore PTFE hose.



Features
- Excellent flexibility for tighter routings
- Excellent kink resistance

Compliance
- FDA CFR21 Part 177 compliant core - 939

Construction
- Tube: 939 - Natural FDA Compliant PTFE
  939B - Black Static-Dissipative PTFE
- Reinforcement: 304 Stainless Steel Braid

Fittings
- 93N Series – pg. E-62
- For most Parker products, Crimp Die Selection charts are found online at www.parker.com/crimpsource
- Access instructions are on pg. G-3

Operating Parameters
- Temperature Range:
  -100°F (-73°C) to 450°F (232°C)
- Change in length at Max. Working Pressure: +/-2%
- Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

Notes
- Use hose type 939B with static-dissipative core tube when conveying non-conducting fluids such as paints, fuels, steam, etc.
- *28 in/Hg can be obtained by using an internal spring guard See pg. F-20

Series 939/939B

Visit the webpage

Part Number		Nominal I.D.		Maximum O.D.		Maximum Working Pressure		Minimum Bend Radius		Vac. Rating	Weight		Permanent Fitting Series
Natural	Static-Dissipative	inch	mm	inch	mm	psi	MPa	inch	mm	Hg/73F	lbs./ft.	kg/mtr	
939-6	939B-6	3/8	10	0.59	15.0	1500	10.3	2-1/4	57.0	28	0.12	0.18	93N
939-8	939B-8	1/2	12.5	0.79	20.1	1350	9.3	2-7/8	73.0	28	0.21	0.31	93N
939-10	939B-10	5/8	16	0.88	22.4	1000	6.9	3	76.0	28	0.24	0.36	93N
939-12	939B-12	3/4	19	1.09	27.7	1100	7.6	3-3/4	95.0	28	0.32	0.47	93N
939-16	939B-16	1	25	1.33	33.8	1000	6.9	5	127.0	28	0.45	0.67	93N
939-20	939B-20	1-1/4	31.5	1.75	44.5	1000	6.9	6-1/4	159.0	20*	0.70	1.04	93N
939-24	939B-24	1-1/2	38	2.05	52.1	750	5.2	7-1/2	191.0	12*	0.80	1.18	93N
939-32	939B-32	2	51	2.56	65.0	250	1.7	10	254.0	5*	1.01	1.50	93N

⚠ WARNING

This product can expose you to chemicals including Tetrafluoroethylene, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

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944B - High Pressure PTFE Hose
Static Dissipative PTFE Core Tube

Up to 4,500 working pressure.
Low friction minimizes pressure drops.



Features
- Excellent chemical compatibility
- Resists moisture
- Low friction minimizes pressure drops and deposits

Fittings
- 94 Series – pg. E-64

Construction
- Tube: Black Static-Dissipative PTFE
- Reinforcement: 304 Stainless Steel Braid

Notes
- Factory made assemblies only
- Reduce pressure to 3000 psi (20.7 MPa) for pressure impulse applications

Operating Parameters
- Temperature Range:
  -65°F (-54°C) to 400°F (204°C)
- Change in length at Max. Working Pressure: +/-2%
- Min. Burst Pressure is 3x Max. Working Pressure at 73°F (23°C)

Series 944B

Visit the webpage

Part Number	Nominal I.D.		Maximum O.D.		Maximum Working Pressure		Minimum Bend Radius		Vac. Rating	Weight	
Natural	inch	mm	inch	mm	psi	MPa	inch	mm	Hg/73F	lbs./ft.	kg/mtr
944B-6	5/16	8	0.49	12.5	4,500	31.0	2-1/2	63.5	28	0.17	0.24
944B-8	7/16	10.4	0.62	15.6	4,500	31.0	2-7/8	73.2	28	0.25	0.35
944B-10	1/2	12.5	0.73	18.5	4,000	27.6	3-1/4	82.6	28	0.31	0.45
944B-12	5/8	16	0.99	25.1	4,000	27.6	4	101.6	28	0.74	1.05
944B-16	29/32	22	1.25	31.8	4,000	27.6	5	127.0	28	1.09	1.55

⚠ WARNING
This product can expose you to chemicals including Tetrafluoroethylene, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Updated August 6, 2025

955B – High Pressure PTFE Hose

Static Dissipative PTFE Core Tube

5,500 constant working pressure.
Low friction minimizes pressure drops.



Features

- Excellent chemical compatibility
- Resists moisture
- Low friction minimizes pressure drops and deposits

Fittings

- 95 Series – pg. E-64

Construction

- Tube: Black Static-Dissipative PTFE
- Reinforcement: Multiple high density braids of 304 Stainless Steel

Notes

- Factory-made assemblies only
- Reduce pressure to 4,000 psi (27.6 MPa) for pressure impulse applications

Operating Parameters

- Temperature Range:
  -65°F (-54°C) to 400°F (204°C)
- Change in length at Max. Working Pressure: +/-2%
- Min. Burst Pressure is 16,000 psi at 73°F (23°C)

Series 955B

Visit the webpage

Part Number	Nominal I.D.		Maximum O.D.		Maximum Working Pressure		Minimum Bend Radius		Vac. Rating	Weight	
Natural	inch	mm	inch	mm	psi	MPa	inch	mm	Hg/73F	lbs./ft.	kg/mtr
955B-4	15/64	6	0.50	12.7	5,500	37.9	3	76.0	28	0.23	0.34
955B-6	5/16	8	0.62	15.7	5,500	37.9	5	127.0	28	0.24	0.35
955B-8	7/16	11.1	0.75	19.1	5,500	37.9	5-3/4	146.0	28	0.46	0.68
955B-10	1/2	12.7	0.91	23.1	5,500	37.9	6-1/2	165.0	28	0.91	1.34
955B-12	5/8	16	1.08	27.4	5,500	37.9	7-3/4	197.0	28	0.92	1.36
955B-16	29/32	23	1.36	34.5	5,500	37.9	9-5/8	245.0	28	1.20	1.77

⚠ WARNING

This product can expose you to chemicals including Tetrafluoroethylene, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

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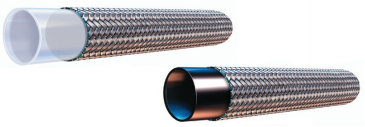
STW/STB True Bore PTFE Hose
PTFE Core Tube

Features a larger I.D. than the equivalent SAE J517, 100R14 PTFE hose.



Features
- High temperature hose
- Excellent chemical compatibility
- Resists moisture
- Low friction minimizes pressure drops and deposits

Compliance
- FDA CFR21 Part 177 compliant core - STW
- USP Class VI compliant core

Construction
- Tube: STW - Natural FDA Compliant PTF
  STB - Black Static-Dissipative PTFE
- Reinforcement: 304 Stainless Steel Braid

Fittings
- PAGE Fittings – pg. E-65
- Uses crimp collar ST300, see pg. E-66
- For most Parker products, Crimp Die Selection charts are found online at www.parker.com/crimpsource
- Access instructions are on pg. G-3

Operating Parameters
- Temperature Range:
  -100°F (-73°C) to 450°F (232°C)
- Change in length at Max. Working Pressure: +2% to -4%
- Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)
- Pressure ratings based on 73°F (23°C) - Decrease working pressure 1% for every 2°F above 212°F

Notes
- "Z" indicates double braid
- See pg. A-21 for part numbering system
- Cannot be used with 90 or 91N series fittings

Series STW/STB

Visit the webpage

Part Number		Nominal I.D.		Maximum O.D.		Maximum Working Pressure		Minimum Bend Radius		Vac. Rating	Weight		Permanent Fitting Series
Natural	Static-Dissipative	inch	mm	inch	mm	psi	MPa	inch	mm	Hg/73F	lbs./ft.	kg/mtr	
04-STW	04-STB	1/4	6	.37	9	3,000	207	3	76	28	.08	.13	PAGE
06-STW	06-STB	3/8	10	.51	13	2,000	138	5	127	28	.11	.16	PAGE
08-STW	08-STB	1/2	13	.63	16	1,750	121	6-1/2	165	28	.16	.24	PAGE
12-STW	12-STB	3/4	19	.88	22	1,000	69	8.5	216	28	.20	.30	PAGE
16-STW	16-STB	1	25	1.13	29	1,000	69	12	305	20	.33	.49	PAGE
20Z-STW	-	1-1/4	31.8	1.52	38.6	1,000	69	14	356	18	.68	1.02	PAGE
24Z-STW	24Z-STB	1-1/2	38.1	1.73	43.9	900	62	15	381	15	.79	1.18	PAGE

⚠ WARNING
This product can expose you to chemicals including Tetrafluoroethylene, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Updated August 6, 2025

SCW/SCB – Convoluted PTFE Hose
PTFE Core Tube

Features extreme flexibility with stainless steel braid reinforcement.



Features
- Excellent corrosion resistance
- Seamless
- Open pitch
- Self draining
- Environmentally safe; low effusion

Compliance
- FDA CFR21 Part 177 compliant core - SCW
- USP Class VI compliant core

Construction
- Tube: SCW - Natural FDA Compliant PTFE
  SCB - Black Static-Dissipative PTFE
- Reinforcement: 304 Stainless Steel Braid

Fittings
- PAGE Fittings – pg. E-65
- Uses crimp collar SC300, see pg. E-66
- For most Parker products, Crimp Die Selection charts are found online at www.parker.com/crimpsource
- Access instructions are on pg. G-3

Operating Parameters
- Temperature Range:
  -100°F (-73°C) to 500°F (260°C)
- Change in length at Max. Working Pressure: +2% to -4%
- Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)
- Pressure ratings based on 73°F (23°C)
- Decrease working pressure 1% for every 2°F above 212°F

Notes
- See pg. A-21 for part numbering system
- Cannot be used with 93N series fittings

Series SCW/SCB

Visit the webpage

Part Number		Nominal I.D.		Maximum O.D.		Maximum Working Pressure		Minimum Bend Radius		Vac. Rating	Weight		Permanent Fitting Series
Natural	Static-Dissipative	inch	mm	inch	mm	psi	MPa	inch	mm	Hg/73F	lbs./ft.	kg/mtr	
04-SCW	04-SCB	1/4	6.4	0.46	11.7	1,500	10.3	3/4	19.0	28	0.08	0.11	PAGE
06-SCW	06-SCB	3/8	9.5	0.56	14.2	1,500	10.3	1	25.0	28	0.10	0.15	PAGE
08-SCW	08-SCB	1/2	12.7	0.76	19.3	1,500	10.3	1-1/2	38.0	28	0.16	0.23	PAGE
12-SCW	12-SCB	3/4	19.1	1.03	26.2	1,200	8.3	2	51.0	28	0.27	0.40	PAGE
16-SCW	16-SCB	1	25.4	1.34	34.0	925	6.4	2-1/2	64.0	28	0.37	0.55	PAGE
20-SCW	20-SCB	1-1/4	31.8	1.75	44.5	750	5.2	3	76.0	28	0.46	0.68	PAGE
24-SCW	24-SCB	1-1/2	38.1	1.95	49.5	650	4.5	3-3/4	95.0	28	0.55	0.81	PAGE
32-SCW	32-SCB	2	50.8	2.45	62.2	450	3.1	4-3/4	121.0	28	0.90	1.40	PAGE

⚠ WARNING

This product can expose you to chemicals including Tetrafluoroethylene, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

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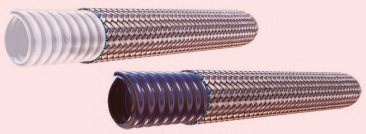
SCWV/SCBV Heavy Wall Convoluted PTFE Hose
PTFE Core Tube

Thicker wall handles vacuum applications at elevated temperatures.



Features
- Thicker wall - up to 33% more PTFE than SCW
- Handles vacuum applications at elevated temperatures
- Excellent chemical compatibility
- Easy Cleaning

Compliance
- FDA CFR21 Part 177 compliant core - SCWV
- USP Class VI compliant core

Construction
- Tube: SCWV - Natural FDA Compliant PTFE
  SCBV - Black Static-Dissipative PTFE
- Reinforcement: 304 Stainless Steel Braid

Fittings
- PAGE Fittings – pg. E-65

OBSOLETE

Operating Parameters
- Temperature Range:
  -100°F (-73°C) to 500°F (260°C)
- Change in length at Max. Working Pressure: +2% to -4%
- Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)
- Pressure ratings based on 73°F (23°C)
- Decrease working pressure 1% for every 2°F above 212°F

Notes
- Factory-made assemblies only
- See pg. A-21 for part numbering system
- **Cannot be used with 93N Series Fittings**
- *Vacuum wire recommended to achieve 28 inch rating

Series SCWV/SCBV

Visit the webpage

Part Number		Nominal I.D.		Maximum O.D.		Max. Working Pressure 73°F/ 23°C		Minimum Bend Radius		Vac. Rating	Weight	
Natural	Static-Dissipative	inch	mm	inch	mm	psi	MPa	inch	mm	Hg/73F	lbs./ft.	kg/mtr
08-SCWV	08-SCBV	1/2	12.7	0.76	19.3	1,500	10.3	2	51.0	28	0.17	0.26
12-SCWV	12-SCBV	3/4	19.1	1.05	26.6	1,200	8.3	2-3/4	70.0	28	0.33	0.49
16-SCWV	16-SCBV	1	25.4	1.27	32.2	1,000	6.9	4	102.0	28	0.37	0.55
20-SCWV	20-SCBV	1-1/4	31.8	1.67	42.4	750	5.2	5-1/2	140.0	28	0.56	0.83
24-SCWV	24-SCBV	1-1/2	38.1	1.94	49.2	650	4.5	7	178.0	28	0.64	0.95
32-SCWV	32-SCBV	2	50.8	2.49	63.2	450	3.1	8-1/2	216.0	28	0.84	1.24
40-SCWV	40-SCBV	2-1/2	63.5	3.29	83.5	200	1.4	12	305.0	28*	1.52	2.26
48-SCWV	48-SCBV	3	76.2	3.83	97.3	175	1.2	14	356.0	28*	1.82	2.71

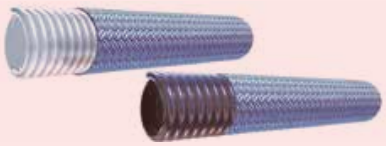
⚠ WARNING
This product can expose you to chemicals including Tetrafluoroethylene, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Updated August 6, 2025

PCW/PCB – Convoluted PTFE Hose, Polypropylene Braid

PTFE Core Tube

Polypropylene adds personal handling safety.



Features

- Excellent corrosion resistance
- Seamless
- Open pitch
- Self draining
- Withstands extreme flexing
- Environmentally safe; low effusion
- Long life expectancy

Compliance

- FDA CFR21 Part 177 compliant core - PCW
- USP Class VI compliant core

Construction

- Tube: PCW - Natural FDA Compliant PTFE
  PCB - Black Static-Dissipative PTFE
- Reinforcement: Polypropylene Braid

Fittings

- PAGE Fittings – pg. E-65
- Uses crimp collar PC300, see pg. E-66
- For most Parker products, Crimp Die Selection charts are found online at www.parker.com/crimpsource
- Access instructions are on pg. G-3

Operating Parameters

- Temperature Range:
  0°F (18°C) to 212°F (100°C)
- Change in length at Max. Working Pressure: +2% to -4%
- Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)
- Pressure ratings based on 73°F (23°C)
- Decrease working pressure 1% for every 2°F above 212°F

Notes

- Not suggested for steam-cold water cycling applications
- See pg. A-21 for part numbering system
- Cannot be used with 93N series fittings

OBSOLETE

Series PCW/PCB

Visit the webpage

Part Number		Nominal I.D.		Maximum O.D.		Maximum Working Pressure		Minimum Bend Radius		Vac. Rating	Weight		Permanent Fitting Series
Natural	Static-Dissipative	inch	mm	inch	mm	psi	MPa	inch	mm	Hg/73F	lbs./ft.	kg/mtr	
04-PCW	04-PCB	1/4	6.4	0.56	14.2	350	2.4	3/4	19.0	28	0.03	0.05	PAGE
06-PCW	06-PCB	3/8	9.5	0.65	16.5	350	2.4	1	25.0	28	0.06	0.09	PAGE
08-PCW	08-PCB	1/2	12.7	0.85	21.6	300	2.1	1-1/2	38.0	28	0.15	0.22	PAGE
12-PCW	12-PCB	3/4	19.1	1.17	29.7	250	1.7	2	51.0	28	0.18	0.27	PAGE
16-PCW	16-PCB	1	25.4	1.52	38.6	250	1.7	2-1/2	64.0	28	0.26	0.39	PAGE
20-PCW	20-PCB	1-1/4	31.8	1.94	49.3	200	1.4	3	76.0	28	0.37	0.55	PAGE
24-PCW	24-PCB	1-1/2	38.1	2.14	54.4	200	1.4	3-3/4	95.0	28	0.42	0.63	PAGE
32-PCW	32-PCB	2	50.8	2.67	67.8	200	1.4	4-3/4	121.0	28	0.56	0.83	PAGE

⚠ WARNING

This product can expose you to chemicals including Tetrafluoroethylene, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

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NCW/NCB – Convoluted PTFE, Nomex® Braid
PTFE Core Tube

Eliminates RFI issues.



Features

- Very light weight
- Superior flexibility
- Kink and vacuum resistant
- Eliminates RFI issues



Compliance

- FDA CFR21 Part 177 compliant core - NCW
- USP Class VI compliant core

Construction

- Tube: NCW - Natural FDA Compliant PTFE
  NCB - Black Static-Dissipative PTFE
- Reinforcement: Nomex braid

Fittings

- PAGE Fittings – pg. E-65

Operating Parameters

- Temperature Range:
  -100°F (-73°C) to 400°F (204°C)
- Change in length at Max. Working Pressure: +2% to -4%
- Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)
- Pressure ratings based on 73°F (23°C)
- Decrease working pressure 1% for every 2°F above 212°F

Notes

- Factory-made assemblies only
- NCB (Static Dissipative) tube I.D. surface only
- NCB Conductive Spec - Must conduct 20 microamps 1000 VDC potential 14" sample
- See pg. A-21 for part numbering system
- **Cannot be used with 93N series fittings**

Color

- Green

Series NCW/NCB

Visit the webpage

Part Number		Nominal I.D.		Maximum O.D.		Max. Working Pressure 73°F/ 23°C		Minimum Bend Radius		Vac. Rating	Weight	
Natural	Static-Dissipative	inch	mm	inch	mm	psi	MPa	inch	mm	Hg/73F	lbs./ft.	kg/mtr
04-NCW	04-NCB	1/4	6.4	0.48	12.2	725	5.0	1	25.0	28	0.02	0.03
06-NCW	06-NCB	3/8	10	0.58	14.7	400	2.8	1-1/2	38.0	28	0.06	0.09
08-NCW	08-NCB	1/2	12.5	0.77	19.5	280	1.9	2	51.0	28	0.08	0.12
12-NCW	12-NCB	3/4	19	1.05	26.7	200	1.4	2-1/2	64.0	28	0.14	0.21
16-NCW	16-NCB	1	25	1.33	33.8	200	1.4	4	102.0	28	0.22	0.32

Nomex® is a registered trademark of E. I. du Pont de Nemours and Company.

⚠ WARNING

This product can expose you to chemicals including Tetrafluoroethylene, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

2245N - High Pressure Hose
Polyamide Core Tube

Excellent chemical resistance.



Features
- Excellent chemical resistance
- Use for high pressure service

Compliance
- Meets/Exceeds
  - SAE J517 100R2AT performance
  - ISO 1436, Type 2SN

Construction
- Tube: Polyamide
- Reinforcement: Two spiral layers of high tensile steel wire, one braided layer of steel wire
- Cover: V00 = Polyurethane, V30 = Polyamide

Fittings
- 43 Series - Fittings available from Parker Hose Products Division
- For most Parker products, Crimp Die Selection charts are found online at www.parker.com/crimpsource
- Access instructions are on pg. G-3

Operating Parameters
- Temperature Range:
  Petroleum or synthetic hydraulic fluids -40°F (-40°C) to 212°F (100°C)
- Change in length at Max. Working Pressure: +2% to -4%
- Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

Notes
- Non-perforated cover
- Factory made assemblies will utilize NX-series fittings only (reference catalog 4900 for additional information)

Series 2245N

Visit the webpage

Part Number	Nominal I.D.		Maximum O.D.		Maximum Working Pressure		Minimum Bend Radius		Weight		Permanent Fitting Series
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs./ft.	kg/mtr	
2245N-04V00	1/4	6.3	.50	12.6	6,525	45.0	2-3/4	70	0.17	0.25	43 / NX
2245N-06V30	3/8	10	.67	17.0	5,440	37.5	4-3/4	120	0.28	0.42	43 / NX
2245N-08V00	1/2	12.5	.82	21.0	5,075	35.0	6-1/2	165	0.35	0.52	43 / NX
2245N-10V30	5/8	16	.97	24.7	4,785	33.0	7-7/8	200	0.48	0.72	43 / NX
2245N-12V30	3/4	19	1.13	28.5	4,350	30.0	9-1/2	240	0.62	0.92	43 / NX

⚠ WARNING
This product can expose you to chemicals including Antimony Oxide (Antimony Trioxide), which is known to the State of California to cause cancer, and 2-Imidazolidinethione, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

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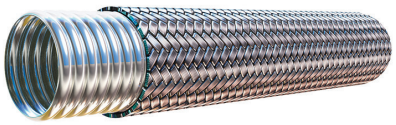
Metal Hose
9A, 9M, 9P

Operates up to 1200°F (648°C).



Features

- Hydroformed or crimp formed annular core tube
- High percentage braid coverage for better life cycle and protection against core damage
- 9A - General Purpose - up to 2,700 psi working pressures
- 9M - Ultra Flexible - Compressed corrugations for increased flexibility, up to 2,700 psi working pressure
- 9P - High Pressure - up to 6,000 psi working pressure, Parker's highest pressure metal hose construction

See CATALOG 4690MH for technical information

Construction

- Tube: 300 series SS
- Reinforcement: 300 series SS braid: 0, 1or 2 layers

Operating Parameters

- Temperature Range:
  -380°F (-228°C) to 1200°F (648°C)

Typical Applications

- Chemical transfer
- Diesel engine exhaust
- Hot oil and lube lines
- Loading/unloading of light oils, gas, and chemicals
- Petrochemical
- Power Gen
  - Connections for the fuel rail to the combustion cans on gas turbine fuel lines
  - Pump connections
- Pulp & Paper
- Solvent and steam lines

- For technical information, download CAT 4690



⚠ WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Multitube® Hoses

BOP Bundles, Electro-Hydraulic Umbilicals and Hotlines

Over 750,000 feet of bundles in service.
Over 40 million feet of pilot hose produced.



Features

- Dependability and Experience - Over 30 years of Oil & Gas thermoplastic hose design and engineering experience
- Field Tested - Over 750,000 feet of bundles and over 40 million feet of pilot hose produced for rigs
- Capabilities - BOP umbilical lengths up to 7,000+ ft and 90+ pilot hoses within one umbilical
- Extended Service Life - Compact pilot hose design allows for more spares to be installed in the bundle without increasing the O.D.

For technical information, contact customer services.



BOP Umbilicals with Velocity Hose

- BOP umbilicals are used on offshore drilling rigs to control the subsea BOP stack
- Parker's BOP have a smaller O.D. which means Parker can produce BOP umbilicals with more pilot lines without increasing the O.D. of the umbilical
- Parker umbilicals are built with Velocity Hose to allow for precise control and faster response times when activating subsea valves on the BOP pod



Electro-Hydraulic Umbilicals

- Parker is an industry leader in designing short length electro-hydraulic umbilicals for offshore applications
- Parker high-pressure subsea hoses, (1/4", 3/8" and 1/2" I.D.), are in compliance to API 17e and pressure ratings up to 15,000 psi. These hoses can be combined into an umbilical configuration with electrical power cables included



Hotline Hose

- Subsea Hotline's are the primary emergency hydraulic control line providing critical service for various subsea functions
- Parker Hotline hoses are specially designed to provide fast response time and low volumetric expansion with length capability of 14,000 feet continuous

⚠ WARNING

This product can expose you to chemicals including Tetrafluoroethylene, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

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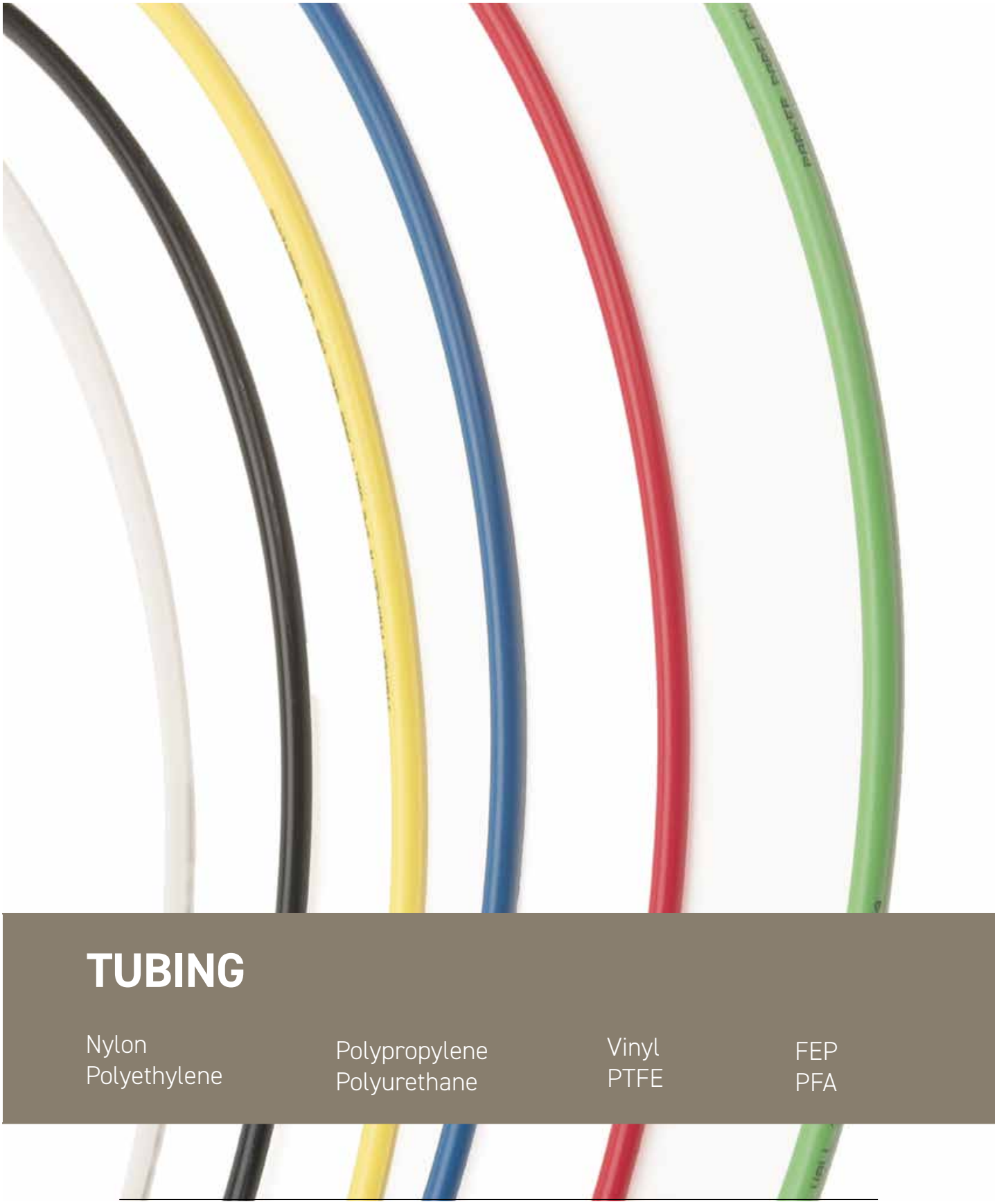

TUBING

Nylon
Polyethylene

Polypropylene
Polyurethane

Vinyl
PTFE

FEP
PFA

Updated August 6, 2025

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POLYVINYL CHLORIDE (VINYL) TUBING

PV Tubing Instrument Grade B-41

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CORRUGATED TUBING

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Updated August 6, 2025

Material Property Overview

Thermoplastic
Quick Reference

PE (Polyethylene)
Working Temperature: 150°F (66°C)

Series E/EB
- Chemical resistant
- Economical system solution
- FDA/NSF Compliant
- Resistant to environmental stress cracking

Series PEFR
- Flame resistant
- High strength & excellent flexibility
- Resistant to environmental stress cracking

Series HDPE
- Chemical resistant
- Economical system solution
- Improved burst pressure rating than LLDPE resin
- Working Temperature 175°F (80°C)

Nylon
Working Temperature: 200°F (93°C)

Series N/NB
- Abrasion resistant
- Flexible
- Heat and light stabilized
- Low moisture absorption
- Chemical resistant

Series PAT
- Chemical resistant
- UV light resistant
- Low moisture absorption
- High tensile strength

Series NR/NBR
- Unplasticized nylon for higher pressure tubing applications
- Chemical resistant
- Low moisture absorption
- High tensile strength

PP (Polypropylene)
Working Temperature: 200°F (93°C)

Series PP/PPB
- Acid & chemical resistant
- Low moisture absorption (less than .01%)
- Resistant to environmental stress cracking
- Higher working pressures/temperatures than PE tubing

PU (Polyurethane)
Working Temperature: 180°F (82°C)

Series 95U/95UM
- 95 Shore A durometer
- Excellent abrasion and kink resistance
- Excellent moisture resistance
- UV resistant
- Exhibits the elongation and recovery characteristics of rubber and the chemical resistance of a thermoplastic

Series 95FR
- 95 Shore A durometer
- Weld spatter resistant
- Flame & weld spatter resistant
- Silicone and halogen free
- Excellent flexibility
- Working Temperature 165°F (75°C)

Tubing specifications are located on page B-6

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Material Property Overview

Fluoropolymer
Quick Reference

PTFE (Polytetrafluoroethylene)
Working Temperature: 500°F (260°C)
Color: Opaque to translucent

- Chemically inert
- Lowest coefficient of friction
- Superior dielectric strength
- Exceptional heat resistance
- Self extinguishing
- Non-wetting
- Excellent flexlife
- Laser markable

PFA (Perfluoroalkoxy)
Working Temperature: 500°F (260°C)
Color: Clear with light blue or tint

- High purity resins available
- Low permeation resins available
- Use when you need the temperature range of PTFE and the clarity of FEP
- Exceptional heat resistance
- Self extinguishing
- Non-wetting
- Good flexlife

FEP (Fluorinated Ethylene Propylene)
Working Temperature: 400°F (204°C)
Color: Clear

- Excellent chemical resistance
- Non-wetting
- Weldable
- Tubes can be sealed by melting
- Long continuous lengths
- Low refractive index
- Improved clarity over PFA
- Lower cost alternative to PFA

Fluoropolymer
Chemical Resistance Summary

Within normal use, temperatures, fluoropolymers are attacked by so few chemicals that it is easier to describe the exceptions rather than list the chemicals they are compatible with.

DO NOT USE FLUOROPLASTICS WITH THE FOLLOWING:

- Alkali metals such as elemental sodium, potassium, lithium, etc. The alkali metals remove fluorine from the polymer molecule.
- Extremely potent oxidizers, fluorine (F2) and related compounds (e.g., chlorine trifluoride, ClF3). These can be handled by fluoropolymers, but only with great care, as fluorine is absorbed into the resins, and the mixture becomes sensitive to a source of ignition such as impact.
- 80% NaOH (Sodium Hydroxide) or KOH (Potassium Hydroxide), metal hydrides such as Borances (e.g., B2H6), Aluminum Chloride, Ammonia (NH3), certain Amines (R-NH2) and imines (R=NH) and 70% Nitric Acid at temperatures near the suggested service limit.

WARNING

FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS AND/OR SYSTEMS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.

This document and other information from Parker Hannifin Corporation, its subsidiaries and authorized distributors provide product and/or system options for further investigation by users having technical expertise. It is important that you analyze all aspects of your application and review the information concerning the product or system in the current product catalog. Due to the variety of operating conditions and applications for these products or systems, the user, through its own analysis and testing, is solely responsible for making the final selection of the products and systems and assuring that all performance, safety and warning requirements of the application are met.

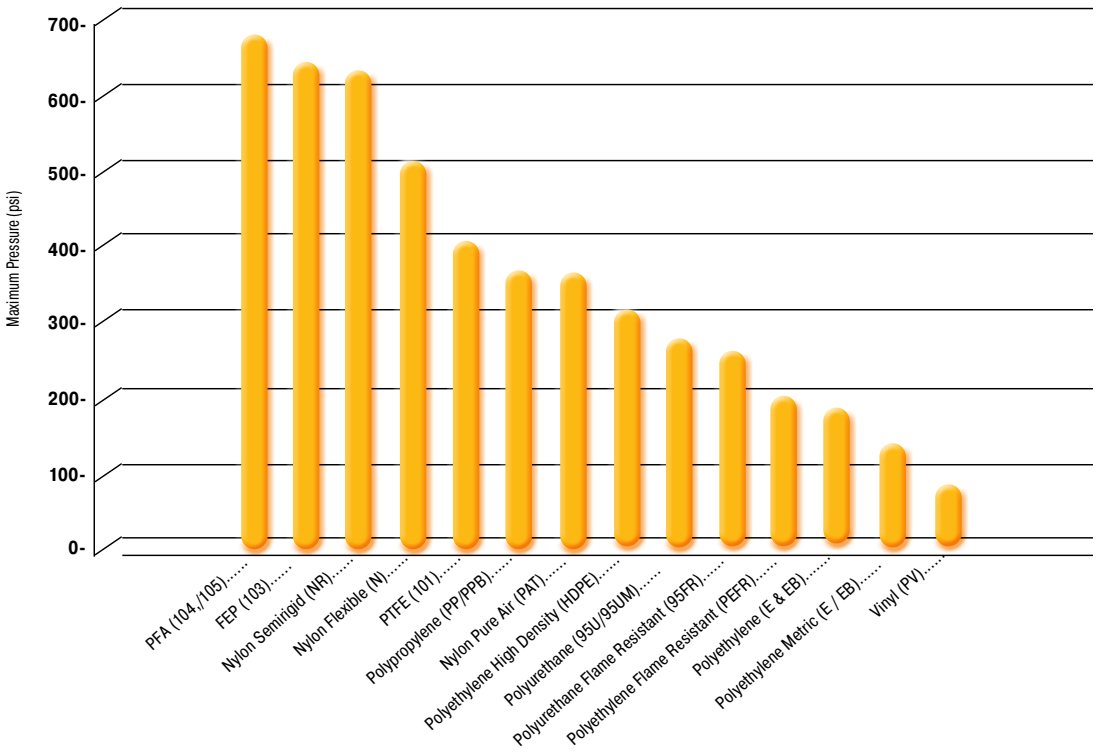
The products described herein, including without limitation, product features, specifications, designs, availability and pricing, are subject to change by Parker Hannifin Corporation and its subsidiaries at any time without notice.

Tubing specifications are located on page B-6

Tubing Specifications

Agency Specifications	Tubing Series
Flame Resistance	
UL 94 V-0	PFA, FEP and PTFE tubing, 95FR Cover
UL 94 V-2	PEFR
UL 94 HB	83FR, NN, NB, NNR, NBR (wall thickness above .033" - contact Parflex for availability)
Food Contact	
FDA, CFR21 Part 177	E, PP, PV, All natural and black PFA, FEP and PTFE tubing products
NSF Standard 51*	E, PP
Potable Water	
NSF Standard 61*	E - Tubing
Aerospace Military Specifications	
AMS 3584A	HS2TFI
AMS 3585	HS2TFT
AMS 3586	HS2TFS
AMS 3653G	TFS, TFL, TFH, TFT
AMS 3655B	TFT
MIL-DTL-27267C	PTFE Conductive Tubing
AS81914/1	81914/1 Dimensionally compliant only
AS81914/2	81914/2 Dimensionally compliant only
AS81914/3	81914/3 Dimensionally compliant only
AS81914/4	81914/4 Dimensionally compliant only
American Society for Testing and Materials	
ASTM D2116-07	103, 203
ASTM D2902 TYPE I	HS2TFS, HS2TFT, HS2TFL, HS2TFI, HS2TFH
ASTM D2902 TYPE II	HS1.3FEP, HS1.6FEP, HS1.25FEP
ASTM D3295	TSWTF
ASTM D3295, Class 1	TFL
ASTM D3295, Class 2	TFT
ASTM D3295, Class 3	TFS
ASTM D3295, Class 4	TFH
ASTM D3296-03	HS1.3FEP, HS1.6FEP, CV (FEP), 81914/3, 81914/4, CR (FEP), 703
ASTM D3307-10	104, 204, 105, 205, CR (PFA), 704, 705
Canadian Standards Association	
CSA 9032-01 300V	TFT (awg)
CSA 9032-01 600V	TFS (awg)
United States Pharmacopeia	
USP Class VI	101, 201, TFS, TFL, TFH, TFT, HS2TFS, HS2TFT, HS2TFL, HS2TFI, HS2TFH, CV, CVL, CVH, 103, 203, HS1.3FEP, HS1.6FEP, CR, 104, 204, 105, 205

Tubing Pressures
Ranges



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Tubing Compatibility Chart

Tubing/Hose Capability with Parker FSC Fittings

		Thermoplastic and Thermo-elastomer Tubing										
		Industrial Tubing Series (Outside Diameter (O.D.) Shown)										
	Product Sizes (inch)	Polyethylene E & EB Inch (4,5,6,8,10) Metric (6,8,10,12)	Polyethylene PEFR Inch (2.5,4,6,8)	Polyethylene HDPE Inch (4,6)	Nylon N Inch (2,2.5,3,4,5,6,8)	Nylon PAT Inch (2,4,6,8,12)	Nylon NR/NBR Inch (2,3,4,5,6,8)	Polypropylene PP & PPB Inch (2,3,4,6,8,10)	Polyurethane 95U & 95UM (90 - 95 Shore A) Inch (2,2.5,4,6,8,12) Metric (4,6,8,10,12)	Polyurethane MicroWeld™ 95FR Inch (4,6,8) Metric (6,8,10,12)	Clear Vinyl Inch (1/8" - 2 1/2")	
Compression & Flare	Compression Inch (2,3,4,5,6,7,8,10,12)	PS TS	PS TS	PS TS	PS TS	PS TS	PS TS	PS TS				
	Compress-Align Inch (2,3,4,5,6,8,10,12,14,16)	TS	TS	TS	TS	TS	TS	TS				
	Metric Compression Metric (4,5,6,8,10,12,14,16,18,20,22,25,28)	TS			TS		TS	TS	TS			
	Poly-Tite Inch (4,5,6,8)				BS			BS				
	Hi-Duty Inch (2,3,4,5,6,8,10)	TS	TS	TS	TS	TS	TS	TS				
	45 degree flare Inch (2,3,4,5,6,8,10,12,14)											
	Inverted Flare Inch (2,3,4,5,6,8,10,12)											
	Fast & Tite Inch (4,5,6,8,10)								TS		TS	
Push-to-Connect	Flow Controls Inch (2,2.5,4,5,6,8) Metric (4,6,8,10,12)								TS			
	Prestolok PLP Metal Inch (2,2.5,3,4,5,6,8)											
	Prestolok PLP Composite Inch (2,2.5,3,4,5,6,8,10) Metric (3,4,6,8,10,12,14,16)								TS			
	Prestolok PLM Metal Inch (2.5,4,5,6,8) Metric (4,6,8,10,12,14)											
	Prestolok PLS Stainless Steel Inch (2.5,3,4,5,6,8) Metric (4,6,8,10,12)											
	Liquifit Inch (2.5,4,6,8) Metric (4,6,8,10,12)											
	TrueSeal Inch (4,5,6,8)						MG	MG	TS		TS	
Barb	Par-Barb Inch (2,3,4,5,6,8,10,12,16,20,24) Inside Diameter										CL	
	Dubl-Barb Inch (2.5,4,6,8)											
	Hose Barb Inch (2,3,4,5,6,8,10,12,16) Inside Diameter										CL	
	Garden Hose										CL	
DOT Transportation	NTA Inch (3,4,6,8,10,12)											
	Transmission Fittings Inch (2,2.5)											
	Air Brake Inch (4,6,8,10,12,16)											
	Air Brake Hose Inch (6,8)											
	Vibra-Lok Inch (2,3,4,5,6,8,10,12)											
	Prestomatic Inch (4,6,8,10) Metric (6,8,10,12,16)											
	PTC Inch (2.5,3,4,6,8,10,12)											
	SAE Cartridges Inch (4,6,8,10)											

Updated August 6, 2025

Tubing Compatibility Chart for Fittings

Tubing/Hose Capability with Parker FSC Fittings

	Thermoplastic Tubing				Fluoropolymer Tubing			
	Transportation Tubing							
	PFT Air Brake (SAE J844) Inch (2,2.5,3,4,5,6,8,10,12)	Air Brake DIN 74324 (Nylon 12) Metric (4,6,8,10,12,15,16,18)	PFT Diesel Fuel Sizes 4,6,8,10,12	HTFL Diesel Fuel Sizes 4,6,8,10,12	PFA Fluoropolymer Inch (3/32" - 1") Metric (4mm - 12mm)	FEP Fluoropolymer Inch (1/8" - 1") Metric (3mm - 12mm)	PTFE Fluoropolymer Inch (3/32" - 1") Metric (3mm - 16mm)	Product Sizes (inch)
					PS TS	PS TS	PS TS	Compression Inch (2,3,4,5,6,7,8,10,12)
					TS	TS	TS	Compress-Align Inch (2,3,4,5,6,8,10,12,14,16)
					TS	TS	TS	Metric Compression Metric (4,5,6,8,10,12,14,16,18,20,22,25,28)
								Poly-Tite Inch (4,5,6,8)
								Hi-Duty Inch (2,3,4,5,6,8,10)
								45 degree flare Inch (2,3,4,5,6,8,10,12,14)
								Inverted Flare Inch (2,3,4,5,6,8,10,12)
								Fast & Tite Inch (4,5,6,8,10)
								Flow Controls Inch (2,2.5,4,5,6,8) Metric (4,6,8,10,12)
								Prestolok PLP Metal Inch (2,2.5,3,4,5,6,8)
								Prestolok PLP Composite Inch (2,2.5,3,4,5,6,8,10) Metric (3,4,6,8,10,12,14,16)
								Prestolok PLM Metal Inch (2.5,4,5,6,8) Metric (4,6,8,10,12,14)
								Prestolok PLS Stainless Steel Inch (2.5,3,4,5,6,8) Metric (4,6,8,10,12)
								Liquifit Inch (2.5,4,6,8) Metric (4,6,8,10,12)
					MG	MG	MG	TrueSeal Inch (4,5,6,8)
								Par-Barb Inch (2,3,4,5,6,8,10,12,16,20,24) Inside Dia.
								Dubl-Barb Inch (2.5,4,6,8)
								Hose Barb Inch (2,3,4,5,6,8,10,12,16) Inside Diameter
								Garden Hose
								NTA Inch (3,4,6,8,10,12)
								Transmission Fittings Inch (2,2.5)
								Air Brake Inch (4,6,8,10,12,16)
								Air Brake Hose Inch (6,8)
								Vibra-Lok Inch (2,3,4,5,6,8,10,12)
								Prestomatic Inch (4,6,8,10) Metric (6,8,10,12,16)
								PTC Inch (2.5,3,4,6,8,10,12)
								SAE Cartridges Inch (4,6,8,10)

Compression & Flare

Push-to-Connect

Barb

DOT Transportation

Tube Line Fabrication Guide for Leak Free Systems

Every hydraulic, pneumatic and lubrication system requires some form of tube line fabrication and fitting installation for completion. Proper fabrication and installation are essential for the overall efficiency, leak free performance, and general appearance of any system. Start by planning ahead. After sizing the tube lines and selecting the appropriate style of fitting, consider the following in the design of your system:

1. Accessibility of joints
2. Proper routing of lines
3. Adequate tube line supports
4. Available fabricating tools

PS	Plastic Sleeve & Tube Support Recommended
TS	Tube Support Is Recommended
BS	Brass Sleeve Recommended
CL	Clamp Required
MG	Metal Gripper Collet Recommended
	Tube/Fitting Combination Compatible
	Tube/Fitting Combination NOT Compatible

For technical information, download FSC CAT 3501



Updated August 6, 2025

Materials to Parflex Tubing

Materials to Parflex Thermoplastic Tubing

Material Code for Hose Core Tubes	Material Name	Hose
HDPE	High Density Polyethylene	HDPE
N	Flexible Nylon	N
NR	Unplasticized Nylon (semi-rigid)	NR
PE	Linear Low Density Polyethylene	E
PEFR	Flame Resistant Polyethylene	PEFR
PP	Polypropylene	PP
PV	Flexible Polyvinyl Chloride (PVC)	PV
U	Polyurethane	95U/95UM, 95FR/95FRM

Materials to Parflex Fluoropolymer Tubing

Material Code for Hose Core Tubes	Material Name	Hose
FEP	Fluorinated Ethylene Propylene	103, 203, HS1.3FEP, HS1.6FEP, CV03, CR03, 81914/3, 81914/4
PFA	Perfluoroalkoxy	104, 204, 105, 205, CV04, CR04, 704, 705
PTFE	Polytetrafluoroethylene	AWG TFL, AWG TFS, AWG TFT, AWG TFH, 101, 201, HS2TFS, HS2TFT, HS2TFL, HS2TFI, HS4TFI, CV01, CVL, CVH, 81914/1, 81914/2

Rating Codes:

- G Good to excellent. Little or no swelling, tensile or surface changes. Preferred choice.
- L Marginal or conditional. Noticeable effects but not necessarily indicating lack of serviceability. Further testing suggested for specific application. Very long-term effects such as stiffening or potential for crazing should be evaluated.
- P Poor or unsatisfactory. Not recommended without extensive and realistic testing.
- — Indicates that this was not tested.
- # For fluoropolymer. Indicates good chemical resistance but potential for excessive permeation.
- 2 See notes pg. B-13.
- 5 See notes pg. B-13.
- 6 See notes pg. B-13.

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Media to Plastic Tubing Material Compatibility Guide

Media to Plastic Tubing Material

Media	PE	HDPE	PP	N	NR	PV	U	PEFR	FEP	PFA	PTFE
Acetone	P	L	G	G	G	P	P	L	G	G	G
Acetyl Bromide	L	L	L	P	P	P	-	-	-	-	-
Acetyl Chloride	L	L	L	P	P	P	-	-	G	G	G
Air	G	G	G	G	G	G	G	G	G	G	G
Alcohols	G	G	G	G	G	L	L	G	G	G	G
Aluminum Salts	G	G	G	G	G	G	G	G	-	-	-
Ammonia	G	G	G	G	G	G	G	L	-	-	-
Amyl Acetate	G	G	G	G	G	P	L	-	G	G	G
Aniline	L	G	L	P	P	P	P	-	G	G	G
Animal Oils (6)	P	L	L	G	G	G	G	-	-	-	G
Arsenic Salts	G	G	G	G	G	G	G	G	-	-	-
Aromatic Hydrocarbons	P	L	L	G	G	P	L	P	-	-	G
Barium Salts	G	G	G	G	G	G	G	G	-	-	-
Benzaldehyde	P	L	L	L	L	P	L	P	G	G	G
Benzene	P	L	L	G	G	P	L	P	G	G	G
Benzyl Alcohol	P	G	L	L	L	G	L	P	G	G	G
Bleaching Liquors	G	L	G	L	L	L	L	-	-	-	-
Boric Acid Solutions	G	G	G	G	G	G	G	G	G	G	G
Bromine	L	L	P	P	P	P	P	-	G	L	G
Butane (2)	L	G	G	G	G	L	P	-	#	#	#
Butanol	G	G	G	G	G	G	G	G	-	-	-
Butyl Acetate	G	G	L	G	G	P	L	G	G	G	G
Calcium Hypochlorite	L	L	P	P	L	L	P	L	G	G	G
Calcium Salts	G	G	G	G	G	G	G	G	-	-	-
Carbon Dioxide	G	G	G	G	G	G	G	G	#	#	#
Carbon Disulfide	L	L	L	L	L	P	L	-	#	#	#
Carbon Tetrachloride	P	P	L	L	L	L	P	P	G	G	G
Caustic Potash	G	G	G	G	G	L	G	-	G	G	G
Caustic Soda	G	G	G	G	G	L	G	-	G	L	G
Chloracetic Acid	L	G	L	L	L	P	P	-	G	L	G
Chlorine (Dry)	L	L	L	P	P	G	P	-	#	#	#
Chlorine (Wet)	L	L	L	P	P	G	L	-	G	G	G
Chlorobenzene	P	L	L	L	L	P	L	P	G	G	G
Chloroform	P	L	P	P	P	P	P	P	G	G	G
Chromic Acid	L	L	L	P	P	G	P	-	L	G	G
Copper Salts	G	G	G	G	G	G	G	G	-	-	-
Cresol	P	L	L	P	P	L	P	P	G	G	G
Cyclohexanone	L	L	L	L	L	P	P	-	G	G	G
Ethers	L	L	P	G	G	L	P	-	G	G	G
Ethyl Acetate	G	G	G	G	G	P	L	-	G	G	G
Ethyl Alcohol	G	G	G	L	L	L	G	G	-	-	-
Ethylamine	L	G	L	L	L	P	L	-	-	-	-
Ethyl Bromide	P	L	L	L	L	P	-	P	-	-	-
Ethyl Chloride	P	L	P	L	L	P	-	P	G	G	G
Fatty Acids	L	L	L	G	G	L	L	P	G	G	G

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Media to Plastic Tubing Material Compatibility Guide

Media to Plastic Tubing Material

Media	PE	HDPE	PP	N	NR	PV	U	PEFR	FEP	PFA	PTFE
Ferric Salts	G	G	G	G	G	G	G	-	-	-	-
Formaldehyde	G	G	G	L	L	L	P	-	G	G	G
Formic Acid	G	G	G	P	P	G	P	G	G	G	G
Freon	L	L	L	G	G	P	L	-	#	#	#
Gasoline (2)	P	G	L	G	G	P	L	P	G	G	G
Glucose	G	G	G	G	G	G	G	G	G	G	G
Glycerin	G	G	G	G	G	G	L	G	G	G	G
Hydriodic Acid	L	G	G	P	P	G	-	-	-	-	-
Hydrochloric Acid. (Conc.)	L	G	G	L	L	L	P	-	G	L	G
Hydrochloric Acid. (Med. Conc.)	L	G	G	L	L	L	P	-	G	L	G
Hydrofluoric Acid	L	L	G	P	P	L	P	-	G	-	G
Hydrogen Peroxide (Conc.)	L	G	L	L	L	L	G	-	-	-	-
Hydrogen Peroxide (Dil.)	L	G	L	G	G	G	G	-	-	-	-
Hydrogen Sulfide	G	G	G	G	G	G	P	-	G	G	G
Iodine	L	G	G	G	G	L	L	-	G	G	G
Kerosene (2)	L	L	L	G	G	L	L	-	G	G	G
Ketones	G	G	G	G	G	P	P	-	G	G	G
Lacquer Solvents	L	L	L	G	G	P	-	-	L	G	G
Lactic Acid	G	G	G	G	G	G	G	-	G	G	G
Lead Acetate	G	G	G	G	G	G	G	-	G	G	G
Linseed Oil	L	G	G	G	G	L	G	-	G	G	G
Magnesium Salts	G	G	G	G	G	G	G	-	-	-	G
Naphtha	L	L	L	G	G	P	L	G	G	G	G
Natural Gas	L	L	L	G	G	G	G	-	(2)	(2)	(2)
Nickel Salts	G	G	G	G	G	G	G	-	-	-	-
Nitric Acid (Conc.)	P	L	P	P	P	L	P	G	L	L	G
Nitric Acid (Dil.)	P	G	L	L	L	G	P	P	L	L	G
Nitrobenzene	P	L	G	L	L	P	P	P	G	G	G
Nitrogen Oxides	L	L	G	L	L	G	-	-	-	-	-
Nitrous Acid	L	L	G	L	L	G	L	-	G	G	G
Oils (Animal and Mineral)	L	L	L	G	G	L	G	-	G	G	G
Oils (Vegetable)	L	L	L	G	G	L	G	-	G	G	G
Oxygen (5) (6)	G	G	G	G	G	G	G	G	G	G	G
Perchloric Acid	P	G	L	P	P	L	P	P	L	G	G
Phenols	P	G	G	P	P	L	P	P	-	-	G
Potassium Salts	G	G	G	G	G	G	G	G	-	-	-
Pyridine	L	L	L	L	L	P	P	-	G	G	G
Silver Nitrate	G	G	G	G	G	G	G	G	G	G	G
Soap Solutions	G	G	G	G	G	G	G	G	G	G	G
Sodium Salts	G	G	G	G	G	G	G	G	-	-	-
Stearic Acid	L	L	L	G	G	P	L	-	G	G	G
Sulfur Chloride	L	L	P	L	L	L	-	-	G	G	G
Sulfuris Acid (Conc.)	P	G	G	P	P	L	P	P	-	-	-
Sulfuris Acid (Dil.)	P	G	G	L	L	G	L	P	-	-	-
Sulfurous Acid	P	G	L	L	L	G	L	P	G	G	G

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Updated August 6, 2025

Media to Plastic Tubing Material Compatibility Guide

Media to Plastic Tubing Material

Media	PE	HDPE	PP	N	NR	PV	U	PEFR	FEP	PFA	PTFE
Tannic Acid	G	G	G	G	G	G	P	-	G	G	G
Tanning Extracts	G	G	G	G	G	G	P	-	-	-	-
Titanium Salts	G	G	G	G	G	G	G	G	-	-	-
Toluene	P	L	P	G	G	P	L	P	G	G	G
Trichloroacetic Acid	L	L	L	P	P	P	P	-	-	-	-
Trichloroethylene	P	L	P	L	L	P	P	P	G	G	G
Turpentine	P	P	L	G	G	L	L	-	G	G	G
Urea	G	G	G	G	G	G	G	-	G	L	G
Uric Acid	G	G	G	G	G	G	G	-	G	G	G
Water (6)	G	G	G	G	G	G	G	G	G	G	G
Water / Glycol Mixture	G	G	G	G	G	G	G	G	G	G	G
Xylene	P	L	P	G	G	P	P	P	G	G	G
Zinc Chloride	G	G	G	G	G	G	G	-	G	L	G

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Notes:

The Fluid Compatibility Guides are simplified rating tabulations based on immersion tests at 75°F. Higher temperatures tend to reduce ratings. Since final selection depends on pressure, fluid and ambient temperature and other factors not known to Parker Hannifin Co., no performance guarantee is expressed or implied. Ratings do not imply compliance with specialized codes such as FDA, NSF, AGA or UL and do not cover possible fluid discoloration, taste or odor effects. For conveying foodstuffs, use FDA sanctioned materials and for potable water, use NSF listed materials. For chemicals not listed, or for advice on particular applications, please consult Product Engineering, Parflex Div., Ravenna, Ohio,

1. (2) Tubing applications for these fluids must take into account legal and insurance regulations. This does not imply AGA or UL compliance.

2. (5) Chemical compatibility does not imply low permeation rates. Consult the Parker factory for a suggestion for your specific requirement.

3. (6) Does not imply NSF or FDA compliance.

4. Chemical compatibility does not imply acceptability for use in airless paint spray applications. These applications require a special conductive tube.

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Nomenclature
Thermoplastic Tubing
Nylon & Polyurethane: Series N, NR, PAT, 95U, 95UM, 95FR





Product Family

Nylon
NN = Nylon
NB = Nylon, Black
PAT = Nylon, Pure Air Tubing*
NBR - Nylon, Semi-rigid black
NNR - Nylon, Semi-rigid

Polyurethane
95U = Polyurethane, 95 Durometer
95UM = Polyurethane, 95 Durometer, Metric
95FR = Polyurethane, MicroWeld Flame Resistant
95FRM = Polyurethane, MicroWeld Flame Resistant, Metric

Tube Size O.D.

See Selection Charts

Imperial
2 = .125
2.5 = .156
3 = .188
4 = .250
5 = .313
6 = .375
8 = .500
10 = .625
12 = .750

Metric Example
.65 = .65 mm
14 = 14 mm

Tube Wall Thickness

See Selection Charts

Imperial Example
016 = .016
124 = .124

Metric Example
.65 = .65 mm
14 = 14 mm

Tubing Color Nylon*

See Selection Charts

NN = Natural
NB = Black
BLU = Blue
GRN = Green
RED = Red
YEL = Yellow

Note: Parflex standard color is natural

Tubing Color Polyurethane

See Selection Charts

Blank = Natural
BLK = Black
BLU = Blue
GRA = Gray
GRN = Green
RED = Red
WHT = White
YEL = Yellow
TBL = Transparent Blue
TGN = Transparent Green
TRD = Transparent Red
TYL = Transparent Yellow

Note: Parflex standard color is natural

Tubing Packaging**

See Selection Charts

0100 = 100 ft coil
0250 = 250 ft coil
0500 = 500 ft coil
1000 = 1000 ft coil

*Note: PAT Tubing
Does not have a "-" between the product family and the tube O.D.
Does not have a wall thickness listed.
Has special colors not available in other series BRN = Brown, SIL = Silver, BLK = Black

**Note: Nylon Tubing
Standard 250' package has no length reference.
Contact Parflex Division for additional size/color options.

Example: N-4-035-Red

N-4-035-Red– Nylon
N-4-035-Red– Tube O.D. in sixteenths of an inch (1/4")
N-4-035-Red– Wall Thickness in inches (.035")
N-4-035-Red– Color, i.e. Red (Omit for Natural and Black)
NN-4-035-EZ - 100 ft box, Natural Nylon
NB-4-035-0100 - Black Nylon
N-4-035-Red– Package Quantity in feet (250')

Standard **250'** package has no length reference.
Add -EZ for **100'** boxed coil (NB-**4-035**-EZ)

Example: 95UM-6x1-BLK-0100

95UM-6x1-BLK-0100 – 95 Durometer Polyurethane
95UM-6x1-BLK-0100 – Tube O.D. in millimeters (6mm)
95UM-6x1-BLK-0100 – Tube I.D. in millimeters (1mm)
95UM-6x1-BLK-0100 – Color Black (Omit for Natural)
95UM-6x1-BLK-0100 – Package Quantity in feet (100')

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Nomenclature
Thermoplastic Tubing
Polyethylene, Polypropylene & Vinyl: Series E, EB, PEFR, HDPE, PP, PPB, PV





Product Family	Tube Size O.D.	Tube Size I.D.	Tubing Color*	Tubing Packaging	Tubing Configuration
E = Polyethylene EB = Polyethylene, Black PEFR = Polyethylene, Flame Resistant HDPE = Polyethylene, High Density PP = Polypropylene, White PPB= Polypropylene, Black PV = Vinyl	See Selection Charts Imperial 2 = .125 2.5 = .156 3 = .188 4 = .250 5 = .313 6 = .375 8 = .500 10 = .625 Metric Example 1 = 1mm 1.5 = 1.5mm	See Selection Charts Imperial 2 = .125 2.5 = .156 3 = .188 4 = .250 5 = .313 6 = .375 8 = .500 10 = .625 Metric Example 1 = 1mm 1.5 = 1.5mm	See Selection Charts Blank = Natural Blank = Black B = Blue G = Green GRA = Gray O = Orange P = Purple R = Red Y = Yellow WHT = White	See Selection Charts Lengths 0100 = 100 ft coil 0250 = 250 ft coil 0500 = 500 ft coil 1000 = 1000 ft coil	See Selection Charts NSF = NSF Compliant (add to black part number EB)

*Note: PEFR & HDPE Tubing only available in black.
PV tubing only available in natural color.
Contact Parflex Division for additional size/color options.

Example: E-64-Y-0500

E-64-Y-0500 – Polyethylene

E-64-Y-0500 – Tube O.D. in sixteenths of an inch (3/8")

E-64-Y-0500 – Tube I.D. in sixteenths of an inch (1/4")

E-64-Y-0500 – Color, i.e. Yellow (Omit for Natural and Black)
E-64-0500 – Natural Polyethylene
EB-64-0500 – Black Polyethylene

E-64-Y-0500 – Package Quantity in feet (500')

Example: EB-6X1-0100

EB-6X1-0100 – Polyethylene

EB-6X1-0100 – Tube O.D. in millimeters (6)

EB-6X1-0100 – Wall Thickness in millimeters (1) (Nominal I.D. 4mm)

EB-6X1-0100 – Package Quantity in feet (100')

Example: PEFR-4-0500

PEFR-4-0500 – Flame Resistant Polyethylene

PEFR-4-0500 – Tube O.D. in sixteenths of an inch (1/4")

PEFR-4-0500 – Package Quantity in feet (500')

Example: PP-86-0250

PP-86-0250 – Polypropylene
PP-86-0250 - Natural
PPB-86-0250 -Black

PP-86-0250 – Tube O.D. in sixteenths of an inch (1/2")

PP-86-0250 – Tube I.D. in sixteenths of an inch (3/8")

PP-86-0250 – Package Quantity in feet (250')

Example: PV108-1

PV108-1 – Poly-Vinyl

PV108-1 – Tube O.D. in sixteenths of an inch (5/8")

PV108-1 – Tube I.D. in sixteenths of an inch (1/2")

PV108-1 – Formula V-1 FDA Approved Formulation

Nomenclature
Fluoropolymer Tubing
PTFE, FEP, PFA: Series 101/201, 103/203, 104/204, 105/205, 703/704





Product Family	Resin Family		Tube Size O.D.	Wall Thickness		Tubing Color	Tubing Packaging	
1 = Fractional 2 = Metric 7 = Retractable Coil 9 = Custom	01 = PTFE 03 = FEP 04 = PFA 05 = PFA High Purity	–	See Selection Charts Imperial Example 250 = .250 inch Metric Example 700 = 7 mm	See Selection Charts Imperial Example 062 = .062 inch Metric Example 100 = 1 mm	–	N = Natural 0 = Black 1 = Brown 2 = Red 3 = Orange 4 = Yellow 5 = Green 6 = Blue 7 = Violet 8 = Gray 9 = White	T = Bulk Default Configuration C = Tube Cut Job (followed by cut length in inches)	–

Tube Configuration	Tube Length
Blank = No color C = Solid Color S = Stripe on Tube L = Laser Marked	25 = 25 ft coil 50 = 50 ft coil 100 = 100 ft coil 1000 = 1000 ft coil Blank = No cut xx.xxx = Length (inch)

Note: Parflex standard color is natural. Contact Parflex Division for additional size/color options.

Example: 101-0188062-0TC-100

101-0188062-0TC-100 – PTFE
101-0188062-0TC-100 – Tube O.D. in inches (3/16")
101-0188062-0TC-100 – Tube Wall Thickness in inches (.062")
101-0188062-0TC-100 – Black
101-0188062-0TC-100 – Bulk Tubing
101-0188062-0TC-100 – Solid Color Tube
101-0188062-0TC-100 – Package Quantity in feet (100')

Example: 704-0312062-xx0012

704-0312062-xx0012 – Retractable Tubing
704-0312062-xx0012 – PFA
704-0312062-xx0012 – Tube O.D. in inches (3/16")
704-0312062-xx0012 – Tube Wall Thickness in inches (.062")
704-0312062-xx0012 – Custom Options (when needed)
704-0312062-xx0012 – Length in inches (12")

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Nomenclature
Fluoropolymer Extra Flexible Tubing
PTFE, FEP, PFA: Series CV, CR, 81914





Product Family	Resin Family	–	Tube Size CV/CR	*Tube Size Mil-Spec	–	Tubing Color	Tubing Packaging	–	Tube Length
CV = Convoluted CR = Corrugated 81914 = AMS-T Convo*	01 = PTFE 03 = FEP 04 = PFA 05 = PFA High Purity		1/8 3/16 1/4 5/16 3/8 1/2 5/8 3/4 1 1.25 1.50 2.00 2.50 3.00 4.00	2 = 1/8" 3 = 3/16" 4 = 1/4" 5 = 5/16" 6 = 3/8" 8 = 1/2" 10 = 5/8" 12 = 3/4" 16 = 1" 20 = 1-1/2" 24 = 2-1/4" 32 = 2" 40 = 2-1/2" 48 = 3" 64 = 4"		N = Natural 0 = Black 1 = Brown 2 = Red 3 = Orange 4 = Yellow 5 = Green 6 = Blue 7 = Violet 8 = Gray 9 = White	T = Bulk Default Configuration C = Tube Cut Job (followed by cut length in inches)		Blank = No cut xx.xxx = Length (inch) Cut length - has 4 decimal places for parts under 10 feet, and 5 for 10 feet and over ie. 1200 = 12" ie. 12000 = 120"

Example: CV01-1/8-NT

CV01-1/8-NT – Convoluted
CV01-1/8-NT – PTFE
CV01-1/8-NT – Tube O.D. in inches (1/8")
CV01-1/8-NT – Natural
CV01-1/8-NT – Bulk Tubing "T" is bulk (for cuffed tubing, remove "T" and add length, ie. CV01-1/8-NT-N1200 = 1" Convo, natural, cut 12" long)

Note: Parflex standard color is natural. Contact Parflex Division for additional size/color options.

Example: 81914/1-1010-0TC

81914/1-1010-0TC – Mil Spec Convoluted
81914/1-1010-0TC – PTFE
81914/1-1010-0TC – Helical Convolutions
81914/1-1010-0TC – Size 10 = 1"
81914/1-1010-0TC – Color 0 = Black
81914/1-1010-0TC – Bulk Tubing "T" is bulk

Example: CR01-1.00-NC29.000-2C

CR03-1.00-NC29.000-2C – Corrugated Tubing
CR03-1.00-NC29.000-2C – FEP
CR03-1.00-NC29.000-2C – Tube Size Nominal I.D. (1")
CR03-1.00-NC29.000-2C – Natural
CR03-1.00-NC29.000-2C – Cut Piece
CR03-1.00-NC29.000-2C – Overall Length in inches (29")
CR03-1.00-NC29.000-2C – Standard Cuff on each end

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Nomenclature
Fluoropolymer Heat Shrink
PTFE and FEP: Series HS2, HS4, HS1.3, HS1.6, HS1.25





Product Family**	Resin Family	Special Configuration	Tube Sizes**	–	Tube Color
HS2 = 2:1 Ratio PTFE HS4 = 4:1 Ratio PTFE HS1.3 = 1.3/1:1 Ratio FEP HS1.6 = 1.67:1 Ratio FEP HS1.25 = 1.25:1 Ratio FEP	TF = PTFE FP = FEP PF = PFA ET = ETFE	H = Heavy Wall S = Standard Wall T = Thin Wall L = Light Wall I = Industrial Wall	XX for AWG sizes 0-30 X/X for Fractional sizes 1/8 to 1.00 inch		N = Natural 0 = Black 1 = Brown 2 = Red 3 = Orange 4 = Yellow 5 = Green 6 = Blue 7 = Violet 8 = Gray 9 = White

Packaging ***	Tube Configuration	Other Options
T = Bulk Default Configuration C = Tube Cut Job (followed by cut length in inches)	Blank = No color C = Solid Color S = Stripe on Tube	Blank = Not required xx.xxx = Add cut length in inches

Note: Parflex standard color is natural. Contact Parflex Division for additional size/color options.

Example: HS2TFS15-4TC48.000

HS2TFS15-4TC48.000 – Heat Shrink
HS2TFS15-4TC48.000 – Shrink Ratio (2:1)
HS2TFS15-4TC48.000 – PTFE
HS2TFS15-4TC48.000 – Wall Type (Standard Wall)
HS2TFS15-4TC48.000 – Heat Shrink Size in AWG (AWG15)
HS2TFS15-4TC48.000 – Red
HS2TFS15-4TC48.000 – Bulk Tubing
HS2TFS15-4TC48.000 – Solid Color
HS2TFS15-4TC48.000 – Package Quantity in inches (48")

Example: HS4TFI5/8-NC48.000

HS4TFI5/8-NC48.000 – Heat Shrink
HS4TFI5/8-NC48.000 – Shrink Ratio (4:1)
HS4TFI5/8-NC48.000 – PTFE
HS4TFI5/8-NC48.000 – Wall Type (Industrial Wall)
HS4TFI5/8-NC48.000 – Heat Shrink Size in inches (5/8")
HS4TFI5/8-NC48.000 – Natural
HS4TFI5/8-NC48.000 – Bulk Tubing
HS4TFI5/8-NC48.000 – Package Quantity in inches (48")

Example: HS1.3FEP24-NT

HS1.3FEP24-NT – Heat Shrink Tubing
HS1.3FEP24-NT – Shrink Ratio (1:3)
HS1.3FEP24-NT – FEP
HS1.3FEP24-NT – Heat Shrink Size in AWG (AWG24)
HS1.3FEP24-NT – Natural
HS1.3FEP24-NT – Bulk Tubing (Coil)

Example: HS1.6FEP3/32-NC48.000

HS1.6FEP3/32-NC48.000 – Heat Shrink Tubing
HS1.6FEP3/32-NC48.000 – Shrink Ratio (1.67:1)
HS1.6FEP3/32-NC48.000 – FEP
HS1.6FEP3/32-NC48.000 – Heat Shrink Size in inches (3/32")
HS1.6FEP3/32-NC48.000 – Natural
HS1.6FEP3/32-NC48.000 – Cut Tubing
HS1.6FEP3/32-NC48.000 – Cut length in inches (48")

Updated August 6, 2025

Nomenclature
Fluoropolymer Spiral Cut Tubing and Beading
PTFE: Series TSWTF, TFB





Product Family	Resin Family	Tube O.D
TSWTF	TF = PTFE	1/8 1 3/16 1.25 1/4 1.50 5/16 2.00 3/8 2.50 1/2 3.00 5/8 4.00 3/4

Product Family	Resin Family	Tube O.D
TFB*	TF = PTFE	0.015 0.050 0.090 0.020 0.055 0.094 0.025 0.060 0.100 0.028 0.062 0.109 0.031 0.070 0.115 0.035 0.072 0.125 0.039 0.078 0.150 0.043 0.080 0.188 0.047 0.084

Tubing Color		Tubing Packaging		Configuration
N = Natural	5 = Green	T = Bulk Default Configuration	C = Tube Cut Job (followed by cut length in inches)	**Spiral Wrap** R = Right hand cut L = Left hand cut **Color** C = Solid Color
0 = Black	6 = Blue			
1 = Brown	7 = Violet			
2 = Red	8 = Gray			
3 = Orange	9 = White			
4 = Yellow				

Note: Parflex standard color is natural. Contact Parflex Division for additional size/color options.

Example: TSWTF-3/8-5TC-R

TSWTF-3/8-5TC-R – Spiral Wrap Tubing
TSWTF-3/8-5TC-R – PTFE
TSWTF-3/8-5TC-R – Tube O.D. in inches (3/8")
TSWTF-3/8-5TC-R – Green
TSWTF-3/8-5TC-R – Bulk Tubing
TSWTF-3/8-5TC-R – Solid Color
TSWTF-3/8-5TC-R – Right Hand Cut Spiral

Example: TFB028-NT

TFB028-NT – PTFE Beading
TFB028-NT – Beading O.D. in inches (0.028")
TFB028-NT – Natural
TFB028-NT – Bulk Tubing

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Polyethylene Tubing

Series E: Instrument Grade
Series EB: Ultraviolet (UV) resistant

NSF-51, NSF-61 and FDA compliant for Food and Beverage contact.



Features

- Produced with 100% virgin resin
- Chemically resistant and flexible
- Economic system solution
- Excellent stress crack resistance

Compliance

- FDA, CFR21 Part 177 Compliant for Food Contact
- ASTM D-1693
- NSF – 51
- NSF – 61

Notes

- All tubing conforms to ASTM D-1248, Type 1, Class A, Category 4, Grade E5
- Series E natural and colored tubing meets FDA, NSF-51 requirements for food contact and NSF-61 for potable water
- Series E black (Series EB) tubing suggested for use in sunlit areas and in proximity to high UV light sources
- For FDA and/or NSF compliant black (Series EB) tubing, add -NSF to the EB part number
- Resistant to environmental stress cracking as measured by ASTM D-1693 (10% IGEPAL)
- Suggested operating temperature range is -80°F (-62°C) to 150°F (66°C) - reference Pressure vs. Temperature charts as pressures are lower at elevated temperatures
- Working pressure and burst pressure are at 73°F (23°C)

Order Information
Example: E-64-Y-0500

E-64-Y-0500 – Polyethylene

E-64-Y-0500 – Tube O.D. in sixteenths of an inch (3/8")

E-64-Y-0500 – Tube I.D. in sixteenths of an inch (1/4")

E-64-Y-0500 – Color, i.e. Yellow (Omit for Natural and Black)
E-64-0500 – Natural Polyethylene
EB-64-0500 – Black Polyethylene

E-64-Y-0500 – Package Quantity in feet (500')

Order Information
Example: EB-6X1-0100

EB-6X1-0100 – Polyethylene

EB-6X1-0100 – Tube O.D. in millimeters (6)

EB-6X1-0100 – Wall Thickness in millimeters (1) (Nominal I.D. 4mm)

EB-6X1-0100 – Package Quantity in feet (100')

Fittings

- Parker Fittings available from:
  Fluid System Connectors Division
  Otsego, MI
- (269) 692-6555
  (269) 692-6634 FAX
  parker.com/fsc
- For approved fittings and/or suggested use of tube supports, reference Tube/Fitting Compatibility Chart (pg. B-8/B-9) or contact Parker Fluid Systems Connectors Division

⚠ WARNING

This product can expose you to chemicals including Titanium dioxide, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Tel: +45 63 12 83 00 | Email: ps@hymatik.com | www.hymatik.com | Hvidkaervej 27a, DK-5250 Odense SV, Denmark

Polyethylene Tubing

Series E: Instrument Grade
Series EB: Ultraviolet (UV) resistant

Series E/EB - PE Fractional Size Tubing - Natural and Colors

Part Number	Nominal O.D. inch	Nominal O.D. mm	Nominal I.D. inch	Nominal I.D. mm	Average Wall Thickness inch	Average Wall Thickness mm	Working Pressure 73°F (23°C) psi	Working Pressure 73°F (23°C) bar	Minimum Burst Pressure psi	Minimum Burst Pressure bar	Minimum Bend Radius inch	Minimum Bend Radius mm	Weight lbs./ft.	Weight kg/mtr	Color
E-43-X-0100	1/4	6.4	.170	4.3	.040	1.0	120	8.3	480	33.1	1	25.5	.011	.016	○ ●
E-43-X-0500															○ ● ● ● ● ● ● ○ ●
E-43-X-1000															○ ●
EB-43-0100															●
EB-43-0500*															●
EB-43-0500-NSF															●
EB-43-1000															●
E-53-X-0500	5/16	7.9	.187	4.8	.062	1.6	145	10	580	40.0	1-1/8	28.5	.020	.030	○
EB-53-0500															●
E-64-X-0100	3/8	9.5	.250	6.4	.062	1.6	125	8.6	500	34.5	1-1/4	32.0	.025	.037	○ ●
E-64-X-0500*															○ ● ● ● ● ● ● ○ ●
E-64-X-1000															○
EB-64-0100															●
EB-64-0500															●
EB-64-0500-NSF															●
E-86-X-0100	1/2	12.7	.375	9.5	.062	1.6	90	6.2	360	24.8	2-1/2	63.5	.034	.051	○
E-86-X-0500															○
EB-86-0100															●
EB-86-0500															●
EB-86-0500-NSF															●
E-108-X-0100	5/8	15.9	.500	12.7	.062	1.6	70	4.8	280	19.3	4	101.5	.044	.065	○
EB-108-0100															●

* E-43-X-0500 and E-64-X-0500 tubing available in natural and white (WHT)

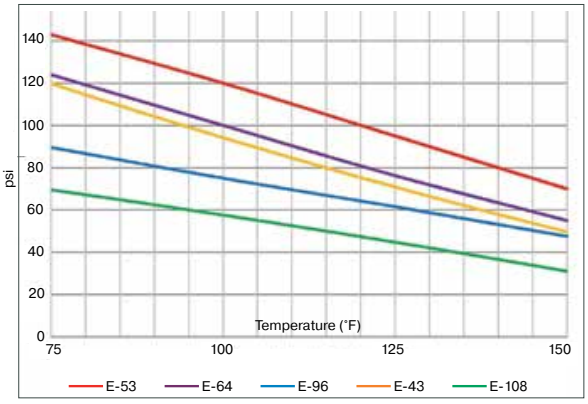
Colors

- Available in black as well as nine other colors, as suggested by the Instrument Society of America

Color Code		
○	-	Natural
●	EB	Black
●	B	Blue
●	G	Green
●	O	Orange
●	P	Purple
●	R	Red
●	GRA	Gray
●	Y	Yellow
○	WHT	White

Polyethylene Tubing (Series E/EB)

Maximum Working Pressure (psi)



⚠ WARNING

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Polyethylene Tubing

Series E: Instrument Grade
Series EB: Ultraviolet (UV) resistant

Series E/EB - PE Metric Size Tubing - Natural and Colors

Part Number	Nominal O.D.		Nominal I.D.		Average Wall Thickness		Working Pressure 73°F (23°C)		Minimum Burst Pressure		Minimum Bend Radius		Weight		Color
	mm	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/mtr	lbs./ft.	
E-6X1-0100 EB-6X1-0100	6	.236	4.0	.157	1.00	.039	8.6	125	34.5	500	25.0	1	.019	.013	○ ●
E-8X1-0100 EB-8X1-0100	8	.315	6.0	.236	1.00	.039	6.9	100	27.6	400	38.0	1-1/2	.021	.014	○ ●
E-10X1.5-0100 EB-10X1.5-0100	10	.394	7.0	.276	1.50	.059	8.6	125	34.5	500	38.0	1-1/2	.039	.026	○ ●
E-12X1.5-0100 EB-12X1.5-0100	12	.472	9.0	.354	1.50	.059	6.2	90	24.8	360	63.0	2-1/2	.048	.032	○ ●

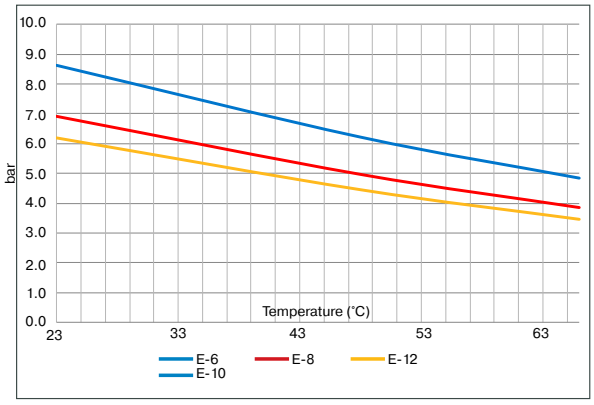
Colors

- Metric sizes

Color Code		
○	-	Natural
●	EB	Black

Polyethylene Metric Tubing (Series E/EB)

Maximum Working Pressure (bar)



⚠ WARNING

This product can expose you to chemicals including Titanium dioxide, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Updated August 6, 2025

Polyethylene Tubing
Series PEFR: Flame Resistant

Flame Resistant.	

Features
- Flame resistant
- High strength & excellent flexibility
- Resistant to environmental stress cracking

Compliance
- UL 94 V-2
- ASTM D-1693

Notes
- Produced from LLDPE (linear low density polyethylene) resin
- Resistant to environmental stress cracking as measured by ASTM D-1693 (10% IGEPAL)
- Suggested operating temperature range is -85°F (-65°C) to 150°F (66°C) - reference Pressure vs. Temperature charts as pressures are lower at elevated temperatures
- Working pressure and burst pressure are at 73°F (23°C)

Fittings
- Parker Fittings available from:
  Fluid System Connectors Division
  Otsego, MI
- (269) 692-6555
  (269) 692-6634 FAX
  parker.com/fsc
- For approved fittings and/or suggested use of tube supports, reference Tube/Fitting Compatibility Chart (pg. B-8/B-9) or contact Parker Fluid Systems Connectors Division

Order Information
Example: PEFR-4-0500

PEFR-4-0500 – Flame Resistant Polyethylene
PEFR-4-0500 – Tube O.D. in sixteenths of an inch (1/4")
PEFR-4-0500 – Package Quantity in feet (500')

⚠ WARNING
This product can expose you to chemicals including Antimony Oxide (Antimony Trioxide), which is known to the State of California to cause cancer, and 2-Imidazolidinethione, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Updated August 6, 2025

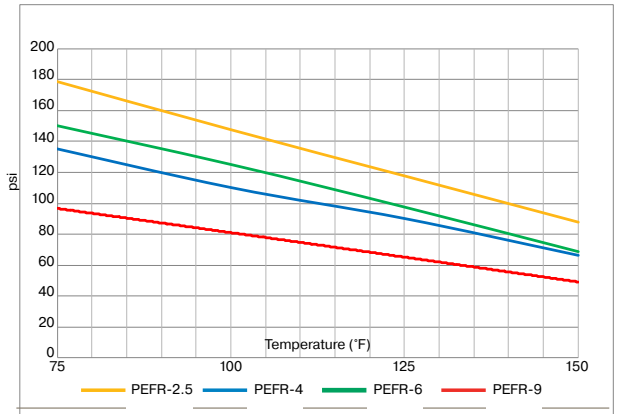
Polyethylene Tubing
Series PEFR: Flame Resistant

Series PEFR - Flame Resistant Polyethylene Size Tubing

Part Number	Nominal O.D.		Nominal I.D.		Average Wall Thickness		Working Pressure 73°F (23°C)		Minimum Burst Pressure		Minimum Bend Radius		Weight		Color
	inch	mm	inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	lbs./ft.	kg/mtr	
PEFR-2.5-0500	5/32	4.0	.096	2.4	.030	0.8	185	12.8	740	51.0	1/2	12.5	.006	.009	
PEFR-4-0500 PEFR-4-1000	1/4	6.4	.170	4.3	.040	1.0	140	9.7	560	38.6	3/4	19.0	.012	.018	● ●
PEFR-6-0500	3/8	9.5	.250	6.4	.062	1.6	155	10.7	620	42.8	1-1/2	38.0	.029	.043	●
PEFR-8-0250	1/2	12.7	.375	9.5	.062	1.6	100	6.9	400	27.6	1-3/4	44.5	.041	.061	●

Note: If color not referenced, contact the division for availability.

Flame Resistant Polyethylene Tubing (Series PEFR)
Maximum Working Pressure (psig)



Colors

Color Code		
●	-	Black

⚠ WARNING
This product can expose you to chemicals including Antimony Oxide (Antimony Trioxide), which is known to the State of California to cause cancer, and 2-Imidazolidinethione, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Tel: +45 63 12 83 00 | Email: ps@hymatik.com | www.hymatik.com | Hvidkaervej 27a, DK-5250 Odense SV, Denmark

Polyethylene Tubing
Series HDPE: High Strength

Excellent economical alternative to Nylon tubing.



Features

- Manufactured from high strength, high density polyethylene
- Excellent economical alternative to Nylon in various industrial applications due to strength and durability
- Economical system solution

OBSOLETE

Notes

- Suggested operating temperature range is -80°F (-62°C) to 175°F (80°C) - reference Pressure vs. Temperature charts as pressures are lower at elevated temperatures
- Working pressure and burst pressure are at 73°F (23°C)

Fittings

- Parker Fittings available from:
  Fluid System Connectors Division
  Otsego, MI
- (269) 692-6555
  (269) 692-6634 FAX
  parker.com/fsc
- For approved fittings and/or suggested use of tube supports, reference Tube/Fitting Compatibility Chart (pg. B-8/B-9) or contact Parker Fluid Systems Connectors Division

Order Information
Example: HDPE-43-0500

HDPE-43-0500 – High Density Polyethylene
HDPE-43-0500 – Tube O.D. in sixteenths of an inch (1/4")
HDPE-43-0500 – Tube I.D. in sixteenths of an inch (.170")
HDPE-43-0500 – Package Quantity in feet (500')

⚠ WARNING
This product can expose you to chemicals including Titanium dioxide, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

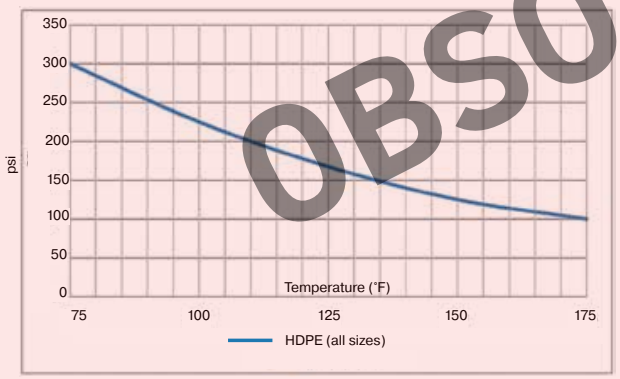
Polyethylene Tubing
Series HDPE: High Strength

Series HDPE - High Strength Polyethylene Size Tubing

Part Number	Nominal O.D. inch	Nominal O.D. mm	Nominal I.D. inch	Nominal I.D. mm	Average Wall Thickness inch	Average Wall Thickness mm	Working Pressure 73°F (23°C) psi	Working Pressure 73°F (23°C) bar	Minimum Burst Pressure psi	Minimum Burst Pressure bar	Minimum Bend Radius inch	Minimum Bend Radius mm	Weight lbs./ft.	Weight kg/mtr	Color
HDPE-43-0250	1/4	6.4	.170	4.3	.040	1.0	300	20.7	1200	82.7	1-1/2	38.0	.011	.016	●
HDPE-43-0500															●
HDPE-64-0250	3/8	9.5	.250	6.4	.062	1.6	300	20.7	1200	82.7	2-1/2	63.5	.025	.037	●
HDPE-64-0500															●

OBSOLETE

High Density Polyethylene Tubing (Series HDPE)
Maximum Working Pressure (psig)



Colors

Color Code		
●	-	Black

⚠ WARNING
This product can expose you to chemicals including Titanium dioxide, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Updated August 6, 2025

Nylon Tubing
Series N/NB Fractional and Metric

Abrasion resistant, heat and light stabilized resin.



Features

- Produced from abrasion resistant, heat and light stabilized nylon resin
- High-grade resins for strength and flexibility
- Low moisture absorption
- Chemically resistant
- EZ pack (100') boxes available

Notes

- Black (Series NB) tubing suggested for use in sunlit areas and in proximity to high UV light sources
- Suggested operating temperature range is -65°F (-54°C) to 200°F (93°C) - reference Pressure vs. Temperature charts as pressures are lower at elevated temperatures
- Working pressure and burst pressure are at 73°F (23°C)

Order Information
Example: N-4-035-Red

N-4-035-Red– Nylon

N-4-035-Red– Tube O.D. in sixteenths of an inch (1/4")

N-4-035-Red– Wall Thickness in inches (.035")

N-4-035-Red– Color, i.e. Red (Omit for Natural and Black)
NN-4-035-EZ - 100 ft box, Natural Nylon
NB-4-035-0100 - Black Nylon

N-4-035-Red– Package Quantity in feet (250')

Standard 250' package has no length reference.
Add -EZ for 100' boxed coil (NB-4-035-EZ)

Fittings

- Parker Fittings available from:
  Fluid System Connectors Division
  Otsego, MI
- (269) 692-6555
  (269) 692-6634 FAX
  parker.com/fsc
- For approved fittings and/or suggested use of tube supports, reference Tube/Fitting Compatibility Chart (pg. B-8/B-9) or contact Parker Fluid Systems Connectors Division

Order Information
Example: NN4x.65

NN4x.65 – Nylon

NN4x.65 – Tube O.D. in millimeters (4)

NN4x.65 – Wall Thickness in millimeters (.65)

(Standard 100' package has no length reference)

⚠ WARNING

This product can expose you to chemicals including Nickel, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Nylon Tubing
Series N/NB Fractional and Metric

Series N - Nylon Fractional Size Tubing

Part Number	Nominal O.D.		Nominal I.D.		Average Wall Thickness		Working Pressure 73°F (23°C)		Minimum Burst Pressure		Minimum Bend Radius		Weight		Color
	inch	mm	inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	lbs./ft.	kg/mtr	
NN-2-016 NB-2-016 N-2-016-XXX	1/8	3.2	.093	2.4	.016	0.4	250	17.2	1000	69.0	1/2	12.5	.003	.004	○ ●
NN-2-031 NB-2-031 N-2-031-XXX	1/8	3.2	.064	1.6	.031	0.8	500	34.5	2000	137.9	1/4	6.5	.004	.006	○ ●
NN-2.5-025 NB-2.5-025 N-2.5-025-XXX	5/32	4.0	.106	2.7	.025	0.6	300	20.7	1200	82.7	1/2	12.5	.005	.007	○ ● 🔵🟢🔴🟡
NN-3-025 NB-3-025 N-3-025-XXX	3/16	4.8	.138	3.5	.025	0.6	250	17.2	1000	69.0	5/8	16.0	.006	.009	○ ●
NN-3-046 NB-3-046 N-3-046-XXX	3/16	4.8	.096	2.4	.046	1.2	500	34.5	2000	137.9	7/16	11.0	.009	.013	○ ●
NN-4-035 NN-4-035-EZ NB-4-035 NB-4-035-EZ N-4-035-XXX	1/4	6.4	.180	4.6	.035	0.9	250	17.2	1000	69.0	7/8	22.0	.011	.016	○ ○ ● ● 🔵🟢🔴🟡
NN-4-040 NN-4-040-EZ NB-4-040 NB-4-040-EZ N-4-040-XXX	1/4	6.4	.170	4.3	.040	1.0	310	21.4	1250	86.2	7/8	22.0	.012	.018	○ ○ ● ● 🔵🟢🔴🟡
NN-4-062 NB-4-062 N-4-062-XXX	1/4	6.4	.125	3.2	.062	1.6	500	34.5	2000	137.9	1/2	12	.017	.025	○ ●
NN-5-040 NB-5-040 N-5-040-XXX	5/16	7.9	.233	5.9	.040	1.0	250	17.2	1000	69.0	1-1/8	28.5	.016	.024	○ ●

Note: If color not referenced, contact the division for availability.
Standard 250' package has no length reference.
-EZ : 100' EZ pack box

⚠ WARNING
This product can expose you to chemicals including Nickel, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Updated August 6, 2025

Nylon Tubing
Series N/NB Fractional and Metric

Series N - Nylon Fractional Size Tubing

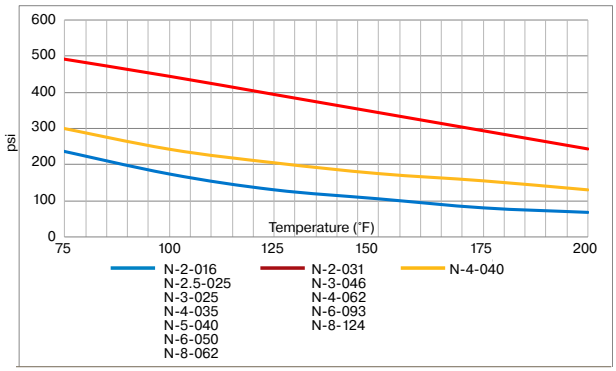
Part Number	Nominal O.D.		Nominal I.D.		Average Wall Thickness		Working Pressure 73°F (23°C)		Minimum Burst Pressure		Minimum Bend Radius		Weight		Color
	inch	mm	inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	lbs./ft.	kg/mtr	
NN-6-050															○
NN-6-050-EZ															○
NB-6-050	3/8	9.5	.275	7.0	.050	1.3	250	17.2	1000	69.0	1-1/8	28.5	.023	.034	●
NB-6-050-EZ															●
N-6-050-XXX															● ● ● ●
NN-6-093															○
NB-6-093	3/8	9.5	.190	4.8	.093	2.4	500	34.5	2000	137.9	3/4	19.0	.038	.057	●
N-6-093-XXX															
NN-8-062															○
NN-8-062-EZ															○
NB-8-062	1/2	12.7	.375	9.5	.062	1.6	250	17.2	1000	69.0	1-1/4	32.0	.039	.058	●
NB-8-062-EZ															●
NN-8-062-XXX															
NN-8-124															○
NB-8-124	1/2	12.7	.253	6.4	.124	3.2	500	34.5	2000	137.9	1	25.5	.067	.100	●
N-8-124-XXX															

Note: If color not referenced, contact the division for availability.
Standard 250' package has no length reference.
-EZ : 100' EZ pack box

Colors

Color Code		
○	NN	Natural
●	NB	Black
●	BLU	Blue
●	GRN	Green
●	RED	Red
●	YEL	Yellow

Nylon Tubing (Series N/NB)
Maximum Working Pressure (psi)



⚠ WARNING
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Updated August 6, 2025

Nylon Tubing
Series N/NB Fractional and Metric

Series N/NB - Nylon Metric Size Tubing - Natural and Black

Part Number	Nominal O.D.		Nominal I.D.		Average Wall Thickness		Working Pressure 73°F (23°C)		Minimum Burst Pressure		Minimum Bend Radius		Weight		Color
	mm	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/mtr	lbs./ft.	
NN4x.65 NB4x.65	4	.157	2.7	.106	0.65	.026	26.0	377	104	1508	14.0	9/16	.007	.005	○ ●
NN6X1 NB6X1	6	.236	4.0	.157	1.00	.039	23.5	340	94	1363	22.0	7/8	.016	.011	○ ●
NN8X1 NB8X1	8	.315	6.0	.236	1.00	.039	17.0	246	68	986	29.0	1-1/8	.024	.016	○ ●
NN10X1 NB10X1	10	.394	8.0	.315	1.00	.039	12.5	181	50	725	34.0	1-5/16	.030	.020	○ ●
NN12X1 NB12X1	12	.472	10.0	.394	1.00	.039	11.0	159	44	638	45.0	1-3/4	.036	.024	○ ●
NN14X1.5 NB14X1.5	14	.551	11.0	.433	1.50	.059	15.0	217	60	870	57.0	2-1/4	.063	.042	○
NN16X1.5 NB16X1.5	16	.630	13.0	.512	1.50	.059	12.5	181	50	725	74.0	2-7/8	.073	.049	○
NN18X1.5 NB18X1.5	18	.709	15.0	.591	1.50	.059	10.5	152	42	609	92.0	3-5/8	.082	.055	○
NN20X1.5 NB20X1.5	20	.787	17.0	.669	1.50	.059	9.5	137	38	551	112.0	4-3/8	.092	.062	○

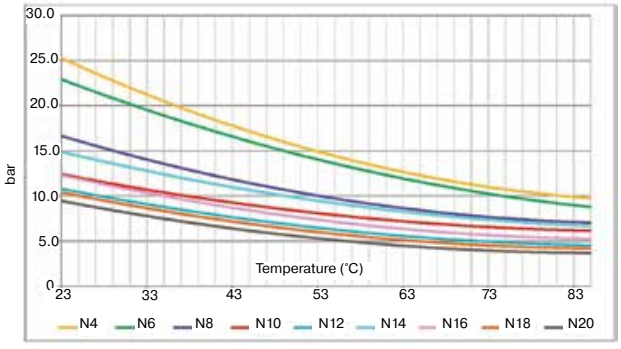
Note: If color not referenced, contact the division for availability.
Standard 100' package has no length reference.

Colors

- Metric sizes

Color Code		
○	NN	Natural
●	NB	Black

Nylon Metric Tubing (Series N/NB)
Maximum Working Pressure (bar)



⚠ WARNING
This product can expose you to chemicals including Nickel, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Updated August 6, 2025

Nylon Tubing
Series PAT: Pure Air Tubing

Excellent chemical and UV light resistance.



Features

- Specially formulated nylon for pure air systems and gas distribution systems (semiconductor) due to its cleanliness and excellent chemical and UV light resistance
- Low moisture absorption
- High tensile strength

Notes

- Packaged on a corrugated plastic reel with ends capped and shipped in plastic-lined container
- PAT2 and PAT4 are single-wall extruded Nylon and PAT6 to PAT12 are reinforced constructions
- Suggested operating temperature range is -70°F (-57°C) to 200°F (93°C). Reference Pressure vs. Temperature charts as pressures are lower at elevated temperatures
- Working pressure and burst pressure are at 73°F (23°C)

Fittings

- Parker Fittings available from:
  Fluid System Connectors Division
  Otsego, MI
- (269) 692-6555
  (269) 692-6634 FAX
  parker.com/fsc
- For approved fittings and/or suggested use of tube supports, reference Tube/Fitting Compatibility Chart (pg. B-8/B-9) or contact Parker Fluid Systems Connectors Division

Order Information
Example: PAT4-BLK-1000

PAT4-BLK-1000 – Nylon
PAT4-BLK-1000 – Tube O.D. in sixteenths of an inch (1/8")
PAT4-BLK-1000 – Black (Omit for Natural)
PAT4-BLK-1000 – Package Quantity in feet (1000')

⚠ WARNING
This product can expose you to chemicals including Nickel, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Updated August 6, 2025

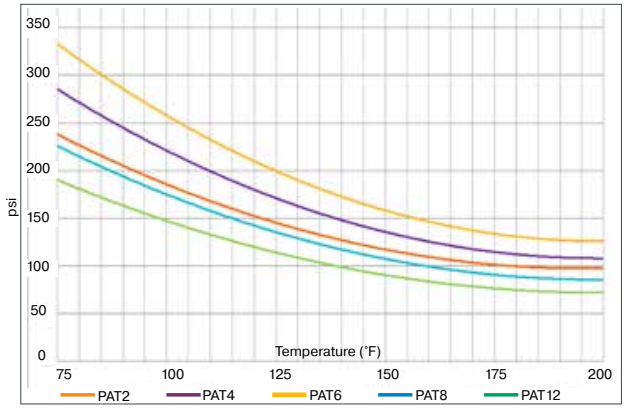
Nylon Tubing
Series PAT: Pure Air Tubing

Series PAT - Pure Air Nylon Tubing

Part Number	Nominal O.D.		Nominal I.D.		Average Wall Thickness		Working Pressure 73°F (23°C)		Minimum Burst Pressure		Minimum Bend Radius		Weight	
	inch	mm	inch	mm	inch	mm	bar	psi	psi	bar	inch	mm	lbs./ft.	kg/mtr
PAT2-XXX-1000	1/8	3.2	.079	2.0	.023	0.6	250	17.2	1000	69.0	3/8	9.5	.003	.004
PAT4-XXX-1000	1/4	6.4	.170	4.3	.040	1.0	300	20.7	1200	82.7	1	25.5	.012	.018
PAT6-XXX-500	3/8	9.5	.251	6.4	.062	1.6	350	24.1	1400	96.4	1-1/2	38.0	.027	.040
PAT8-XXX-500	1/2	12.7	.376	9.6	.062	1.6	235	16.2	950	65.5	2	51.0	.038	.057
PAT12-XXX-250	3/4	19.1	.566	14.4	.092	2.3	200	13.8	800	55.2	3	76.0	.088	.131

Note: If color not referenced, contact the division for availability.

Nylon Tubing (Series PAT)
Maximum Working Pressure (psi)



Colors

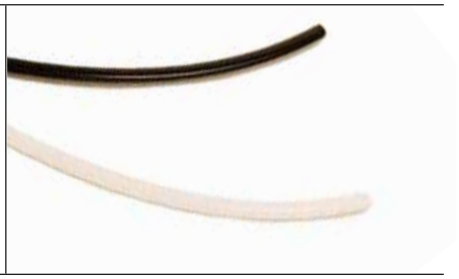
Color Code		
●	BLK	Black
●	SIL	Silver
●	BRN	Brown

⚠ WARNING
This product can expose you to chemicals including Nickel, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Tel: +45 63 12 83 00 | Email: ps@hymatik.com | www.hymatik.com | Hvidkaervej 27a, DK-5250 Odense SV, Denmark

Nylon Tubing
Series NR/NBR: Semi-Rigid High Strength

High tensile strength yielding excellent coupling retention.



Features

- High grade nylon resins without plasticizers for higher pressure tubing applications
- High tensile strength and excellent coupling retention
- Produced from abrasion resistant, heat and light stabilized nylon resin
- Low moisture absorption
- Chemically resistant

Notes

- Black (Series NBR) tubing suggested for use in sunlit areas and in proximity to high UV light sources
- Suggested operating temperature range is -60°F (-51°C) to 200°F (93°C) - reference Pressure vs. Temperature charts as pressures are lower at elevated temperatures
- Working pressure and burst pressure are at 73°F (23°C)

Fittings

- Parker Fittings available from:
  Fluid System Connectors Division
  Otsego, MI
- (269) 692-6555
  (269) 692-6634 FAX
  parker.com/fsc
- For approved fittings and/or suggested use of tube supports, reference Tube/Fitting Compatibility Chart (pg. B-8/B-9) or contact Parker Fluid Systems Connectors Divisionion

Order Information

Example: NBR-2-017

NBR-2-017– Nylon
NBR-2-017– Black
NBR-2-017– Rigid
NBR-2-017– Tube O.D. in sixteenths of an Inch (1/8")
NBR-2-017– Wall Thickness in inches (.017")
NBR-2-017– Package Quantity in feet (250')

Standard 250' package has no length reference.

⚠ WARNING

This product can expose you to chemicals including Nickel, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Nylon Tubing

Series NR/NBR: Semi-Rigid High Strength

Series NR/NBR - Semi-Rigid High Strength Nylon Tubing - Natural and Black

Part Number	Nominal O.D.		Nominal I.D.		Average Wall Thickness		Working Pressure 73°F (23°C)		Minimum Burst Pressure		Minimum Bend Radius		Weight		Color
	inch	mm	inch	mm	inch	mm	psi	bar	psi	bar	mm	inch	lbs./ft.	kg/mtr	
NNR-2-017 NBR-2-017	1/8	3.2	.091	2.3	.017	0.4	425	29.3	1700	117.2	1/2	12.5	.003	.004	○
NNR-2-026 NBR-2-026	1/8	3.2	.073	1.9	.026	0.7	625	43.1	2500	172.4	3/8	9.5	.004	.006	○ ●
NNR-3-024 NBR-3-024	3/16	4.8	.140	3.6	.024	0.6	425	29.3	1700	117.2	3/4	19.0	.006	.009	
NNR-3-039 NBR-3-039	3/16	4.8	.110	2.8	.039	1.0	625	43.1	2500	172.4	5/8	16.0	.008	.012	○ ●
NNR-4-035 NBR-4-035	1/4	6.4	.180	4.6	.035	0.9	425	29.3	1700	117.2	1	25.5	.011	.016	○ ●
NNR-4-050 NBR-4-050	1/4	6.4	.150	3.8	.050	1.3	625	43.1	2500	172.4	7/8	22.0	.014	.021	○ ●
NNR-5-040 NBR-5-040	5/16	7.9	.233	5.9	.040	1.0	425	29.3	1700	117.2	1-1/2	38.0	.015	.022	○ ●
NNR-6-048 NBR-6-048	3/8	9.5	.279	7.1	.048	1.2	425	29.3	1700	117.2	1-3/4	44.5	.022	.033	○ ●
NNR-6-075 NBR-6-075	3/8	9.5	.225	5.7	.075	1.9	625	43.1	2500	172.4	1-1/2	38.0	.032	.048	○ ●
NNR-8-062 NBR-8-062	1/2	12.7	.375	9.5	.062	1.6	375	25.9	1500	103.4	2-3/8	60.5	.038	.057	○ ●
NNR-8-075 NBR-8-075	1/2	12.7	.350	8.9	.075	1.9	625	43.1	2500	172.4	2-1/2	63.5	.045	.067	○ ●

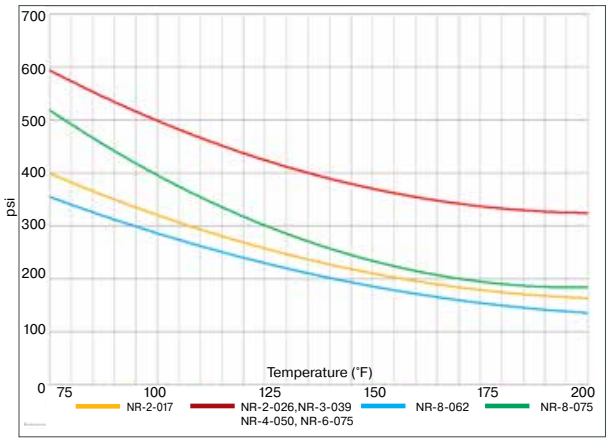
Note: If color not referenced, contact the division for availability.
Standard pack part number has no length reference.
Package quantity: -2 to -3 is 500' -4 to -8 is 250'

Colors

Color Code		
○	NNR	Natural
●	NBR	Black

Nylon Tubing (Series NR)

Maximum Working Pressure (psi)



WARNING

This product can expose you to chemicals including Nickel, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Updated August 6, 2025

Polypropylene Tubing

Series PP: Laboratory Grade – FDA, NSF Listed
Series PPB: Ultraviolet Light Resistant

Less than .01% water absorption.



Features

- Excellent resistance to hot water, acids, chemicals and vegetable oils
- Low water absorption (less than .01%)
- Excellent resistance to stress cracking

Compliance

- PP-series (white) tubing only
  - FDA, CFR21 Part 177 compliant for Food Contact
  - NSF-51 compliant

Notes

- Black (Series PPB) tubing suggested for use in sunlit areas and in proximity to high UV light sources
- Suggested operating temperature range is 0°F (-18°C) to 200°F (93°C) - reference Pressure vs. Temperature charts as pressures are lower at elevated temperatures
- Working pressure and burst pressure are at 73°F (23°C)

Fittings

- Parker Fittings available from:
  Fluid System Connectors Division
  Otsego, MI
- (269) 692-6555
  (269) 692-6634 FAX
  parker.com/fsc
- For approved fittings and/or suggested use of tube supports, reference Tube/Fitting Compatibility Chart (pg. B-8/B-9) or contact Parker Fluid Systems Connectors Division

Order Information

Example: PP-86-0250

PP-86-0250 – Polypropylene

PP-86-0250 - White
PPB-86-0250 -Black

PP-86-0250 – Tube O.D. in sixteenths of an inch (1/2")

PP-86-0250 – Tube I.D. in sixteenths of an inch (3/8")

PP-86-0250 – Package Quantity in feet (250')

⚠ WARNING

This product can expose you to chemicals including Titanium dioxide, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Polypropylene Tubing

Series PP: Laboratory Grade – FDA, NSF Listed
Series PPB: Ultraviolet Light Resistant

Series PP: Laboratory Grade – FDA, NSF Listed - White
Series PPB: Ultraviolet Light Resistant - Black

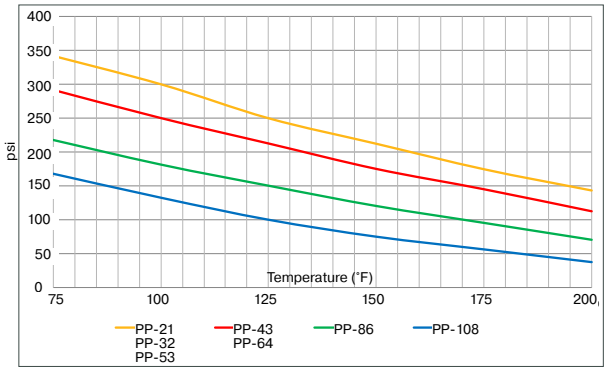
Part Number	Nominal O.D.		Nominal I.D.		Average Wall Thickness		Working Pressure 73°F (23°C)		Minimum Burst Pressure		Minimum Bend Radius		Weight		Color
	inch	mm	inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	lbs./ft.	kg/mtr	
PP-21-1000 PPB-21-1000	1/8	3.2	.079	2.0	.023	0.6	350	24.1	1400	96.5	1/2	12.5	.003	.004	
PP-32-0500 PPB-32-0500	3/16	4.8	.120	3.0	.034	0.9	350	24.1	1400	96.5	3/4	19.0	.006	.009	
PP-43-0500 PPB-43-0500	1/4	6.4	.170	4.3	.040	1.0	300	20.7	1200	82.7	1	25.5	.010	.015	○ ●
PP-53-0500 PPB-53-0500	5/16	7.9	.188	4.8	.062	1.6	350	24.1	1400	96.5	1-1/4	32.0	.019	.028	
PP-64-0500 PPB-64-0500	3/8	9.5	.250	6.4	.062	1.6	300	20.7	1200	82.7	1-1/4	32.0	.024	.036	○ ●
PP-86-0250 PPB-86-0250	1/2	12.7	.375	9.5	.062	1.6	225	15.5	900	62.1	2-1/2	63.5	.033	.049	○ ●
PP-108-0100 PPB-108-0100	5/8	15.9	.500	12.7	.062	1.6	175	12.1	700	48.3	4	101.5	.042	.063	○

Note: If color not referenced, contact the division for availability.

Colors

Color Code		
○	PP	White
●	PPB	Black

Polyproplene Tubing (Series PP & PPB)
Maximum Working Pressure (psi)

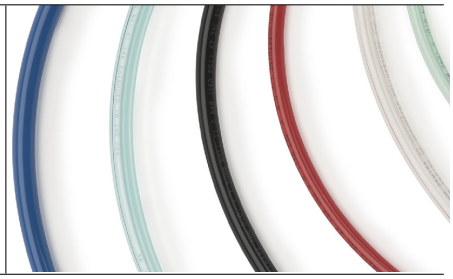


⚠ WARNING
This product can expose you to chemicals including Titanium dioxide, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Updated August 6, 2025

Polyurethane Tubing
Series 95U/95UM: Polyether Base

Excellent abrasion and kink resistance.



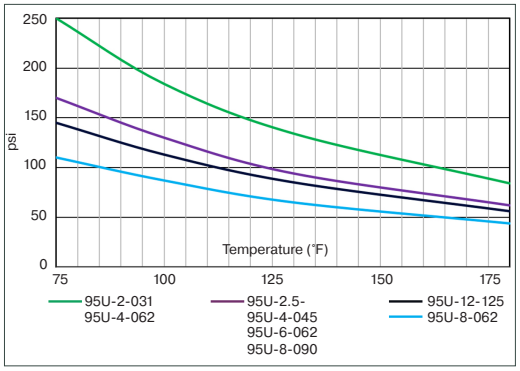
Features

- 95 Shore A durometer
- Excellent abrasion and kink resistance
- Excellent moisture resistance
- Easy to assemble with approved fittings
- Constructed from UV resistant Polyurethane
- Exhibits the elongation and recovery characteristics of rubber and the chemical resistance of a thermoplastic
- EZ Pack 100' boxes available

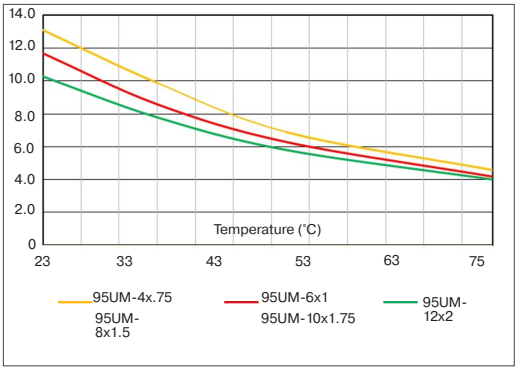
Notes

- Suggested operating temperature range is -40°F (-40°C) to 180°F (82°C) - reference Pressure vs. Temperature charts as pressures are lower at elevated temperatures
- Working pressure and burst pressure are at 73°F (23°C)

Polyurethane Tubing (Series 95U)
Maximum Working Pressure (psi)



Polyurethane Metric Tubing (Series 95UM)
Maximum Working Pressure (bar)



Fittings

- Parker Fittings available from:
  Fluid System Connectors Division
  Otsego, MI
- (269) 692-6555
  (269) 692-6634 FAX
  parker.com/fsc
- For approved fittings and/or suggested use of tube supports, reference Tube/Fitting Compatibility Chart (pg. B-8/B-9) or contact Parker Fluid Systems Connectors Division

Order Information
Example: 95U-2-031-RED-0100

95U-2-031-RED-0100 – 95 Durometer Polyurethane
95U-2-031-RED-0100 – Tube O.D. sixteenths of an inch (1/8")
95U-2-031-RED-0100 – Wall Thickness in inches (.031")
95U-2-031-RED-0100 – Color
95U-2-031-RED-0100 – Package Quantity in feet (100')

⚠ WARNING
This product can expose you to chemicals including Carbon Black Extracts, which is known to the State of California to cause cancer and Toluene, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Polyurethane Tubing

Series 95U/95UM: Polyether Base

Series 95U: PU Tubing - Natural and Colors

Part Number	Nominal O.D. inch	Nominal O.D. mm	Nominal I.D. inch	Nominal I.D. mm	Average Wall Thickness inch	Average Wall Thickness mm	Working Pressure 73°F (23°C) psi	Working Pressure 73°F (23°C) bar	Minimum Burst Pressure psi	Minimum Burst Pressure bar	Weight lbs./ft.	Weight kg/mtr	Color
95U-2-031-XXX-0100 95U-2-031-XXX-0500	1/8	3.2	.063	1.6	.031	0.80	250	17.2	750	51.6	.005	.007	
95U-2.5-031-XXX-0100 95U-2.5-031-XXX-0500	5/32	4.0	.094	2.4	.031	0.80	170	11.7	510	35.1	.006	.009	
95U-4-045-XXX-1000	1/4	6.4	.160	4.1	.045	1.10	170	11.7	510	35.1	.015	.023	
95U-4-062-XXX-0100 95U-4-062-XXX-0500 95U-4-062-XXX-1000	1/4	6.4	.125	3.2	.062	1.60	250	17.2	750	51.6	.019	.028	
95U-6-062-XXX-0100 95U-6-062-XXX-0500	3/8	9.5	.250	6.4	.062	1.60	170	11.7	510	35.1	.030	.045	
95U-8-062-XXX-0100 95U-8-062-XXX-0250	1/2	12.7	.375	9.5	.062	1.60	110	7.6	330	22.8	.042	.063	
95U-8-090-XXX-0100 95U-8-090-XXX-0250	1/2	12.7	.320	8.1	.090	2.30	170	11.7	510	35.1	.059	.089	
95U-12-125-XXX-0100	3/4	19.1	.500	12.7	.125	3.20	145	10.0	435	30.0	.125	.188	

Series 95UM: PU Metric Size Tubing - Natural and Colors

Part Number	Nominal O.D. mm	Nominal O.D. inch	Nominal I.D. mm	Nominal I.D. inch	Average Wall Thickness mm	Average Wall Thickness inch	Working Pressure 73°F (23°C) bar	Working Pressure 73°F (23°C) psi	Minimum Burst Pressure bar	Minimum Burst Pressure psi	Weight kg/mtr	Weight lbs./ft.	Color
95UM-4x.75-XXX-0100 95UM-4x.75-XXX-0500	4	.157	2.5	.098	0.75	.030	13.1	190	39.3	570	.009	.006	
95UM-6x1-XXX-0100 95UM-6x1-XXX-0500	6	.236	4.0	.157	1.00	.039	11.7	170	35.1	510	.019	.013	
95UM-8x1.5-XXX-0100 95UM-8x1.5-XXX-0500	8	.315	5.0	.196	1.50	.059	13.1	190	39.3	570	.036	.024	
95UM-10x1.75-XXX-0100 95UM-10x1.75-XXX-0500	10	.393	6.5	.256	1.75	.069	11.7	170	35.1	510	.054	.036	
95UM-12x2-XXX-0100 95UM-12x2-XXX-0500	12	.472	8.0	.315	2.00	.079	10.3	150	30.9	450	.074	.049	

Colors

Color Code		
○	-	Natural
●	BLK	Black
●	BLU	Blue
●	GRA	Gray
●	GRN	Green
●	RED	Red

Color Code		
○	WHT	White
●	YEL	Yellow
●	TBL	Transparent Blue
●	TGR	Transparent Green
●	TRD	Transparent Red
●	TYL	Transparent Yellow

Order Information

Example: 95UM-6x1-BLK-0100

95UM-6x1-BLK-0100 – 95 Durometer Polyurethane
95UM-6x1-BLK-0100 – Tube O.D. in millimeters (6mm)
95UM-6x1-BLK-0100 – Tube I.D. in millimeters (1mm)
95UM-6x1-BLK-0100 – Color Black (Omit for Natural)
95UM-6x1-BLK-0100 – Package Quantity in feet (100')

⚠ WARNING

This product can expose you to chemicals including Carbon Black Extracts, which is known to the State of California to cause cancer and Toluene, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Updated August 6, 2025

MicroWeld™ Tubing
Series 95FR: Flame Resistant

Weld spatter resistance and excellent flexibility.



Features

- 95 Shore A durometer Polyether Polyurethane core tube
- Easily skived flame resistant jacket protects core tube for extended life
- Silicone and halogen free
- Excellent flexibility
- Weld spatter resistant
- Ideal for air/water supply in robotic welding applications

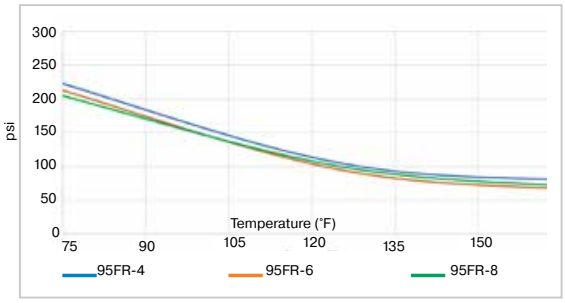
Compliance

- UL 94 V-0 compliant jacket material

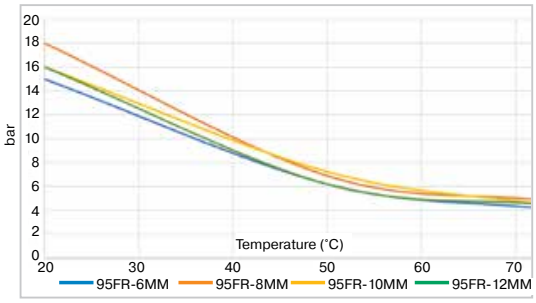
Notes

- Suggested operating temperature range is -40°F (-40°C) to 165°F (74°C) - reference Pressure vs. Temperature charts as pressures are lower at elevated temperatures
- Working pressure and burst pressure are at 73°F (23°C)

MicroWeld Tubing(Series 95FR)
Maximum Working Pressure (psi)



MicroWeld Metric Tubing (Series 95FRM)
Maximum Working Pressure (bar)



Fittings

- Parker Fittings available from:
  Fluid System Connectors Division
  Otsego, MI
- (269) 692-6555
  (269) 692-6634 FAX
  parker.com/fsc
- For approved fittings and/or suggested use of tube supports, reference Tube/Fitting Compatibility Chart (pg. B-8/B-9) or contact Parker Fluid Systems Connectors Division

Order Information
Example: 95FR-4-BLU-0250

95FR-4-BLU-0250 – Flame Resistant Polyurethane
95FR-4-BLU-0250 – Tube O.D. in sixteenths of an inch (1/4")
95FR-4-BLU-0250 – Blue
95FR-4-BLU-0250 – Package Quantity in feet (250')

⚠ WARNING
This product can expose you to chemicals including Antimony Oxide (Antimony Trioxide), which is known to the State of California to cause cancer, and 2-Imidazolidinethione, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

MicroWeld™ Tubing
Series 95FR: Flame Resistant

Series 95FR: Jacketed, Fire Resistant Polyurethane Tubing

Part Number	Nominal O.D. inch	Nominal O.D. mm	Nominal I.D. inch	Nominal I.D. mm	Average Wall Thickness inch	Average Wall Thickness mm	Final Sheath O.D. inch	Final Sheath O.D. mm	Final Sheath Wall Thickness inch	Final Sheath Wall Thickness mm	Working Pressure 73°F (23°C) psi	Working Pressure 73°F (23°C) bar	Minimum Burst Pressure psi	Minimum Burst Pressure bar	Minimum Bend Radius inch	Minimum Bend Radius mm	Weight kg/mtr	Weight lbs./ft.	Color
95FR-4-XXX-0250 95FR-4-XXX-0500	1/4	6.4	.160	4.0	.045	1.1	.340	8.6	.045	1.1	240	16.5	720	49.6	3/4	19.0	.042	.062	
95FR-6-XXX-0250 95FR-6-XXX-0500	3/8	9.5	.250	6.4	.062	1.6	.465	11.8	.045	1.1	230	15.9	690	47.6	1	25.5	.069	.103	
95FR-8-XXX-0250	1/2	12.7	.320	8.1	.090	2.3	.590	15.0	.045	1.1	220	15.2	660	45.5	2	51.0	.108	.161	

Series 95FRM: Jacketed, Fire Resistant Metric Polyurethane Tubing

Part Number	Nominal O.D. mm	Nominal O.D. inch	Nominal I.D. mm	Nominal I.D. inch	Average Wall Thickness mm	Average Wall Thickness inch	Final Sheath O.D. mm	Final Sheath O.D. inch	Final Sheath Wall Thickness mm	Final Sheath Wall Thickness inch	Working Pressure 73°F (23°C) bar	Working Pressure 73°F (23°C) psi	Minimum Burst Pressure bar	Minimum Burst Pressure psi	Minimum Bend Radius mm	Minimum Bend Radius inch	Weight kg/mtr	Weight lbs./ft.	Color
95FRM-6-XXX-0250 95FRM-6-XXX-0500	6	.236	4.0	.157	1.00	.039	8.0	.315	1.1	.045	15	218	45	652	20.0	3/4	.057	.038	
95FRM-8-XXX-0250 95FRM-8-XXX-0500	8	.315	5.0	.197	1.50	.059	10.0	.394	1.1	.045	18	261	54	783	22.0	7/8	.085	.057	
95FRM-10-XXX-0500	10	.394	6.5	.256	1.75	.069	12.0	.472	1.1	.045	16	232	48	696	26.0	1	.113	.076	
95FRM-12-XXX-0500	12	.472	8.0	.315	2.00	.079	14.0	.551	1.1	.045	16	232	48	696	32.0	1-1/4	.144	.097	

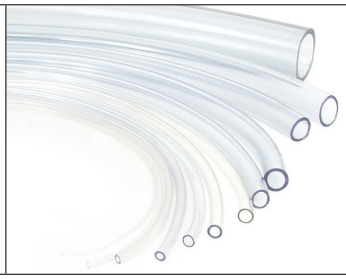
Colors

Color Code		
●	BLK	Black
●	BLU	Blue
●	GRA	Gray
●	GRN	Green
●	RED	Red
○	WHT	White

⚠ WARNING
This product can expose you to chemicals including Antimony Oxide (Antimony Trioxide), which is known to the State of California to cause cancer, and 2-Imidazolidinethione, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Vinyl Tubing
Series PV: Clear Vinyl Tubing

Instrument and laboratory grade PVC tubing.



Features

- Made from a virgin clear PVC (polyvinyl chloride) resin; specifically formulated for exceptional purity, clarity and flexibility
- 70 durometer for soft, easy handling and bending without tubing collapse

Compliance

- FDA, CFR21 Part 177 Compliant for Food Contact

Notes

- Formula V-1 tubing fully meets all specifications called out by the United States Food and Drug Administration (FDA) for materials in contact with food and drugs for human consumption
- Phthalate free construction
- Suggested operating temperature range is -40°F (-40°C) to 150°F (65°C) - reference Pressure vs. Temperature charts as pressures are lower at elevated temperatures
- Working pressure is at 73°F (23°C)

Fittings

- Parker Fittings available from:
  Fluid System Connectors Division
  Otsego, MI
- (269) 692-6555
  (269) 692-6634 FAX
  parker.com/fsc
- For approved fittings and/or suggested use of tube supports, reference Tube/Fitting Compatibility Chart (pg. B-8/B-9) or contact Parker Fluid Systems Connectors Division

Order Information
Example: PV108-1

PV108-1 – Poly-Vinyl
PV108-1 – Tube O.D. in sixteenths of an inch (5/8")
PV108-1 – Tube I.D. in sixteenths of an inch (1/2")
PV108-1 – Formula V-1 FDA Approved Formulation

⚠ WARNING
This product can expose you to chemicals including Di (2-ethylhexyl) phthalate (DEHP), which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Updated August 6, 2025

Vinyl Tubing

Series PV: Clear Vinyl Tubing

Series PV - Vinyl Tubing

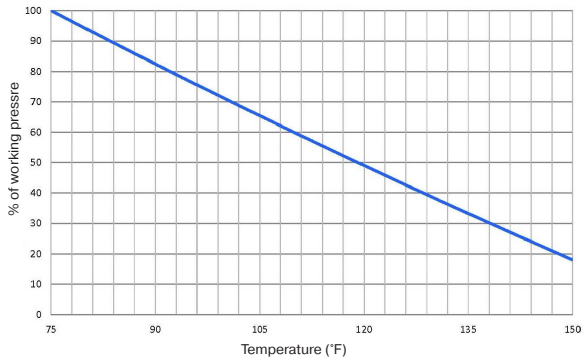
Part Number	Tube O.D.		Tube I.D.		Average Wall Thickness		Working Pressure 73°F (23°C)		Package Qty	Weight	
	inch	mm	inch	mm	inch	mm	psi	bar	ft	lbs./ft.	kg/mtr
PV21-1	1/8	3.2	.063	1.6	.031	0.8	35	2.4	100	.005	.007
PV32-1	.170	4.3	.125	3.2	.025	0.6	35	2.4	100	.006	.009
PV42-1	1/4	6.4	.125	3.2	.063	1.6	65	4.5	100	.025	.037
PV43-1	1/4	6.4	.170	4.3	.040	1.2	55	3.8	100	.014	.021
PV403-1	1/4	6.4	.188	4.8	.031	0.8	22	1.5	100	.011	.016
PV53-1	5/16	7.9	.188	4.8	.063	1.6	55	3.8	100	.025	.037
PV63-1	3/8	9.5	.188	4.8	.094	2.4	65	4.5	100	.043	.064
PV73-1	7/16	11.1	.188	4.8	.125	3.2	75	5.2	100	.063	.094
PV54-1	5/16	7.9	.250	6.4	.031	0.8	20	1.4	100	.014	.021
PV64-1	3/8	9.5	.250	6.4	.063	1.6	55	3.8	100	.032	.048
PV74-1	7/16	11.1	.250	6.4	.094	2.4	60	4.1	100	.052	.077
PV84-1	1/2	12.7	.250	6.4	.125	3.2	70	4.8	100	.076	.113
PV75-1	7/16	11.1	.313	7.9	.063	1.6	50	3.4	100	.038	.057
PV85-1	1/2	12.7	.313	7.9	.094	2.4	60	4.1	100	.062	.092
PV95-1	9/16	14.3	.313	7.9	.125	3.2	70	4.8	100	.088	.131
PV86-1	1/2	12.7	.375	9.5	.063	1.6	45	3.1	100	.044	.065
PV96-1	9/16	14.3	.375	9.5	.094	2.4	50	3.4	100	.071	.106
PV106-1	5/8	15.9	.375	9.5	.125	3.2	60	4.1	100	.101	.150
PV97-1	9/16	14.3	.438	11.1	.063	1.6	40	2.8	100	.050	.074
PV107-1	5/8	15.9	.438	11.1	.094	2.4	45	3.1	100	.080	.119
PV117-1	11/16	17.5	.438	11.1	.125	3.2	50	3.4	100	.115	.171
PV108-1	5/8	15.9	.500	12.7	.063	1.6	30	2.1	100	.057	.085
PV118-1	11/16	17.5	.500	12.7	.094	2.4	40	2.8	100	.089	.132
PV128-1	3/4	19.1	.500	12.7	.125	3.2	45	3.1	100	.126	.188
PV138-1	13/16	20.7	.500	12.7	.156	4.0	60	4.1	100	.167	.249
PV129-1	3/4	19.1	.563	14.3	.094	2.4	40	2.8	100	.099	.147
PV139-1	13/16	20.7	.563	14.3	.125	3.2	45	3.1	100	.138	.205

Colors

Color Code		
○	-	Natural

PV Tubing (Series PV)

Maximum Working Pressure (psi)



⚠ WARNING

This product can expose you to chemicals including Di (2-ethylhexyl) phthalate (DEHP), which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Updated August 6, 2025

Vinyl Tubing
Series PV: Clear Vinyl Tubing

Series PV - Vinyl Tubing

Part Number	Tube O.D.		Tube I.D.		Average Wall Thickness		Working Pressure 73°F (23°C)		Package Qty	Weight	
	inch	mm	inch	mm	inch	mm	psi	bar	ft	lbs./ft.	kg/mtr
PV1310-1	13/16	20.7	.625	15.9	.094	2.4	35	2.4	100	.108	.161
PV1410-1	7/8	22.2	.625	15.9	.125	3.2	40	2.8	100	.151	.225
PV1510-1	15/16	23.8	.625	15.9	.156	4.0	50	3.5	100	.196	.292
PV1411-1	7/8	22.2	.688	17.5	.094	2.4	30	2.1	100	.118	.176
PV1611-1	1	25.4	.688	17.5	.156	4.0	45	3.1	100	.213	.317
PV1612-1	1	25.4	.750	19.1	.125	3.2	35	2.4	100	.176	.262
PV1712-1	1-1/16	27	.750	19.1	.156	4.0	35	2.4	100	.228	.339
PV1812-1	1-1/8	28.6	.750	19.1	.188	4.8	50	3.5	100	.283	.421
PV2012-1	1-1/4	31.8	.750	19.1	.250	6.4	55	3.8	50	.409	.609
PV1814-1	1-1/8	28.6	.875	22.2	.125	3.2	30	2.1	50	.201	.299
PV1914-1	1-3/16	30.2	.875	22.2	.156	4.0	35	2.4	50	.259	.385
PV2014-1	1-1/4	31.8	.875	22.2	.188	4.8	45	3.1	50	.321	.478
PV2016-1	1-1/4	31.8	1.000	25.4	.125	3.2	25	1.7	50	.230	.342
PV2116-1	1-5/16	33.4	1.000	25.4	.156	4.0	30	2.1	50	.291	.433
PV2216-1	1-3/8	34.9	1.000	25.4	.188	4.8	40	2.8	50	.359	.534
PV2416-1	1-1/2	38.1	1.000	25.4	.250	6.4	45	3.1	50	.514	.765
PV2218-1	1-3/8	34.9	1.125	28.6	.125	3.2	25	1.7	50	.252	.375
PV2420-1	1-1/2	38.1	1.250	31.8	.125	3.2	20	1.4	50	.277	.412
PV2620-1	1-5/8	41.3	1.250	31.8	.188	4.8	35	2.4	50	.434	.646
PV2820-1	1-3/4	44.4	1.250	31.8	.250	6.4	45	3.1	50	.604	.899
PV3024-1	1-7/8	47.6	1.500	38.1	.188	4.8	30	2.1	50	.510	.759
PV3224-1	2	50.8	1.500	38.1	.250	6.4	40	2.8	50	.705	1.05
PV3628-1	2-1/4	57.2	1.750	11.1	.250	6.4	30	2.1	50	.806	1.20
PV4032-1	2-1/2	63.5	2.000	50.8	.250	6.4	35	2.4	50	.906	1.35

⚠ WARNING

This product can expose you to chemicals including Di (2-ethylhexyl) phthalate (DEHP), which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

PTFE Tubing
Series 101, 201: Fractional & Metric

Best chemical and corrosion resistance available.

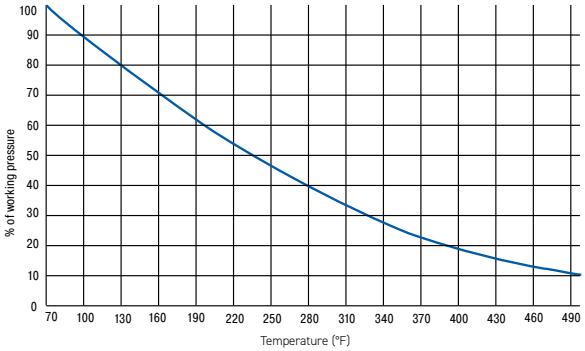


Features
- Virgin Polytetrafluoroethylene resin
- Chemically inert
- Lowest coefficient of friction
- Superior dielectric strength
- Exceptional heat resistance
- Self extinguishing
- Non-wetting
- Excellent flexlife
- Laser markable

Compliance
- 21 CFR 177.1550 compliant
- USP Class VI compliant

Notes
- Working Temperature: -100°F (-73°C) to 500°F (260°C)
- Vacuum Rating 28 @ 73°F
- Working pressure calculated using a Design Factor of 4

PTFE Tubing (Series 101, 201)
Maximum Working Pressure (psi)



Fittings
- Parker Fittings available from:
  Fluid System Connectors Division
  Otsego, MI
- (269) 692-6555
  (269) 692-6634 FAX
  parker.com/fsc
- For approved fittings and/or suggested use of tube supports, reference Tube/Fitting Compatibility Chart (pg. B-8/B-9) or contact Parker Fluid Systems Connectors Division

Example: 101-0188062-0TC-100

101-0188062-0TC-100 – **PTFE**
101-0188062-0TC-100 – **Tube O.D. in inches (3/16")**
101-0188062-0TC-100 – **Tube Wall Thickness in inches (.062")**
101-0188062-0TC-100 – **Black**
101-0188062-0TC-100 – **Bulk Tubing**
101-0188062-0TC-100 – **Solid Color Tube**
101-0188062-0TC-100 – **Package Quantity in feet (100')**

⚠ WARNING
This product can expose you to chemicals including Tetrafluoroethylene, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Tel: +45 63 12 83 00 | Email: ps@hymatik.com | www.hymatik.com | Hvidkaervej 27a, DK-5250 Odense SV, Denmark

PTFE Tubing
Series 101, 201: Fractional & Metric

Series 101 - PTFE Fractional Industrial Wall Tubing

Part Number	Order Size	Nominal O.D.		Nominal I.D.		Reference Wall Thickness		Working Pressure 73°F (23°C)		Minimum Burst Pressure		Minimum Bend Radius		Vac. Rating	Weight	
	inch	inch	mm	inch	mm	inch	mm	psi	bar	psi	bar	inch	mm		lb./ft.	kg./mt
101-0094031	3/32	0.094	2.40	0.031	0.79	0.031	0.79	390	27	1560	108	1/2	13	28	0.006	0.009
101-0125031	1/8	0.125	3.18	0.063	1.57	0.031	0.79	290	20	1160	80	1/2	13	28	0.009	0.013
101-0156031	5/32	0.156	3.99	0.094	2.39	0.031	0.79	220	15	880	61	5/8	16	28	0.011	0.016
101-0188031	3/16	0.188	4.78	0.125	3.18	0.031	0.79	180	12	720	50	3/4	19	28	0.014	0.021
101-0250031	1/4	0.250	6.35	0.190	4.83	0.031	0.79	130	9	520	36	1	25	28	0.020	0.030
101-0312031	5/16	0.312	7.92	0.250	6.35	0.031	0.79	100	7	400	28	2-1/4	57	28	0.026	0.039
101-0375031	3/8	0.375	9.52	0.312	7.92	0.031	0.79	80	6	320	22	2-3/4	70	28	0.032	0.048
101-0438031	7/16	0.438	11.13	0.375	9.52	0.031	0.79	70	5	280	19	4	102	28	0.037	0.055
101-0500031	1/2	0.500	12.70	0.438	11.13	0.031	0.79	60	4	240	17	4	102	28	0.043	0.064
101-0563031	9/16	0.563	14.30	0.500	12.70	0.031	0.79	55	4	220	15	5	127	28	0.049	0.073
101-0625031	5/8	0.625	15.88	0.563	14.30	0.031	0.79	50	3	200	14	5-1/2	140	28	0.054	0.080
101-0688031	11/16	0.688	17.48	0.625	15.88	0.031	0.79	45	3	180	12	6-1/4	159	28	0.060	0.089
101-0750032	3/4	0.750	19.05	0.688	17.48	0.032	0.81	40	3	160	11	6-1/2	165	28	0.068	0.101
101-0830040	0.830	0.830	21.08	0.750	19.05	0.040	1.02	45	3	180	12	8	203	28	0.093	0.138
101-0965045	0.965	0.965	24.51	0.875	22.22	0.045	1.14	45	3	180	12	12	305	28	0.122	0.182
101-1100050	1.100	1.100	27.94	1.000	25.40	0.050	1.27	40	3	160	11	18	457	28	0.155	0.231

Series 101 - PTFE Fractional Heavy Wall Tubing

101-0188062	3/16	.188	4.78	0.063	1.57	0.062	1.57	390	27	1560	108	1/4	6	28	0.023	0.034
101-0250047	1/4	.250	6.35	0.157	3.99	0.047	1.19	210	14	840	58	5/8	16	28	0.028	0.042
101-0250062	1/4	.250	6.35	0.125	3.18	0.062	1.57	290	20	1160	80	1/2	13	28	0.034	0.051
101-0312062	5/16	.312	7.92	0.188	4.76	0.062	1.57	222	15	888	61	7/8	22	28	0.046	0.068
101-0375062	3/8	.375	9.52	0.250	6.35	0.062	1.57	180	12	720	50	1	25	28	0.057	0.085
101-0438062	7/16	.438	11.13	0.312	7.92	0.062	1.57	150	10	600	41	2-1/4	57	28	0.069	0.103
101-0500062	1/2	.500	12.70	0.375	9.52	0.062	1.57	130	9	520	36	2-1/4	57	28	0.080	0.119
101-0563062	9/16	.563	14.30	0.437	11.13	0.062	1.57	110	8	440	30	2-3/4	70	28	0.092	0.137
101-0625062	5/8	.625	15.88	0.500	12.70	0.062	1.57	100	7	400	28	3	76	28	0.103	0.153
101-0688062	11/16	.688	17.48	0.563	14.30	0.062	1.57	90	6	360	25	5	127	28	0.115	0.171
101-0750062	3/4	.750	19.05	0.625	15.88	0.062	1.57	80	6	320	22	6	152	28	0.126	0.188
101-0875062	7/8	.875	22.22	0.750	19.05	0.062	1.57	70	5	280	19	7-1/4	184	28	0.149	0.222
101-1000062	1	1.000	25.40	0.875	22.22	0.062	1.57	100	6.9	400	28	8	203	28	0.172	0.256

Colors

- ○ Standard is natural
- Colors available as custom run

Color Code		
○	N	Natural
●	0	Black
●	1	Brown
●	2	Red
●	3	Orange
●	4	Yellow

Color Code		
●	5	Green
●	6	Blue
●	7	Violet
●	8	Gray
○	9	White

⚠ WARNING

This product can expose you to chemicals including Tetrafluoroethylene, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

PTFE Tubing
Series 201

Series 201 - PTFE Metric Size Tubing

Part Number	Order Size	Nominal O.D.		Nominal I.D.		Reference Wall Thickness		Working Pressure 73°F (23°C)		Minimum Burst Pressure		Minimum Bend Radius		Vac. Rating	Weight	
	mm	mm	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch		kg/mt	lb/ft
201-0300100	3	3	0.118	1	0.039	1	0.039	27	390	108	1560	13	1/2	28	0.014	0.009
201-0400100	4	4	0.157	2	0.074	1	0.039	20	290	80	1160	13	1/2	28	0.020	0.014
201-0500100	5	5	0.197	3	0.118	1	0.039	15	220	61	880	19	3/4	28	0.027	0.018
201-0600100	6	6	0.236	4	0.157	1	0.039	12	180	50	720	25	1	28	0.034	0.023
201-0700100	7	7	0.276	5	0.197	1	0.039	10	150	41	600	38	1-1/2	28	0.041	0.027
201-0800100	8	8	0.315	6	0.236	1	0.039	9	130	36	520	51	2	28	0.048	0.032
201-0900100	9	9	0.354	7	0.276	1	0.039	8	110	30	440	57	2-1/4	28	0.055	0.037
201-1000100	10	10	0.394	8	0.315	1	0.039	7	100	28	400	64	2-1/2	28	0.061	0.041
201-1200100	12	12	0.472	10	0.394	1	0.039	6	80	22	320	76	3	28	0.075	0.050
201-1400100	14	14	0.551	12	0.472	1	0.039	5	70	19	280	89	3-1/2	28	0.089	0.060
201-1600100	16	16	0.630	14	0.551	1	0.039	4	60	17	240	108	4-1/4	28	0.102	0.069

Colors

- ○ Standard is natural
- Colors available as custom run

Color Code		
○	N	Natural
●	0	Black
●	1	Brown
●	2	Red
●	3	Orange
●	4	Yellow

Color Code		
●	5	Green
●	6	Blue
●	7	Violet
●	8	Gray
○	9	White

⚠ WARNING

This product can expose you to chemicals including Tetrafluoroethylene, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Updated August 6, 2025

PTFE Tubing
Series AWG TFS, TFT, TFL

Best chemical and
corrosion resistance available.



Features

- Virgin Polytetrafluoroethylene resin
- Chemically inert
- Lowest coefficient of friction
- Superior dielectric strength
- Exceptional heat resistance
- Self extinguishing
- Non-wetting
- Excellent flexlife
- Laser markable

Compliance

- AMS 3653G
- 21 CFR 177.1550 compliant
- USP Class VI compliant
- Light Wall (TFL) – ASTM D3295 Class 1
- Thin Wall (TFT) – ASTM D3295 Class 2, AMS 3655, CSA 9032-01 300V
- Standard Wall (TFS) – CSA 9032-01 600V

Notes

- Working Temperature: -100°F (-73°C) to 500°F (260°C)
- AWG Spaghetti tubing is supplied in 1,000 foot spools
- Custom packaging, sizes and lengths are quoted upon request

Fittings

- Parker Fittings available from:
  Fluid System Connectors Division
  Otsego, MI
- (269) 692-6555
  (269) 692-6634 FAX
  parker.com/fsc
- For approved fittings and/or suggested use of tube supports, reference Tube/Fitting Compatibility Chart (pg. B-8/B-9) or contact Parker Fluid Systems Connectors Division

Order Information
Example: TFT13-2TC

TFT13-2TC – PTFE
TFT13-2TC – Tube Wall Thickness (Thin)
TFT13-2TC – Tube Size (AWG 13)
TFT13-2TC – Red
TFT13-2TC – Bulk Tubing
TFT13-2TC – Solid Color Tube

⚠ WARNING
This product can expose you to chemicals including Tetrafluoroethylene, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

PTFE Tubing
Series TFH

Series TFH - PTFE AWG Heavy Wall Tubing

Part Number	Order Size AWG	Nominal I.D. inch	Nominal I.D. mm	Minimum I.D. inch	Minimum I.D. mm	Maximum I.D. inch	Maximum I.D. mm	Nominal Wall inch	Nominal Wall mm	Weight lb/ft	Weight kg/mtr	Standard Packaging
TFH24	24	0.022	0.56	0.020	0.51	0.026	0.66	0.016	0.41	0.0018	0.0027	1,000 ft. spool
TFH23	23	0.026	0.66	0.023	0.58	0.029	0.74	0.016	0.41	0.0020	0.0030	1,000 ft. spool
TFH22	22	0.028	0.71	0.025	0.64	0.032	0.81	0.016	0.41	0.0021	0.0031	1,000 ft. spool
TFH21	21	0.032	0.81	0.029	0.74	0.035	0.89	0.016	0.41	0.0022	0.0033	1,000 ft. spool
TFH20	20	0.034	0.86	0.032	0.81	0.040	1.02	0.018	0.46	0.0027	0.0040	1,000 ft. spool
TFH19	19	0.038	0.97	0.036	0.91	0.044	1.12	0.020	0.51	0.0034	0.0051	1,000 ft. spool
TFH18	18	0.042	1.07	0.040	1.02	0.049	1.25	0.020	0.51	0.0036	0.0054	1,000 ft. spool
TFH17	17	0.048	1.22	0.045	1.14	0.054	1.37	0.020	0.51	0.0040	0.0060	1,000 ft. spool
TFH16	16	0.053	1.35	0.051	1.3	0.061	1.55	0.020	0.51	0.0043	0.0064	1,000 ft. spool
TFH15	15	0.059	1.50	0.057	1.45	0.067	1.70	0.020	0.51	0.0046	0.0068	1,000 ft. spool
TFH14	14	0.066	1.68	0.064	1.63	0.074	1.88	0.020	0.51	0.0050	0.0074	500 ft. spool
TFH13	13	0.076	1.93	0.072	1.83	0.082	2.08	0.020	0.51	0.0056	0.0083	500 ft. spool
TFH12	12	0.085	2.16	0.081	2.06	0.091	2.31	0.020	0.51	0.0061	0.0091	500 ft. spool
TFH11	11	0.095	2.41	0.091	2.31	0.101	2.57	0.020	0.51	0.0067	0.0100	500 ft. spool
TFH10	10	0.106	2.69	0.102	2.59	0.112	2.84	0.025	0.64	0.0096	0.0143	500 ft. spool
TFH09	9	0.118	3.00	0.114	2.90	0.124	3.15	0.025	0.64	0.0105	0.0156	500 ft. spool
TFH08	8	0.133	3.38	0.129	3.28	0.141	3.58	0.030	0.76	0.0143	0.0213	random length coils
TFH07	7	0.148	3.76	0.144	3.66	0.158	4.01	0.030	0.76	0.0156	0.0232	random length coils
TFH06	6	0.166	4.22	0.162	4.11	0.178	4.52	0.030	0.76	0.0172	0.0256	random length coils
TFH05	5	0.185	4.70	0.182	4.62	0.196	4.98	0.032	0.81	0.0203	0.0302	random length coils

OBSOLETE

Colors

- ○ Standard is natural
- Colors available as custom run

Color Code		
○	N	Natural
●	0	Black
●	1	Brown
●	2	Red
●	3	Orange
●	4	Yellow

Color Code		
●	5	Green
●	6	Blue
●	7	Violet
●	8	Gray
○	9	White

⚠ WARNING

This product can expose you to chemicals including Tetrafluoroethylene, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Updated August 6, 2025

PTFE Tubing
Series TFS

Series TFS - PTFE AWG Standard Wall Tubing

Part Number	Order Size AWG	Nominal I.D. inch	Nominal I.D. mm	Minimum I.D. inch	Minimum I.D. mm	Maximum I.D. inch	Maximum I.D. mm	Nominal Wall inch	Nominal Wall mm	Weight lb/ft	Weight kg/mtr	Standard Packaging
TFS30	30	0.012	0.31	0.010	0.25	0.015	0.38	0.009	0.23	0.0006	0.0009	1,000 ft. spool
TFS28	28	0.015	0.38	0.013	0.33	0.018	0.46	0.009	0.23	0.0006	0.0009	1,000 ft. spool
TFS26	26	0.018	0.46	0.016	0.41	0.022	0.56	0.009	0.23	0.0007	0.0010	1,000 ft. spool
TFS24	24	0.022	0.56	0.020	0.51	0.026	0.66	0.012	0.31	0.0012	0.0018	1,000 ft. spool
TFS23	23	0.026	0.66	0.023	0.58	0.029	0.74	0.012	0.31	0.0013	0.0019	1,000 ft. spool
TFS22	22	0.028	0.71	0.025	0.64	0.032	0.81	0.012	0.31	0.0014	0.0021	1,000 ft. spool
TFS21	21	0.032	0.81	0.029	0.74	0.035	0.89	0.012	0.31	0.0015	0.0022	1,000 ft. spool
TFS20	20	0.034	0.86	0.032	0.81	0.040	1.02	0.016	0.41	0.0023	0.0034	1,000 ft. spool
TFS19	19	0.038	0.97	0.036	0.91	0.044	1.12	0.016	0.41	0.0025	0.0037	1,000 ft. spool
TFS18	18	0.042	1.07	0.040	1.02	0.049	1.25	0.016	0.41	0.0270	0.0402	1,000 ft. spool
TFS17	17	0.048	1.22	0.045	1.14	0.054	1.37	0.016	0.41	0.0030	0.0045	1,000 ft. spool
TFS16	16	0.053	1.35	0.051	1.30	0.061	1.55	0.016	0.41	0.0032	0.0048	1,000 ft. spool
TFS15	15	0.059	1.50	0.057	1.45	0.067	1.70	0.016	0.41	0.0059	0.0088	500 ft. spool
TFS14	14	0.066	1.68	0.064	1.63	0.074	1.88	0.016	0.41	0.0038	0.0057	500 ft. spool
TFS13	13	0.076	1.93	0.072	1.83	0.082	2.08	0.016	0.41	0.0043	0.0064	500 ft. spool
TFS12	12	0.085	2.16	0.081	2.06	0.091	2.31	0.016	0.41	0.0047	0.0070	500 ft. spool
TFS11	11	0.095	2.41	0.091	2.31	0.101	2.57	0.016	0.41	0.0052	0.0077	500 ft. spool
TFS10	10	0.106	2.69	0.102	2.59	0.112	2.84	0.016	0.41	0.0057	0.0085	500 ft. spool
TFS09	9	0.118	3.00	0.114	2.90	0.124	3.15	0.020	0.51	0.0081	0.0121	500 ft. spool
TFS08	8	0.133	3.38	0.129	3.28	0.141	3.58	0.020	0.51	0.0090	0.0134	random length coils
TFS07	7	0.148	3.76	0.144	3.66	0.158	4.01	0.020	0.51	0.0098	0.0146	random length coils
TFS06	6	0.166	4.22	0.162	4.11	0.178	4.52	0.020	0.51	0.0109	0.0162	random length coils
TFS05	5	0.185	4.70	0.182	4.62	0.196	4.98	0.020	0.51	0.0120	0.0179	random length coils
TFS04	4	0.208	5.28	0.204	5.18	0.224	5.69	0.020	0.51	0.0133	0.0198	random length coils
TFS03	3	0.234	5.94	0.229	5.82	0.249	6.32	0.020	0.51	0.0149	0.0222	random length coils
TFS02	2	0.263	6.68	0.258	6.55	0.278	7.06	0.020	0.51	0.0166	0.0247	random length coils
TFS01	1	0.294	7.47	0.289	7.34	0.311	7.90	0.020	0.51	0.0184	0.0274	random length coils
TFS00	0	0.330	8.38	0.325	8.25	0.347	8.81	0.020	0.51	0.0205	0.0305	random length coils

Colors

- ○ Standard is natural
- Colors available as custom run

Color Code		
○	N	Natural
●	0	Black
●	1	Brown
●	2	Red
●	3	Orange
●	4	Yellow

Color Code		
●	5	Green
●	6	Blue
●	7	Violet
●	8	Gray
○	9	White

⚠ WARNING

This product can expose you to chemicals including Tetrafluoroethylene, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

PTFE Tubing
Series TFT

Series TFT - PTFE AWG Thin Wall Tubing

Part Number	Order Size AWG	Nominal I.D. inch	Nominal I.D. mm	Minimum I.D. inch	Minimum I.D. mm	Maximum I.D. inch	Maximum I.D. mm	Nominal Wall inch	Nominal Wall mm	Weight lb/ft	Weight kg/mtr	Standard Packaging
TFT32	32	0.010	0.25	0.008	0.20	0.012	0.31	0.007	0.18	0.0003	0.0004	1,000 ft. spool
TFT30	30	0.012	0.31	0.010	0.25	0.015	0.38	0.009	0.23	0.0006	0.0009	1,000 ft. spool
TFT28	28	0.015	0.38	0.013	0.33	0.018	0.46	0.009	0.23	0.0006	0.0009	1,000 ft. spool
TFT26	26	0.018	0.46	0.016	0.41	0.022	0.56	0.009	0.23	0.0007	0.0010	1,000 ft. spool
TFT24	24	0.022	0.56	0.02	0.51	0.026	0.66	0.010	0.25	0.0009	0.0013	1,000 ft. spool
TFT23	23	0.026	0.66	0.023	0.58	0.029	0.74	0.010	0.25	0.0011	0.0016	1,000 ft. spool
TFT22	22	0.028	0.71	0.025	0.64	0.032	0.81	0.010	0.25	0.0011	0.0016	1,000 ft. spool
TFT21	21	0.032	0.81	0.029	0.74	0.035	0.89	0.010	0.25	0.0012	0.0018	1,000 ft. spool
TFT20	20	0.034	0.86	0.032	0.81	0.040	1.02	0.012	0.31	0.0016	0.0024	1,000 ft. spool
TFT19	19	0.038	0.97	0.036	0.91	0.044	1.12	0.012	0.31	0.0018	0.0027	1,000 ft. spool
TFT18	18	0.042	1.07	0.040	1.02	0.049	1.25	0.012	0.31	0.0019	0.0028	1,000 ft. spool
TFT17	17	0.048	1.22	0.045	1.14	0.054	1.37	0.012	0.31	0.0021	0.0031	1,000 ft. spool
TFT16	16	0.053	1.35	0.051	1.30	0.061	1.55	0.012	0.31	0.0023	0.0034	1,000 ft. spool
TFT15	15	0.059	1.50	0.057	1.45	0.067	1.70	0.012	0.31	0.0025	0.0037	1,000 ft. spool
TFT14	14	0.066	1.68	0.064	1.63	0.074	1.88	0.012	0.31	0.0027	0.0040	500 ft. spool
TFT13	13	0.076	1.93	0.072	1.83	0.082	2.08	0.012	0.31	0.0031	0.0046	500 ft. spool
TFT12	12	0.085	2.16	0.081	2.06	0.091	2.31	0.012	0.31	0.0034	0.0051	500 ft. spool
TFT11	11	0.095	2.41	0.091	2.31	0.101	2.57	0.012	0.31	0.0038	0.0057	500 ft. spool
TFT10	10	0.106	2.69	0.102	2.59	0.112	2.84	0.012	0.31	0.0041	0.0061	500 ft. spool
TFT09	9	0.118	3.00	0.114	2.9	0.124	3.15	0.015	0.38	0.0058	0.0086	500 ft. spool
TFT08	8	0.133	3.38	0.129	3.28	0.141	3.58	0.015	0.38	0.0065	0.0097	random length coils
TFT07	7	0.148	3.76	0.144	3.66	0.158	4.01	0.015	0.38	0.0072	0.0107	random length coils
TFT06	6	0.166	4.22	0.162	4.11	0.178	4.52	0.015	0.38	0.0079	0.0118	random length coils
TFT05	5	0.185	4.70	0.182	4.62	0.196	4.98	0.015	0.38	0.0088	0.0131	random length coils
TFT04	4	0.208	5.28	0.204	5.18	0.224	5.69	0.015	0.38	0.0098	0.0146	random length coils
TFT03	3	0.234	5.94	0.229	5.82	0.249	6.32	0.015	0.38	0.0109	0.0162	random length coils
TFT02	2	0.263	6.68	0.258	6.55	0.278	7.06	0.015	0.38	0.0122	0.0182	random length coils
TFT01	1	0.294	7.47	0.289	7.34	0.311	7.90	0.015	0.38	0.0136	0.0202	random length coils
TFT00	0	0.330	8.38	0.325	8.25	0.347	8.81	0.015	0.38	0.0151	0.0225	random length coils

Colors

- ○ Standard is natural
- Colors available as custom run

Color Code		
○	N	Natural
●	0	Black
●	1	Brown
●	2	Red
●	3	Orange
●	4	Yellow

Color Code		
●	5	Green
●	6	Blue
●	7	Violet
●	8	Gray
○	9	White

⚠ WARNING

This product can expose you to chemicals including Tetrafluoroethylene, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

PTFE Tubing
Series TFL

Series TFL - PTFE AWG Light Wall Tubing

Part Number	Order Size AWG	Nominal I.D. inch	Nominal I.D. mm	Minimum I.D. inch	Minimum I.D. mm	Maximum I.D. inch	Maximum I.D. mm	Nominal Wall inch	Nominal Wall mm	Weight lb/ft	Weight kg/mtr	Standard Packaging
TFL32	32	0.010	0.25	0.008	0.20	0.012	0.31	0.005	0.13	0.0002	0.0003	1,000 ft. spool
TFL30	30	0.012	0.31	0.010	0.25	0.015	0.38	0.006	0.13	0.0003	0.0004	1,000 ft. spool
TFL28	28	0.015	0.38	0.013	0.33	0.018	0.46	0.006	0.13	0.0004	0.0006	1,000 ft. spool
TFL26	26	0.018	0.46	0.016	0.41	0.022	0.56	0.006	0.13	0.0004	0.0006	1,000 ft. spool
TFL24	24	0.022	0.56	0.020	0.51	0.026	0.66	0.006	0.13	0.0005	0.0007	1,000 ft. spool
TFL23	23	0.026	0.66	0.023	0.58	0.029	0.74	0.006	0.13	0.0006	0.0009	1,000 ft. spool
TFL22	22	0.028	0.71	0.025	0.64	0.032	0.81	0.006	0.13	0.0006	0.0009	1,000 ft. spool
TFL21	21	0.032	0.81	0.029	0.74	0.035	0.89	0.006	0.13	0.0007	0.0010	1,000 ft. spool
TFL20	20	0.034	0.86	0.032	0.81	0.040	1.02	0.006	0.13	0.0007	0.0010	1,000 ft. spool
TFL19	19	0.038	0.97	0.036	0.91	0.044	1.12	0.006	0.13	0.0008	0.0012	1,000 ft. spool
TFL18	18	0.042	1.07	0.040	1.02	0.049	1.25	0.006	0.13	0.0008	0.0012	1,000 ft. spool
TFL17	17	0.048	1.22	0.045	1.14	0.054	1.37	0.006	0.13	0.0009	0.0013	1,000 ft. spool
TFL16	16	0.053	1.35	0.051	1.30	0.061	1.55	0.006	0.13	0.0010	0.0015	1,000 ft. spool
TFL15	15	0.059	1.50	0.057	1.45	0.067	1.70	0.006	0.13	0.0011	0.0016	1,000 ft. spool
TFL14	14	0.066	1.68	0.064	1.63	0.074	1.88	0.008	0.20	0.0017	0.0025	500 ft. spool
TFL13	13	0.076	1.93	0.072	1.83	0.082	2.08	0.008	0.20	0.0020	0.0030	500 ft. spool
TFL12	12	0.085	2.16	0.081	2.06	0.091	2.31	0.008	0.20	0.0022	0.0033	500 ft. spool
TFL11	11	0.095	2.41	0.091	2.31	0.101	2.57	0.008	0.20	0.0024	0.0036	500 ft. spool
TFL10	10	0.106	2.69	0.102	2.59	0.112	2.84	0.008	0.20	0.0027	0.0040	500 ft. spool
TFL09	9	0.118	3.00	0.114	2.90	0.124	3.15	0.008	0.20	0.0030	0.0045	500 ft. spool
TFL08	8	0.133	3.38	0.129	3.28	0.141	3.58	0.008	0.20	0.0033	0.0049	random length coils
TFL07	7	0.148	3.76	0.144	3.66	0.158	4.01	0.008	0.20	0.0037	0.0055	random length coils
TFL06	6	0.166	4.22	0.162	4.11	0.178	4.52	0.010	0.25	0.0052	0.0077	random length coils
TFL05	5	0.185	4.70	0.182	4.62	0.196	4.98	0.010	0.25	0.0057	0.0085	random length coils
TFL04	4	0.208	5.28	0.204	5.18	0.224	5.69	0.010	0.25	0.0064	0.0095	random length coils
TFL03	3	0.234	5.94	0.229	5.82	0.249	6.32	0.010	0.25	0.0071	0.0106	random length coils
TFL02	2	0.263	6.68	0.258	6.55	0.278	7.06	0.010	0.25	0.0080	0.0119	random length coils
TFL01	1	0.294	7.47	0.289	7.34	0.311	7.90	0.012	0.31	0.0107	0.0159	random length coils
TFL00	0	0.330	8.38	0.325	8.25	0.347	8.81	0.012	0.31	0.0120	0.0179	random length coils

Colors

- ○ Standard is natural
- Colors available as custom run

Color Code		
○	N	Natural
●	0	Black
●	1	Brown
●	2	Red
●	3	Orange
●	4	Yellow

Color Code		
●	5	Green
●	6	Blue
●	7	Violet
●	8	Gray
○	9	White

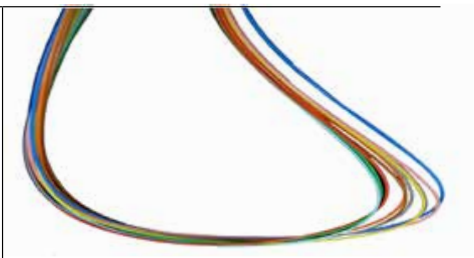
⚠ WARNING

This product can expose you to chemicals including Tetrafluoroethylene, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Updated August 6, 2025

PTFE Beading
Series TFB

Heat resistant beading is a solid profile; ideal for electrical applications.



Features
- Virgin Polytetrafluoroethylene resin
- Chemically inert
- Lowest coefficient of friction
- Superior dielectric strength
- Exceptional heat resistance
- Self extinguishing
- Non-wetting
- Excellent flexlife
- Laser markable

Compliance
- ASTM D1710, Type 1, Grade 1, Class B
- ASTM D3295
- 21 CFR 177.1550 compliant
- USP Class VI compliant

Notes
- Working Temperature: -100°F (-73°C) to 500°F (260°C)
- Vacuum Rating 28 @ 73°F
- Working pressure calculated using a Design Factor of 4

Colors
- ○ Standard is natural
- Colors available as custom run

Color Code			Color Code		
○	N	Natural	●	5	Green
●	0	Black	●	6	Blue
●	1	Brown	●	7	Violet
●	2	Red	●	8	Gray
●	3	Orange	○	9	White
●	4	Yellow			

Order Information
Example: TFB028-NT

TFB028-NT – PTFE Beading
TFB028-NT – Beading O.D. in inches (0.028")
TFB028-NT – Natural
TFB028-NT – Bulk Tubing

⚠ WARNING
This product can expose you to chemicals including Tetrafluoroethylene, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Tel: +45 63 12 83 00 | Email: ps@hymatik.com | www.hymatik.com | Hvidkaervej 27a, DK-5250 Odense SV, Denmark

PTFE Beading
Series TFB

Series TFB - PTFE Beading (Solid Tube)

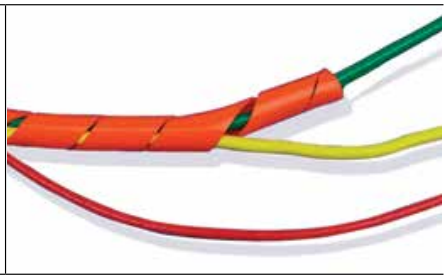
Part Number	Diameter		Tolerance		Weight		Standard Packaging
	inch	mm	inch	mm	lb/ft	kg/mtr	
TFB015	0.015	0.38	± 0.002	± 0.05	0.0002	0.0003	1,000 ft. Spool
TFB020	0.020	0.51	± 0.002	± 0.05	0.0003	0.0004	1,000 ft. Spool
TFB025	0.025	0.64	± 0.002	± 0.05	0.0005	0.0007	1,000 ft. Spool
TFB028	0.028	0.71	± 0.002	± 0.05	0.0006	0.0009	1,000 ft. Spool
TFB031	0.031	0.79	± 0.002	± 0.05	0.0007	0.0010	1,000 ft. Spool
TFB035	0.035	0.89	± 0.002	± 0.05	0.0009	0.0013	1,000 ft. Spool
TFB039	0.039	0.99	± 0.002	± 0.05	0.0011	0.0016	1,000 ft. Spool
TFB043	0.043	1.09	± 0.002	± 0.05	0.0014	0.0021	1,000 ft. Spool
TFB047	0.047	1.19	± 0.002	± 0.05	0.0016	0.0024	1,000 ft. Spool
TFB050	0.050	1.27	± 0.002	± 0.05	0.0018	0.0027	1,000 ft. Spool
TFB055	0.055	1.40	± 0.003	± 0.08	0.0022	0.0033	1,000 ft. Spool
TFB060	0.060	1.52	± 0.003	± 0.08	0.0026	0.0039	1,000 ft. Spool
TFB062	0.062	1.57	± 0.003	± 0.08	0.0028	0.0042	1,000 ft. Spool
TFB070	0.070	1.78	± 0.003	± 0.08	0.0036	0.0054	1,000 ft. Spool
TFB072	0.072	1.83	± 0.003	± 0.08	0.0038	0.0057	1,000 ft. Spool
TFB078	0.078	1.98	± 0.004	± 0.10	0.0045	0.0067	500 ft. Spool
TFB080	0.080	2.03	± 0.004	± 0.10	0.0047	0.0070	500 ft. Spool
TFB084	0.084	2.13	± 0.004	± 0.10	0.0052	0.0077	500 ft. Spool
TFB090	0.090	2.29	± 0.004	± 0.10	0.0059	0.0088	500 ft. Spool
TFB094	0.094	2.39	± 0.004	± 0.10	0.0065	0.0097	500 ft. Spool
TFB100	0.100	2.54	± 0.004	± 0.10	0.0073	0.0109	500 ft. Spool
TFB109	0.109	2.77	± 0.004	± 0.10	0.0087	0.0129	500 ft. Spool
TFB115	0.115	2.92	± 0.004	± 0.10	0.0097	0.0144	500 ft. Spool
TFB125	0.125	3.18	± 0.004	± 0.10	0.0114	0.0170	Random Length
TFB150	0.150	3.81	± 0.004	± 0.10	0.0165	0.0246	Random Length
TFB188	0.188	4.78	± 0.004	± 0.10	0.0259	0.0385	Random Length

⚠ WARNING

This product can expose you to chemicals including Tetrafluoroethylene, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

PTFE Spiral Cut Tubing
Series TSWTF

High temperature
harnessing for wires and cables.



Features
- Provides harnessing for wires and cable while allowing leads at various points
- Exceptional heat resistance
- Self extinguishing
- Flexible
- Superior dielectric strength

Compliance
- ASTM D3295

Notes
- Working Temperature: -100°F (-73°C) to 500°F (260°C)
- Available in left- or right-hand cut. Please specify with proper suffix at end of part number (i.e. TSWTF-1/8-R)

Colors
- ○ Standard is natural
- Colors available as custom run

Color Code		
○	N	Natural
●	0	Black
●	1	Brown
●	2	Red
●	3	Orange
●	4	Yellow

Color Code		
●	5	Green
●	6	Blue
●	7	Violet
●	8	Gray
○	9	White

Order Information
Example: TSWTF-3/8-5TC-R

TSWTF-3/8-5TC-R – Spiral Wrap Tubing
TSWTF-3/8-5TC-R – PTFE
TSWTF-3/8-5TC-R – Tube O.D. in inches (3/8")
TSWTF-3/8-5TC-R – Green
TSWTF-3/8-5TC-R – Bulk Tubing
TSWTF-3/8-5TC-R – Solid Color
TSWTF-3/8-5TC-R – Right Hand Cut Spiral

⚠ WARNING
This product can expose you to chemicals including Tetrafluoroethylene, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

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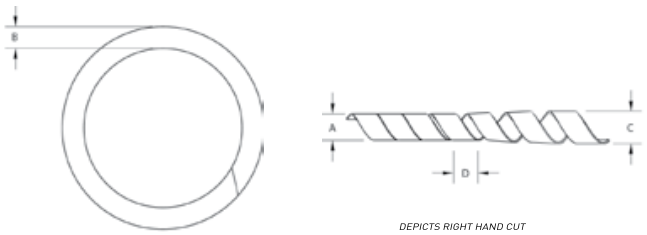
PTFE Spiral Cut Tubing
Series TSWTF

Series TSWTF - PTFE Spiral Cut Tubing

Part Number	Nominal O.D. "A"		Wall Thickness "B"		Pitch "D"		Pitch Tolerance		Maximum Bundle O.D. "C"		Weight	
	inch	mm	inch	mm	inch	mm	psi	bar	inch	mm	lb/ft	kg/mtr
TSWTF-1/8-NT	0.125	3.18	0.020	0.508	0.212	5.38	± 0.015	0.381	1/2	12.7	0.0061	0.0091
TSWTF-3/16-NT	0.188	4.78	0.030	0.762	0.312	7.92	± 0.015	0.381	1	25.4	0.0142	0.0211
TSWTF-1/4-NT	0.250	6.35	0.030	0.762	0.375	9.52	± 0.015	0.381	2	50.8	0.0085	0.0126
TSWTF-3/8-NT	0.375	9.52	0.030	0.762	0.437	11.1	± 0.015	0.381	2-1/2	63.5	0.0317	0.0472
TSWTF-1/2-NT	0.500	12.7	0.030	0.762	0.562	14.27	± 0.015	0.381	3	76.2	0.0426	0.0634
TSWTF-3/4-NT	0.75	19.1	0.040	1.02	0.875	22.22	± 0.015	0.381	4	101.6	0.0831	0.1237
TSWTF-1.00-NT	1	25.4	0.040	1.02	1	25.4	± 0.015	0.381	6	152.4	0.1124	0.1673





WARNING
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PTFE Heat Shrinkable Tubing

Series HS2TFS, HS2TFT, HS2TFL, HS2TFI, HS4TFI

Supplied expanded, allowing easy slippage over instruments, fittings and other protrusions.

2:1 Heat Shrink Ratio
4:1 Heat Shrink Ratio



Features

- Virgin Polytetrafluoroethylene resin
- 2:1 Shrink Ratio
- Chemically inert
- Lowest coefficient of friction
- Superior dielectric strength
- Exceptional heat resistance
- Self extinguishing
- Non-wetting

Compliance

- ASTM 2902 Type I
- 21 CFR 177.1550 compliant
- USP Class VI
- AS23053/12

Notes

- Working Temperature: -100°F (-73°C) to 500°F (260°C)
- Shrink Temperature: 662°F (350°C) for 10 minutes per AMS-DTL-23053/12A
- *Dielectric Strength: > 800 v/m, per ASTM D 149 short term test of
  10 MIL thickness (volts/mil)
- PTFE Heat Shrink tubing is available in stock packaging of 4-ft. straight lengths
- When ordering coiled tubing in colors, the color code is always followed by TC; when ordering cut lengths, the color code is followed by CC
  i.e. HS2TFI7/8-2TC
  i.e. HS2TFI7/8-0CC48.000

Colors

- ○ Standard is natural
- Colors available as custom run

Color Code			Color Code		
○	N	Natural	●	5	Green
●	0	Black	●	6	Blue
●	1	Brown	●	7	Violet
●	2	Red	●	8	Gray
●	3	Orange	○	9	White
●	4	Yellow			

Order Information
Example: HS4TFI5/8-NC48.000

HS4TFI5/8-NC48.000 – Heat Shrink
HS4TFI5/8-NC48.000 – Shrink Ratio (4:1)
HS4TFI5/8-NC48.000 – PTFE
HS4TFI5/8-NC48.000 – Wall Type (Industrial Wall)
HS4TFI5/8-NC48.000 – Heat Shrink Size in inches (5/8")
HS4TFI5/8-NC48.000 – Natural
HS4TFI5/8-NC48.000 – Bulk Tubing
HS4TFI5/8-NC48.000 – Package Quantity in inches (48")

Order Information
Example: HS2TFS15-4TC48.000

HS2TFS15-4TC48.000 – Heat Shrink
HS2TFS15-4TC48.000 – Shrink Ratio (2:1)
HS2TFS15-4TC48.000 – PTFE
HS2TFS15-4TC48.000 – Wall Type (Standard Wall)
HS2TFS15-4TC48.000 – Heat Shrink Size in AWG (AWG15)
HS2TFS15-4TC48.000 – Red
HS2TFS15-4TC48.000 – Bulk Tubing
HS2TFS15-4TC48.000 – Solid Color
HS2TFS15-4TC48.000 – Package Quantity in inches (48")

⚠ WARNING
This product can expose you to chemicals including Tetrafluoroethylene, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

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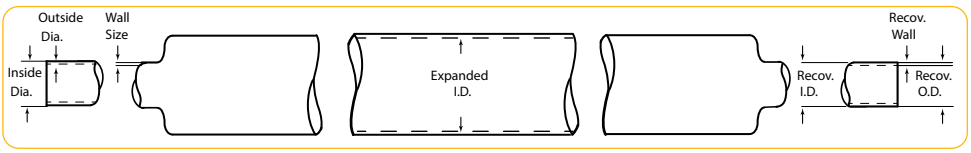
PTFE Heat Shrinkable Tubing

Series HS2TFS, HS2TFT, HS2TFL, HS2TFI, HS4TFI

Series HS2TFS, HS2TFT, HS2TFL, HS2TFI - 2:1 PTFE Fractional Heat Shrink Tubing

Part Number	Mil Spec Part Number	Order Size	Minimum Expanded I.D.		Maximum Recovered I.D.		Nominal Recovered Wall		Weight	
			inch	mm	inch	mm	inch	mm	lb/ft	kg/mtr
HS2TFS1/8	-	1/8	0.215	5.5	0.130	3.3	0.020 ± 0.004	0.51 ± 0.10	0.0085	0.0126
HS2TFS1/4	M23053/12-222-C	1/4	0.410	10.4	0.260	4.9	0.020 ± 0.004	0.51 ± 0.10	0.0158	0.0235
HS2TFS5/16	M23053/12-225-C	5/16	0.470	11.9	0.329	6.5	0.020 ± 0.004	0.51 ± 0.10	0.0190	0.0283
HS2TFS3/8	M23053/12-228-C	3/8	0.560	14.2	0.399	8.1	0.025 ± 0.006	0.64 ± 0.15	0.0301	0.0448
HS2TFS7/16	M23053/12-229-C	7/16	0.655	16.6	0.462	9.7	0.025 ± 0.006	0.64 ± 0.15	0.0332	0.0494
HS2TFS1/2	M23053/12-230-C	1/2	0.750	19.1	0.524	11.4	0.025 ± 0.006	0.64 ± 0.15	0.0377	0.0561
HS2TFS5/8	M23053/12-231-C	5/8	0.930	23.6	0.655	13.0	0.030 ± 0.006	0.76 ± 0.15	0.0605	0.0900
HS2TFS3/4	M23053/12-232-C	3/4	1.125	28.6	0.786	14.5	0.035 ± 0.008	0.89 ± 0.20	0.0795	0.1183
HS2TFS7/8	M23053/12-233-C	7/8	1.130	28.7	0.911	16.2	0.035 ± 0.008	0.89 ± 0.20	0.0921	0.1370
HS2TFS1.00	M23053/12-234-C	1	1.500	38.1	1.034	26.3	0.035 ± 0.008	0.89 ± 0.20	0.1040	0.1548
HS2TFT1/8	M23053/12-319-C	1/8	0.215	5.5	0.130	3.3	0.015 ± 0.003	0.38 ± 0.08	0.0061	0.0091
HS2TFT1/4	M23053/12-326-C	1/4	0.410	10.4	0.260	6.6	0.015 ± 0.004	0.38 ± 0.10	0.0119	0.0177
HS2TFT5/16	M23053/12-329-C	5/16	0.470	11.9	0.329	8.4	0.015 ± 0.004	0.38 ± 0.10	0.0148	0.0220
HS2TFT3/8	-	3/8	0.560	14.2	0.399	10.1	0.015 ± 0.004	0.38 ± 0.10	0.0176	0.0262
HS2TFT7/16	-	7/16	0.655	16.6	0.462	11.7	0.018 ± 0.004	0.46 ± 0.10	0.0240	0.0357
HS2TFT1/2	-	1/2	0.750	19.1	0.524	13.3	0.018 ± 0.004	0.46 ± 0.10	0.0278	0.0414
HS2TFT5/8	-	5/8	0.930	23.6	0.655	16.6	0.020 ± 0.004	0.51 ± 0.10	0.0375	0.0558
HS2TFT3/4	-	3/4	1.125	28.6	0.786	20.0	0.025 ± 0.004	0.64 ± 0.10	0.0746	0.1110
HS2TFT7/8	-	7/8	1.130	28.7	0.911	23.1	0.025 ± 0.004	0.64 ± 0.10	0.0795	0.1183
HS2TFT1.00	-	1	1.500	38.1	1.034	26.3	0.025 ± 0.004	0.64 ± 0.10	0.0904	0.1345
HS2TFL1/8	M23053/12-415	1/8	0.215	5.5	0.130	3.3	0.008 ± 0.002	0.20 ± 0.05	0.0032	0.0048
HS2TFL1/4	M23053/12-422	1/4	0.410	10.4	0.260	6.6	0.010 ± 0.003	0.25 ± 0.08	0.0079	0.0118
HS2TFL5/16	M23053/12-425	5/16	0.470	11.9	0.329	8.4	0.012 ± 0.003	0.31 ± 0.08	0.0120	0.0179
HS2TFI1/8	-	1/8	0.166	4.2	0.130	3.3	0.030 ± 0.005	0.76 ± 0.13	0.0114	0.0170
HS2TFI3/16	M23053/12-102-C	3/16	0.250	6.4	0.193	4.9	0.030 ± 0.005	0.76 ± 0.13	0.0191	0.0284
HS2TFI1/4	M23053/12-103-C	1/4	0.333	8.4	0.257	6.5	0.030 ± 0.005	0.76 ± 0.13	0.0246	0.0366
HS2TFI5/16	M23053/12-104-C	5/16	0.415	10.5	0.320	8.1	0.030 ± 0.005	0.76 ± 0.13	0.0307	0.0457
HS2TFI3/8	M23053/12-105-C	3/8	0.498	12.6	0.383	9.7	0.030 ± 0.005	0.76 ± 0.13	0.0342	0.0509
HS2TFI7/16	M23053/12-106-C	7/16	0.580	14.7	0.448	11.4	0.030 ± 0.006	0.76 ± 0.15	0.0411	0.0612
HS2TFI1/2	M23053/12-107-C	1/2	0.666	16.9	0.510	13.0	0.030 ± 0.006	0.76 ± 0.15	0.0461	0.0686
HS2TFI9/16	M23053/12-108-C	1/2	0.748	19.0	0.572	14.5	0.030 ± 0.006	0.76 ± 0.15	0.0519	0.0772
HS2TFI5/8	M23053/12-109-C	5/8	0.830	21.1	0.637	16.2	0.030 ± 0.006	0.76 ± 0.15	0.0476	0.0708
HS2TFI11/16	M23053/12-110-C	11/16	0.915	23.2	0.700	17.8	0.032 ± 0.006	0.81 ± 0.15	0.6300	0.9374
HS2TFI3/4	-	3/4	1.000	25.4	0.764	19.4	0.040 ± 0.007	1.02 ± 0.18	0.0941	0.1400
HS2TFI7/8	-	7/8	1.170	29.7	0.891	22.6	0.045 ± 0.007	1.14 ± 0.18	0.1233	0.1835
HS2TFI1.00	-	1	1.330	33.8	1.020	25.9	0.050 ± 0.008	1.27 ± 0.20	0.1566	0.2330



WARNING

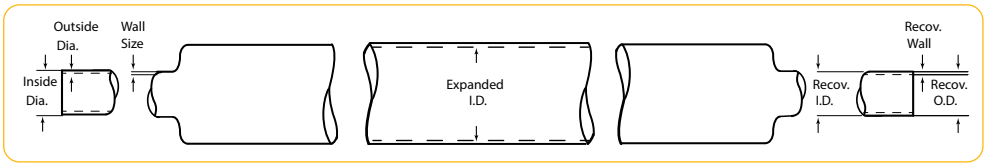
This product can expose you to chemicals including Tetrafluoroethylene, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

PTFE Heat Shrinkable Tubing
Series HS2TFS AWG 2:1

Series HS2TFS - AWG 2:1 Standard Wall Heat Shrink Tubing

Part Number	Mil Spec Part Number	Order Size AWG	Minimum Expanded I.D. inch	Minimum Expanded I.D. mm	Maximum Recovered I.D. inch	Maximum Recovered I.D. mm	Nominal Recovered Wall inch	Nominal Recovered Wall mm	Weight lb/ft	Weight kg/mtr
HS2TFS24	M23053/12-201-C	24	0.050	1.3	0.027	0.7	0.012 ± 0.002	0.31 ± 0.05	0.0011	0.0016
HS2TFS22	M23053/12-202-C	22	0.055	1.4	0.032	0.8	0.012 ± 0.002	0.31 ± 0.05	0.0013	0.0019
HS2TFS20	M23053/12-203-C	20	0.060	1.5	0.039	1.0	0.016 ± 0.003	0.41 ± 0.08	0.0022	0.0033
HS2TFS19	M23053/12-204-C	19	0.065	1.7	0.043	1.1	0.016 ± 0.003	0.41 ± 0.08	0.0024	0.0036
HS2TFS18	M23053/12-205-C	18	0.076	1.9	0.049	1.3	0.016 ± 0.003	0.41 ± 0.08	0.0028	0.0042
HS2TFS17	M23053/12-206-C	17	0.085	2.2	0.054	1.4	0.016 ± 0.003	0.41 ± 0.08	0.0029	0.0043
HS2TFS16	-	16	0.093	2.4	0.061	1.6	0.016 ± 0.003	0.41 ± 0.08	0.0033	0.0049
HS2TFS15	M23053/12-207-C	15	0.110	2.8	0.067	1.7	0.016 ± 0.003	0.41 ± 0.08	0.0035	0.0052
HS2TFS14	M23053/12-208-C	14	0.120	3.1	0.072	1.8	0.016 ± 0.003	0.41 ± 0.08	0.0038	0.0057
HS2TFS13	M23053/12-210-C	13	0.140	3.6	0.080	2.0	0.016 ± 0.003	0.41 ± 0.08	0.0041	0.0061
HS2TFS12	M23053/12-211-C	12	0.150	3.8	0.089	2.3	0.016 ± 0.003	0.41 ± 0.08	0.0044	0.0065
HS2TFS11	M23053/12-212-C	11	0.170	4.3	0.101	2.6	0.016 ± 0.003	0.41 ± 0.08	0.0050	0.0074
HS2TFS10	M23053/12-213-C	10	0.191	4.9	0.112	2.8	0.016 ± 0.003	0.41 ± 0.08	0.0055	0.0082
HS2TFS09	M23053/12-214-C	9	0.205	5.2	0.124	3.2	0.020 ± 0.004	0.51 ± 0.10	0.0075	0.0112
HS2TFS08	M23053/12-216-C	8	0.240	6.1	0.141	3.6	0.020 ± 0.004	0.51 ± 0.10	0.0099	0.0147
HS2TFS07	M23053/12-217-C	7	0.270	6.9	0.158	4.0	0.020 ± 0.004	0.51 ± 0.10	0.0097	0.0144
HS2TFS06	M23053/12-218-C	6	0.302	7.7	0.178	4.5	0.020 ± 0.004	0.51 ± 0.10	0.0107	0.0159
HS2TFS05	M23053/12-219-C	5	0.320	8.1	0.198	5.0	0.020 ± 0.004	0.51 ± 0.10	0.0133	0.0198
HS2TFS04	M23053/12-220-C	4	0.370	9.4	0.224	5.7	0.020 ± 0.004	0.51 ± 0.10	0.0114	0.0170
HS2TFS03	M23053/12-221-C	3	0.390	9.9	0.249	6.3	0.020 ± 0.004	0.51 ± 0.10	0.0150	0.0223
HS2TFS02	M23053/12-223-C	2	0.430	10.9	0.278	7.1	0.020 ± 0.004	0.51 ± 0.10	0.0167	0.0248
HS2TFS01	M23053/12-224-C	1	0.450	11.4	0.311	7.9	0.020 ± 0.004	0.51 ± 0.10	0.0186	0.0277
HS2TFS00	M23053/12-226-C	0	0.470	11.9	0.347	8.8	0.020 ± 0.004	0.51 ± 0.10	0.0203	0.0302

*Dielectric Strength: > 800 v/m, per ASTM D 149 short term test of 10 MIL thickness (volts/mil)



Colors

- ○ Standard is natural
- Colors available as custom run

Color Code		
○	N	Natural
●	0	Black
●	1	Brown
●	2	Red
●	3	Orange
●	4	Yellow

Color Code		
●	5	Green
●	6	Blue
●	7	Violet
●	8	Gray
○	9	White

⚠ WARNING

This product can expose you to chemicals including Tetrafluoroethylene, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

PTFE Heat Shrinkable Tubing
Series HS2TFT AWG 2:1

Series HS2TFT - AWG 2:1 Thin Wall Heat Shrink Tubing

Part Number	Mil Spec Part Number	Order Size AWG	Minimum Expanded I.D. inch	mm	Maximum Recovered I.D. inch	mm	Nominal Recovered Wall inch	mm	Weight lb/ft	kg/mtr
HS2TFT24	M23053/12-304-C	24	0.050	1.3	0.027	0.7	0.010 ± 0.002	0.25 ± 0.08	0.0009	0.0013
HS2TFT22	M23053/12-305-C	22	0.055	1.4	0.032	0.8	0.012 ± 0.003	0.31 ± 0.08	0.0014	0.0021
HS2TFT20	M23053/12-306-C	20	0.060	1.5	0.039	1.0	0.012 ± 0.003	0.31 ± 0.08	0.0015	0.0022
HS2TFT19	M23053/12-307-C	19	0.065	1.7	0.043	1.1	0.012 ± 0.003	0.31 ± 0.08	0.0018	0.0027
HS2TFT18	M23053/12-308-C	18	0.076	1.9	0.049	1.3	0.012 ± 0.003	0.31 ± 0.08	0.0019	0.0028
HS2TFT17	M23053/12-309-C	17	0.085	2.2	0.054	1.4	0.012 ± 0.003	0.31 ± 0.08	0.0021	0.0031
HS2TFT16	M23053/12-310-C	16	0.093	2.4	0.061	1.6	0.012 ± 0.003	0.31 ± 0.08	0.0024	0.0036
HS2TFT15	M23053/12-311-C	15	0.110	2.8	0.067	1.7	0.012 ± 0.003	0.31 ± 0.08	0.0025	0.0037
HS2TFT14	M23053/12-312-C	14	0.120	3.1	0.072	1.8	0.012 ± 0.003	0.31 ± 0.08	0.0028	0.0042
HS2TFT13	M23053/12-313-C	13	0.140	3.6	0.080	2.0	0.012 ± 0.003	0.31 ± 0.08	0.0030	0.0045
HS2TFT12	M23053/12-314-C	12	0.150	3.8	0.089	2.3	0.012 ± 0.003	0.31 ± 0.08	0.0032	0.0048
HS2TFT11	M23053/12-316-C	11	0.170	4.3	0.101	2.6	0.012 ± 0.003	0.31 ± 0.08	0.0036	0.0054
HS2TFT10	M23053/12-317-C	10	0.191	4.9	0.112	2.8	0.012 ± 0.003	0.31 ± 0.08	0.0040	0.0060
HS2TFT09	M23053/12-318-C	9	0.205	5.2	0.124	3.2	0.015 ± 0.004	0.38 ± 0.10	0.0056	0.0083
HS2TFT08	M23053/12-320-C	8	0.240	6.1	0.141	3.6	0.015 ± 0.004	0.38 ± 0.10	0.0063	0.0094
HS2TFT07	M23053/12-321-C	7	0.270	6.9	0.158	4.0	0.015 ± 0.004	0.38 ± 0.10	0.0071	0.0106
HS2TFT06	M23053/12-322-C	6	0.302	7.7	0.178	4.5	0.015 ± 0.004	0.38 ± 0.10	0.0080	0.0119
HS2TFT05	M23053/12-323-C	5	0.320	8.1	0.198	5.0	0.015 ± 0.004	0.38 ± 0.10	0.0090	0.0134
HS2TFT04	M23053/12-324-C	4	0.370	9.4	0.224	5.7	0.015 ± 0.004	0.38 ± 0.10	0.0097	0.0144
HS2TFT03	M23053/12-325-C	3	0.390	9.9	0.249	6.3	0.015 ± 0.004	0.38 ± 0.10	0.0108	0.0161
HS2TFT02	M23053/12-327-C	2	0.430	10.9	0.278	7.1	0.015 ± 0.004	0.38 ± 0.10	0.0125	0.0186
HS2TFT01	M23053/12-328-C	1	0.450	11.4	0.311	7.9	0.015 ± 0.004	0.38 ± 0.10	0.0123	0.0183
HS2TFT00	M23053/12-330-C	0	0.470	11.9	0.347	8.8	0.015 ± 0.004	0.38 ± 0.10	0.0148	0.0220

*Dielectric Strength: > 800 v/m, per ASTM D 149 short term test of 10 MIL thickness (volts/mil)

Colors

- ○ Standard is natural
- Colors available as custom run

Color Code		
○	N	Natural
●	0	Black
●	1	Brown
●	2	Red
●	3	Orange
●	4	Yellow

Color Code		
●	5	Green
●	6	Blue
●	7	Violet
●	8	Gray
○	9	White

⚠ WARNING

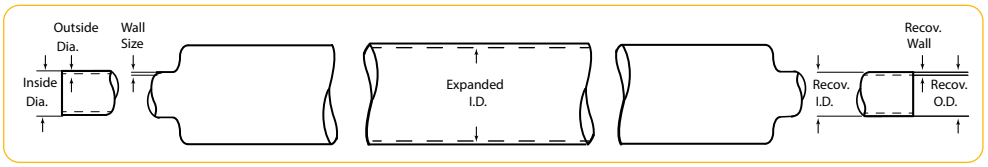
This product can expose you to chemicals including Tetrafluoroethylene, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

PTFE Heat Shrinkable Tubing
Series HS2TFL AWG 2:1

Series HS2TFL - AWG 2:1 Light Wall Heat Shrink Tubing

Part Number	Mil Spec Part Number	Order Size AWG	Minimum Expanded I.D. inch	mm	Maximum Recovered I.D. inch	mm	Nominal Recovered Wall inch	mm	Weight lb/ft	kg/mtr
HS2TFL24	-	24	0.050	1.3	0.025	0.6	0.006 ± 0.002	0.15 ± 0.05	0.0005	0.0007
HS2TFL22	-	22	0.055	1.4	0.031	0.8	0.006 ± 0.002	0.15 ± 0.05	0.0006	0.0009
HS2TFL20	-	20	0.060	1.5	0.038	1.0	0.006 ± 0.002	0.15 ± 0.05	0.0006	0.0009
HS2TFL19	-	19	0.065	1.7	0.043	1.1	0.006 ± 0.002	0.15 ± 0.05	0.0007	0.0010
HS2TFL18	-	18	0.076	1.9	0.046	1.2	0.006 ± 0.002	0.15 ± 0.05	0.0008	0.0012
HS2TFL17	-	17	0.085	2.2	0.054	1.4	0.006 ± 0.002	0.15 ± 0.05	0.0009	0.0013
HS2TFL16	-	16	0.093	2.4	0.057	1.5	0.006 ± 0.002	0.15 ± 0.05	0.0011	0.0016
HS2TFL15	-	15	0.110	2.8	0.063	1.6	0.006 ± 0.002	0.15 ± 0.05	0.0011	0.0016
HS2TFL14	-	14	0.120	3.1	0.072	1.8	0.008 ± 0.002	0.20 ± 0.05	0.0017	0.0025
HS2TFL13	-	13	0.140	3.6	0.080	2.0	0.008 ± 0.002	0.20 ± 0.05	0.0018	0.0027
HS2TFL12	-	12	0.150	3.8	0.089	2.3	0.008 ± 0.002	0.20 ± 0.05	0.0020	0.0030
HS2TFL11	-	11	0.170	4.3	0.099	2.5	0.008 ± 0.002	0.20 ± 0.05	0.0023	0.0034
HS2TFL10	M23053/12-413	10	0.191	4.9	0.110	2.8	0.008 ± 0.002	0.20 ± 0.05	0.0026	0.0039
HS2TFL09	M23053/12-414	9	0.205	5.2	0.122	3.1	0.008 ± 0.002	0.20 ± 0.05	0.0026	0.0039
HS2TFL08	M23053/12-416	8	0.240	6.1	0.139	3.5	0.008 ± 0.002	0.20 ± 0.05	0.0032	0.0048
HS2TFL07	M23053/12-417	7	0.270	6.9	0.154	3.9	0.008 ± 0.002	0.20 ± 0.05	0.0037	0.0055
HS2TFL06	M23053/12-418	6	0.302	7.7	0.172	4.4	0.010 ± 0.003	0.25 ± 0.08	0.0049	0.0073
HS2TFL05	M23053/12-419	5	0.320	8.1	0.192	4.9	0.010 ± 0.003	0.25 ± 0.08	0.0057	0.0085
HS2TFL04	M23053/12-420	4	0.370	9.4	0.214	5.4	0.010 ± 0.003	0.25 ± 0.08	0.0063	0.0094
HS2TFL03	M23053/12-421	3	0.390	9.9	0.241	6.1	0.010 ± 0.003	0.25 ± 0.08	0.0068	0.0101
HS2TFL02	M23053/12-423	2	0.430	10.9	0.270	6.9	0.010 ± 0.003	0.25 ± 0.08	0.0077	0.0115
HS2TFL01	M23053/12-424	1	0.450	11.4	0.301	7.7	0.010 ± 0.003	0.25 ± 0.08	0.0085	0.0126
HS2TFL00	M23053/12-426	0	0.470	11.9	0.347	8.8	0.012 ± 0.003	0.31 ± 0.08	0.0118	0.0176

*Dielectric Strength: > 800 v/m, per ASTM D 149 short term test of 10 MIL thickness (volts/mil)



Colors

- ○ Standard is natural
- Colors available as custom run

Color Code			Color Code		
○	N	Natural	●	5	Green
●	0	Black	●	6	Blue
●	1	Brown	●	7	Violet
●	2	Red	●	8	Gray
●	3	Orange	○	9	White
●	4	Yellow			

⚠ WARNING

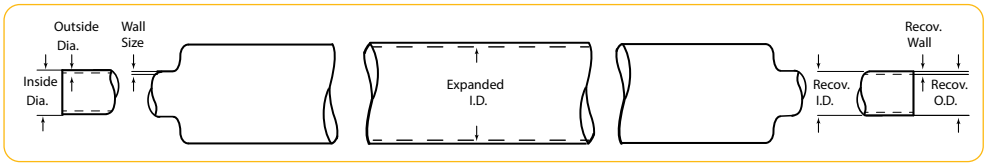
This product can expose you to chemicals including Tetrafluoroethylene, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

PTFE Heat Shrinkable Tubing
Series HS4TFI 4:1

Series HS4TFI - PTFE 4:1 Industrial Wall Heat Shrink Tubing

Part Number	Mil Spec Part Number	Order Size	Minimum Expanded I.D. inch	Minimum Expanded I.D. mm	Maximum Recovered I.D. inch	Maximum Recovered I.D. mm	Nominal Recovered Wall inch	Nominal Recovered Wall mm	Weight lb/ft	Weight kg/mtr
HS4TFI5/64	M23053/12-501	5/64	0.078	2.0	0.025	0.6	0.009 ± 0.002	0.23 ± 0.05	0.0008	0.0012
HS4TFI1/8	M23053/12-502	1/8	0.125	3.2	0.037	0.9	0.012 ± 0.002	0.31 ± 0.05	0.0014	0.0021
HS4TFI3/16	M23053/12-503	3/16	0.187	4.8	0.050	1.3	0.012 ± 0.002	0.31 ± 0.05	0.0020	0.0030
HS4TFI1/4	M23053/12-504	1/4	0.250	6.4	0.063	1.6	0.012 ± 0.002	0.31 ± 0.05	0.0028	0.0042
HS4TFI5/16	M23053/12-505	5/16	0.312	7.9	0.078	2.0	0.012 ± 0.002	0.31 ± 0.05	0.0030	0.0045
HS4TFI3/8	M23053/12-506	3/8	0.375	9.5	0.096	2.4	0.012 ± 0.002	0.31 ± 0.05	0.0035	0.0052
HS4TFI7/16	M23053/12-507	7/16	0.438	11.1	0.112	2.8	0.012 ± 0.002	0.31 ± 0.05	0.0048	0.0071
HS4TFI1/2	M23053/12-508	1/2	0.500	12.7	0.144	3.7	0.015 ± 0.004	0.38 ± 0.10	0.0075	0.0112
HS4TFI5/8	M23053/12-510	5/8	0.625	15.9	0.178	4.5	0.015 ± 0.004	0.38 ± 0.10	0.0092	0.0137
HS4TFI3/4	M23053/12-512	3/4	0.750	19.1	0.224	5.7	0.015 ± 0.004	0.38 ± 0.10	0.0113	0.0168
HS4TFI7/8	M23053/12-513	7/8	0.875	22.2	0.244	6.2	0.015 ± 0.004	0.38 ± 0.10	0.0116	0.0173
HS4TFI1.00	M23053/12-514	1	1.000	25.4	0.278	7.1	0.015 ± 0.004	0.38 ± 0.10	0.0140	0.0208
HS4TFI1.25	M23053/12-515	1-1/4	1.250	31.8	0.347	8.8	0.015 ± 0.004	0.38 ± 0.10	0.0174	0.0259

*Dielectric Strength: >800 v/m, per ASTM D 149 short term test of 10 MIL thickness (volts/mil)



Colors

- ○ Standard is natural
- Colors available as custom run

Color Code		
○	N	Natural
●	0	Black
●	1	Brown
●	2	Red
●	3	Orange
●	4	Yellow

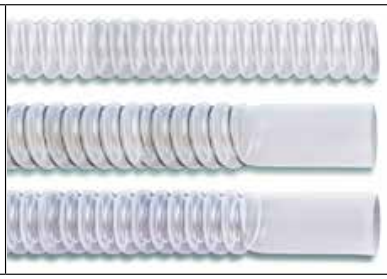
Color Code		
●	5	Green
●	6	Blue
●	7	Violet
●	8	Gray
○	9	White

⚠ WARNING

This product can expose you to chemicals including Tetrafluoroethylene, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

PTFE Convoluted Tubing
Series CV01, CVL, CVH

High temperature electrical insulation for harnessing wires and cables.



Features
- Chemically inert
- Low coefficient of friction
- Very flexible
- Self extinguishing
- Non-wetting
- Low Profile – Increased inside diameter
- Heavy Wall - Reinforces the strength of the tube allowing for braiding or covering, flanging or flaring; handles higher vacuum

Compliance
- 21 CFR 177.1550 compliant
- USP Class VI compliant

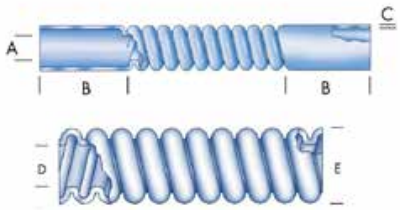
Notes
- Working Temperature: -100°F (-73°C) to 500°F (260°C)
- Standard cuffs are sized on the inside diameter
- ** Minimum 36" length

Colors
- ○ Standard is natural
- Colors available as custom run

Color Code			Color Code		
○	N	Natural	●	5	Green
●	0	Black	●	6	Blue
●	1	Brown	●	7	Violet
●	2	Red	●	8	Gray
●	3	Orange	○	9	White
●	4	Yellow			

Fittings
- Parker Fittings available from:
  Fluid System Connectors Division
  Otsego, MI
- (269) 692-6555
  (269) 692-6634 FAX
  parker.com/fsc
- For approved fittings and/or suggested use of tube supports, reference Tube/Fitting Compatibility Chart (pg. B-8/B-9) or contact Parker Fluid Systems Connectors Division

Standard Cuffs
are sized on the I.D.



Order Information
Example: CV01-1/8-NT

CV01-1/8-NT – Convoluted
CV01-1/8-NT – PTFE
CV01-1/8-NT – Tube O.D. in inches (1/8")
CV01-1/8-NT – Natural
CV01-1/8-NT – Bulk Tubing "T" is bulk (for cuffed tubing, remove "T" and add length, ie. CV01-1/8-NT-N1200 = 1" Convo, natural, cut 12" long)

⚠ WARNING
This product can expose you to chemicals including Tetrafluoroethylene, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Tel: +45 63 12 83 00 | Email: ps@hymatik.com | www.hymatik.com | Hvidkaervej 27a, DK-5250 Odense SV, Denmark

PTFE Convoluted Tubing
Series CV01, CVL, CVH

Series CV01 - Standard Convoluted Tubing

Part Number	Order Size	Standard Cuff I.D. "A" inch	mm	Standard Cuff Length "B" inch	mm	Wall Thickness "C" inch	mm	Minimum Inside Diameter "D" inch	mm	Maximum Inside Diameter "D" inch	mm	Maximum Outside Diameter "E" inch	mm	**Minimum Bend Radius inch	mm	Weight lb/ft	kg/mtr
CV01-1/8-NT	CONV-2	1/8	3.18	3/4	19.1	0.010	0.25	0.130	3.3	0.140	3.6	0.235	5.9	3/8	9.5	0.007	0.010
CV01-1/4-NT	CONV-4	1/4	6.35	3/4	19.1	0.015	0.38	0.181	4.6	0.188	4.8	0.320	8.1	1/2	12.7	0.014	0.021
CV01-5/16-NT	CONV-5	5/16	7.94	1	25.4	0.020	0.51	0.273	6.9	0.281	7.1	0.414	10.5	3/4	19.1	0.024	0.036
CV01-3/8-NT	CONV-6	3/8	9.53	1	25.4	0.020	0.51	0.303	7.7	0.312	7.9	0.450	11.4	1-3/4	44.4	0.029	0.043
CV01-1/2-NT	CONV-8	1/2	12.7	1	25.4	0.020	0.51	0.425	10.8	0.437	11.1	0.590	15.0	1-1/4	31.2	0.045	0.067
CV01-5/8-NT	CONV-10	5/8	15.9	1-1/4	31.8	0.025	0.64	0.485	12.3	0.500	12.7	0.660	16.8	1-1/2	38.1	0.058	0.086
CV01-3/4-NT	CONV-12	3/4	19.1	1-1/2	38.1	0.023	0.58	0.608	15.4	0.625	15.9	0.780	19.8	1-3/4	44.4	0.071	0.106
CV01-1.00-NT	CONV-16	1	25.4	2	50.8	0.030	0.76	0.849	21.6	0.875	22.2	1.100	27.9	2-1/4	57.2	0.126	0.188
CV01-1.25-NT	CONV-20	1-1/4	31.8	2-1/2	63.5	0.035	0.89	1.150	29.2	1.190	30.2	1.560	39.6	2-3/4	69.9	0.207	0.308
CV01-1.50-NT	CONV-24	1-1/2	38.1	2-1/2	63.5	0.040	1.02	1.410	35.8	1.490	37.8	1.910	48.5	3	76.2	0.273	0.406
CV01-2.00-NT	CONV-32	2	50.8	2-1/2	63.5	0.043	1.09	1.955	49.7	1.985	50.4	2.450	62.2	4-1/4	107.9	0.516	0.768
CV01-2.50-NT	CONV-40	2-1/2	63.5	2-1/2	63.5	0.062	1.57	2.460	62.5	2.540	64.5	3.210	81.6	5	127.0	0.905	1.347
CV01-3.00-NT	CONV-48	3	76.2	2-1/2	63.5	0.070	1.78	2.940	74.7	3.060	77.7	3.750	95.3	7	177.8	1.123	1.671

** Minimum 36" length

Series CVL - Low Profile Convoluted Tubing

Part Number	Order Size	Minimum Inside Diameter inch	mm	Maximum Inside Diameter inch	mm	Maximum Outside Diameter inch	mm	Wall Thickness inch	mm	**Minimum Bend Radius inch	mm	Weight lb/ft	kg/mtr
CVL01-3/8-NT	3/8	0.394	10.0	0.410	10.3	0.560	14.2	0.023	0.58	1/2	13	0.041	0.061
CVL01-1/2-NT	1/2	0.490	12.5	0.510	13.0	0.700	17.8	0.025	0.64	3/4	19	0.066	0.098
CVL01-3/4-NT	3/4	0.740	18.8	0.760	19.3	0.980	24.9	0.035	0.89	1.880	48	0.142	0.211
CVL01-1.00-NT	1	0.990	25.1	1.010	25.7	1.260	32.0	0.035	0.89	2-1/4	57	0.185	0.275
CVL01-1.25-NT	1-1/4	1.210	30.7	1.250	31.8	1.539	39.1	0.035	0.89	3	76	0.213	0.317
CVL01-1.50-NT	1-1/2	1.520	38.6	1.540	39.1	1.870	47.5	0.044	1.12	3-1/2	89	0.303	0.451
CVL01-1.75-NT	1-3/4	1.690	42.9	1.750	44.5	2.100	53.3	0.040	1.02	4-1/4	108	***	***
CVL01-2.00-NT	2	2.010	51.1	2.030	51.6	2.370	60.2	0.043	1.09	4-3/4	121	0.493	0.734

** Minimum 36" length ***Contact Division

Series CVH - Heavy Wall Convoluted Tubing

Part Number	Order Size	Minimum Inside Diameter inch	mm	Maximum Inside Diameter inch	mm	Maximum Outside Diameter inch	mm	Wall Thickness inch	mm	**Minimum Bend Radius inch	mm	Weight lb/ft	kg/mtr
CVH01-1/4-NT	1/4	0.257	6.5	0.265	6.7	0.415	10.5	0.025	0.64	3/4	19	***	***
CVH01-3/8-NT	3/8	0.335	8.5	0.345	8.8	0.510	13.0	0.025	0.64	1	25	0.039	0.058
CVH01-1/2-NT	1/2	0.454	11.5	0.466	11.8	0.700	17.8	0.035	0.89	1-1/2	38	0.053	0.079
CVH01-3/4-NT	3/4	0.683	17.4	0.701	17.8	1.010	25.7	0.050	1.27	1.880	48	0.083	0.124
CVH01-1.00-NT	1	0.841	21.4	0.859	21.8	1.210	30.7	0.053	1.35	2-1/2	64	0.265	0.394
CVH01-1.25-NT	1-1/4	1.125	28.6	1.145	29.1	1.610	40.9	0.062	1.57	3.130	79	0.381	0.567
CVH01-1.50-NT	1-1/2	1.420	36.1	1.480	37.6	1.880	47.8	0.062	1.57	3-3/5	95	0.454	0.676
CVH01-1.75-NT	1-3/4	1.540	39.1	1.600	40.6	2.100	53.3	0.062	1.57	4-1/4	114	***	***
CVH01-2.00-NT	2	1.770	45.0	1.830	46.5	2.432	61.8	0.062	1.57	4-3/4	120	0.729	1.085
CVH01-2.50-NT	2-1/2	2.460	62.5	2.540	64.5	3.210	81.5	0.062	1.57	5	127	***	***
CVH01-3.00-NT	3	2.940	74.7	3.060	77.7	3.750	95.3	0.062	1.57	7	178	***	***

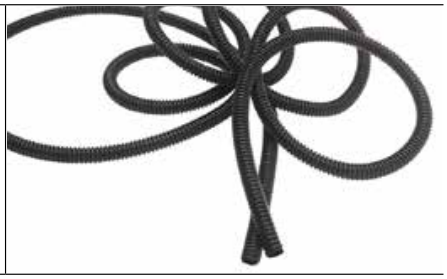
** Minimum 36" length ***Contact Division

⚠ WARNING

This product can expose you to chemicals including Tetrafluoroethylene, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

PTFE Convoluted Tubing
Series 81914/1, 81914/2

Mil spec convoluted for the Military and Defense wire harnessing industries.



Features
- Chemically inert
- Low coefficient of friction
- Very flexible
- Self extinguishing
- Non-wetting

Compliance
- Dimensionally compliant to AS81914/1 and AS81914/2
- 21 CFR 177.1550 compliant

Notes
- Working Temperature: -100°F (-73°C) to 500°F (260°C)
- Tubing is provided in black without cuffs direct from inventory
- Stock packaging is random coils
- Also availabe in close convolution 81914/2

Colors
- ○ Standard is natural
- Colors available as custom run

Color Code			Color Code		
○	N	Natural	●	5	Green
●	0	Black	●	6	Blue
●	1	Brown	●	7	Violet
●	2	Red	●	8	Gray
●	3	Orange	○	9	White
●	4	Yellow			

Fittings
- Parker Fittings available from:
  Fluid System Connectors Division
  Otsego, MI
- (269) 692-6555
  (269) 692-6634 FAX
  parker.com/fsc
- For approved fittings and/or suggested use of tube supports, reference Tube/Fitting Compatibility Chart (pg. B-8/B-9) or contact Parker Fluid Systems Connectors Division

Order Information
Example: 81914/1-1010-0TC

81914/1-1010-0TC – Mil Spec Convoluted
81914/1-1010-0TC – PTFE
81914/1-1010-0TC – Helical Convolutions
81914/1-1010-0TC – Size 10 (1")
81914/1-1010-0TC – Color (Black)
81914/1-1010-0TC – Bulk Tubing ("T" is bulk)

⚠ WARNING
This product can expose you to chemicals including Tetrafluoroethylene, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Tel: +45 63 12 83 00 | Email: ps@hymatik.com | www.hymatik.com | Hvidkaervej 27a, DK-5250 Odense SV, Denmark

PTFE Convoluted Tubing
Series 81914/1, 81914/2

Series 81914/1 - Convoluted Tubing

Part Number	Order Size	Maximum Inside Diameter		Minimum Inside Diameter		Maximum Outside Diameter		Maximum Wall Thickness		*Minimum Bend Radius		Pitch	Weight	
				inch	mm	inch	mm	inch	mm	inch	mm		lb/ft	kg/mtr
81914/1-1001-0TC	-1	0.188	4.78	0.181	4.6	0.320	8.13	0.023	0.584	1/2	13	8	0.020	0.030
81914/1-1002-0TC	-2	0.281	7.14	0.273	6.93	0.414	10.5	0.027	0.686	3/4	19	7.5	0.028	0.042
81914/1-1003-0TC	-3	0.312	7.93	0.303	7.7	0.450	11.4	0.027	0.686	7/8	22	7.5	0.029	0.043
81914/1-1004-0TC	-4	0.375	9.53	0.364	9.25	0.530	13.5	0.029	0.737	1	25	7	0.036	0.054
81914/1-1005-0TC	-5	0.437	11.1	0.425	10.8	0.590	15.0	0.029	0.737	1-1/4	32	7	0.049	0.073
81914/1-1006-0TC	-6	0.500	12.7	0.485	12.3	0.660	16.8	0.029	0.737	1-1/2	38	7	0.055	0.082
81914/1-1007-0TC	-7	0.625	15.9	0.608	15.4	0.780	19.9	0.035	0.889	1-3/4	44	7	0.062	0.092
81914/1-1008-0TC	-8	0.750	19.1	0.730	18.5	0.975	24.8	0.035	0.889	1.88	48	6	0.100	0.149
81914/1-1009-0TC	-9	0.875	22.2	0.850	21.6	1.100	27.9	0.035	0.889	2-1/4	57	6	0.120	0.179
81914/1-1010-0TC	-10	1.000	25.4	0.975	24.8	1.260	32.0	0.035	0.889	2-1/2	64	4.5	0.132	0.196
81914/1-1011-0TC	-11	1.125	28.6	1.100	27.9	1.390	35.3	0.035	0.889	2-3/4	70	4.5	0.170	0.253
81914/1-1012-0TC	-12	1.250	31.8	1.210	30.7	1.539	39.1	0.035	0.889	3	76	4	0.198	0.295
81914/1-1013-0TC	-13	1.500	38.1	1.440	36.6	1.850	47.0	0.040	1.020	3-3/4	95	4	0.245	0.365
81914/1-1014-0TC	-14	1.750	44.5	1.690	42.9	2.100	53.3	0.045	1.140	4-1/4	108	4	0.289	0.430
81914/1-1015-0TC	-15	2.000	50.8	1.940	49.3	2.350	59.7	0.045	1.140	4-3/4	121	4	0.371	0.552

*PTFE convoluted tubing is provided in BLACK without cuffs directly from the factory. Black part numbers are designated with "0T". Natural part numbers are designated with "NT" after the Mil Spec number (i.e.,81914/1-1014-0T). Also available in 81914/2 (Close Convolution).

Standard Cuffs for 81914 are sized on the I.D.



Without Cuffs



With Cuffs



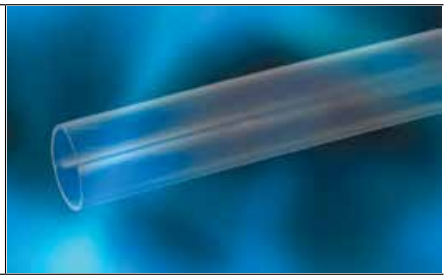
⚠ WARNING

This product can expose you to chemicals including Tetrafluoroethylene, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

FEP Tubing

Series 103, 203: Fractional & Metric

Translucent and chemically inert with long continuous lengths.



Features

- Virgin Fluorinated Ethylene Propylene resin
- Translucent
- Chemically inert
- Long continuous lengths
- Low coefficient of friction
- Self extinguishing
- Non-wetting
- Weldable

Compliance

- ASTM D2116
- 21 CFR 177.1550 compliant
- USP Class VI compliant

Notes

- Working Temperature: -100°F (-73°C) to 400°F (204°C)
- Vacuum Rating 28 @ 73°F
- Working pressure calculated using a Design Factor of 4
- Custom packaging and sizes are quoted upon request

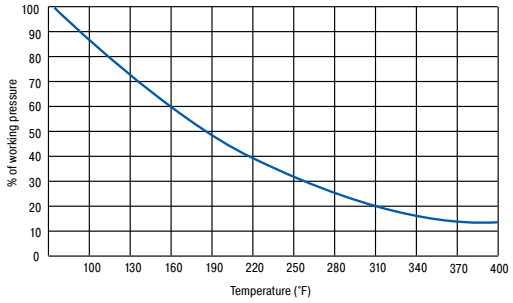
Colors

- ○ Standard is natural
- Colors available as custom run

Color Code			Color Code		
○	N	Natural	●	5	Green
●	0	Black	●	6	Blue
●	1	Brown	●	7	Violet
●	2	Red	●	8	Gray
●	3	Orange	○	9	White
●	4	Yellow			

FEP Tubing (Series 103, 203)

Maximum Working Pressure (psi)



Fittings

- Parker Fittings available from:
  Fluid System Connectors Division
  Otsego, MI
- (269) 692-6555
  (269) 692-6634 FAX
  parker.com/fsc
- For approved fittings and/or suggested use of tube supports, reference Tube/Fitting Compatibility Chart (pg. B-8/B-9) or contact Parker Fluid Systems Connectors Division

Order Information

Example: 103-0250031-NT-100

103-0250031-NT-100 – FEP
103-0250031-NT-100 – Tube O.D. in inches (1/4")
103-0250031-NT-100 – Tube Wall Thickness in inches (.031")
103-0250031-NT-100 – Natural
103-0250031-NT-100 – Bulk Tubing
103-0250031-NT-100 – Package Quantity in feet (100')

⚠ WARNING

This product can expose you to chemicals including Tetrafluoroethylene, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Updated August 6, 2025

Tel: +45 63 12 83 00 | Email: ps@hymatik.com | www.hymatik.com | Hvidkaervej 27a, DK-5250 Odense SV, Denmark

FEP Tubing
Series 103

Series 103 - FEP Fractional Industrial Wall Tubing

Part Number	Order Size	Nominal O.D.		Nominal I.D.		Reference Wall Thickness		Working Pressure 73°F (23°C)		Minimum Burst Pressure		Minimum Bend Radius		Vac. Rating	Weight	
	inch	inch	mm	inch	mm	inch	mm	psi	bar	psi	bar	inch	mm		lb./ft.	kg./mt
103-0094031	3/32	0.094	2.40	0.031	0.79	0.031	0.79	630	43	1890	130	1/2	13	28	0.006	0.009
103-0125031	1/8	0.125	3.18	0.062	1.57	0.031	0.79	470	32	1410	97	3/8	10	28	0.009	0.013
103-0156031	5/32	0.157	3.99	0.094	2.39	0.031	0.79	360	25	1080	75	3/8	10	28	0.011	0.017
103-0188031	3/16	0.188	4.78	0.125	3.18	0.031	0.79	290	20	870	60	3/4	19	28	0.014	0.021
103-0250031	1/4	0.250	6.35	0.188	4.78	0.031	0.79	210	14	630	43	1-3/4	44	28	0.020	0.030
103-0312031	5/16	0.312	7.92	0.250	6.35	0.031	0.79	160	11	480	33	2-1/4	57	28	0.025	0.038
103-0375031	3/8	0.375	9.52	0.312	7.92	0.031	0.79	130	9	390	27	2-3/4	70	28	0.031	0.047
103-0438031	7/16	0.438	11.13	0.375	9.52	0.031	0.79	110	8	330	23	4	102	28	0.037	0.055
103-0500031	1/2	0.500	12.70	0.438	11.13	0.031	0.79	90	6	270	19	4	102	28	0.043	0.063
103-0563031	9/16	0.563	14.30	0.500	12.70	0.031	0.79	80	6	240	17	240	17	28	0.054	0.080

Series 103 - FEP Fractional Heavy Wall Tubing

103-0188062	3/16	0.188	4.78	0.064	1.63	0.062	1.57	630	43	1890	130	1/4	6	28	0.023	0.034
103-0250040	1/4	0.250	6.35	0.170	4.32	0.040	1.02	280	19	840	58	1-1/4	32	28	0.025	0.037
103-0250047	1/4	0.250	6.35	0.156	3.96	0.047	1.19	340	23	1020	70	3/4	19	28	0.028	0.042
103-0250062	1/4	0.250	6.35	0.125	3.18	0.062	1.57	470	32	1410	97	3/4	19	28	0.034	0.051
103-0312062	5/16	0.312	7.92	0.188	4.78	0.062	1.57	360	25	1080	74	1-3/8	35	28	0.045	0.067
103-0375062	3/8	0.375	9.52	0.250	6.35	0.062	1.57	290	20	870	60	1-1/2	38	28	0.057	0.085
103-0438062	7/16	0.438	11.13	0.312	7.92	0.062	1.57	250	17	750	52	2-5/8	67	28	0.068	0.101
103-0500062	1/2	0.500	12.70	0.375	9.53	0.062	1.57	210	14	630	43	2-1/8	54	28	0.079	0.118
103-0625062	5/8	0.625	15.88	0.500	12.70	0.062	1.57	160	11	480	33	3	76	28	0.102	0.152
103-0750062	3/4	0.750	19.05	0.625	15.88	0.062	1.57	130	9	390	27	6	152	28	0.125	0.186
103-1000062	1	1.000	25.40	0.875	22.22	0.062	1.57	90	6	270	19	8	203	28	0.170	0.253

Series 203 - FEP Metric Size Tubing

Part Number	Order Size	Nominal O.D.		Nominal I.D.		Reference Wall Thickness		Working Pressure 73°F (23°C)		Minimum Burst Pressure		Minimum Bend Radius		Vac. Rating	Weight	
	mm	mm	inch	mm	inch	mm	inch	bar	psi	bar	psi	inch	mm		lb./ft.	kg./mt
203-0300100	3	3	0.118	1	0.039	1	0.039	27	390	81	1170	6	1/4	28	0.014	0.009
203-0400100	4	4	0.157	2	0.079	1	0.039	20	290	60	870	13	1/2	28	0.020	0.014
203-0500100	5	5	0.197	3	0.118	1	0.039	15	220	45	660	19	3/4	28	0.027	0.018
203-0600100	6	6	0.236	4	0.157	1	0.039	12	180	36	540	29	1-1/8	28	0.034	0.023
203-0700100	7	7	0.276	5	0.197	1	0.039	10	150	30	450	44	1-3/4	28	0.041	0.027
203-0800100	8	8	0.315	6	0.236	1	0.039	9	130	27	390	51	2	28	0.047	0.032
203-0900100	9	9	0.354	7	0.275	1	0.039	8	110	24	330	54	2-1/8	28	0.054	0.036
203-1000100	10	10	0.393	8	0.315	1	0.039	7	100	21	300	70	2-3/4	28	0.061	0.041
203-1200100	12	12	0.472	10	0.394	1	0.039	6	80	18	240	76	3	28	0.074	0.050

⚠ WARNING

This product can expose you to chemicals including Tetrafluoroethylene, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

FEP Heat Shrinkable Tubing

Series HS1.3FEP, HS1.6FEP

Lower shrink temperature than PTFE.
Supplied in expanded state,
allowing for easy installation.

1.3/1 Heat Shrink Ratio
1.6/1 Heat Shrink Ratio

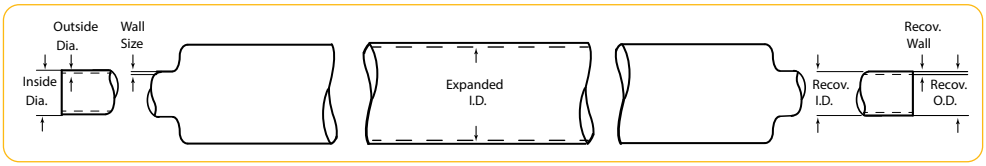


Features

- Easier to shrink than PTFE
- Chemically inert
- Low coefficient of friction
- Superior dielectric strength
- Good heat resistance
- Self extinguishing
- Non-wetting

Compliance

- ASTM D2902 Type II
- ASTM D3296
- Dimensionally compliant to AS23053/11
- 21 CFR 177.1550 compliant
- USP Class VI compliant



Notes

- Working Temperature: -100°F (-73°C) to 400°F (204°C)
- Shrink Temperature: 1" Dia. and below : 410°F (210°C) Over 1" Dia. : 430°F (221°C)
- *Dielectric Strength: > 2,000 v/m, per ASTM D 149 short term test of 10 MIL thickness (volts/mil)
- Available in stock packaging of 4-ft. straight lengths
- When ordering coiled tubing in colors, the color code is always followed by TC; when ordering cut lengths, the color code is followed by CC
  i.e. HS1.3FEP24-2TC i.e. HS1.3FEP24-0CC48.000

Colors

- ○ Standard is natural
- Colors available as custom run

Color Code			Color Code		
○	N	Natural	●	5	Green
●	0	Black	●	6	Blue
●	1	Brown	●	7	Violet
●	2	Red	●	8	Gray
●	3	Orange	○	9	White
●	4	Yellow			

Order Information
Example: HS1.3FEP24-NT

HS1.3FEP24-NT – Heat Shrink Tubing
HS1.3FEP24-NT – Shrink Ratio (1.3:1)
HS1.3FEP24-NT – FEP
HS1.3FEP24-NT – Heat Shrink Size in AWG (AWG24)
HS1.3FEP24-NT – Natural
HS1.3FEP24-NT – Bulk Tubing (Coil)

Order Information
Example: HS1.6FEP3/32-NC48.000

HS1.6FEP3/32-NC48.000 – Heat Shrink Tubing
HS1.6FEP3/32-NC48.000 – Shrink Ratio (1.67:1)
HS1.6FEP3/32-NC48.000 – FEP
HS1.6FEP3/32-NC48.000 – Heat Shrink Size in inches (3/32")
HS1.6FEP3/32-NC48.000 – Natural
HS1.6FEP3/32-NC48.000 – Cut Tubing
HS1.6FEP3/32-NC48.000 – Cut length in inches (48")

⚠ WARNING
This product can expose you to chemicals including Tetrafluoroethylene, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

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FEP Heat Shrinkable Tubing
Series HS1.3FEP, HS1.6FEP

Series HS1.3FEP - 1.3:1 AWG & Fractional Heat Shrink Tubing

Part Number	Mil Spec Part Number	Order Size	Minimum Expanded I.D.		Maximum Recovered I.D.		Nominal Recovered Wall		Weight	
			inch	mm	inch	mm	inch	mm	lb/ft	kg/mtr
HS1.3FEP24	M23053/11-101-*	AWG24	0.031	0.79	0.027	0.69	0.008 ± 0.002	0.20 ± 0.05	0.0008	0.0012
HS1.3FEP22	M23053/11-102-C	AWG22	0.036	0.91	0.032	0.81	0.008 ± 0.002	0.20 ± 0.05	0.0009	0.0013
HS1.3FEP20	M23053/11-103-C	AWG20	0.045	1.14	0.039	0.99	0.008 ± 0.002	0.20 ± 0.05	0.0011	0.0016
HS1.3FEP18	M23053/11-104-C	AWG18	0.060	1.52	0.049	1.25	0.008 ± 0.002	0.20 ± 0.05	0.0013	0.0019
HS1.3FEP16	M23053/11-105-C	AWG16	0.075	1.90	0.061	1.55	0.009 ± 0.002	0.23 ± 0.05	0.0018	0.0027
HS1.3FEP14	M23053/11-106-C	AWG14	0.092	2.34	0.072	1.83	0.009 ± 0.002	0.23 ± 0.05	0.0021	0.0031
HS1.3FEP12	M23053/11-107-C	AWG12	0.115	2.92	0.089	2.26	0.009 ± 0.002	0.23 ± 0.05	0.0026	0.0039
HS1.3FEP10	M23053/11-108-C	AWG10	0.141	3.58	0.114	2.90	0.010 ± 0.003	0.25 ± 0.08	0.0036	0.0054
HS1.3FEP09	M23053/11-109-C	AWG09	0.158	4.01	0.124	3.15	0.010 ± 0.003	0.25 ± 0.08	0.0039	0.0058
HS1.3FEP08	M23053/11-110-C	AWG08	0.180	4.57	0.143	3.63	0.010 ± 0.003	0.25 ± 0.08	0.0045	0.0067
HS1.3FEP07	M23053/11-111-C	AWG07	0.197	5.00	0.158	4.01	0.011 ± 0.004	0.28 ± 0.10	0.0054	0.0080
HS1.3FEP06	M23053/11-112-C	AWG06	0.225	5.72	0.180	4.57	0.011 ± 0.004	0.28 ± 0.10	0.0061	0.0091
HS1.3FEP05	M23053/11-113-C	AWG05	0.248	6.30	0.198	5.03	0.011 ± 0.004	0.28 ± 0.10	0.0067	0.0100
HS1.3FEP04	M23053/11-114-C	AWG04	0.290	7.37	0.226	5.74	0.011 ± 0.004	0.28 ± 0.10	0.0076	0.0113
HS1.3FEP03	M23053/11-115-C	AWG03	0.310	7.87	0.249	6.32	0.011 ± 0.003	0.28 ± 0.10	0.0084	0.0125
HS1.3FEP02	M23053/11-116-C	AWG02	0.365	9.27	0.280	7.11	0.012 ± 0.004	0.31 ± 0.10	0.0103	0.0153
HS1.3FEP01	M23053/11-117-C	AWG01	0.400	10.2	0.311	7.90	0.012 ± 0.004	0.31 ± 0.10	0.0113	0.0168
HS1.3FEP00	M23053/11-118-C	AWG00	0.440	11.2	0.349	8.86	0.012 ± 0.004	0.31 ± 0.10	0.0127	0.0189
HS1.3FEP3/8	M23053/11-119-C	3/8	0.500	12.7	0.383	9.7	0.015 ± 0.004	0.38 ± 0.10	0.018	0.026
HS1.3FEP7/16	M23053/11-120-C	7/16	0.580	14.7	0.448	11.4	0.020 ± 0.004	0.51 ± 0.10	0.030	0.044
HS1.3FEP1/2	M23053/11-121-C	1/2	0.666	16.9	0.510	13.0	0.020 ± 0.004	0.51 ± 0.10	0.031	0.046
HS1.3FEP5/8	M23053/11-122-C	5/8	0.830	21.1	0.637	16.2	0.025 ± 0.004	0.64 ± 0.10	0.048	0.072
HS1.3FEP3/4	M23053/11-123-C	3/4	1.000	25.4	0.764	19.4	0.030 ± 0.004	0.76 ± 0.10	0.070	0.104
HS1.3FEP7/8	M23053/11-124-C	7/8	1.170	29.7	0.891	22.6	0.035 ± 0.004	0.89 ± 0.10	0.095	0.141
HS1.3FEP1.00	M23053/11-126-C	1	1.330	33.8	1.020	25.9	0.035 ± 0.004	0.89 ± 0.10	0.108	0.161
HS1.3FEP1.13	M23053/11-133-C	1-1/8	1.500	38.1	1.145	29.1	0.035 ± 0.004	0.89 ± 0.10	0.121	0.180
HS1.3FEP1.25	M23053/11-134-C	1-1/4	1.666	42.3	1.270	32.3	0.035 ± 0.004	0.89 ± 0.10	0.134	0.199
HS1.3FEP1.38	M23053/11-135-C	1-3/8	1.833	46.6	1.390	35.3	0.035 ± 0.004	0.89 ± 0.10	0.146	0.217
HS1.3FEP1.50	M23053/11-136-C	1-1/2	2.000	50.8	1.520	38.6	0.035 ± 0.004	0.89 ± 0.10	0.159	0.237

Series HS1.6FEP - 1.67:1 Heat Shrink Tubing

Part Number		Order Size	Minimum Expanded I.D.		Maximum Recovered I.D.		Nominal Recovered Wall		Weight	
			inch	mm	inch	mm	inch	mm	lb/ft	kg/mtr
HS1.6FEP3/32	M23053/11-201-C	3/32	0.093	2.36	0.056	1.42	0.008 ± 0.003	0.20 ± 0.08	0.0015	0.0022
HS1.6FEP1/8	M23053/11-202-C	1/8	0.125	3.18	0.075	1.90	0.010 ± 0.003	0.25 ± 0.08	0.0025	0.0037
HS1.6FEP3/16	M23053/11-203-C	3/16	0.188	4.78	0.115	2.92	0.010 ± 0.003	0.25 ± 0.08	0.0037	0.0055
HS1.6FEP1/4	M23053/11-204-C	1/4	0.250	6.35	0.150	3.81	0.010 ± 0.003	0.25 ± 0.08	0.0047	0.0070
HS1.6FEP3/8	M23053/11-205-C	3/8	0.375	9.52	0.225	5.72	0.012 ± 0.003	0.31 ± 0.08	0.0083	0.0124
HS1.6FEP1/2	M23053/11-206-C	1/2	0.500	12.70	0.300	7.62	0.015 ± 0.004	0.38 ± 0.10	0.0138	0.0205
HS1.6FEP3/4	M23053/11-207-C	3/4	0.750	19.10	0.450	11.40	0.020 ± 0.004	0.51 ± 0.10	0.0275	0.0409
HS1.6FEP1.00	M23053/11-208-C	1	1.000	25.40	0.600	15.20	0.025 ± 0.005	0.64 ± 0.13	0.0457	0.0680
HS1.6FEP1.50	M23053/11-209-C	1-1/2	1.500	38.10	0.900	22.90	0.030 ± 0.005	0.76 ± 0.13	0.0817	0.1216
HS1.6FEP2.00	M23053/11-210-C	2	2.000	50.80	1.200	30.50	0.030 ± 0.005	0.76 ± 0.13	0.1080	0.1607

⚠ WARNING

This product can expose you to chemicals including Tetrafluoroethylene, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

FEP Heat Shrinkable Tubing

Series HS1.25FEP, Roll Cover

Roll cover supplied expanded, allowing easy slippage over rollers.

1.25/1 Heat Shrink Ratio



Features

- Extends roller life
- Eliminates roller build up and picking
- Low coefficient of friction
- Flexible
- Good heat resistance

Compliance

- ASTM D2902 Type II
- Dimensionally compliant to AS23053/11

Notes

- Working Temperature: -100°F (-73°C) to 400°F (204°C)
- Shrink Temperature: 347°F (175°C) for 10 minutes - For high temperatures 500°F (260°C), PFA roll covers are available
- *Dielectric Strength: > 2,000 v/m, per ASTM D 149 short term test of 10 MIL thickness (volts/mil)
- Roll Cover is available in stock packaging of 4-ft. straight lengths
- For adhesion purposes, roll covers must be etched; Etching is available on the inside diameter, outside diameter or both

Colors

- ○ Standard is natural
- Colors available as custom run

Color Code			Color Code		
○	N	Natural	●	5	Green
●	0	Black	●	6	Blue
●	1	Brown	●	7	Violet
●	2	Red	●	8	Gray
●	3	Orange	○	9	White
●	4	Yellow			

Order Information

Example: HS1.25FEP3.50-NC48.000

HS1.25FEP3.50-NC48.000 – Heat Shrink Tubing
HS1.25FEP3.50-NC48.000 – Shrink Ratio (1.25:1)
HS1.25FEP3.50-NC48.000 – FEP
HS1.25FEP3.50-NC48.000 – Heat Shrink Expanded Size in inches (3-1/2")
HS1.25FEP3.50-NC48.000 – Natural
HS1.25FEP3.50-NC48.000 – Cut Tubing
HS1.25FEP3.50-NC48.000 – Cut length in inches (48")

⚠ WARNING

This product can expose you to chemicals including Tetrafluoroethylene, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

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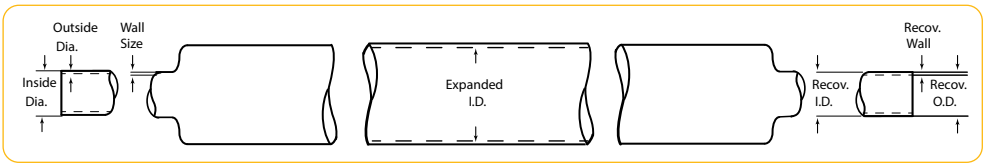
FEP Heat Shrinkable Tubing
Series HS1.25FEP, Roll Cover

Series HS1.25FEP - 1.25:1 FEP Heat Shrink Tubing

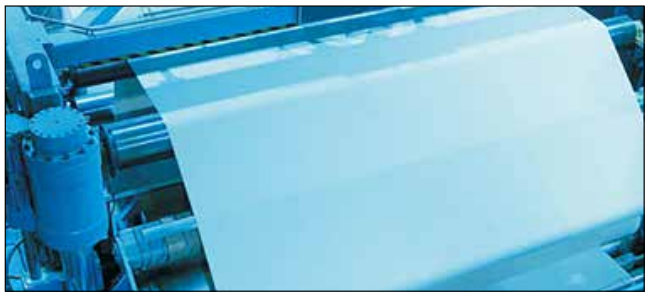
Part Number	Mil Spec Part Number	Order Size	Minimum Expanded I.D. inch	mm	Maximum Recovered I.D. inch	mm	Nominal Recovered Wall inch	mm	Weight lb/ft	kg/mtr
HS1.25FEP1.00-NT	-	1	1.100	27.9	0.880	22.4	0.020 ± 0.004	0.508 +0.10	0.053	0.078
HS1.25FEP1.25-NT	-	1-1/4	1.300	33	1.000	25.4	0.020 ± 0.004	0.508 +0.10	0.060	0.089
HS1.25FEP1.50-NT	M23053/11-127-C	1-1/2	1.700	43.2	1.300	33	0.020 ± 0.004	0.508 +0.10	0.077	0.115
HS1.25FEP2.00-NT	M23053/11-128-C	2	2.100	53.3	1.700	43.2	0.020 ± 0.004	0.508 +0.10	0.101	0.150
HS1.25FEP2.25-NT	-	2-1/4	2.260	59.7	2.000	50.8	0.020 ± 0.004	0.508 +0.10	0.118	0.176
HS1.25FEP2.50-NT	M23053/11-129-C	2-1/2	2.600	66	2.100	53.3	0.020 ± 0.004	0.508 +0.10	0.124	0.185
HS1.25FEP3.00-NT	M23053/11-130-C	3	3.100	78.7	2.600	66	0.020 ± 0.004	0.508 +0.10	0.153	0.228
HS1.25FEP3.50-NT	M23053/11-131-C	3-1/2	3.500	88.9	3.100	78.7	0.020 ± 0.004	0.508 +0.10	0.183	0.272
HS1.25FEP4.00-NT	M23053/11-132-C	4	4.300	109.2	3.500	88.9	0.020 ± 0.004	0.508 +0.10	0.206	0.307
HS1.25FEP5.00-NT	-	5	5.200	132.1	4.300	109.3	0.020 ± 0.004	0.508 +0.10	0.253	0.376



Colors

- ○ Standard is natural
- Colors available as custom run

Color Code			Color Code		
○	N	Natural	●	5	Green
●	0	Black	●	6	Blue
●	1	Brown	●	7	Violet
●	2	Red	●	8	Gray
●	3	Orange	○	9	White
●	4	Yellow			



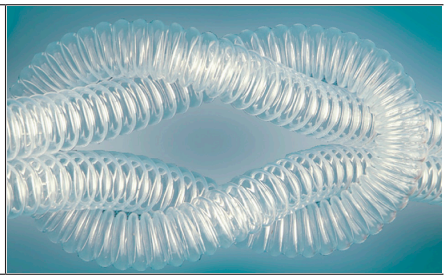
⚠ WARNING

This product can expose you to chemicals including Tetrafluoroethylene, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Updated August 6, 2025

FEP Convoluted Tubing
Series CV03, 81914/3

High temperature electrical insulation in long, continuous lengths.



Features
- Cuffs are sized on the I.D.
- Very flexible
- Long continuous lengths
- Translucent
- Chemically inert
- Good flexlife

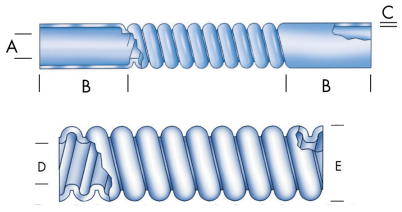
Compliance
CV03
- ASTM D3296
- 21 CFR 177.1550 compliant
- USP Class VI
- UL 94 V-0 compliant

81914
- Dimensionally compliant to AS81914/3 and AS81914/4

Notes
- Working Temperature: CV03 -100°F (-73°C) to 400°F (204°C)
  81914 -100 °F (-73°C) to 392°F (200°C)
- Wire wrap reinforcement can be added for increased pressure applications or when a tighter bend radius is needed
- ** Minimum 36" length

Fittings
- Parker Fittings available from:
  Fluid System Connectors Division
  Otsego, MI
- (269) 692-6555
  (269) 692-6634 FAX
  parker.com/fsc
- For approved fittings and/or suggested use of tube supports, reference Tube/Fitting Compatibility Chart (pg. B-8/B-9) or contact Parker Fluid Systems Connectors Division

Standard Cuffs for FEP Convo are sized on the I.D.



Order Information
Example: CV03-1/8-NT

CV03-1/8-NT – Convoluted
CV03-1/8-NT – FEP
CV03-1/8-NT – Size of Cuff I.D. (0.125")
CV03-1/8-NT – Natural
CV03-1/8-NT – Bulk Tubing "T" is bulk (for cuffed tubing, remove "T" and add length, ie. CV03-1/8-N1200 = 1/8" Convo FEP, natural, cut 12" long)

Order Information
Example: 81914/3-1001-NT

81914/3-1001-NT – Mil Spec Convoluted
81914/3-1001-NT – FEP
81914/3-1001-NT – Helical Convolutions
81914/3-1001-NT – Size 1 (0.187")
81914/3-1001-NT – Color (Natural)
81914/3-1001-NT – Bulk Tubing ("T" is bulk)

⚠ WARNING
This product can expose you to chemicals including Tetrafluoroethylene, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Tel: +45 63 12 83 00 | Email: ps@hymatik.com | www.hymatik.com | Hvidkaervej 27a, DK-5250 Odense SV, Denmark

FEP Convoluted Tubing
Series CV03, 81914/3

Series CV03 - FEP Convoluted Tubing

Part Number	Order Size	Standard Cuff I.D. "A"		Standard Cuff Length "B"		Wall Thickness "C"		Minimum Inside Diameter "D"		Maximum Inside Diameter "D"		Maximum Outside Diameter "E"		**Minimum Bend Radius		Weight	
		inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	lb/ft	kg/mtr
CV03-1/4-NT	1/4	1/4	6.35	3/4	19.1	0.020	0.508	0.251	6.38	0.265	6.73	0.405	10.3	0.365	9	0.320	8.1
CV03-5/16-NT	5/16	5/16	7.94	1	25.4	0.023	0.584	0.273	6.93	0.281	7.14	0.424	10.8	1/2	13	0.414	10.5
CV03-3/8-NT	3/8	3/8	9.53	1	25.4	0.023	0.584	0.364	9.25	0.375	9.53	0.530	13.5	7/8	22	0.450	11.4
CV03-1/2-NT	1/2	1/2	12.70	1	25.4	0.025	0.635	0.485	12.30	0.500	12.70	0.660	16.8	5/8	16	0.590	15.0
CV03-5/8-NT	5/8	5/8	15.90	1-1/4	31.8	0.025	0.635	0.609	15.50	0.625	15.90	0.780	19.8	1-1/2	38	0.660	16.8
CV03-3/4-NT	3/4	3/4	19.10	1-1/2	38.1	0.025	0.635	0.730	18.50	0.750	19.10	0.975	24.8	3-1/2	89	0.780	19.8
CV03-1.00-NT	1.00	1.000	25.40	2.000	50.8	0.030	0.762	0.975	24.80	1.000	25.40	1.260	32.0	2-1/4	57	1.100	27.9

Series 81914/3 Convoluted Tubing

Part Number	Order Size	Maximum Inside Diameter		Minimum Inside Diameter		Maximum Outside Diameter		Maximum Wall Thickness		*Minimum Bend Radius		Pitch	Weight	
				inch	mm	inch	mm	inch	mm	inch	mm		lb/ft	kg/mtr
81914/3-1001-NT	-1	0.187	4.75	0.181	4.60	0.320	8.13	0.018	0.457	1/2	13	8	0.017	0.025
81914/3-1002-NT	-2	0.281	7.14	0.273	6.93	0.414	10.5	0.018	0.457	3/4	19	8	0.028	0.042
81914/3-1003-NT	-3	0.312	7.93	0.306	7.77	0.450	11.4	0.018	0.457	3/4	19	8	0.030	0.045
81914/3-1004-NT	-4	0.375	9.53	0.364	9.25	0.510	13.0	0.018	0.457	7/8	22	8	0.036	0.053
81914/3-1005-NT	-5	0.437	11.10	0.427	10.9	0.571	14.5	0.018	0.457	7/8	22	8	0.050	0.074
81914/3-1006-NT	-6	0.500	12.70	0.485	12.3	0.650	16.5	0.023	0.584	1-1/4	32	7	0.048	0.071
81914/3-1007-NT	-7	0.625	15.90	0.608	15.4	0.770	19.6	0.023	0.584	1-1/2	38	7	0.062	0.092
81914/3-1008-NT	-8	0.750	19.10	0.730	18.5	0.930	23.6	0.023	0.584	1-3/4	44	6	0.093	0.138
81914/3-1009-NT	-9	0.875	22.20	0.860	21.8	1.073	27.3	0.023	0.584	2	51	5	0.086	0.128
81914/3-1010-NT	-10	1.000	25.40	0.975	24.8	1.226	31.1	0.023	0.584	2.370	60	5	0.107	0.159
81914/3-1011-NT	-11	1.125	28.60	1.105	28.1	1.390	35.3	0.023	0.584	2.370	60	5	0.146	0.217
81914/3-1012-NT	-12	1.250	31.80	1.210	30.7	1.539	39.1	0.023	0.584	2-3/4	70	4	0.185	0.275

FEP convoluted tubing is provided in NATURAL without cuffs directly from the factory. Natural part numbers are designated with "NT" after the Mil Spec number (i.e. 81914/3-1014) Also available in 81914/4 (Close Convolution).

Colors

- ○ Standard is natural
- Colors available as custom run

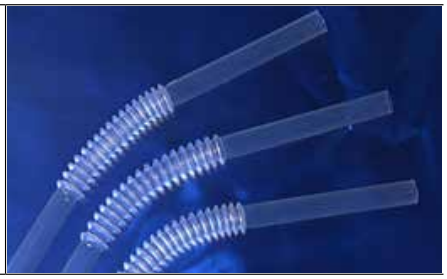
Color Code			Color Code		
○	N	Natural	●	5	Green
●	0	Black	●	6	Blue
●	1	Brown	●	7	Violet
●	2	Red	●	8	Gray
●	3	Orange	○	9	White
●	4	Yellow			

⚠ WARNING

This product can expose you to chemicals including Tetrafluoroethylene, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

FEP Corrugated Tubing
Series CR03

Turn sharp corners without kinking or slowing flow.



Features

- Capable of turning sharp corners without reducing the inside diameter of the tube
- Extremely flexible
- Kink resistant
- Non stick surface allows for easy cleaning
- Excellent clarity
- Chemically inert
- Available in FEP, PFA and High Purity PFA

Compliance

- FEP - ASTM D3296
- PFA - ASTM D3307
- 21 CFR 177.1550 compliant
- USP Class VI compliant

Colors

- ○ Natural, translucent

Notes

- Working Temperature: -100°F (-73°C) to 200°F (93°C)
  For higher temperatures, request PFA Corrugated (CR04) -100°F (-73°C) to 300°F (148°C) @ 0 pressure
- Vacuum Service: 29.9 IN. Hg (759M Hg)
- Extension-Compression Length Ratio: Approximately 2:1
- Tubing is provided in natural in custom lengths with a maximum length of 12 feet/3 meters
- Corrugated tubing is also available in specialty configurations where corrugated and straight tubing run intermittently along the tube

Fittings

- Parker Fittings available from:
  Fluid System Connectors Division
  Otsego, MI
- (269) 692-6555
  (269) 692-6634 FAX
  parker.com/fsc
- For approved fittings and/or suggested use of tube supports, reference Tube/Fitting Compatibility Chart (pg. B-8/B-9) or contact Parker Fluid Systems Connectors Division

Example: CR01-1.00-NC29.000-2C

CR03-1.00-NC29.000-2C – Corrugated Tubing
CR03-1.00-NC29.000-2C – FEP
CR03-1.00-NC29.000-2C – Tube Size Nominal I.D. (1")
CR03-1.00-NC29.000-2C – Natural
CR03-1.00-NC29.000-2C – Cut Piece
CR03-1.00-NC29.000-2C – Overall Length in inches (29")
CR03-1.00-NC29.000-2C – Standard Cuff on each end

⚠ WARNING
This product can expose you to chemicals including Tetrafluoroethylene, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

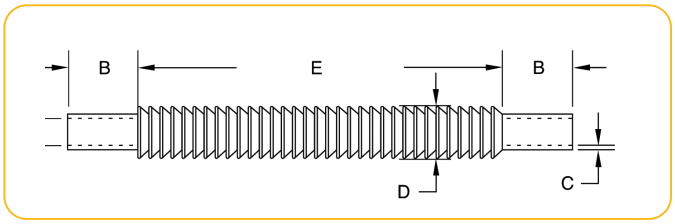
Tel: +45 63 12 83 00 | Email: ps@hymatik.com | www.hymatik.com | Hvidkaervej 27a, DK-5250 Odense SV, Denmark

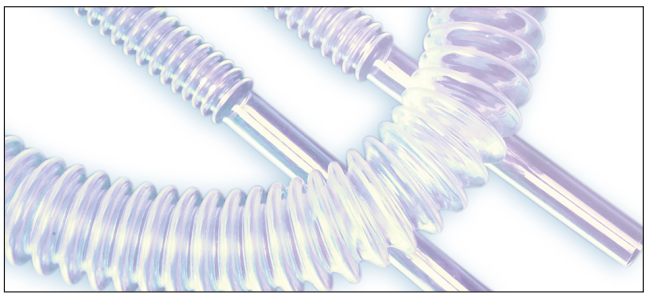
FEP Corrugated Tubing
Series CR03

Series CR03 - FEP Corrugated Tubing

Part Number	Order Size	Maximum Cuff I.D. "A" inch	mm	Standard Cuff Length "B" inch	mm	Wall Thickness "C" inch	mm	Reference Outside Diameter "D" inch	mm	Corrugated Length "E" ±1	**Minimum Bend Radius inch	mm	Weight lb/ft	kg/mtr
CR03-1/4-NT	1/4	0.250	6.35	3/4	19.1	0.015	0.38	0.375	9.53	To be specified at time of order	0.125	3.18	*	*
CR03-3/8-NT	3/8	0.375	9.53	1	25.4	0.020	0.51	0.625	15.9		0.187	4.76	*	*
CR03-1/2-NT	1/2	0.500	12.7	1	25.4	0.025	0.64	0.750	19.0		0.250	6.35	*	*
CR03-5/8-NT	5/8	0.625	15.9	1	25.4	0.025	0.64	0.938	23.8		0.312	7.94	*	*
CR03-3/4-NT	3/4	0.750	19.1	1-1/2	38.1	0.030	0.76	1.063	26.9		0.375	9.53	*	*
CR03-7/8-NT	7/8	0.875	22.2	1-1/2	38.1	0.030	0.76	1.250	31.8		0.438	11.1	*	*
CR03-1.00-NT	1	1.000	24.8	2	50.8	0.035	0.89	1.438	36.5		0.500	12.7	*	*
CR03-1.25-NT	1-1/4	1.250	31.8	2	50.8	0.035	0.89	1.625	41.3		0.625	15.9	*	*
CR03-1.50-NT	1-1/2	1.500	38.1	2	50.8	0.035	0.89	1.813	46.1		0.750	19.1	*	*

Note: * Contact the division





WARNING

This product can expose you to chemicals including Tetrafluoroethylene, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

PFA Tubing
Series 104, 204

Combines the high temperature of PTFE with the long continuous lengths of FEP

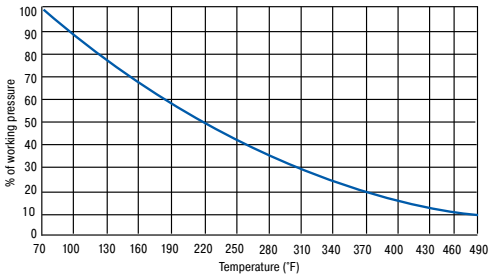


Features
- Virgin Perfluoroalkoxy
- Translucent
- Low permeability
- Exceptional heat resistance
- Chemically inert
- Long continuous lengths
- Low coefficient of friction
- Self extinguishing
- Non-wetting
- Non leaching

High Purity (105, 205)
- Withstands corrosive surfactants for longer periods of time
- Highest molecular weight available

Compliance
- ASTM D3307
- 21 CFR 177.1550 compliant
- USP Class VI

PFA Tubing (Series 104, 105, 204, 205)
Maximum Working Pressure (psi)



Notes
- Working Temperature: -100°F (-73°C) to 500°F (260°C)
- Vacuum Rating 28 @ 73°F
- Working pressure calculated using a Design Factor of 4
- Custom packaging and sizes are quoted upon request

Fittings
- Parker Fittings available from:
  Fluid System Connectors Division
  Otsego, MI
- (269) 692-6555
  (269) 692-6634 FAX
  parker.com/fsc
- For approved fittings and/or suggested use of tube supports, reference Tube/Fitting Compatibility Chart (pg. B-8/B-9) or contact Parker Fluid Systems Connectors Division

Order Information
Example: 104-0188062-NT-100

104-0188062-NT-100 – PFA
104-0188062-NT-100 – Tube O.D. in inches (3/16")
104-0188062-NT-100 – Tube Wall Thickness in inches (.062")
104-0188062-NT-100 – Natural
104-0188062-NT-100 – Bulk Tubing
104-0188062-NT-100 – Package Quantity in feet (100')

⚠ WARNING
This product can expose you to chemicals including Tetrafluoroethylene, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

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PFA Tubing
Series 104, 204

Series 104 - PFA Fractional Industrial Wall Tubing

Part Number	Order Size	Nominal O.D.		Nominal I.D.		Reference Wall Thickness		Working Pressure 73°F (23°C)		Minimum Burst Pressure		Minimum Bend Radius		Vac. Rating	Weight	
	inch	inch	mm	inch	mm	inch	mm	psi	bar	psi	bar	inch	mm		lb./ft.	kg./mt
104-0094031	3/32	0.094	2.40	0.031	0.79	0.031	0.79	680	47	2040	141	1/4	6	28	0.006	0.009
104-0125031	1/8	0.125	3.18	0.064	1.63	0.031	0.79	500	34	1500	103	3/8	10	28	0.009	0.013
104-0156031	5/32	0.157	3.99	0.094	2.39	0.031	0.79	390	27	1170	81	5/8	16	28	0.011	0.016
104-0188031	3/16	0.188	4.78	0.125	3.18	0.031	0.79	320	22	960	66	5/8	16	28	0.014	0.021
104-0250031	1/4	0.250	6.35	0.188	4.78	0.031	0.79	230	16	690	48	7/8	22	28	0.020	0.030
104-0312031	5/16	0.312	7.92	0.250	6.35	0.031	0.79	180	12	540	37	1-3/4	44	28	0.025	0.037
104-0375031	3/8	0.375	9.52	0.312	7.92	0.031	0.79	140	10	420	29	3-1/4	83	28	0.031	0.046
104-0438031	7/16	0.438	11.13	0.375	9.53	0.031	0.79	120	8	360	25	3-1/4	83	28	0.037	0.055
104-0500031	1/2	0.500	12.70	0.438	11.13	0.031	0.79	100	7	300	21	4-3/4	121	28	0.043	0.064
104-0563031	9/16	0.563	14.30	0.500	12.70	0.031	0.79	80	6	240	17	5	127	28	0.054	0.080

Series 104 - PFA Fractional Heavy Wall Tubing

104-0188062	3/16	0.188	4.78	0.064	1.63	0.062	1.57	630	43	1890	130	1/4	6	28	0.023	0.034
104-0250040	1/4	0.250	6.35	0.170	4.32	0.040	1.02	280	19	840	58	1-1/4	32	28	0.025	0.037
104-0250047	1/4	0.250	6.35	0.156	3.96	0.047	1.19	340	23	1020	70	3/4	19	28	0.028	0.042
104-0250062	1/4	0.250	6.35	0.125	3.18	0.062	1.57	470	32	1410	97	3/4	19	28	0.034	0.051
104-0312062	5/16	0.312	7.92	0.188	4.78	0.062	1.57	360	25	1080	74	1-3/8	35	28	0.045	0.067
104-0375062	3/8	0.375	9.52	0.250	6.35	0.062	1.57	290	20	870	60	1-1/2	38	28	0.057	0.085
104-0438062	7/16	0.438	11.13	0.312	7.92	0.062	1.57	250	17	750	52	2-5/8	67	28	0.068	0.101
104-0500062	1/2	0.500	12.70	0.375	9.53	0.062	1.57	210	14	630	43	2-1/8	54	28	0.079	0.118
104-0625062	5/8	0.625	15.88	0.500	12.70	0.062	1.57	160	11	480	33	3	76	28	0.102	0.152
104-0750062	3/4	0.750	19.05	0.625	15.88	0.062	1.57	130	9	390	27	6	152	28	0.125	0.186
104-1000062	1	1.000	25.40	0.875	22.22	0.062	1.57	90	6	270	19	8	203	28	0.170	0.253

Series 204 - PFA Metric Size Tubing

Part Number	Order Size	Nominal O.D.		Nominal I.D.		Reference Wall Thickness		Working Pressure 73°F (23°C)		Minimum Burst Pressure		Minimum Bend Radius		Vac. Rating	Weight	
	mm	mm	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch		kg/mtr	lb/ft
204-0400100	4	4	0.157	2	0.079	1	0.039	20	290	60	870	13	1/2	28	0.020	0.014
204-0600100	6	6	0.236	4	0.157	1	0.039	12	180	36	540	29	1-1/8	28	0.034	0.023
204-0800100	8	8	0.315	6	0.236	1	0.039	9	130	27	390	51	2	28	0.047	0.032
204-1000100	10	10	0.393	8	0.315	1	0.039	7	100	21	300	70	2-3/4	28	0.061	0.041
204-1200100	12	12	0.472	10	0.394	1	0.039	6	80	18	240	76	3	28	0.074	0.050

Colors

- ○ Standard is natural
- Colors available as custom run

Color Code		
○	N	Natural
●	0	Black
●	1	Brown
●	2	Red
●	3	Orange
●	4	Yellow

Color Code		
●	5	Green
●	6	Blue
●	7	Violet
●	8	Gray
○	9	White

⚠ WARNING

This product can expose you to chemicals including Tetrafluoroethylene, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

PFA Tubing - High Purity
Series 105, 205

Series 105 - High Purity PFA Fractional Industrial Wall Tubing

Part Number	Order Size	Nominal O.D.		Nominal I.D.		Reference Wall Thickness		Working Pressure 73°F (23°C)		Minimum Burst Pressure		Minimum Bend Radius		Vac. Rating	Weight	
	inch	inch	mm	inch	mm	inch	mm	psi	bar	psi	bar	inch	mm		lb./ft.	kg./mt
105-0125031	1/8	0.125	3.18	0.064	1.63	0.031	0.79	500	34	1500	103	3/8	10	28	0.009	0.013
105-0188031	3/16	0.188	4.78	0.125	3.18	0.031	0.79	320	22	960	66	5/8	16	28	0.014	0.021
105-0250031	1/4	0.250	6.35	0.188	4.78	0.031	0.79	230	16	690	48	7/8	22	28	0.020	0.030
105-0375031	3/8	0.375	9.52	0.312	7.92	0.031	0.79	140	10	420	29	3-1/4	83	28	0.031	0.046

Series 105 - High Purity PFA Fractional Heavy Wall Tubing

105-0250040	1/4	0.250	6.35	0.170	4.32	0.040	1.02	280	19	840	58	1-1/8	32	28	0.025	0.037
105-0250047	1/4	0.250	6.35	0.156	3.96	0.047	1.19	340	23	1020	70	3/4	19	28	0.028	0.042
105-0250062	1/4	0.250	6.35	0.125	3.18	0.062	1.57	470	32	1410	97	3/4	19	28	0.034	0.051
105-0375062	3/8	0.375	9.52	0.250	6.35	0.062	1.57	290	20	870	60	1-1/2	38	28	0.057	0.085
105-0500062	1/2	0.500	12.70	0.375	9.53	0.062	1.57	210	14	630	43	2-1/8	54	28	0.079	0.118
105-0750062	3/4	0.750	19.05	0.625	15.88	0.062	1.57	130	9	390	27	6	152	28	0.125	0.186
105-1000062	1	1.000	25.40	0.875	22.22	0.062	1.57	90	6	270	19	8	203	28	0.170	0.253

Series 205 - PFA High Purity Metric Size Tubing

Part Number	Order Size	Nominal O.D.		Nominal I.D.		Reference Wall Thickness		Working Pressure 73°F (23°C)		Minimum Burst Pressure		Minimum Bend Radius		Vac. Rating	Weight	
	mm	mm	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch		kg/mtr	lb/ft
205-0300100	3	3	0.118	1	0.039	1	0.039	27	390	81	1170	6	1/4	28	0.014	0.009
205-0400100	4	4	0.157	2	0.079	1	0.039	20	290	60	870	13	1/2	28	0.020	0.014
205-0600100	6	6	0.236	4	0.157	1	0.039	12	180	36	540	29	1-1/8	28	0.034	0.023
205-0800100	8	8	0.315	6	0.236	1	0.039	9	130	27	390	51	2	28	0.047	0.032
205-1000100	10	10	0.393	8	0.315	1	0.039	7	100	21	300	70	2-3/4	28	0.061	0.041
205-1200100	12	12	0.472	10	0.394	1	0.039	6	80	18	240	76	3	28	0.074	0.050

Colors

- ○ Standard is natural
- Colors available as custom run

Color Code			Color Code		
○	N	Natural	●	5	Green
●	0	Black	●	6	Blue
●	1	Brown	●	7	Violet
●	2	Red	●	8	Gray
●	3	Orange	○	9	White
●	4	Yellow			

Order Information
Example: 105-0188062-NT-100

105-0188062-NT-100 – High Purity PFA
105-0188062-NT-100 – Tube O.D. in inches (3/16")
105-0188062-NT-100 – Tube Wall Thickness in inches (.062")
105-0188062-NT-100 – Natural
105-0188062-NT-100 – Bulk Tubing
105-0188062-NT-100 – Package Quantity in feet (100')

⚠ WARNING
This product can expose you to chemicals including Tetrafluoroethylene, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

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Plastic Multitube Tubing Bundles
Series PJ, PJH

Bundled tubing is an ideal alternative for applications where multiple lengths of tubing are currently being installed independently.



Features

- Ideal alternative for applications where multiple lengths of tubing are currently being installed independently
- Saves space within cabled trays
- Reduces overall installation cost
- Bundles offer protection to the indivdiual tubes while being routed through-out a plant
- Standard jacketing material - Black 105°C-rated, flame-resistant PVC FR-PVC offers tough protection against corrosive environments, water, oils, acids and alkaline chemicals. Chemically inert
- Each tube in bundle is pessure tested prior to shipment; Plastic tubes are pressure tested using dry N2 at 125 psi for 5 minutes*

Notes

- Other jacketing materials are available upon request
- Plastic tubes are uniquely identified using a number code printed along the entire length of each tube. Each tube is uniquely numbered, making connections fast and accurate during installation.

Order Information

Example: 4PJ-E0440-UB

4PJ-E0440-UB – Number of Tubes (4)
4PJ-E0440-UB – Product Design (Polymer Jacketed)
4PJ-E0440-UB – Tube Material (Polyethylene)
4PJ-E0440-UB – Tube O.D. in sixteenths of an inch (1/4")
4PJ-E0440-UB – Tube Wall Thickness in decimals (0.040")
4PJ-E0440-UB – Jacket Material (FR-PUR)
4PJ-E0440-UB – Jacket Color (Blue)

⚠ WARNING

This product can expose you to chemicals including Titanium dioxide (airborne, unbound part,1,3-Butadiene which is known to the State of California to cause cancer and 1,3-Butadiene which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Nomenclature
Plastic Multitube Tubing Bundles
Series PJ, PJH





Number of Tubes	Product Design	–	Tube Material	Tube Size O.D.	Tube Size Wall Thickness	–	Jacket Material	Jacket Color
1 = 1 tube 2 = 2 tubes 3 = 3 tubes 4 = 4 tubes etc.	PJ = Polymer, Jacketed PJH = Polymer, Jacketed Heavy 3/16"		E = Polyethylene R = PEFR N = Nylon U = Urethane P = PFA Fluoropolymer F = FEP Fluoropolymer T = TFE Fluoropolymer 9 = Customer Specified Tube Material. All Thermoplastic products are standard in black with number codes. Fluoropolymer products are standard as natural tubing without number codes. Colored tubes are available upon special request"	Imperial 02 = 1/8" 03 = 3/16" 04 = 1/4" 05 = 5/16" 06 = 3/8" 08 = 1/2" 10 = 5/8" 12 = 3/4" 16 = 1 Metric MB = 4mm MC = 6mm MD = 8mm ME = 10mm MF = 12mm	Imperial 16=.016" 40=.040" 31=.031" 47=.047" 35=.035" 50=.050" 62=.062" Metric 10=1.0mm 20=2.0mm 15=1.5mm		V = FR-PVC T = FR-TPE U = FR-PUR P = PUR R = TPR E = PEFR L = LDPE Note: Parflex standard jacket material is FR-PVC For standard FR-PVC black, the -VN may be dropped	N = Black B = Blue G = Green O = Orange Y = Yellow P = Purple R = Red Note: Parflex standard jacket material is FR-PVC For standard FR-PVC black, the -VN may be dropped

Series PJ/PJH - Multitube Bundled Tubing

Description	Part Number	Number of Tubes	Jacket Thickness		Nominal Product O.D.		Minimum Bend Radius		Maximum Pulling Tension		Weight per 100 feet	
		inch	inch	mm	inch	mm	inch	mm	lbs.	kg.	lb.s	kg.
Polyethylene Tubes: 1/4" O.D. x .040" Wall	2PJ-E0440	2	0.045	1.14	0.59	15.0	1.5	38.1	90	41	8.6	3.9
	3PJ-E0440	3	0.045	1.14	0.6	15.2	1.5	38.1	110	50	11.4	5.2
	4PJ-E0440	4	0.063	1.6	0.74	18.8	2	50.8	140	63	12.8	5.8
	5PJ-E0440	5	0.063	1.6	0.88	22.4	2	50.8	170	77	15.1	6.8
	7PJ-E0440	7	0.063	1.6	0.89	22.6	2.5	63.5	195	88	17.5	7.9
	8PJ-E0440	8	0.063	1.6	0.97	24.6	2.5	63.5	235	107	19.5	8.8
	10PJ-E0440	10	0.063	1.6	1.14	29.0	3	76.2	260	118	22.8	10.3
	12PJ-E0440	12	0.063	1.6	1.14	29.0	3.5	88.9	300	136	25.4	11.5
	14PJ-E0440	14	0.063	1.6	1.25	31.8	4	101.6	340	154	28.8	13.1
	19PJ-E0440	19	0.08	2	1.40	35.6	5	127.0	425	193	36.8	16.7
	37PJ-E0440	37	0.08	2	1.96	49.8	9	228.6	880	399	74.5	33.8
Polyethylene Tubes: 3/8" O.D. x .062" Wall	2PJ-E0662	2	0.063	1.6	0.89	22.6	2	50.8	160	73	13.9	6.3
	3PJ-E0662	3	0.063	1.6	0.89	22.6	2	50.8	195	88	17.9	8.1
	4PJ-E0662	4	0.063	1.6	1.05	26.7	2.5	63.5	265	120	21.1	9.6
	5PJ-E0662	5	0.063	1.6	1.16	29.5	3	76.2	295	134	24.6	11.2
	7PJ-E0662	7	0.08	2	1.31	33.3	4	101.6	365	166	29.7	13.5
	10PJ-E0662	10	0.08	2	1.72	43.7	5	127.0	515	234	44.2	20.0
	12PJ-E0662	12	0.08	2	1.80	45.7	6	152.4	685	311	60.8	27.6
	19PJ-E0662	19	0.08	2	2.13	54.1	10	254.0	900	408	85.5	38.8

⚠ WARNING

This product can expose you to chemicals including Titanium dioxide (airborne, unbound part,1,3-Butadiene which is known to the State of California to cause cancer and 1,3-Butadiene which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

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Retractable Coiled Tubing

Fast-Stor® NoMar® Fast-Stor® FEP/PFA

Updated August 6, 2025

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Parflex Air Hose

Nylon and 95 Durometer Polyurethane

Every hydraulic, pneumatic and lubrication system requires some form of tube line fabrication and fitting installation for completion. Proper fabrication and installation are essential for the overall efficiency, leak free performance, and general appearance of any system.

Start by planning ahead. After sizing the tube lines and selecting the appropriate style of fitting, consider the following in the design of your system:

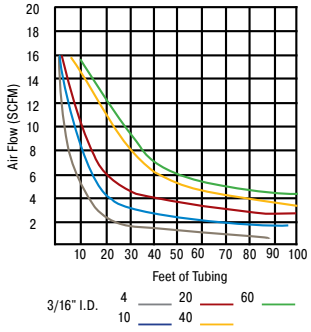
- Accessibility of joints
- Proper routing of lines
- Adequate tube line supports
- Available fabricating tools

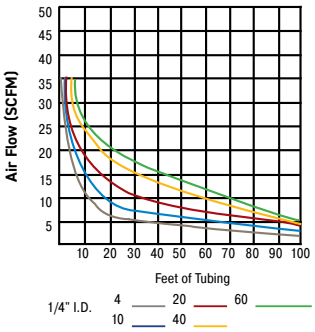
Routing of Lines

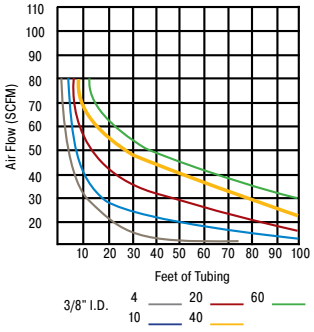
- Routing of lines is probably the most difficult, yet most significant, of these system design considerations. Proper routing involves getting a connecting line from one point to another through the most logical path.
- Always try to leave fitting joints as accessible as possible. Hard to reach joints are hard to assemble and tighten properly. Inaccessible joints are also more difficult and time consuming to service.

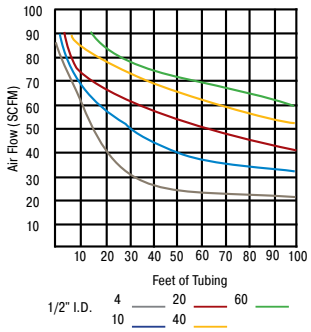
Size Selection Procedure

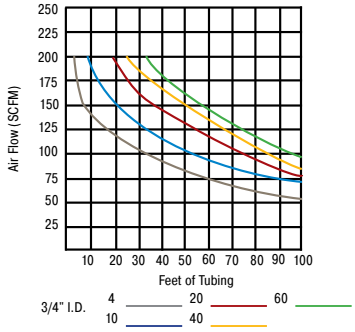
1. Determine air flow rate and pressure required by following air-tool manufacturers recommendations.
2. Refer to "Air Flow Characteristics" graphs, shown below. Find air flow requirement in standard cubic feet per minute (SCFM) on vertical line to left of graph. Now follow horizontal line on same graph to determine total extended length of hose required. Follow vertical line above hose length to intersection with the horizontal air flow SCFM line.
3. Note pressure drop above curve nearest to intersection of SCFM and hose length lines. Pressure drop, subtracted from line pressure, equals "available pressure" at the selected SCFM flow rate and hose length.
4. If "available pressure" is below the tool manufacturers' recommendations, refer to chart for successively larger hose sizes until an acceptable "available pressure" is found. Choose this size Fast-Stor® Air Hose for your application.
5. Refer to "working pressure vs. temperature" chart (pg. B-7) to be sure your application falls within the working range of Fast-Stor® Air Hose.











Actual working pressure charts are located in the tubing section on the specific product page.

Fast-Stor® Air Hose
Nylon

Manufactured from tough, abrasion-resistant nylon.



Features

- Excellent memory characteristics over a wide temperature range
- Long service life in rugged applications
- Safety yellow color per U.S. Government OSHA directives
- Spring guard protection at fitting connections

Fittings

- Parker Fittings available from:
  Fluid System Connectors Division
  Otsego, MI
- (269) 692-6555
  (269) 692-6634 FAX
  parker.com/fsc

Notes

- Color: Yellow
- Retail packaging standard for all coiled assemblies
- Service temperature range: -40°F (-40°C) to 200°F (93°C)
- *Maximum working pressure based on design factor of 3:1
- Pre-applied thread sealant on all fittings
- NPT swivel standard on each end of assembly
- Fittings for Fast-Stor hose are constructed from heavy duty brass with built in tube insert

Order Information
Example: NFS-04-012

NFS-04-012 – Air Hose
NFS-**04**-012 – Tube I.D. in sixteenths of an inch (1/4")
NFS-04-**012** – Unit Length in feet (12')



Series NFS Fast-Stor

Assembly Part Number	Tube O.D. inch	Tube O.D. mm	Tube I.D. inch	Tube I.D. mm	Nominal Coil O.D. inch	Nominal Coil O.D. mm	Unit Length ft	Unit Length mtr	Extended Length ft	Extended Length mtr	Nominal Compact Length inch	Nominal Compact Length mm	Working Pressure* 73°F (23°C) psi	Working Pressure* 73°F (23°C) bar	Minimum Burst Pressure* psi	Minimum Burst Pressure* bar	End Fittings	Color
Assemblies																		
NFS-04-012	5/16	8	1/4	6	3-1/2	89	12	3.7	9.0	2.7	4-1/2	114	240	16.5	720	49.6	1/4" NPT	
NFS-04-025							25	7.6	18.8	5.7	9	229						
NFS-04-050							50	15.2	37.5	11.4	18	457						
NFS-06-012	15/32	12	3/8	10	5-1/2	140	12	3.7	9.0	2.7	4-1/2	114	225	15.5	675	46.5	3/8" NPT	
NFS-06-025							25	7.6	18.8	5.7	9	229						
NFS-06-050							50	15.2	37.5	11.4	18	457						
NFS-08-012	5/8	16	1/2	13	8	203	12	3.7	9.0	2.7	4-1/2	114	220	15.2	660	45.5	1/2" NPT	
NFS-08-025							25	7.6	18.8	5.7	8	203						
NFS-08-050							50	15.2	37.5	11.4	17	431						
Bulk Hose																		
NFS-04-100B	5/16	8	1/4	6	3-1/2	89	100	30.5	75	22.8	38	965	240	16.5	720	49.6	-	
NFS-06-100B	15/32	12	3/8	10	5-1/2	140	100	30.5	75	22.8	37	940	225	15.5	675	46.5	-	
NFS-08-100B	5/8	16	1/2	13	8	203	100	30.5	75	22.8	36	914	220	15.2	660	45.5	-	

⚠ WARNING
This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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Fast-Stor® Fittings
Male Connections

Manufactured from heavy duty brass.



Features

- Constructed from heavy duty brass with built in insert-supports
- Fitting bodies are SAE standard sizes
- All fitting part numbers include body, nut, ferrule, tube support, and spring guard



OBSOLETE

MC – Male Connector



Part Number #	Thread Size	Hose I.D.		L		B Hex		C Hex	
		inch	mm	inch	mm	inch	mm	inch	mm
MC-04-4	1/4	1/4	6	1-9/16	40	9/16	14	9/16	14
MC-06-6	3/8	3/8	10	1-13/16	46	11/16	17	13/16	21
MC-08-8	1/2	1/2	13	2-1/8	54	7/8	22	15/16	24

ML – Live Male Pipe Swivel



Part Number #	Thread Size	Hose I.D.		L		B Hex		C Hex	
		inch	mm	inch	mm	inch	mm	inch	mm
ML-04-4	1/4	1/4	6	1-9/16	40	9/16	14	9/16	14
ML-06-6	3/8	3/8	10	1-7/8	47	3/4	19	13/16	21
ML-08-8	1/2	1/2	13	2-3/8	60	5/8	22	15/16	24

⚠ WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Fast-Stor® Fittings
How to Assemble

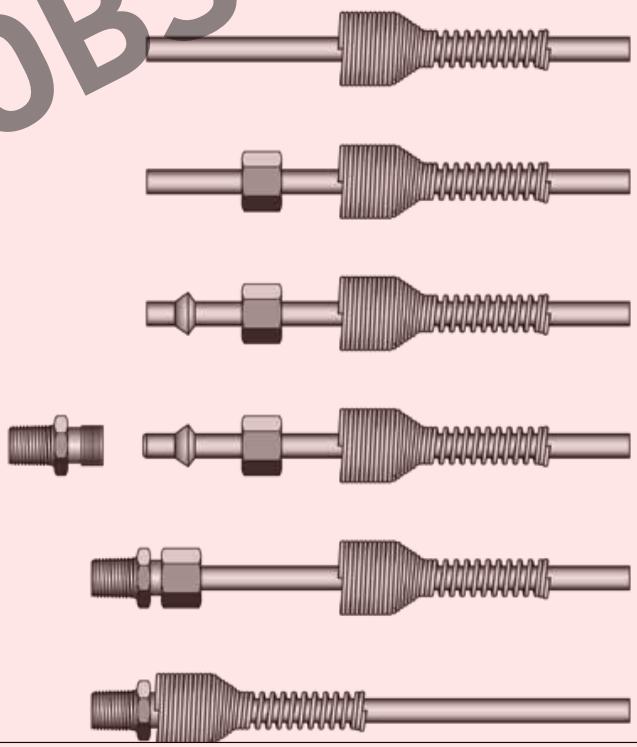
Manufactured from heavy duty brass.



How To Assemble Fast-Stor Hose

1. Using a Parker PTC or HTC hand cutter or other sharp cutter, cut hose squarely to correct length
2. Install SG spring guard on hose as shown
3. Slide FN nut on hose followed by FR plastic ferrule with the taper side of the ferrule toward the cut end of the hose
4. Insert TS tube support
5. Push hose into fitting body until bottomed. Slide nut and ferrule up to fitting body and tighten nut by hand. With a wrench, tighten the nut an additional 2 to 2-1/2 turns
6. Slide spring guard over nut until the lead coil snaps between the nut and fitting body hex

OBSOLETE

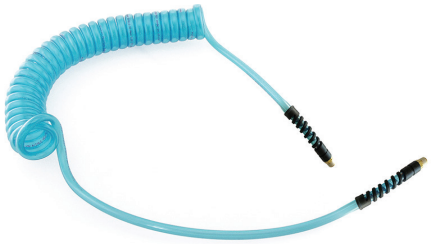


⚠ WARNING
This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Updated August 6, 2025

NoMar® Fast-Stor® Air Hose
95 Durometer Polyurethane

Excellent abrasion and kink resistance.



Features

- 95 Shore A durometer
- Constructed from non-marring, UV resistant polyurethane
- Excellent abrasion and kink resistance



Notes

- Service temperature range: -40°F (-40°C) to 180°F (82°C)
- Pigtail - 8" and 16" with NPT swivel on each end
- Pre-applied thread sealant on all fittings
- Retail packaging standard for all coils
- Extended length approximately 92% of unit length

Colors

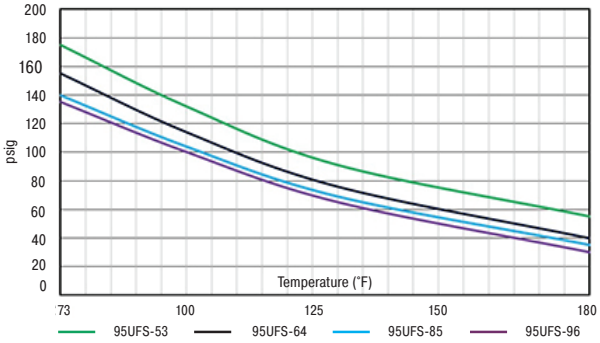
Color Code

●	TBL	Trans. Blue
●	BLK	Black
●	BLU	Blue
●	RED	Red
●	YEL	Yellow

Order Information
Example: 95UFS-64-TBL-025

95UFS-64-TBL-025 – Assembled Urethane Fast-Stor
95UFS-64-TBL-025 – Tube O.D. in sixteenths of an inch (3/8")
95UFS-64-TBL-025 – Hose I.D. in sixteenths of an inch (1/4")
95UFS-64-TBL-025 – Color TBL = Transparent Blue
95UFS-64-TBL-025 – Unit Length (25')

Polyurethane Air Hose (Series 95UFS)
Maximum Working Pressure (psig)



Series NoMar Fast-Stor Assemblies

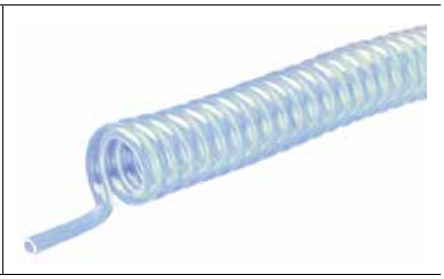
Assembly Part Number	Hose O.D. inch	Hose O.D. mm	Hose I.D. inch	Hose I.D. mm	Nominal Coil O.D. inch	Nominal Coil O.D. mm	Unit Length ft	Unit Length mtr	Extended Length ft	Extended Length mtr	Nominal Compact Length inch	Nominal Compact Length mm	Working Pressure 73°F (23°C) psi	Working Pressure 73°F (23°C) bar	Minimum Burst Pressure psi	Minimum Burst Pressure bar	End Fittings	Colors
95UFS-53-XXX-010	5/16	8	3/16	5	1-5/8	41	10	3.0	9.2	2.8	7 1/2	190	175	12.1	525	36.2	1/4" NPT swivel	●
95UFS-53-XXX-025							25	7.6	23.0	7.0	21-1/2	546						●
95UFS-64-XXX-010	3/8	10	1/4	6	2-1/2	64	10	3.0	9.2	2.8	5-1/2	140	155	10.7	465	32.1	1/4" NPT swivel	●
95UFS-64-XXX-015							15	4.6	13.8	4.2	9	229						● ● ● ● ●
95UFS-64-XXX-020							20	6.1	18.4	5.6	13	330						●
95UFS-64-XXX-025							25	7.6	23.0	7.0	16	406						● ● ● ● ●
95UFS-85-XXX-010	15/32	12	5/16	8	3-3/16	81	10	3.0	9.2	2.8	5-1/2	140	140	9.7	420	29.0	3/8"" NPT swivel	●
95UFS-85-XXX-015							15	4.6	13.8	4.2	8-1/2	216						●
95UFS-85-XXX-020							20	6.1	18.4	5.6	12-1/2	318						●
95UFS-85-XXX-025							25	7.6	23.0	7.0	15-1/2	394						●
95UFS-96-XXX-010	9/16	14	3/8	10	3-5/8	92	10	3.0	9.2	2.8	6	152	135	9.3	405	27.9	3/8"" NPT swivel	●
95UFS-96-XXX-015							15	4.6	13.8	4.2	9-1/2	241						●
95UFS-96-XXX-020							20	6.1	18.4	5.6	13-1/2	343						●
95UFS-96-XXX-025							25	7.6	23.0	7.0	17	432						●

⚠ WARNING
This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Updated August 6, 2025

Fluoropolymer Retractable Coil Tubing
703 FEP - 704, 705 PFA

Excellent flexibility, clarity and chemical resistance.

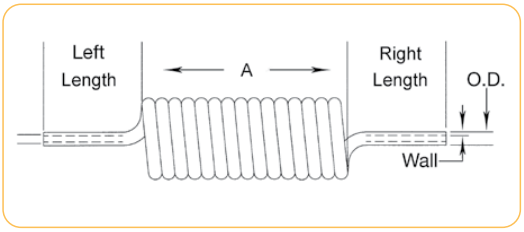


Features
- Extremely flexible
- Excellent clarity
- Chemically inert
- Low coefficient of friction
- Self extinguishing
- Non-wetting
- Available in FEP, PFA and High Purity PFA

Compliance
- FEP - ASTM D3296
- PFA - ASTM D3307
- FDA Compliant
- USP Class VI

Colors
- ○ Natural, translucent

Notes
- Service temperature range: -100°F (-75°C) to 200°F (93°C)
  For higher temperatures, request PFA -100°F (-75°C) to 300°F (148°C)
  Above these temperatures, the coils dimensions are not stable and the coils will lose their shape
- Wall thickness of tubing .062"/1.57mm
- Part number nomenclature - Use prefix 703 for FEP, 704 for PFA and 705 for HP PFA
- Standard left/right tail length is 6 inches



Fittings
Parker Fittings available from:
Fluid System Connectors Division
Otsego, MI

(269) 692-6555
(269) 692-6634 FAX
parker.com/fsc

For approved fittings and/or suggested use of tube supports, reference Tube/Fitting Compatibility Chart (pg. B-8/B-9) or contact Parker Fluid Systems Connectors Division

Order Information
Example: 704-0312062-xx0012

704-0312062-xx0012 – Retractable Tubing
704-0312062-xx0012 – PFA
704-0312062-xx0012 – Tube O.D. in inches (3/16")
704-0312062-xx0012 – Tube Wall Thickness in inches (.062")
704-0312062-xx0012 – Custom Options (as required)
704-0312062-xx0012 – Length in inches (12")

⚠ WARNING
This product can expose you to chemicals including Tetrafluoroethylene, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Tel: +45 63 12 83 00 | Email: ps@hymatik.com | www.hymatik.com | Hvidkaervej 27a, DK-5250 Odense SV, Denmark

Fluoropolymer Retractable Coil Tubing
Series 703 FEP

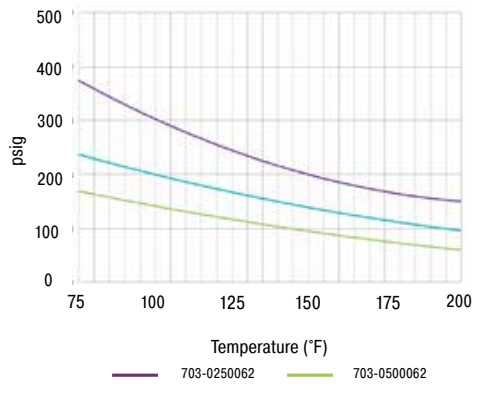
Series 703 - FEP Retractable Coil Tubing

Part Number	Tube O.D.		Tube I.D.		Nominal Coil O.D.		Extended Length		Nominal Compact Length		Working Pressure 73°F (23°C)		Colors
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	psi	bar	
703-0250062-xx0003	1/4	6.35	1/8	3.18	1-1/2	38	12	305	3	76	375	25	○
703-0250062-xx0006							24	610	6	152			○
703-0250062-xx0012							48	1219	12	305			○
703-0250062-xx0018							72	1829	18	457			○
703-0375062-xx0003	3/8	9.68	1/4	6.35	2-3/8	60	12	305	3	76	240	16	○
703-0375062-xx0006							24	610	6	152			○
703-0375062-xx0012							48	1219	12	305			○
703-0375062-xx0018							72	1829	18	457			○
703-0500062-xx0003	1/2	12.88	3/8	9.68	4	102	12	305	3	76	175	12	○
703-0500062-xx0006							24	610	6	152			○
703-0500062-xx0012							48	1219	12	305			○

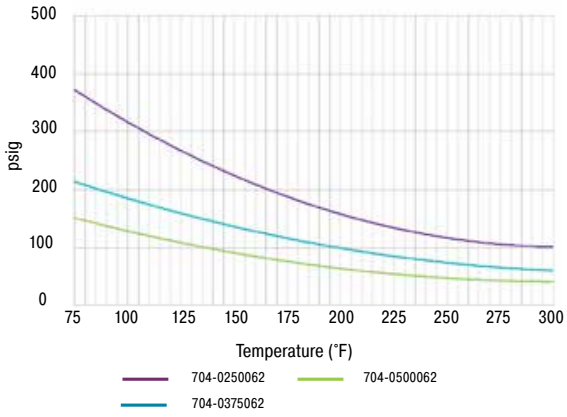
Series 704 - PFA Retractable Coil Tubing

Part Number	Tube O.D.		Tube I.D.		Nominal Coil O.D.		Extended Length		Nominal Compact Length		Working Pressure 73°F (23°C)		Colors
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	psi	bar	
704-0250062-xx0003	1/4	6.35	1/8	3.18	1-1/2	38	12	305	3	76	375	25	○
704-0250062-xx0006							24	610	6	152			○
704-0250062-xx0012							48	1219	12	305			○
704-0250062-xx0018							72	1829	18	457			○
704-0375062-xx0003	3/8	9.68	1/4	6.35	2-3/8	60	12	305	3	76	240	16	○
704-0375062-xx0006							24	610	6	152			○
704-0375062-xx0012							48	1219	12	305			○
704-0375062-xx0018							72	1829	18	457			○
704-0500062-xx0003	1/2	12.88	3/8	9.68	4	102	12	305	3	76	175	12	○
704-0500062-xx0006							24	610	6	152			○
704-0500062-xx0012							48	1219	12	305			○

Rectractable Coils FEP (Series 703)
Maximum Working Pressure (psig)



Rectractable Coils PFA (Series 704)
Maximum Working Pressure (psig)



⚠ WARNING

This product can expose you to chemicals including Tetrafluoroethylene, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Updated August 6, 2025

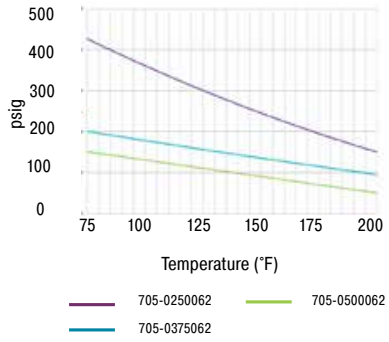
Fluoropolymer Retractable Coil Tubing

Series 705 High Purity PFA

Series 705 - High Purity PFA Retractable Coil Tubing

Part Number	Tube O.D.		Tube I.D.		Nominal Coil O.D.		Extended Length		Nominal Compact Length		Working Pressure 73°F (23°C)		Colors
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	psi	bar	
704-0250062-xx0003	1/4	6.35	1/8	3.18	1-1/2	38	12	305	3	76	420	28	○
704-0250062-xx0006							24	610	6	152			○
704-0250062-xx0012							48	1219	12	305			○
704-0250062-xx0018							72	1829	18	457			○
704-0375062-xx0003	3/8	9.68	1/4	6.35	2-3/8	60	12	305	3	76	200	13	○
704-0375062-xx0006							24	610	6	152			○
704-0375062-xx0012							48	1219	12	305			○
704-0375062-xx0018							72	1829	18	457			○
704-0500062-xx0003	1/2	12.88	3/8	9.68	4	102	12	305	3	76	150	10	○
704-0500062-xx0006							24	610	6	152			○
704-0500062-xx0012							48	1219	12	305			○

Rectractable Coils High Purity PFA (Series 705)
Maximum Working Pressure (psig)



⚠ WARNING

This product can expose you to chemicals including Tetrafluoroethylene, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Updated August 6, 2025



TRANSPORTATION

Air Brake Tubing
Diesel Fuel Tubing
Tractor-to-Tractor Coils
DEF Transfer

Updated August 6, 2025

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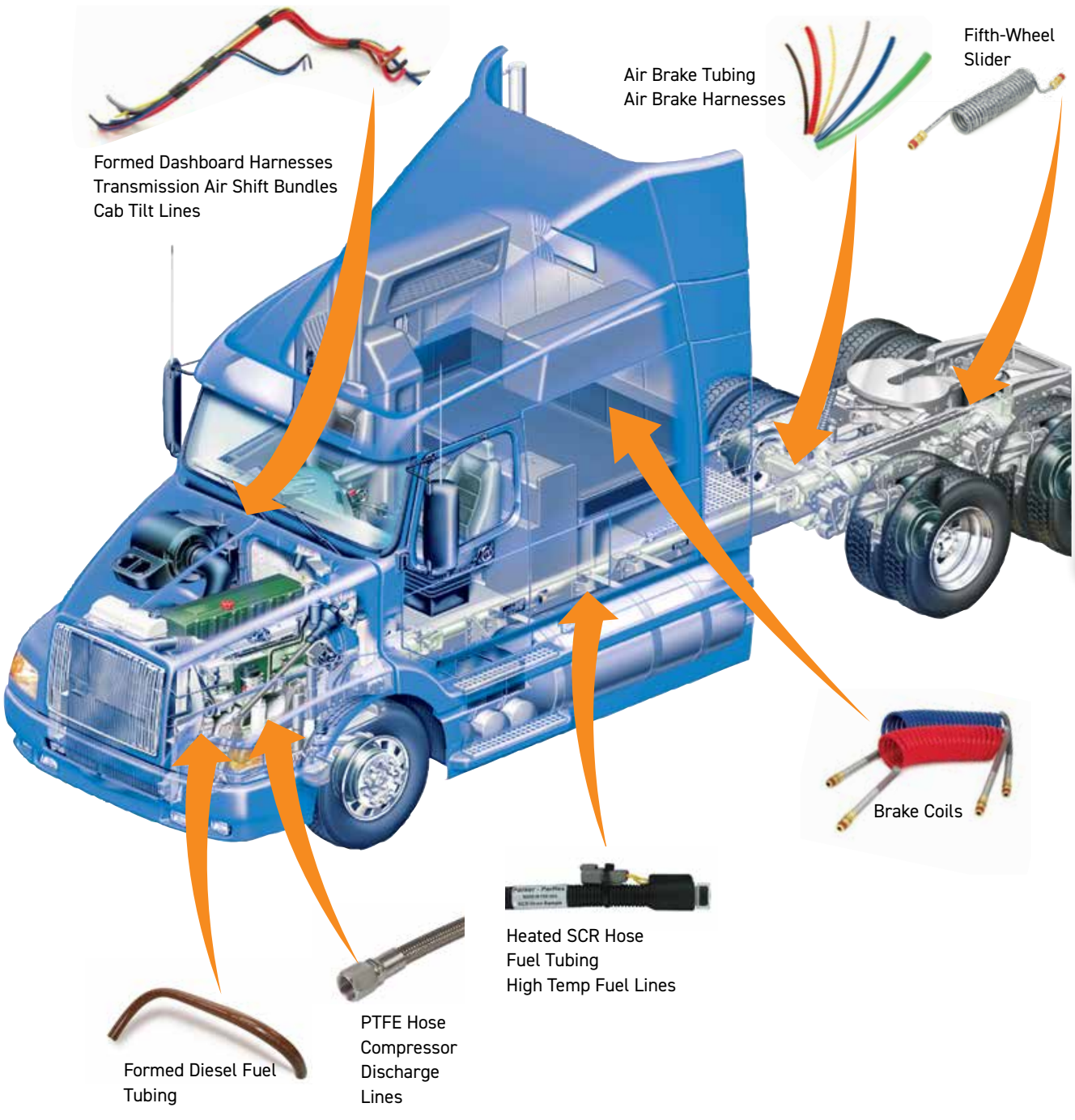
Tel: +45 63 12 83 00 | Email: ps@hymatik.com | www.hymatik.com | Hvidkaervej 27a, DK-5250 Odense SV, Denmark

Parflex Transportation Products
On-Vehicle Index



Updated August 6, 2025

Nomenclature
Transportation Tubing
Nylon: Series Air Brake, Diesel Fuel





Product Family		Tube Size O.D.		Tube Type		Tubing Color*	
1120 = Airbrake	–	2 = 0.125	–	A = Single-wall extruded Nylon (polyamide)	–	BLK = Black	–
PFT = Airbrake or Diesel Fuel		2.5 = 0.156				BLU = Blue	
HTFL = High Temperature Diesel Fuel		3 = 0.188		B = Nylon (polyamide) core, fiber reinforcement, Nylon (polyamide) cover/sheath		BRN = Brown	
		4 = 0.250				GRN = Green	
		5 = 0.313				ORG = Orange	
		6 = 0.375				PUR = Purple	
		8 = 0.500				RED = Red	
		10 = 0.625				SIL = Silver	
		12 = 0.750				TAN = Tan	
						YEL = Yellow	
						WHT = White	

Note: If color not specified in the product table, contact Parflex Division for availability

Tube Packaging		Options Designator
100 = 100 ft reel	–	FL = Diesel Fuel Tubing
500 = 500 ft reel		
1000 = 1000 ft reel		

Example: 1120-4A-RED-1000

1120-4A-RED-1000 – Air Brake Tubing
1120-4A-RED-1000 – Tube O.D. in sixteenths of an inch (1/4")
1120-4A-RED-1000 – Tube Type Single wall
1120-4A-RED-1000 – Color Red
1120-4A-RED-1000 – Package Quantity in feet (1000')

The "PFT" series is used as standard for air brake tubing in -2, -2.5, -3 and -5. It is also used with Diesel Fuel Tubing (PFT-FL)

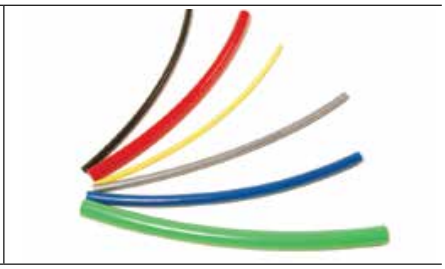
Example: PFT-6B-BLU-500-FL

PFT-6B-BLU-500-FL – Diesel Fuel Tubing*
PFT-6B-BLU-500-FL – Tube O.D. in sixteenths of an inch (3/8")
PFT-6B-BLU-500-FL – Tube Type Reinforced and Jacketed
PFT-6B-BLU-500-FL – Color Blue
PFT-6B-BLU-500-FL – Package Quantity in feet (500')
PFT-6B-BLU-500-FL – *Designator for Diesel Fuel Tubing

Updated August 6, 2025

Air Brake Tubing
Series 1120, PFT

Parflex makes enough airbrake tubing every year to circle the globe twice.



Features

- 100% pressure tested
- Excellent UV stability
- Kink resistant
- Produced from abrasion resistant, heat and light stabilized Nylon resin
- EZ pack (100') boxes available

Compliance

- SAE-J844
- DOT FMVSS 49CFR 571.106
  - 2A, 3A, & 5A are not DOT sizes

Notes

- *2A, 3A, and 5A are not DOT sizes
- Material:
  Type A – Single-wall extruded Nylon (polyamide)
  Type B – Nylon (polyamide) core, fiber reinforcement, Nylon (polyamide) cover/sheath
- The operating temperature range for service at rated pressures is -40°F (-40°C) to 200°F (93°C)
- Working pressure 150 psi (10.3 bar) at 73°F (23°C)

Colors

Color Code		
●	BLK	Black
●	BLU	Blue
●	BRN	Brown
●	GRN	Green
●	ORG	Orange
●	PUR	Purple
●	RED	Red
●	SIL	Silver
●	TAN	Tan
●	YEL	Yellow
○	WHT	White

Fittings

- Parker Fittings available from:
  Fluid System Connectors Division
  Otsego, MI
- (269) 692-6555
  (269) 692-6634 FAX
  parker.com/fsc
- For approved fittings and/or suggested use of tube supports, reference Tube/Fitting Compatibility Chart (pg. B-8/B-9) or contact Parker Fluid Systems Connectors Division

Example: 1120-6B-RED-500

1120-6B-RED-500 – Air Brake Tubing
1120-6B-RED-500 – Tube O.D. in sixteenths of an inch (3/8")
1120-6B-RED-500 – Tube Type Reinforced and Jacketed
1120-6B-RED-500 – Color Red
1120-6B-RED-500 – Package Quantity in feet (500')

The "PFT" series is used as standard for air brake tubing in -2, -2.5, -3 and -5. It is also used with Diesel Fuel Tubing (PFT-FL)

⚠ WARNING
This product can expose you to chemicals including Nickel compounds, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Updated August 6, 2025

Air Brake Tubing
Series 1120, PFT

Series 1120, PFT - Airbrake Tubing

Part Number	Tube O.D.		Tube I.D.		Nominal Wall Thickness		Minimum Burst Pressure		Minimum Bend Radius		Weight		Color
	inch	mm	inch	mm	inch	mm	psi	bar	inch	mm	lbs./ft.	kg/mtr	
PFT-2A-XXX-1000*	1/8	3.2	.079	2.0	.023	0.6	1000	68.9	3/8	9.5	.003	.005	●
PFT-2.5-XXX-250	5/32	4.0	.092	2.3	.032	0.8	1200	82.7	1/2	12.5	.006	.008	●
PFT-3A-XXX-1000*	3/16	4.8	.118	3.0	.035	0.9	1200	82.7	3/4	19.0	.008	.011	●
1120-4A-XXX-100	1/4	6.4	.170	4.3	.040	1.0	1200	82.7	1	25.5	.012	.018	●
1120-4A-XXX-1000													● ● ● ● ● ● ● ●
PFT-5A-XXX-500*	5/16	7.9	.232	5.9	.040	1.0	1000	68.9	1-1/4	32.0	.016	.023	●
1120-6B-XXX-100	3/8	9.5	.251	6.4	.062	1.6	1400	96.5	1-1/2	38.0	.027	.040	●
1120-6B-XXX-500													● ● ● ● ● ● ● ●
1120-8B-XXX-100	1/2	12.7	.376	9.6	.062	1.6	950	65.5	2	51.0	.039	.058	●
1120-8B-XXX-500													● ● ● ● ● ● ●
1120-10B-XXX-250	5/8	15.9	.441	11.2	.092	2.3	900	62.1	2-1/2	63.5	.070	.104	● ● ● ●
1120-12B-XXX-250	3/4	19.1	.566	14.4	.092	2.3	800	55.2	3	76.0	.086	.128	● ●

Note: *2A, 3A, and 5A are not DOT sizes
-100: 100' box quantity in EZ pack box



Series 1120, PFT - Airbrake Tubing Pallet Quantities

Part Number	Standard Pallet	
	ft	mtr
PFT-2A	24000	7315
PFT-2.5	24000	7315
PFT-3A	24000	7315
1120-4A	24000	7315
PFT-5A	12000	3658
1120-6B	12000	3658
1120-8B	6000	1828
1120-10B	3000	914
1120-12B	3000	914



⚠ WARNING
This product can expose you to chemicals including Nickel compounds, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Tel: +45 63 12 83 00 | Email: ps@hymatik.com | www.hymatik.com | Hvidkaervej 27a, DK-5250 Odense SV, Denmark

Diesel Fuel Tubing
Series PFT-FL, HTFL

Light weight tubing saves weight and installation labor in comparison to hose and hard-line tubing.



Features

- Designed for use in tractor, trailer and other mobile fuel systems
- Heat and light stabilized
- 100% pressure tested
- Light weight - saves weight and labor in comparison with hose and hard-line tubing
- HTFL for use in high temperature applications and available in pre-formed tubes for quicker installations

PFT-FL Notes

- Material: Heat and light stabilized Nylon
- Compatible with JP-5 (MIL-DTL-5624) and JP-8 (MIL-DTL-83133)
- The operating temperature range for service at rated pressures is -40˚F (-40˚C) to 200˚F (93˚C)
- Working pressure 150 psi (10.3 bar) at 73°F (23°C)
- Working pressure and burst pressure are at 73°F (23°C)

Colors

PFT-FL	Blue
HTFL	Brown

HTFL Notes

- Material: Heat and light stabilized Nylon
- Compatible with JP-5 (MIL-DTL-5624) and JP-8 (MIL-DTL-83133)
- Compatible with Biodiesel per Parflex PPB PL-18 hard-line tubing
- The operating temperature range for service at rated pressures is -50˚F (-46˚C) to +266˚F (130˚C)
- Working pressure and burst pressure are at 73°F (23°C)
- Vacuum rating at 28 inch Hg

Fittings

- Parker Fittings available from:
  Fluid System Connectors Division
  Otsego, MI
- (269) 692-6555
  (269) 692-6634 FAX
  parker.com/fsc
- For approved fittings and/or suggested use of tube supports, reference Tube/Fitting Compatibility Chart (pg. B-8/B-9) or contact Parker Fluid Systems Connectors Division

Order Information
Example: PFT-6B-BLU-0500-FL

PFT-6B-BLU-0500-FL – Diesel Fuel Tubing*
PFT-6B-BLU-0500-FL – Tube O.D. in sixteenths of an inch (3/8")
PFT-6B-BLU-0500-FL – Tube Type Reinforced and Jacketed
PFT-6B-BLU-0500-FL – Color Blue
PFT-6B-BLU-0500-FL – Package Quantity in feet (500')
PFT-6B-BLU-0500-FL – *Designator for Diesel Fuel Tubing

Order Information
Example: HTFL-6B-BRN-500

HTFL-6B-BRN-500 – High Temperature Diesel Fuel Tubing
HTFL-6B-BRN-500 – Tube O.D. in sixteenths of an inch (3/8")
HTFL-6B-BRN-500 – Reinforced and Jacketed
HTFL-6B-BRN-500 – Color Brown
HTFL-6B-BRN-500 – Package Quantity in feet (500')

⚠ WARNING
This product can expose you to chemicals including Nickel compounds, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Diesel Fuel Tubing
Series PFT-FL, HTFL

Series PFT-FL - Diesel Fuel Tubing

Part Number	Nominal Tube O.D. inch	mm	Nominal Tube I.D. inch	mm	Nominal Wall I.D. inch	mm	Working Pressure 73°F(23°C) psi	bar	Minimum Burst Pressure psi	bar	Minimum Bend Radius inch	mm	Weight lbs./ft.	kg/mtr	Color
PFT-4A-XXX-1000-FL	1/4	6.4	.170	4.3	.040	1.0	150	10.3	1200	82.7	1	25.5	.012	.018	
PFT-6B-XXX-500-FL	3/8	9.5	.251	6.4	.062	1.6	150	10.3	1400	96.5	1-1/2	38.0	.027	.040	●
PFT-8B-XXX-500-FL	1/2	12.7	.376	9.6	.062	1.6	150	10.3	950	65.5	2	51.0	.039	.058	●
PFT-10B-XXX-250-FL	5/8	15.9	.441	11.2	.092	2.3	150	10.3	900	62.1	2-1/2	63.5	.070	.104	●

Note: If color not referenced, contact the division for availability

Series HTFL - High Temperature Diesel Fuel Tubing

Part Number	Nominal Tube O.D. inch	mm	Nominal Tube I.D. inch	mm	Nominal Wall Thickness inch	mm	Working Pressure 73°F(23°C) psi	bar	Minimum Burst Pressure inch	mm	Minimum Bend Radius inch	mm	Weight lbs./ft.	kg/mtr	Color
HTFL-6B-XXX-500	3/8	9.5	.251	6.4	.062	1.6	175	12.1	1,400	96.5	1-1/2	38.0	.028	.042	●
HTFL-8B-XXX-500	1/2	12.7	.376	9.6	.062	1.6	155	10.7	950	65.5	2	51.0	.039	.058	●
HTFL-10B-XXX-250	5/8	15.9	.441	11.2	.092	2.3	140	9.7	900	62.1	2-7/8	73.0	.071	.106	●



⚠ WARNING

This product can expose you to chemicals including Nickel compounds, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Updated August 6, 2025

Tractor-to-Trailer Coils
Series BrakCoil®

Tractor-to-trailer
coiled connections



Features

- Maintenance-free performance - will retract to its original shape even after long periods of extended use for years of city delivery and line haul testing
- Eliminates the need for pogo sticks and spring hangers
- Color coding gives you mistake-free hook-ups – blue for service, red for emergency

Compliance

- DOT FMVSS 49CFR 571.106 @ -70°F to 200°F

Colors

- Blue
- Red

Notes

- The operating temperature range for service is -40˚F (-40˚C) to 200˚F (93˚C)
- Working pressure 150 psi (10.3 bar) at 73°F (23°C)
- Working pressure and burst pressure are at 73°F (23°C)
- Available as individual coils or as a kit as noted in parts below

Construction

- Pre-assembled with:
  - Rust resistant heavy-duty plated spring guards
  - Rigid male NPT NTA brass fittings with pre-applied thread sealant

Series BrakCoil - Air Brake Connection

Kit Part No.	Individual Coil Part No.	Tube O.D.		Valve Tail Length		Brass Male Ends (NPT)		Working Length		Number of Coils
		inch	mm	inch	mm	Valve inch	Gladhand inch	ft	mtr	
731516	731512-RED 731512-BLU	1/2	12.7	12	305	1/2	1/2	15	4.6	21-1/2
731522	731513-RED 731513-BLU	1/2	12.7	40	1016	1/2	1/2	15	4.6	21-1/2

⚠ WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Tractor-to-Trailer Coils

Series Fifth Wheel Slider Coil

Self-adjusts from 10" to fully extended 74" working length.



Features

- Clutter-free hook-up and maintenance-free performance of adjustable length pneumatic tubing for fifth wheel sliding action
- Self-adjusts from 10" to fully extended 74" working length
- Universal, ready for immediate installation
- Coil set is strong and permanent - Even after prolonged use in fully extended position, coils will retract to shorter length without sagging and eliminating hazards of chafing and wear

Compliance

- SAE-J844 - Type A
- DOT FMVSS 49CFR 571.106

Colors

- Silver

Notes

- Constructed with 1/4" O.D. extruded Nylon, heat and light stabilized, single wall
- The operating temperature range for service at rated pressures is -40˚F (-40˚C) to 200˚F (93˚C)
- Working pressure 150 psi (10.3 bar) at 73°F (23°C)
- Working pressure and burst pressure are at 73°F (23°C)

Series Fifth Wheel Slider

Part Number	Fittings	Pigtail Length		Maximum Extended Length		Retracted Length	
		inch	mm	inch	mm	inch	mm
811537	(2) 68NTA-4-4	2	51	74	1880	10	254



Order Information

Fifth Wheel Slider Coil

Part# 811537 comes complete with fittings.

⚠ WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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Custom Transportation Tubing

Custom Harnesses, Bundles & Formed Products

Formed products reduce installation times by up to 40%.



Features

- Preformed, pre-bundled tubing or hose custom designed to reduce installation time .....improve throughput with little to no tubing or hose scrap
- Individual tubes are pre-cut and assembled into a single unit

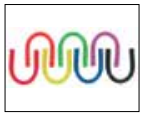
Options

- Color coding and/or numbering available for each tube
- Harnesses may contain any number of tube sizes ranging from 1/8" O.D. to 3/4" O.D.
- Harnesses can be supplied with special clamps, brackets and fittings to meet any need required by the customer
- Hoses - Contact Parflex Customer Service for custom formed hoses and hose assemblies



Cut Tubes

- Any tube offered by Parflex can be cut-to-length, with options for additional marking



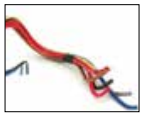
Formed Tubes

- Tubes can be formed into shapes for ease of installation



Jacketed Bundles

- Two or more tubes can be bundled together with an extruded thermoplastic jacket



Harnesses

- Combine multiple cut tubes into a harness built specifically for your application



Formed Hoses

- Most Parflex thermoplastic hoses can be formed into application specific shapes

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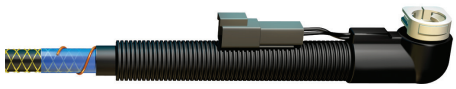
SCR Hose

Electrically Heated, On-vehicle DEF Dosing System Hose

Patented heated hose technology designed for heating and conveying DEF (Diesel Exhaust Fluid) throughout the SCR system on commercial vehicles.



Features

- Nylon and EPDM core tubes reinforced for strength and flexibility
- Helically-wrapped heating wires
- Extruded abrasion resistant jacket
- Heated fittings with protective overmolding
  -Protection against water ingression and damage of electrical components
  -Bolsters fitting strength and impact resistance
- Optional heat/abrasion shield
- 100% electrically tested, pressure tested, and cleaned before shipped
- Available in 12VDC, 24VDC, and unheated

Compliance

- IATF 16949
- ISO 14001
- IP6X, IPX8, and IPX9K

Notes

- Standard lengths available in 500 mm increments, ranging from 500 mm (0.5 m) O.A.L. through 6000 mm (6.0 m) in most configurations
- Temperature Range:
  EPDM Temperature Range: -40°F (-40°C) to 248°F (120°C)
  Nylon Temperature Range: -40°F (-40°C) to 248°F (120°C)



U.S. Patent No. 8,819,922

⚠ WARNING

This product can expose you to chemicals including Carbon-black extracts, which is known to the State of California to cause cancer, and Toluene, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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SCR Hose

Electrically Heated, On-vehicle DEF Dosing System Hose

Series SCR - DEF Transfer Hose

Core Tube Material	I.D.		O.D.		With Heat / Abrasion Shield (optional)		Maximum Operating Pressure		Vacuum Resistance		Bend Radius	
	mm	inch	mm	inch	mm	inch	psi	bar	inch/Hg	bar	mm	inch
EPDM	4.0	.157	14.5	.571	21.0	.827	174	12.0	14.8	500	30.0	1-3/16
	5.5	.217	14.5	.571	21.0	.827	174	12.0	14.8	500	40.0	1-9/16
Nylon	6.0	.236	14.0	.551	21.0	.827	150	10.3	8.9	300	40.0	1-9/16

U.S. Patent No. 8,819,922



Custom Options Available

SCR options include, but are not limited to:

- different electrical connectors, including options for heat and abrasion shield over lead wires;
- 1/4, 5/16, and 3/8 fittings; wide variety of lengths;
- 12V or 24V

Parflex also has designs for other sizes and core tubes for SCR hoses. These designs ensure that Parflex hoses can be utilized on SCR systems from multiple suppliers.

⚠ WARNING

This product can expose you to chemicals including Carbon-black extracts, which is known to the State of California to cause cancer, and Toluene, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Notes

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Fittings

Permanent/Crimp

Field Attachable

Updated August 6, 2025



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Fittings
Nomenclature

Legacy Fitting Nomenclature
Example: 10356-8-6

This example describes a permanent crimp 1/2" Male JIC 37° with a 3/8" I.D. hose size. This fitting is constructed of steel since the designated material is blank.



CG 56

Order Information
Example: 10356-8-6

10356-8-6 – **Fitting Type** (1 = Permanent/Crimp) (2 = Field Attachable Fitting)
10356-8-6 – **End Configuration Code - Male JIC 37°**
10356-8-6 – **Fitting Series - 56 Series**
10356-8-6 – **End Size (1/2")**
10356-8-6 – **Hose I.D. (3/8")**
10356-8-6C – **Alternate Material** (C=Stainless Steel)

Legacy Fitting Material Selection
- Blank = Steel (unless otherwise noted)
- C = Stainless Steel
- S = Steel (Used only with 91N-series PTFE fittings)

NOTE: Fitting part numbers that start with a "2" are field attachable fittings.

PAGE Fitting Nomenclature
Example: 08-16SAN-S

This example describes a permanent sanitary flange step down, 1/2" I.D. hose with a 1" sanitary flange. This fitting is constructed of stainless steel since the designated material is -S.

As demonstrated below, the nomenclature associated with the PAGE fitting is not consistent with the traditional Parker products, as the end size and hose I.D. are reversed and located at the front of the part construction.



Order Information
Example: 08-16SAN-S

08-16SAN-S – **Hose I.D. (1/2")**
08-16SAN-S – **End Size (1")**
08-16SAN-S – **End Configration Code - Sanitary Flange**
08-16SAN-S – **Alternate Material** (S =Stainless Steel)

PAGE Fitting Material Selection
- C = Steel
- S = Stainless Steel

NOTE: The PAGE fittings, which are designed for use with traditional PAGE fluoropolymer hoses only, are a two piece crimp connection and need to be combined with the corresponding crimp collars located on page E-48.

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Common Fitting Configurations
by Connection and End Code

	End Code	Description
Pipe	01	Male NPTF Pipe - Rigid - Straight
	13	Male NPTF Pipe - Swivel - Straight
	1L	Male NPTF Pipe - Swivel - 90° Elbow
	02	Female NPTF Pipe - Rigid - Straight
	07	Female NPSM Pipe - Swivel - Straight (60° Cone)
SAE Str. Thread	05	Male SAE Straight Thread with O-ring - Rigid - Straight
	0G	Male SAE Straight Thread with O-ring - Swivel - Straight
	0L	Male SAE Straight Thread with O-ring - Swivel - 90° Elbow
37° Flare	03	Male JIC 37° - Rigid - Straight
	LB	Male JIC 37° - Bulkhead without Locknut - Straight
	06	Female JIC 37° - Swivel - Straight
	37	Female JIC 37° - Swivel - 45° Elbow - Short Drop
	L7	Female JIC 37° - Swivel - 45° Elbow - Medium Drop
	39	Female JIC 37° - Swivel - 90° Elbow - Short Drop
	L9	Female JIC 37° - Swivel - 90° Elbow - Medium Drop
	41	Female JIC 37° - Swivel - 90° Elbow - Long Drop
45° Flare	04	Male SAE 45° - Rigid - Straight
	08	Female SAE 45° - Swivel - Straight
	77	Female SAE 45° - Swivel - 45° Elbow
	79	Female SAE 45° - Swivel - 90° Elbow
Inverted Flare	28	Male Inverted SAE 45° - Swivel - Straight
	67	Male Inverted SAE 45° - Swivel - 45° Elbow
	69	Male Inverted SAE 45° - Swivel - 90° Elbow
Seal-Lok	J0	Male Seal-Lok - Rigid - Straight (with O-ring)
	JB	Male Seal-Lok - Bulkhead without Locknut-Straight (with O-ring)
	JS	Female Seal-Lok - Swivel - Straight - Long
	JC	Female Seal-Lok - Swivel - Straight - Short
	J7	Female Seal-Lok - Swivel - 45° Elbow
	J9	Female Seal-Lok - Swivel - 90° Elbow - Short Drop
	J5	Female Seal-Lok - Swivel - 90° Elbow - Medium Drop
	J1	Female Seal-Lok - Swivel - 90° Elbow - Long Drop
JIS	MU	Female Metric Swivel - Straight (30° Flare)
	FU	Female BSP Parallel Pipe - Swivel - Straight (30° Flare)
	UT	Male BSP Taper Pipe - Rigid - Straight (60° Cone)
	GU	Female BSP Parallel Pipe - Swivel - Straight (60° Cone)
	G1	Female BSP Parallel Pipe - Swivel - 45° Elbow (60° Cone)

Description	End Code	
Female Metric L - Swivel - Straight (Ball Nose)	C3	Metric
Female Metric L - Swivel - 45° Elbow (Ball Nose)	C4	
Female Metric L - Swivel - 90° Elbow (Ball Nose)	C5	
Female Metric L - Swivel - Straight (24° Cone with O-ring)	CA	
Female Metric L - Swivel - 45° Elbow (24° Cone with O-ring)	CE	
Female Metric L - Swivel - 90° Elbow (24° Cone with O-ring)	CF	
Male Metric L - Rigid - Straight (24° Cone)	D0	
Male Metric S - Rigid - Straight (24° Cone)	D2	
Male Standpipe Metric L - Rigid - Straight	1D	
Male Standpipe Metric S - Rigid - Straight	3D	
Female Metric S - Swivel - Straight (Ball Nose)	C6	
Female Metric S - Swivel - 45° Elbow (Ball Nose)	C7	
Female Metric S - Swivel - 90° Elbow (Ball Nose)	C8	
Female Metric S - Swivel - Straight (24° Cone with O-ring)	C9	
Female Metric S - Swivel - 45° Elbow (24° Cone with O-ring)	0C	
Female Metric S - Swivel - 90° Elbow (24° Cone with O-ring)	1C	
Male BSP Taper Pipe - Rigid - Straight	91	BSP
Female BSP Parallel Pipe - Swivel - Straight (60° Cone)	92	
Male BSP Parallel Pipe - Rigid - Straight (60° Cone)	D9	
Female BSP Parallel Pipe - Swivel - 45° Elbow (60° Cone)	B1	
Female BSP Parallel Pipe - Swivel - 90° Elbow (60° Cone)	B2	
Male Ferulok Flareless Rigid-Straight (24° Cone with Nut & Ferrule)	11	Specialty
Female Ferulok Flareless - Swivel - Straight (24° Cone)	12	
DIN Metric Banjo - Straight	49	
ANSI B16.5 Flange	4K	
Female A-Lok® Compression	AL	
Female Cam & Groove	FC	
Sanitary Flange & Step Downs	FN	
Mini Sanitary Flange	FV	
Bulkhead w/Zerk Port Integrated	GK	
Male Standpipe - Rigid - Straight (Inch Size Tube O.D.)	34	
Male Standpipe - Rigid - Straight with V-Notch	TW	
Universal Tube Stub	TU	
Male Rapid Assembly, Straight	WU	
Male Rapid Assembly, 45° Elbow	WW	
Male Rapid Assembly, 90° Elbow	WY	

NOTE: Please contact the Parflex Division for additional fitting configurations.

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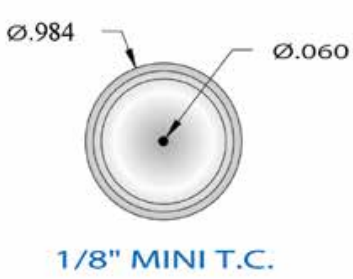
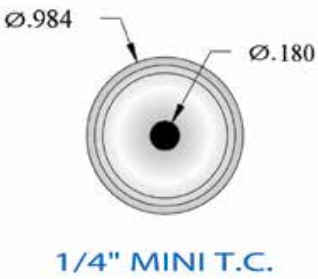
Sanitary Sizing (PAGE Series)

Typical Dimensions

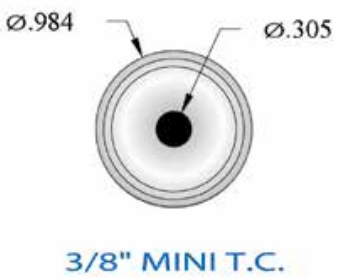
These actual size drawings are provided to eliminate sizing errors when specifying sanitary fittings. The outside diameter is the same for 1/8", 1/4", 3/8", 1/2" and the 3/4" (mini) styles. For your convenience and ordering accuracy, all of these drawings may be used as sizing I.D. and O.D. patterns. These fittings are ASME-BPE compliant.



1/8" MINI T.C.



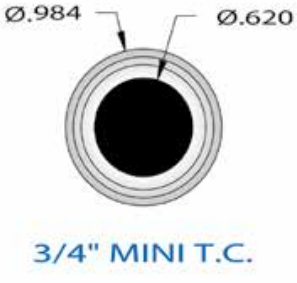
1/4" MINI T.C.



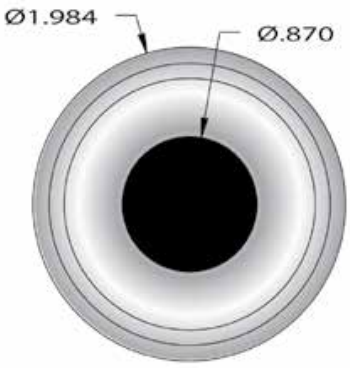
3/8" MINI T.C.



1/2" MINI T.C.



3/4" MINI T.C.



1" T.C.

(Cont.)

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Sanitary Sizing (PAGE Series)

Typical Dimensions

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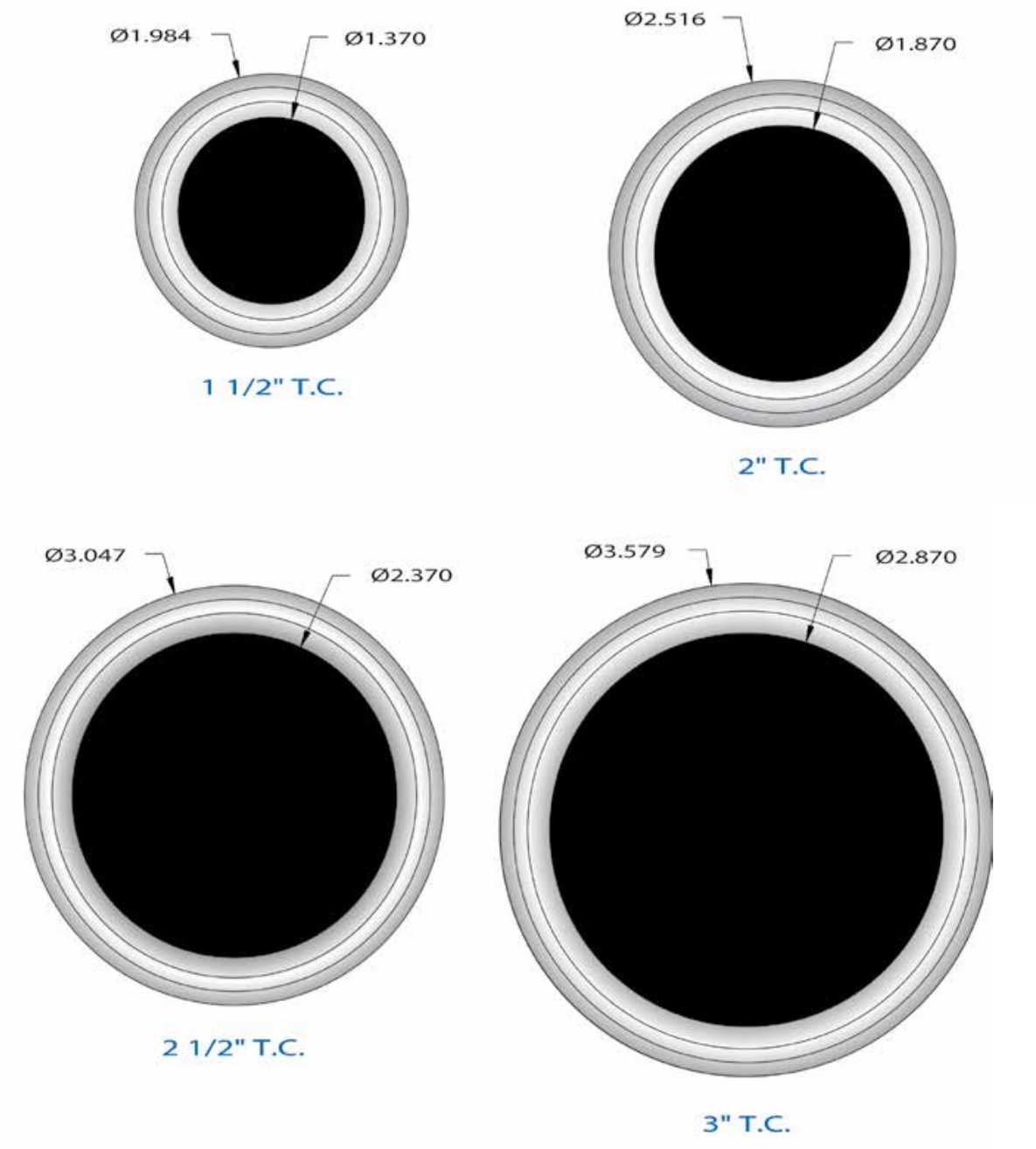

Pressure Rating of Fitting End Connections

Inch Fittings

Fitting End Connection Description	Part Number Codes	Inch Fittings													
		-2	-4	-5	-6	-8	-10	-12	-16	-20	-24	-32	-40	-48	-64
		psi (MPa)	psi (MPa)	psi (MPa)	psi (MPa)	psi (MPa)	psi (MPa)	psi (MPa)	psi (MPa)	psi (MPa)	psi (MPa)	psi (MPa)	psi (MPa)	psi (MPa)	psi (MPa)
Male Pipe (NPTF)	01 & MP	12,000 (82.7)	12,000 (82.7)		10,000 (68.9)	10,000 (68.9)		7,500 (51.7)	6,500 (44.8)	5,000 (34.5)	3,000 (20.7)	2,500 (17.2)	200 (1.4)	175 (1.2)	150 (1.0)
Female Pipe (NPTF, NPSM)	02,07 & FP	7,500 (51.7)	7,000 (48.3)		6,000 (41.4)	5,000 (34.5)		4,000 (27.6)	3,000 (20.7)	2,500 (17.2)	2,000 13.8)	2,000 13.8)			
Male Pipe (BSP)	91 & D9	5,000 (34.5)	9,000 (62.1)		8,000 (55.2)	6,250 43.1)		5,000 (34.5)	4,000 (27.6)	3,500 (24.1)	3,000 (20.7)	3,000 (20.7)			
Female Pipe (BSP)	92, B1, B2 & B4	5,000 (34.5)	9,000 (62.1)		8,000 (55.2)	6,250 43.1)	5,500 (37.9)	5,000 (34.5)	4,000 (27.6)	3,500 (24.1)	3,000 (20.7)	3,000 (20.7)			
Female Pipe (JIS)	FU, GU, MU & UT		5,000 (34.5)		5,000 (34.5)	5,000 (34.5)		4,000 (27.6)	3,000 (20.7)	2,500 (17.2)	1,500 (10.3)	1,500 (10.3)			
O-Ring Swivel and 45° Flare	04, 13, 1L, S2, 0G, 0L, 48, 08, 77 & 79		3,000 (20.7)	3,000 (20.7)	3,000 (20.7)	3,000 (20.7)	2,750 (19.0)	2,250 (15.5)	2,000 13.8)	1,625 (11.2)	1,250 (8.6)	1,125 (7.8)			
37° Flare & Straight* (2) Thread O-Ring Boss	03, 05, 06, FJX, 37, 39, 41, L7 & L9		6,000 (41.4)	6,000 (41.4)	5,000 (34.5)	5,000 (34.5)	5,000 (34.5)	5,000 (34.5)	4,000 (27.6)	3,000 (20.7)	2,500 (17.2)	2,500 (17.2)	200 (1.4)		
Cam & Groove	E, CL								250 (1.7)	250 (1.7)	250 (1.7)	250 (1.7)		175 (1.2)	150 (1.0)
SAE Flareless	11 & 12		6,000 (41.4)	6,000 (41.4)	5,600 (38.6)	5,600 (38.6)	4,200 (29.0)	4,200 (29.0)	3,500 (24.1)	3,500 (24.1)	3,000 (20.7)	3,000 (20.7)		3,000 (20.7)	3,000 (20.7)
SAE Inverted Flare	28, 67 & 69		2,750 (19.0)	2,500 (17.2)	2,250 (15.5)	2,000 13.8)									
Seal-Lok® (O-Ring Face Seal)	JM, JC, JS, FORFS, J0, J1, J5, J7 & J9		6,000 (41.4)		6,000 (41.4)	6,000 (41.4)	6,000 (41.4)	6,000 (41.4)	6,000 (41.4)	4,000 (27.6)	4,000 (27.6)		4,000 (27.6)	4,000 (27.6)	
A-Lok®	TU, AL, PLCF & TUBE		6,000 (41.4)	6,000 (41.4)	5,600 (38.6)	5,600 (38.6)	4,200 (29.0)	4,200 (29.0)	3,500 (24.1)	3,500 (24.1)	3,000 (20.7)	3,000 (20.7)	3,500 (24.1)	3,000 (20.7)	3,000 (20.7)
Rapid Assembly* (1)	WU, WY, WW		3,000 (20.7)		3,000 (20.7)										
Sanitary Bevel Seat	FBS, MBS							400 (2.8)	400 (2.8)	400 (2.8)	400 (2.8)	400 (2.8)	200 (1.4)	175 (1.2)	150 (1.0)
ANSI B16.5 150# Flange (to 100°F)	PF, SFR					285 (2.0)		285 (2.0)	285 (2.0)	285 (2.0)	285 (2.0)	285 (2.0)	200 (1.4)	175 (1.2)	150 (1.0)
I-Line® Sanitary	FIL, MIL, MSAN, SAN	Consult Manufacturer of Seals and Clamps for Ratings													
Grease Zerk	NA-6520 (GK)	Meets SAE J534:2015 requirements with 5,000 psi (34.5 MPa) blowout protection.													

*(1) Rapid Assembly connection has a temperature range of -40°F (-40°C) to 212°F (100°C)
*(2) .When used with 527BA hose only, Parflex -4 JIC and -4 O-ring boss fittings are rated for 7000 psi (48.3 MPa) working pressure

NOTES:

- All the above ratings are based on steel and stainless steel hose Parflex fittings.
- Parflex 106CG-16-16 / 106CG-16-16C is rated for 5000 psi (34.5 Mpa) working pressure.
- Fitting connections such as I-Line®, ANSI B16.5 Flange, Sanitary Bevel Seat, Cam and Groove, Seal-Lok® require elastomeric seals to function properly. When specifying or replacing seals, ensure the selected seal type meets the performance requirements of the application, including temperature, pressure, chemical compatibility and permeability.
- The maximum working pressure of a tube or hose assembly is the lower of the respective published maximum working pressures of the hose, tube and the fittings used.
- The maximum working pressures of hoses are listed on Page A-10 : A-17 with each hose description in Section A.

Updated August 6, 2025

Pressure Rating of Fitting End Connections
Metric Fittings

Fitting End Connection Description	Part Number Codes	Metric Fittings															
		-6	-8	-10	-12	-14	-15	-16	-18	-20	-22	-25	-28	-30	-35	-38	-42
		psi (MPa)	psi (MPa)	psi (MPa)	psi (MPa)	psi (MPa)	psi (MPa)	psi (MPa)	psi (MPa)	psi (MPa)	psi (MPa)	psi (MPa)	psi (MPa)	psi (MPa)	psi (MPa)	psi (MPa)	psi (MPa)
DIN Light "L" without O-Ring	C3, C4, C5 & 1D	3,500 (24.1)	3,500 (24.1)	3,500 (24.1)	3,500 (24.1)		3,500 (24.1)		2,250 (15.5)		2,250 (15.5)		1,400 (9.7)		1,400 (9.7)		1,400 (9.7)
DIN Light "L" with O-Ring	D0, CA, CE & CF	4,500 (31.0)	4,500 (31.0)	4,500 (31.0)	4,500 (31.0)		4,500 (31.0)		2,250 (15.5)		2,250 (15.5)		2,250 (15.5)		2,250 (15.5)		2,250 (15.5)
DIN Heavy "S" without O-Ring	C6, C7, C8 & 3D		9,000 (62.1)	9,000 (62.1)	9,000 (62.1)	9,000 (62.1)		5,750 (39.6)		5,750 (39.6)		5,750 (39.6)		3,500 (24.1)		3,500 (24.1)	
DIN Heavy "S" with O-Ring	C9, 0C, 1C & D2		9,000 (62.1)	9,000 62.1)	9,000 62.1)	9,000 62.1)		6,000 (41.4)		6,000 (41.4)		6,000 (41.4)		6,000 (41.4)		4,500 (31.0)	

NOTES:

- All the above ratings are based on steel and stainless steel hose Parflex fittings.
- Parflex 106CG-16-16 / 106CG-16-16C is rated for 5000 psi (34.5 Mpa) working pressure.
- Fitting connections such as I-Line®, ANSI B16.5 Flange, Sanitary Bevel Seat, Cam and Groove, Seal-Lok® require elastomeric seals to function properly. When specifying or replacing seals, ensure the selected seal type meets the performance requirements of the application, including temperature, pressure, chemical compatibility and permeability.
- The maximum working pressure of a tube or hose assembly is the lower of the respective published maximum working pressures of the hose, tube and the fittings used.
- The maximum working pressures of hoses are listed on Page A-10 : A-17 with each hose description in Section A.

Hose Fitting Insertion Values

Inch & Metric

Inch

Hose Dash Size	51	51R	54	56	CG	90	91/91N	92	93N	BU	CY	MS Field Attachable	MS Permanent
-2				5/8						1/2	1/2		
-3	13/16	1-7/16	5/8	5/8	29/32		7/16	9/16		13/16	13/16		
-4	15/16	1-1/2	3/4	15/16	1-3/16	7/16	1/2						
-5	15/16		7/8	1		9/16	9/16					11/16	11/16
-6	1-5/16	1-5/8	15/16	1	1-5/16	9/16	5/8		7/16			15/16	3/4
-8	1-19/32	1-3/4	15/16	1-1/8	1-9/16	5/8	11/16		7/16				
-10				1-1/8		11/16	11/16		3/4				
-12	1-13/16			1-3/8	2-3/16	11/16	3/4		7/8				
-16	1-9/16			1-7/8	2-3/4	11/16	15/16		15/16				
-20						11/16	1		1				
-24									1-1/8				
-24									1-3/8				

Metric

Hose Dash Size	51	51R	54	56	CG	90	91/91N	92	93N	BU	CY	MS Field Attachable	MS Permanent
-2				16						13	13		
-3	21	36	16	16	23		11	14		21	21		
-4	24	38	19	24	30	11	13						
-5	24		22	25		14	14					17	17
-6	33	41	24	25	33	14	16		11			24	19
-8	40	44	24	29	40	16	17		11				
-10				29		17	17		19				
-12	46			35	56	17	19		22				
-16	40			48	70	17	24		24				
-20						17	25		25				
-24									29				
-32									35				

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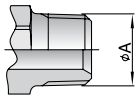
Identifying Fitting Types
Sealing and Thread Identification

In general fittings can be identified by their visual appearance, their sealing surface/sealing type or by their thread type/form. Viewing the following pages, the visual identification will be self explanatory. The sealing mechanism and the method of thread identification, however, needs further explanation.

Determining Sealing Mechanisms
Thread interface
O-ring
Matching angle or metal-to-metal joint
Mated angle with O-ring

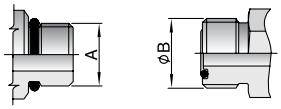
Thread Interface

The sealing is assured by the flattening of the edges of the threads when the male is screwed into the female fitting. Typically the front of the male fittings is narrower than the back of the fittings – often referred to as tapered threads.



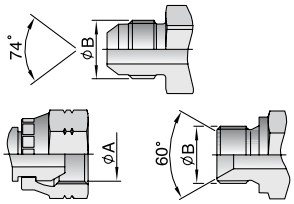
O-ring

The O-ring on the male is compressed against the corresponding female and assures the seal. This type of sealing mechanism should be the preferred choice for high-pressure applications.



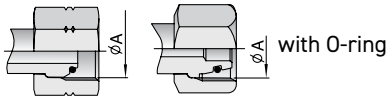
Matching Angle or Metal-to-Metal Joint

Sealing takes place where the two angled faces of the male and corresponding female meet and are wedged into one another by the tightening of the threaded nut. The sealing surfaces can either be convex or concave (seat) on the male or in the head of the pipe of the female as shown.



Matching Angle with O-ring

These fittings combine the functionality of both the matching angle seal with the O-ring. The O-ring is in the angled sealing surface of the fitting so that when the threaded male and female are screwed together the sealing surfaces wedge together and at the same time deform the O-ring between them.



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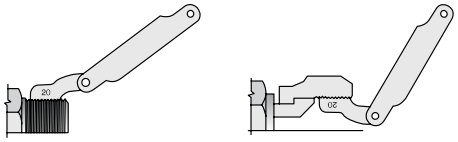
Determining Thread Type

Identifying Type

In general, the threads of various fittings look similar and hinder the easy identification of the thread. To assure the correct identification, the threads must be measured and compared to the tables listed in the following section.

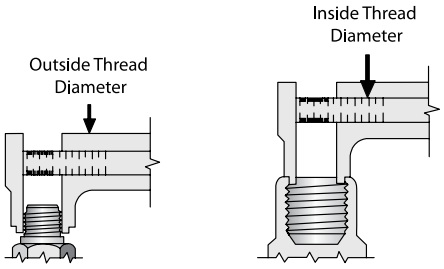
Thread Gauge

Using a thread gauge, the number of threads per inch can be determined. Holding the gauge and coupling threads in front of a lighted background helps to obtain an accurate measurement.



Caliper Measure

A vernier caliper should be used to measure the thread diameter of the largest point. (Outside diameter (O.D.) of male threads Inside Diameter (I.D.) of female threads.)



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German DIN Hose Fittings
Metric Fittings

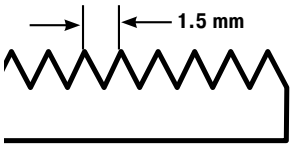
Often referred to as metric fittings, these fittings seal using the angled sealing surfaces (metal-to-metal) or the combination of metal-to-metal with O-rings.

They are available in light (L) or heavy series (S).

The sealing face angles are either 24° with or without O-rings, or 24°/60° universal cones.

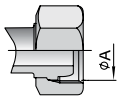
Identification is made by measuring the thread size and also the tube outside diameter.

Defined by the outside diameter and the pitch (distance between 2 crests of the thread)
example: M22x1.5 - pitch of 1.5mm.



DIN Light (L) and Heavy Series (S) without O-ring

The male 24° cone will mate with the female universal 24° or 60° cone only. The male has a 60° sealing angle (seat) and straight metric threads. The female has a 24° and 60° universal seat and straight metric threads.



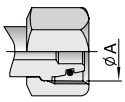
without O-ring

Standard
DIN 20078 Part 2[1)]
(previously known as DIN 20078 A, D & E)

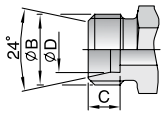
Parker end configurations light series
C3, C4, C5, C6
(Often referred to as "Ball nose cones")

1) obsolete standard, no exact replacement

DIN 24° Light (L) and Heavy Series (S) with O-ring



with O-ring



without O-ring

The male has a 24° sealing angle cone seat with straight metric threads.

The female has a 24° convex cone with O-ring and a swivel straight metric threaded nut.

Standard
ISO 12151-2 / ISO 8434-1 & ISO 8434-4
(Previously DIN 20 078 Part 4, 5, 8, 9)

Parker end configurations light series
CA, CE, CF, D0

Parker end configurations heavy series
C9, 0C, 1C, D2

Tube O.D. DN	Spec	Thread metric	ØA mm	ØB mm	C mm	ØD mm
6.00	6L	M12X1.5	10.50	12.00	7.00	6.20
6.00	6S	M14X1.5	12.50	14.00	7.00	6.20
8.00	8L	M14x1.5	12.50	14.00	7.00	8.20
8.00	8S	M16x1.5	14.50	16.00	7.00	8.20
10.00	10L	M16x1.5	14.50	16.00	7.00	10.20
10.00	10S	M18x1.5	16.50	18.00	7.50	10.20
12.00	12L	M18x1.5	16.50	18.00	7.00	12.20
12.00	12S	M20x1.5	18.50	20.00	7.50	12.20
14.00	14S	M22x1.5	20.50	22.00	8.00	14.20
15.00	15L	M22x1.5	20.50	22.00	7.00	15.20
16.00	16S	M24x1.5	22.50	24.00	8.50	16.20
18.00	18L	M26x1.5	24.50	26.00	7.50	18.20
20.00	20S	M30x2	27.90	30.00	10.50	20.20
22.00	22L	M30x2	27.90	30.00	7.50	22.20
25.00	25S	M36x2	33.90	36.00	12.00	25.20
28.00	28L	M36x2	33.90	36.00	7.50	28.20
30.00	30S	M42x2	39.90	42.00	13.50	30.20
35.00	35L	M45x2	42.90	45.00	10.50	35.30
38.00	38S	M52x2	49.90	52.00	16.00	38.30
42.00	42L	M52x2	49.90	52.00	11.00	42.30

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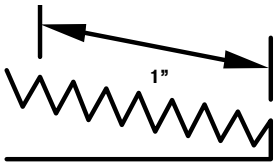
British Standard Pipe
BSP

Also referred to as Whitworth threads, the BSP thread type fittings seal use metal-to-metal angled surfaces or a combination of metal-to-metal and an O-ring. The angle of the sealing surfaces is 60° for both forms.

There are two popular thread forms:

British Standard Pipe Parallel (BSPP) and British Standard Pipe Tapered (BSPT).

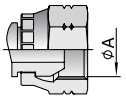
Identification is made by measuring the outside diameter of the thread and the number of threads per inch (25.4 mm)



BSPP

BS5200

Parker end configurations
92, B1, B2, B4, D9

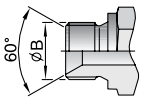


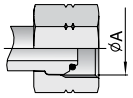
BSPP

metal-to-metal with O-ring

Standard
ISO 12151-6

Some Parker end configurations may be non-standard parts.





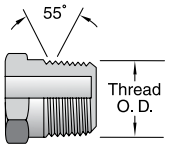
Tube I.D/O.D. inch	Size	Thread BSP	ØB mm	ØA mm
5/10	-2	1/8x28	8.60	9.70
8/13	-4	1/4x19	11.50	13.20
12/17	-6	3/8x19	14.90	16.70
15/21	-8	1/2x14	18.60	20.90
18/23	-10	5/8x14	20.60	22.90
20/27	-12	3/4x14	24.10	26.40
26/34	-16	1x11	30.30	33.20
33/42	-20	1-1/4x11	38.90	41.90
40/49	-24	1-1/2x11	44.90	47.80
50/60	-32	2x11	56.70	59.60

BSPT

BS5200

Fittings seal through the thread interface mechanism. Care should be taken not to confuse the BSPT fitting with the NPTF male fitting. BSPT has a 55° thread angle.

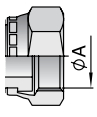
NPTF has 60° thread angle.
Parker end configurations
91



Tube I.D/O.D. inch	Size	Thread BSP	ØA mm
5/10	-2	1/8x28	9.73
8/13	-4	1/4x19	13.16
12/17	-6	3/8x19	16.66
15/21	-8	1/2x14	20.96
20/27	-12	3/4x14	26.44
26/34	-16	1x11	33.25
33/42	-20	1-1/4x11	41.91
40/49	-24	1-1/2x11	47.80
50/60	-32	2x11	59.61

BSP Flat Seal

These fittings have BSP parallel threads but the sealing surface is flat. The seal is made when the composite seal is compressed against the female flat face. Some Parker end configurations may be non-standard parts.



Tube I.D/O.D. inch	Size	Thread BSP	ØA mm
6/10	-2	1/8x28	8.6
8/13	-4	1/4x19	11.5
12/17	-6	3/8x19	14.9
15/21	-8	1/2x14	18.6
18/23	-10	5/8x14	20.6
20/27	-12	3/4x14	24.1
26/34	-16	1x11	30.3

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North American Thread Types
NPTF

This type of fitting uses the thread interface to seal and as such has a tapered thread that deforms and forms the seal. They have 30° sealing angle surfaces, forming a 60° inverted (concave) seat. The fittings are most frequently seen on machines of US origin.

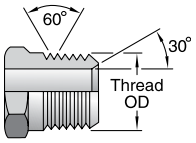
Dryseal American Standard Taper Pipe Thread (NPTF)

The NPTF male will mate with the NPTF, NPSF, or NPSM females.

Care should be taken not to confuse the NPTF fitting with the BSPT male fitting. NPTF fittings have a 60° thread angle. BSPT has a 55° thread angle.

Standard

SAE J516
Parker end configurations 01



ØA dimension is measured on the pitch of the thread

Size	Thread NPTF	ØA mm	ØB mm
-2	1/8x27	10.24	8.73
-4	1/4x18	13.61	11.90
-6	3/8x18	17.05	15.90
-8	1/2x14	21.22	19.05
-12	3/4x14	26.56	24.60
-16	1x11.5	33.22	30.95
-20	1-1/4x11.5	41.98	39.69
-24	1-1/2x11.5	48.05	45.24
-32	2x11.5	60.09	57.15

SAE JIC 37°

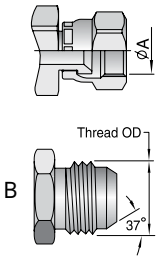
Commonly referred to as JIC fittings, these metal-to-metal sealing type fittings have a 37° flare (sealing surface angle) and straight United National Fine Threads (UNF).

The original design specification for the fittings comes from the Society of Automotive Engineers (SAE) and these fittings are the most common American fitting types in Europe.

Standard
ISO 12151-5, ISO8434-2 and SAE J516

Parker JIC hose fittings are fully compatible with Parker Triple-Lok Tube Fittings and adapters.

Parker end configurations
03, 06, 37, 39, 41, L9



Tube I.D inch	Tube O.D. mm	Thread UNF	Size	ØA mm	ØB mm
3/16		3/8x24	-3	8.60	9.50
1/4	6	7/16x20	-4	10.00	11.10
5/16	8	1/2x20	-5	11.60	12.70
3/8	10	9/16x18	-6	13.00	14.30
1/2	12	3/4x16	-8	17.60	19.10
5/8	14-15-16	7/8x14	-10	20.50	22.20
3/4	18-20	1-1/16x12	-12	24.60	27.00
7/8	22	1-3/16x12	-14	28.30	30.10
1	25	1-5/16x12	-16	31.30	33.30
1-1/4	30-32	1-5/8x12	-20	39.20	41.30
1-1/2	38	1-7/8x12	-24	45.60	47.60
2		2-1/2x12	x32	61.50	63.50

(Cont.)

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North American Thread Types

SAE 45° Flare

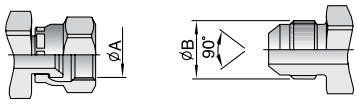
The angle of the flare is commonly used as a name when referring to these metal-to-metal sealing fittings.

The female fittings have a 90° concave inverted seat, created by the 45° angle sealing surfaces.

The SAE 45° flare male will mate with an SAE 45° flare female only or a dual seat JIC 37°/SAE45°.

Standard
SAE J516

Parker end configurations
04, 08, 77, 79, 81

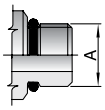


Tube I.D inch	Size	Thread UNF	Size	ØA mm	ØB mm
1/4	x4	7/16x20	9.90	11.10	9.50
5/16	-5	1/2x20	11.50	12.70	11.10
3/8	-6	5/8x18	14.30	15.90	12.70
1/2	-8	3/4x16	17.50	19.10	14.30
5/8	-10	7/8x14	20.60	22.20	19.10
3/4	-12	1-1/16x14	25.00	27.00	22.20

SAE O-ring (Boss Type)

This male fitting has straight threads, a sealing face and an O-ring. It is compatible only with female boss type fittings generally found in the ports of machines. Sealing is achieved through the O-ring of the male and through the sealing face of the female.

Parker end configurations
05



Thread UNF	Size	ØA mm
5/16x24	-2	7.93
3/8x24	-3	9.52
7/16x20	-4	11.11
1/2x20	-5	12.70
9/16x18	-6	14.28
3/4x16	-8	19.10
7/8x14	-10	22.22

Thread UNF	Size	ØA mm
1-1/16x12	-12	27.00
1-3/16x12	-14	30.10
1-5/16x12	-16	33.30
1-5/8x12	-20	41.30
1-7/8x12	-24	47.60
2-1/2x12	-32	63.50

O-ring Face Seal (ORFS)

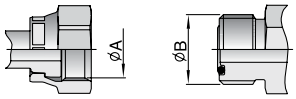
ORFS fittings are becoming the most popular international fitting type used on global OEM machines due to their high level of sealing and their good vibration resistance. The fittings use the O-ring compression mechanism to seal.

The female fittings have flat faces and straight threaded UNF swivel nuts. The male fittings have the O-ring in a groove in the flat face.

Seen as a major advantage, these fittings offer the possibility to build the hose assemblies into fixed distances/spaces, without having to move back other system components due the flat faces of the male and female fittings – the hose assembly can be slotted in.

Standard
ISO 12151-1, ISO8434-3 and SAE J516

Parker end configurations
JC, JM/J0, JS, JU, J1, J3, J5, J7, J9



Tube I.D inch	Tube O.D. mm	Thread UNF	Size	ØA mm	ØB mm
1/4	6	9/16x18	-4	13.00	14.20
3/8	10	11/16x16	-6	15.90	17.50
1/2	12	13/16x16	-8	19.10	20.60
5/8	16	1x14	-10	23.80	25.40
3/4	20	1-3/16x12	-12	28.20	30.10
1	25	1-7/16x12	-16	34.15	36.50
1-1/4	32	1-11/16x12	-20	40.50	42.90
1-1/2	38	2x12	-24	48.80	50.80

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Japanese Fittings
JIS

The Japanese Industrial Standard (JIS) is seen on most Japanese equipment and uses a 30° sealing angle seat and either British Standard Pipe Parallel or metric threads. Care must be taken not to confuse the JIS fittings with BSP or JIC fittings.

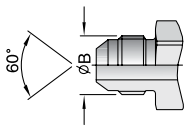
Japanese Fittings - JIS

The sealing mechanism of the fittings is the 30° metal-to-metal angled surfaces.

Parker end configurations
MU, XU (Metric), FU (BSP)

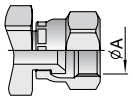
JIS 30° Metric

Symbol	Thread metric	ØA mm	ØB mm
MU-6	M14x1.5	12.50	14.00
MU-9	M18x1.5	16.50	18.00
MU-12	M22x1.5	20.50	22.00
MU-15	M27x2	25.00	27.00
MU-19	M27x2	25.00	27.00
MU-25	M33x2	31.00	33.00
MU-32	M42x2	40.00	42.00
MU-38	M50x2	48.00	50.00
MU-50	M60x2	58.00	60.00



JIS 30° BSP

Symbol	Thread BSP	ØA mm	ØB mm
GUI-3	1/8x28	8.60	9.70
GUI-5/-6	1/4x19	11.50	13.20
GUI-8/-9	3/8x19	14.90	16.70
GUI-12	1/2x14	18.60	20.90
GUI-15/-19	3/4x14	24.10	26.40
GUI-25	1x11	30.30	33.20
GUI-32	1-1/4x11	38.90	41.90
GUI-38	1-1/2x11	44.90	47.80
GUI-50	2x11	56.70	59.60



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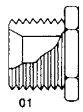
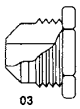
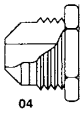
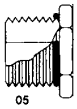
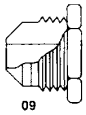
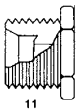
Fitting Thread Guide For Hose

Thread Size - Inch

There are more than one hundred types of threads for fittings. Below are some of the most common thread styles offered by Parflex.
The end code in a fitting part number is located directly after the first digit. i.e. 1C356-10-6

End Code ▶	 01	 03	 04	 05	 28, 67, 69	 09	 11	 JM
Dash Size	**NPTF Pipe Thread Size**	**SAE (JIC) 37° Flare Thread Size**	**SAE 45° Flare Thread Size**	**"O" Ring Style Straight Thread Size**	**SAE Inverted Flare Thread Size**	**PTT 30° Flare Thread Size**	**SAE Flareless Thread Size**	**Seal-Lok™ Thread**
2	1/8 - 27	5/16 - 24	5/16 - 24	5/16 - 24	-	-	5/16 - 24	-
3	-	3/8 - 24	3/8 - 24	3/8 - 24	3/8 - 24	-	3/8 - 24	-
4	1/4 - 18	7/16 - 20	7/16 - 20	7/16 - 20	7/16 - 18	-	7/16 - 20	9/16 - 18
5	-	1/2 - 20	1/2 - 20	1/2 - 20	1/2 - 20	-	1/2 - 20	-
6	3/8 - 18	9/16 - 18	5/8 - 18	9/16 - 18	5/8 - 18	-	9/16 - 18	11/16 - 16
8	1/2 - 14	3/4 - 16	3/4 - 16	3/4 - 16	3/4 - 18	-	3/4 - 16	13/16 - 16
10	-	7/8 - 14	7/8 - 14	7/8 - 14	7/8 - 18	-	7/8 - 14	1 - 14
12	3/4 - 14	1 1/16 - 12	1 1/16 - 14	1 1/16 - 12	1 1/16 - 16	-	1 1/16 - 12	1 3/16 - 12
14	-	1 3/16 - 12	-	1 3/16 - 12	-	-	1 3/16 - 12	-
16	1 - 11 1/2	1 5/16 - 12	-	1 5/16 - 12	-	1 5/16 - 14	1 5/16 - 12	1 7/16 - 12
20	1 1/4 - 11 1/2	1 5/8 - 12	-	1 5/8 - 12	-	1 5/8 - 14	1 5/8 - 12	-
24	1 1/2 - 11 1/2	1 7/8 - 12	-	1 7/8 - 12	-	1 7/8 - 14	1 7/8 - 12	-
32	2 - 11 1/2	2 1/2 - 12	-	2 1/2 - 12	-	2 1/2 - 12	2 1/2 - 12	-

(Cont.)

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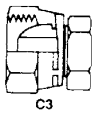
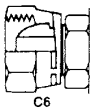
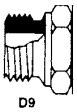
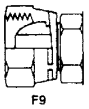
Fitting Thread Guide For Hose

Thread Size - Metric

There are more than one hundred types of threads for fittings. Below are some of the most common thread styles offered by Parflex.
The end code in a fitting part number is located directly after the first digit. i.e. 1C356-10-6

End Code ▶	 C3	 C6	 D0	 D2	 D9	 92	 92	 F9	 FG
Dash Size	**Metric Swivel Female Thread Size**	**Metric Swivel Female Thread Size**	**Male Stud Thread Size**	**Male Stud Thread Size**	**Male BSPP Thread Size**	**BSP Swivel Female Thread Size**	**French Swivel Female Gas Series**	**French Swivel Female Metric Series**	**French Male Stud Gas Series**
4	-	-	-	-	1/4"	1/4"	-	-	-
6	M12 x 1,5	-	M12 x 1,5	-	3/8"	3/8"	-	M12 x 1	-
8	M14 x 1,5	M16 x 1,5	M14 x 1,5	M16 x 1,5	1/2"	1/2"	-	M14 x 1,5	-
10	M16 x 1,5	M18 x 1,5	M16 x 1,5	M18 x 1,5	-	5/8"	-	M16 x 1,5	-
12	M18 x 1,5	M20 x 1,5	M18 x 1,5	M20 x 1,5	3/4"	3/4"	-	M18 x 1,5	-
-	-	-	-	-	-	-	M20 x 1,5	-	M20 x 1,5
14	-	M22 x 1,5	-	M22 x 1,5	-	-	-	M20 x 1,5	-
15	M22 x 1,5	-	M22 x 1,5	-	-	-	-	M22 x 1,5	-
16	-	M24 x 1,5	-	M24 x 1,5	1"	1"	-	M24 x 1,5	-
-	-	-	-	-	-	-	M24 x 1,5	-	M24 x 1,5
18	M26 x 1,5	-	M26 x 1,5	-	-	-	-	M27 x 1,5	-
20	-	M30 x 2	-	M30 x 2	-	-	-	M27 x 1,5	-
-	-	-	-	-	-	-	M30 x 1,5	-	M30 x 1,5
22	M30 x 2	-	M30 x 2	-	-	-	-	M30 x 1,5	-
25	-	M36 x 2	-	M36 x 2	-	-	-	M33 x 1,5	-
-	-	-	-	-	-	-	M36 x 1,5	-	M36 x 1,5
28	M36 x 2	-	M36 x 2	-	-	-	-	-	-
30	-	M42 x 2	-	M42 x 2	-	-	-	M39 x 1,5	-
33	-	-	-	-	-	-	M45 x 1,5	-	M45 x 1,5

Media to Fitting Compatibility

Media	Fitting Material		
	Brass	Steel	316 SS
Acetylene	NR	F	S
Air (oil free) @ 190° F	S	F	S
Air (oil free) @ 300° F	S	F	S
Air (oil free) @ 400° F	S	F	S
Alcohol, Ethyl	S	NR	NR
Animal Oils (Lard Oil)	F	F	F
Aromatic Fuel - 50%	ID	ID	ID
Aromatic Solvents	ID	ID	F
Asphalt	NR	NR	S
ASTM Oil #1	S	S	S
ASTM Oil #2	S	S	S
ASTM Oil #3	S	S	S
ASTM Oil #4	S	S	S
ATF Oil	S	S	S
Automotive Brake Fluid	ID	ID	ID
Benzene	NR	F	NR
Brine (Sodium Chloride)	NR	NR	S
Butane	NR	S	S
Carbon Dioxide	S	F	S
Carbon Monoxide	S	S	S
Chlorine (Dry)	F	F	NR
Compressed Air	S	F	S
Crude Oil	NR	F	S
Cutting Oil	ID	S	S
Diesel Fuel	S	S	S
Ethanol	S	NR	NR
Ethers	S	S	S
Freon 11	S	ID	ID
Freon 12	S	S	NR
Freon 22	S	NR	S
Fuel Oil	NR	S	S
Gasoline	S	F	S
Gas, Liquid Propane (LPG)	S	S	S
Gas, Natural	F	S	S
Helium	S	S	S
Hydraulic Oil, Petroleum Base	S	S	S
Hydraulic Oil, Water Base	ID	S	S
Hydrogen Gas	S	S	S
Jet Fuel	S	S	S

Media	Fitting Material		
	Brass	Steel	316 SS
Kerosene	S	S	S
Lubricating Oil SAE 10, 20, 30, 40, 50	S	S	S
Methanol	S	S	S
MIL-F-8192 (JP-9)	S	S	S
MIL-H-5606	S	S	S
MIL-H-6083	S	S	S
MIL-H-7083	S	S	S
MIL-H-8446 (MLO-8515)	F	S	S
Mil-L-2104 & 2104B	S	S	S
MIL-L-7808	NR	F	S
Mineral Oil	S	S	S
Nitrogen	S	S	S
Petrolatum	S	S	S
Petroleum Oil (<250° F)	S	S	S
Propane	S	S	S
R134A	S	S	S
Sea Water	F	NR	S
Skydrol 500, Type 2	NR	S	S
Skydrol 7000, Type 2	NR	S	S
Soap Solutions	NR	NR	S
Steam (<400° F)	F	S	S
Stoddard Solvent	F	S	S
Transmission Fluid (Type A)	S	S	S
Trichloroethane	ID	F	S
Water	S	F	S

Rating Codes

- S = Satisfactory
- F = Fair
- NR = Not recommended
- ID = Insufficient data

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Metals Corrosion Scale

Electromotive or Galvanic Series for Metals

The susceptibility of different base metals to corrosion while in contact depends upon the difference between the contact potentials or the electromotive voltages of the metals involved. The greater the potential difference is, the greater is the tendency for corrosion. The metal with the higher potential forms the anode and is corroded. The larger the separation distance in the electromotive chart between the two metals in contact, the higher the contact potential and chances for corrosion. For example, zinc and aluminum are very short distance apart in the chart; therefore potential for corrosion when these two metals are in contact is very low. On the other hand, aluminum and passivated 316 stainless steel are far apart; hence, when in contact, the potential for corrosion is very high. Aluminum, being more anodic metal, will corrode in this combination.

As a general guideline, if the metals are half the length of the chart or more apart, the combination should be avoided. Also, it is not a good idea to combine an anodic metal part with thin cross section, such as thin wall tubing, with a cathodic or less anodic metal part of a heavy cross section, such as a fitting.

Electromotive or Galvanic Series for Metals

+ Anodic (least noble) corroded

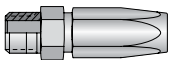
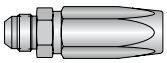
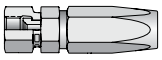
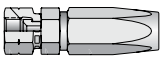
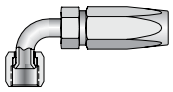
Electric current flows from plus to minus

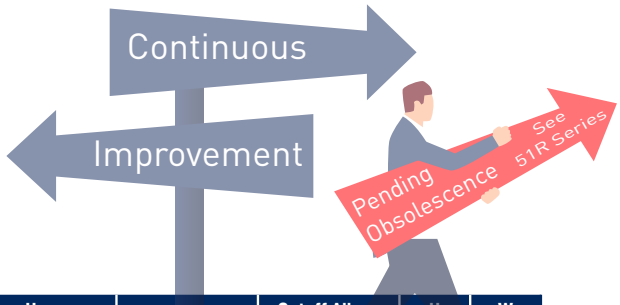
Direction of attack

- Cathodic (most noble) protected

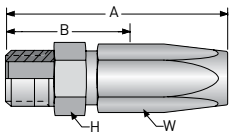
Magnesium
Magnesium alloys
Zinc **(Parker steel fittings are zinc plated)**
Berillium
Aluminum 5052, 3004, 3003, 1100, 6053
Cadmium
Aluminum 2117, 2017, 2024
Mild steel (1018), wrought iron, **free machining steel (12L14)**
Low alloy high strength steel, cast iron
Chrome iron (active)
430 Stainless (active)
302, 303, 321, 347, 410, 416, stainless steel (active)
Ni-resist
316, 317 stainless steel (active)
Carpenter 20Cb-3 stainless (active)
Aluminum bronze (CA 687)
Hastelloy C (active) Inconel 625 (active) Titanium (active)
Lead/Tin solder
Lead
Tin
Inconel 600 (active)
Nickel (active)
60 Ni-15 Cr (active)
80 Ni-20 Cr (active)
Hastelloy B (active)
Naval brass (CA 464), Yellow brass (CA 268), **Brass (CA360)**
Red brass (CA 230), Admiralty brass (CA 443)
Copper (CA 102)
Maganese bronze (CA 675), Tin bronze (CA 903, 905)
410, 416 Stainless (passive) Phosphor bronze (CA 521, 524)
Silicon bronze (CA 651, 655)
Nickel silver (CA 732, 735, 745, 752, 754, 757, 764, 770, 794)
Cupro Ni 90-10
Cupro Ni 80-20
430 Stainless steel (passive)
Cupro Ni 70-30
Nickel aluminum bronze (CA 630, 632)
Monel 400, K500
Silver solder
Nickel (passive)
60 Ni 15 Cr (passive)
Inconel 600 (passive)
80 Ni 20 Cr (passive)
Chrome iron (passive)
302, 303, 304, 321, 347 stainless steel (passive)
316, 317 stainless steel (passive) **(Parker stainless steel fittings are passivated)**
Carpenter 20 Cb-3 stainless (passive), Incoloy 825
Silver
Titanium (passive), Hastelloy C & C276 (passive), Inconel 625 (passive)
Graphic
Zirconium
Gold
Platinum

Fittings - Field Attachable
51 Series

51 Series Field Attachable	201 Male Taper Pipe Rigid	203 Male (JIC) 37° Rigid	206 SAE (JIC) 37° Swivel	208 SAE 45° Swivel	239 JIC 37° Swivel 90° Elbow Short Drop
					
	E-22	E-22	E-23	E-23	E-23



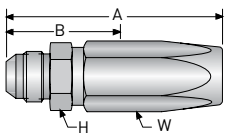
20151 Male Taper Pipe Rigid



Construction: Steel.

Part Number	Thread Size	Hose I.D. inch	Hose I.D. mm	A inch	A mm	Cutoff Allow. B inch	Cutoff Allow. B mm	H Hex inch	W Hex inch
20151-2-3	1/8-27	3/16	5	1.71	43	1	25	7/16	5/8
20151-4-3	1/4-18	3/16	5	1.90	48	1-1/8	29	9/16	5/8
20151-2-4	1/8-27	1/4	6	1.90	48	1	25	1/2	5/8
20151-4-4	1/4-18	1/4	6	2.08	53	1-3/16	30	9/16	5/8
20151-4-5	1/4-18	5/16	8	2.17	55	1-7/16	37	9/16	3/4
20151-6-5	3/8-18	5/16	8	2.17	55	1-7/16	37	3/4	3/4
20151-4-6	1/4-18	3/8	10	2.61	66	1-7/16	37	3/4	7/8
20151-6-6	3/8-18	3/8	10	2.61	66	1-7/16	37	3/4	7/8
20151-8-6	1/2-14	3/8	10	2.80	71	1-9/16	40	7/8	7/8
20151-6-8	3/8-18	1/2	13	2.99	76	1-1/2	38	7/8	1-1/16
20151-8-8	1/2-14	1/2	13	3.17	81	1-11/16	43	7/8	1-1/16
20151-12-12	3/4-14	3/4	19	3.42	87	1-3/4	44	1-1/8	1-3/8
20151-16-16	1-11-1/2	1	25	3.74	95	2-1/4	57	1-3/8	1-9/16

20351 Male (JIC) 37° Rigid



Construction: Steel.

Part Number	Thread Size	Hose I.D. inch	Hose I.D. mm	A inch	A mm	Cutoff Allow. B inch	Cutoff Allow. B mm	H Hex inch	W Hex inch
20351-4-3	7/16-20	3/16	5	1.88	48	1-1/8	29	1/2	5/8
20351-5-4	1/2-20	1/4	6	2.06	52	1-1/8	29	9/16	5/8
20351-6-5	9/16-18	5/16	8	2.16	55	1-5/16	33	5/8	3/4
20351-6-6	9/16-18	3/8	10	2.61	66	1-7/16	37	3/4	7/8
20351-8-6	3/4-16	3/8	10	2.71	69	1-7/16	37	13/16	7/8
20351-8-8	3/4-16	1/2	13	3.08	78	1-5/8	41	7/8	1-1/16

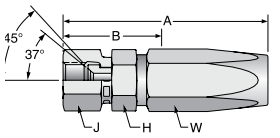
⚠ WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Updated August 6, 2025

Fittings - Field Attachable
51 Series

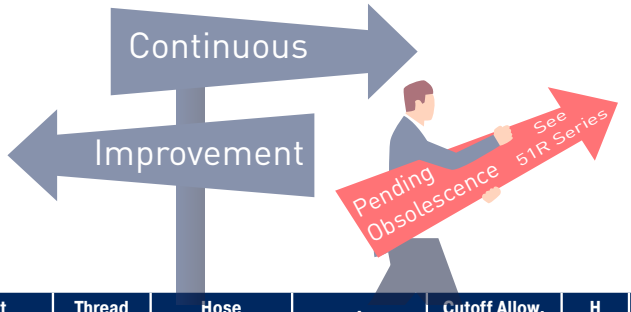
20651 SAE (JIC) 37° Swivel



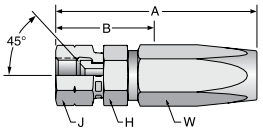
Construction: Steel.

Part Number	Thread Size	Hose I.D.		A		Cutoff Allow. B		H Hex	J Hex	W Hex
		inch	mm	inch	mm	inch	mm	inch	inch	inch
20651-4-3	7/16-20	3/16	5	1.99	51	1-1/4	32	9/16	9/16	5/8
20651-4-4	7/16-20	1/4	6	2.18	55	1-1/4	32	9/16	9/16	5/8
20651-5-4	1/2-20	1/4	6	2.24	57	1-7/16	37	5/8	5/8	5/8
20651-6-4	9/16-18	1/4	6	2.34	59	1-7/16	37	11/16	11/16	5/8
20651-6-5	9/16-18	5/16	8	2.37	60	1-1/2	38	11/16	11/16	3/4
20651-6-6	9/16-18	3/8	10	2.74	70	1-7/16	37	11/16	11/16	7/8
20651-8-6	3/4-16	3/8	10	2.88	73	1-5/8	41	7/8	7/8	7/8
20651-8-8	3/4-16	1/2	13	3.25	83	1-3/4	44	7/8	7/8	1-1/16
20651-10-8	7/8-14	1/2	13	3.37	86	1-7/8	48	1	1	1-1/16
20651-12-12	1-1/16-12	3/4	19	3.75	95	2-1/8	54	1-1/4	1-1/4	1-3/8
20651-16-16	1-5/16-12	1	25	3.87	98	2-1/4	57	1-1/2	1-1/2	1-9/16

NOTE: Sizes -4, -5,-8 and -10 incorporate a dual seat.



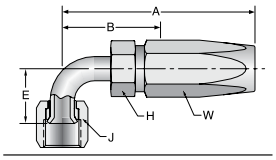
20851 SAE 45° Swivel



Construction: Steel.

Part Number	Thread Size	Hose I.D.		A		Cutoff Allow. B		H Hex	J Hex	W Hex
		inch	mm	inch	mm	inch	mm	inch	inch	inch
20851-6-6	5/8-18	3/8	10	2.82	72	1-9/16	40	3/4	3/4	7/8

23951 JIC 37° Swivel 90° Elbow Short Drop



Construction: Steel.

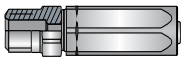
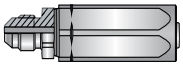
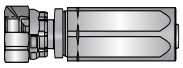
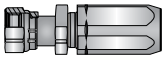
Part Number	Thread Size	Hose I.D.		A		Cutoff Allow. B		H Hex	J Hex	W Hex
		inch	mm	inch	mm	inch	mm	inch	inch	inch
23951-4-3	7/16-20	3/16	5	1.77	45	1	25	0.83	21	3/8
23951-6-6	9/16-18	3/8	10	2.70	69	1-7/16	37	0.85	22	9/16
23951-8-6	3/4-16	3/8	10	2.90	74	1-5/8	41	1.09	28	11/16

⚠ WARNING

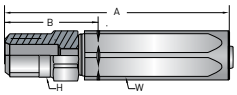
This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Updated August 6, 2025

Fittings - Field Attachable
51R Series

51R Series Field Attachable	201 Male Taper Pipe Rigid	203 Male (JIC) 37° Rigid	206 Female SAE (JIC) 37° Swivel	2JS Female Seal-Lok Swivel Straight Lg.
				
	E-24	E-24	E-25	E-25

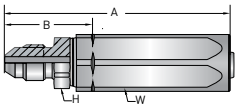
20151R Male Taper Pipe Rigid



Construction: Steel.

Part Number	Thread Size	Hose I.D.		A		Cutoff Allow. B		H Hex	W Hex
		inch	mm	inch	mm	inch	mm	inch	inch
20151R-4-3	1/4-18	3/16	5	2.59	66	1-1/8	29	9/16	5/8
20151R-4-4	1/4-18	1/4	6	2.67	68	1-1/8	29	9/16	5/8
20151R-6-6	3/8-18	3/8	10	2.90	74	1-5/16	33	3/4	7/8
20151R-8-8	1/2-14	1/2	13	3.32	84	1-1/2	39	7/8	1-1/16

20351R Male (JIC) 37° Rigid



Construction: Steel.

Part Number	Thread Size	Hose I.D.		A		Cutoff Allow. B		H Hex	W Hex
		inch	mm	inch	mm	inch	mm	inch	inch
20351R-4-3	7/16-20	3/16	5	2.54	65	1-1/8	29	1/2	5/8
20351R-4-4	7/16-20	1/4	6	2.63	67	1-1/8	29	1/2	5/8
20351R-6-6	9/16-18	3/8	10	2.61	66	1-7/16	37	3/4	7/8
20351R-8-8	3/4-16	1/2	13	3.08	78	1-5/8	41	7/8	1-1/16

⚠ WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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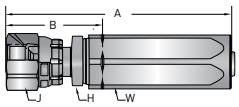
Fittings - Field Attachable
51R Series

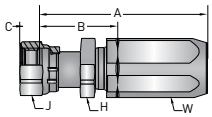
20651R SAE (JIC) 37° Swivel



Construction: Steel.

Part Number	Thread Size	Hose I.D.		A		Cutoff Allow. B		H Hex	J Hex	W Hex
		inch	mm	inch	mm	inch	mm	inch	inch	inch
20651R-4-3	7/16-20	3/16	5	2.56	65	1-1/8	29	9/16	9/16	5/8
20651R-4-4	7/16-20	1/4	6	2.65	67	1-1/8	29	9/16	9/16	5/8
20651R-6-6	9/16-18	3/8	10	2.93	75	1-5/16	33	11/16	11/16	7/8
20651R-8-8	3/4-16	1/2	13	3.30	84	1-1/2	39	7/8	7/8	1-1/16

2JS51R Female Seal-Lok - Swivel - Straight - Long



Construction: Steel.

Part Number	Thread Size	Hose I.D.		A		Cutoff Allow. B		H Hex	J Hex	W Hex
		inch	mm	inch	mm	inch	mm	inch	inch	inch
2JS51R-6-6	9/16-18	3/8	10	2.83	72	1-1/4	32	13/16	13/16	7/8
2JS51R-8-8	3/4-16	1/2	13	3.13	80	1-3/8	35	15/16	15/16	1-1/16

NOTE: When measuring overall length to the end of the nut, B+C dimensions must be used to calculate cut-off allowance.

⚠ WARNING

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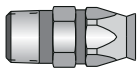
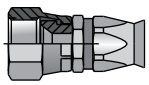
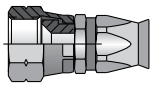
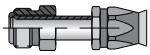
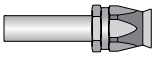
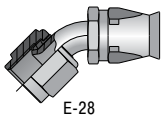
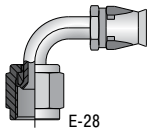
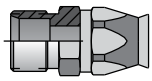
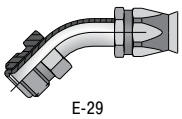
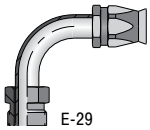
Updated August 6, 2025

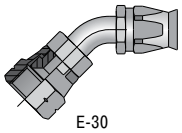
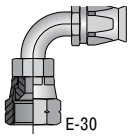
Fittings - Field Attachable

90 Series

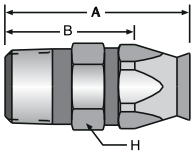
90 Series
Field Attachable

201 Male Taper Pipe Rigid	206 SAE (JIC) 37° Swivel	208 SAE 45° Swivel	228 SAE Male Inverted Swivel Straight	234 Straight Tube
 E-26	 E-27	 E-27	 E-27	 E-28

237 JIC 37° Swivel 45° Elbow	239 JIC 37° Swivel 90° Elbow Short	261 SAE Compression Air Brake	267 SAE Male Inverted Swivel 45° Elbow	269 SAE Male Inverted Swivel 90° Elbow
 E-28	 E-28	 E-29	 E-29	 E-29

277 SAE 45° Swivel 45° Elbow	279 SAE 45° Swivel 90° Elbow
 E-30	 E-30

20190 Male Taper Pipe Rigid



Construction: Brass nipple and ferrule, steel socket. Add "C" for Stainless Steel.

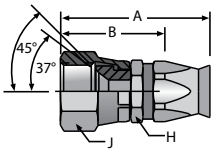
Part Number	Thread Size	Hose Size	A		Cutoff Allow. B		H Hex
			inch	mm	inch	mm	inch
20190-2-4	1/8-27	-4	1.33	34	7/8	22	9/16
20190-4-4	1/4-18	-4	1.58	40	1-1/16	27	9/16
20190-4-5	1/4-18	-5	1.66	42	1-1/8	29	5/8
20190-4-6	1/4-18	-6	1.66	42	1-1/8	29	11/16
20190-6-6	3/8-18	-6	1.66	42	1-1/8	29	11/16
20190-6-8	3/8-18	-8	1.77	45	1-3/16	30	7/8
20190-8-8	1/2-14	-8	1.97	50	1-7/16	37	7/8
20190-8-10	1/2-14	-10	2.13	54	1-7/16	37	1
20190-12-12	3/4-14	-12	2.26	57	1-9/16	40	1-1/8
20190-12-16	3/4-14	-16	2.29	58	1-5/8	41	1-3/8
20190-16-16	1-11-1/2	-16	2.46	62	1-7/8	48	1-3/8
20190-20-20	1-1/4-11-1/2	-20	2.69	68	2-1/6	52	2

⚠ WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Fittings - Field Attachable
90 Series

20690 SAE (JIC) 37° Swivel

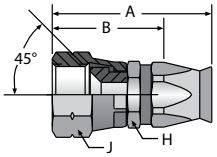


Construction: Brass nipple and ferrule, steel socket. Add "C" for Stainless Steel.

Part Number	Thread Size	Hose Size	A		Cutoff Allow. B		H Hex	J Hex
			inch	mm	inch	mm	inch	inch
20690-4-4	7/16-20	-4	1.58	40	1-1/8	29	9/16	9/16
20690-5-5	1/2-20	-5	1.66	42	1-1/8	29	5/8	5/8
20690-6-6	9/16-18	-6	1.74	44	1-3/16	35	11/16	11/16
20690-8-6	3/4-16	-6	1.85	47	1-5/16	33	7/8	7/8
20690-8-8	3/4-16	-8	1.98	50	1-3/8	35	7/8	7/8
20690-8-10	3/4-16	-10	2.07	53	1-7/16	37	1	7/8
20690-10-10	7/8-14	-10	2.22	56	1-1/2	38	1	1
20690-12-12	1-1/16-12	-12	2.33	59	1-5/8	41	1-1/4	1-1/4
20690-16-16	1-5/16-12	-16	2.52	64	1-15/16	49	1-3/8	1-1/2
20690-20-20	1-5/8-12	-20	2.99	76	2-5/16	59	2	2

NOTE: Sizes -4, -5,-8 and -10 incorporate a dual seat.

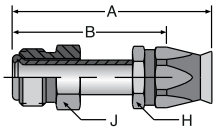
20890 SAE 45° Swivel



Construction: Brass nipple and ferrule, steel socket. Add "C" for Stainless Steel.

Part Number	Thread Size	Hose Size	A		Cutoff Allow. B		H Hex	J Hex
			inch	mm	inch	mm	inch	inch
20890-6-6	5/8-18	-6	1.77	45	1-1/4	32	11/16	3/4
20890-12-12	1-1/16-14	-12	2.34	59	1-11/16	43	1-1/8	1-1/4

22890 SAE Male Inverted Swivel Straight



Construction: Steel nipple, nut and socket. Add "C" for Stainless Steel.

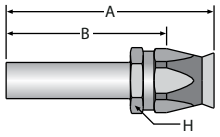
Part Number	Thread Size	Hose Size	A		Cutoff Allow. B		H Hex	J Hex
			inch	mm	inch	mm	inch	inch
22890-4-4	7/16-24	-4	2.15	55	1-11/16	43	9/16	7/16
22890-5-5	1/2-20	-5	2.21	56	1-11/16	43	5/8	1/2
22890-5-6	1/2-20	-6	2.20	56	1-11/16	43	11/16	1/2
22890-6-6	5/8-18	-6	2.22	56	1-11/16	43	11/16	5/8
22890-8-8	3/4-18	-8	2.34	59	1-13/16	46	13/16	3/4
22890-10-10	7/8-18	-10	2.53	64	1-7/8	48	15/16	7/8
22890-12-12	1-1/16-16	-12	3.01	76	2-3/8	60	1-1/8	1-1/16

⚠ WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Fittings - Field Attachable
90 Series

23490 Straight Tube

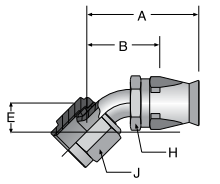


Construction: Brass nipple and ferrule, steel socket.

Part Number	Hose Size	Tube Size		A		Cutoff Allow. B		H Hex
		inch	mm	inch	mm	inch	mm	inch
23490-8-8	-8	1/2	6	3.06	78	2-1/2	64	13/16
23490-8-10	-10	1/2	8	3.15	80	2-1/2	64	1
23490-10-8	-8	5/8	8	3.26	83	2-5/8	67	13/16
23490-10-10	-10	5/8	10	3.28	83	2-5/8	67	1
23490-12-12	-12	3/4	13	3.28	83	2-11/16	68	1-1/8

NOTE: 26T90 fitting includes 23490 with the 60HAB sleeve & 61HAB nut.

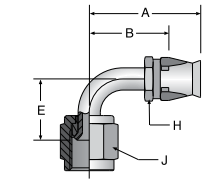
23790 JIC 37° Swivel 45° Elbow



Construction: Steel nipple, nut and socket. Add "C" for Stainless Steel.

Part Number	Thread Size	Hose Size	A		Cutoff Allow. B		E		H Hex	J Hex
			inch	mm	inch	mm	inch	mm	inch	inch
23790-4-4	7/16-20	-4	1.79	45	1-3/8	35	0.33	8	9/16	9/16
23790-5-5	1/2-20	-5	1.86	47	1-3/8	35	0.36	9	5/8	5/8
23790-6-6	9/16-18	-6	1.96	50	1-7/16	37	0.39	10	11/16	11/16
23790-8-6	3/4-16	-6	2.11	54	1-11/16	43	0.55	14	11/16	7/8
23790-8-8	3/4-16	-8	2.40	61	1-3/4	44	0.55	14	13/16	7/8
23790-10-10	7/8-14	-10	2.45	62	1-7/8	48	0.63	16	15/16	1
23790-12-12	1-1/16-12	-12	3.04	77	2-7/16	62	0.78	20	1-1/8	1-1/4
23790-16-16	1-5/16-12	-16	3.28	83	2-11/16	68	0.90	23	1-3/8	1-1/2
23790-20-20	1-5/8-12	-20	3.70	94	3-1/16	78	1.18	30	1-3/4	2

23990 JIC 37° Swivel 90° Elbow Short Drop



Construction: Steel nipple, nut and socket. Add "C" for Stainless Steel.

Part Number	Thread Size	Hose Size	A		Cutoff Allow. B		E		H Hex	J Hex
			inch	mm	inch	mm	inch	mm	inch	inch
23990-4-4	7/16-20	-4	1.67	41	1-1/4	32	0.68	17	9/16	9/16
23990-5-5	1/2-20	-5	1.75	44	1-1/4	32	0.77	20	5/8	5/8
23990-6-6	9/16-18	-6	1.86	47	1-3/8	35	0.85	22	11/16	11/16
23990-8-6	3/4-16	-6	1.95	50	1-7/16	37	1.09	28	11/16	7/8
23990-8-8	3/4-16	-8	2.15	55	1-1/2	38	1.09	28	13/16	7/8
23990-10-10	7/8-14	-10	2.38	60	1-3/4	44	1.23	31	15/16	1
23990-12-12	1-1/16-12	-12	2.95	75	2-5/16	59	1.82	46	1-1/8	1-1/4
23990-16-16	1-5/16-12	-16	3.13	80	2-1/2	64	2.14	54	1-3/8	1-1/2
23990-20-20	1-5/8-12	-20	3.54	90	2-7/8	73	2.57	65	1-3/4	2

⚠ WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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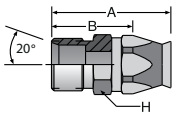
Fittings - Field Attachable
90 Series

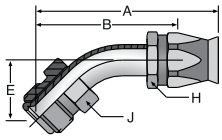
26190 SAE Compression Air Brake



Construction: Brass nipple and ferrule, steel socket.

Part Number	Thread Size	Hose Size	A		Cutoff Allow. B		H Hex
			inch	mm	inch	mm	inch
26190-8-8	11/16-20	-8	1.69	43	1-1/16	27	13/16
26190-8-10	11/16-20	-10	1.86	47	1-3/16	30	1
26190-10-10	13/16-18	-10	1.92	49	1-1/4	32	1
26190-12-10	1-18	-10	2.09	53	1-7/16	37	1
26190-12-12	1-18	-12	2.09	53	1-7/16	37	1-1/8

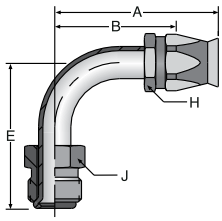
26790 SAE Male Inverted Swivel 45° Elbow



Construction: Steel nipple, nut and socket. Add "C" for Stainless Steel.

Part Number	Thread Size	Hose Size	A		Cutoff Allow. B		E		H Hex	J Hex
			inch	mm	inch	mm	inch	mm	inch	inch
26790-4-4	7/16-24	-4	2.11	54	1-11/16	43	0.63	16	9/16	7/16
26790-5-5	1/2-20	-5	2.51	64	2	51	0.94	24	5/8	1/2
26790-5-6	1/2-20	-6	2.55	65	2-1/16	52	0.94	24	11/16	1/2
26790-6-6	5/8-18	-6	2.61	66	2-1/8	54	0.94	24	11/16	5/8
26790-8-8	3/4-18	-8	2.97	75	2-3/8	60	0.94	24	13/16	3/4
26790-8-10	3/4-18	-10	3.05	77	2-7/16	62	0.94	24	15/16	3/4
26790-10-10	7/8-18	-10	3.43	87	2-11/16	68	1.02	26	15/16	7/8
26790-12-12	1-1/16-16	-12	3.83	97	3-3/16	81	1.15	29	1-1/8	1-1/16

26990 SAE Male Inverted Swivel 90° Elbow



Construction: Steel nipple, nut and socket. Add "C" for Stainless Steel.

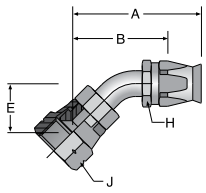
Part Number	Thread Size	Hose Size	A		Cutoff Allow. B		E		H Hex	J Hex
			inch	mm	inch	mm	inch	mm	inch	inch
26990-4-4	7/16-24	-4	1.79	45	1-5/16	33	1.19	30	9/16	7/16
26990-5-5	1/2-20	-5	2.01	51	1-1/2	38	1.65	42	5/8	1/2
26990-5-6	1/2-20	-6	2.05	52	1-9/16	40	1.65	42	11/16	1/2
26990-6-6	5/8-18	-6	2.03	52	1-1/2	38	1.70	43	11/16	5/8
26990-8-8	3/4-18	-8	2.30	58	1-11/16	43	1.78	45	13/16	3/4
26990-8-10	3/4-18	-10	2.39	61	1-3/4	44	1.78	45	15/16	3/4
26990-10-10	7/8-18	-10	3.16	80	2-1/2	64	2.18	55	15/16	7/8
26990-12-12	1-1/16-16	-12	3.56	90	2-15/16	75	2.51	64	1-1/8	1-1/16

⚠ WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Fittings - Field Attachable
90 Series

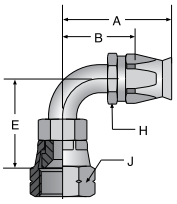
27790 SAE 45° Swivel 45° Elbow



Construction: Steel nipple, nut and socket. Add "C" for Stainless Steel.

Part Number	Thread Size	Hose Size	A		Cutoff Allow. B		E		H Hex	J Hex
			inch	mm	inch	mm	inch	mm	inch	inch
27790-6-6	5/8-18	-6	1.72	44	1-3/16	30	0.39	10	11/16	3/4
27790-12-12	1-1/16-14	-12	3.03	77	2-3/8	60	0.78	20	1-1/8	1-1/4

27990 SAE 45° Swivel 90° Elbow



Construction: Steel nipple, nut and socket. Add "C" for Stainless Steel.

Part Number	Thread Size	Hose Size	A		Cutoff Allow. B		E		H Hex	J Hex
			inch	mm	inch	mm	inch	mm	inch	inch
27990-6-6	5/8-18	-6	1.86	47	1-3/8	35	.85	22	11/16	3/4
27990-8-8	3/4-16	-8	2.09	53	1-1/2	38	1.09	28	13/16	7/8
27990-12-12	1-1/16-14	-12	2.95	75	2-5/16	39	1.82	46	1-1/8	1-1/4

⚠ WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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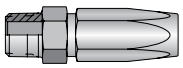
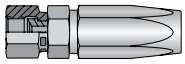
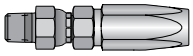
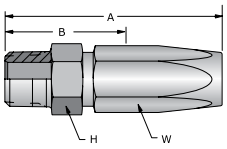
Fittings - Field Attachable
BU Series

BU Series Field Attachable	201 Male Taper Pipe Rigid	206 Female SAE (JIC) 37° Swivel	213 Male Taper Pipe Swivel
			
	E-31	E-31	E-31

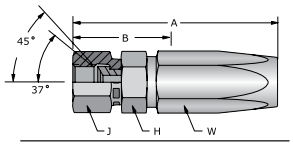
201BU Male Taper Pipe Rigid



Construction: Steel.

Part Number	Thread Size	Hose I.D.		A		Cutoff Allow. B		H Hex	W Hex
		inch	mm	inch	mm	inch	mm	inch	inch
201BU-2-2	1/8-27	1/8	3	1.50	38	1	25	7/16	7/16

206BU Female SAE (JIC) 37° Swivel

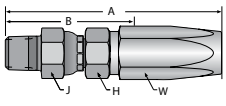


Construction: Steel.

Part Number	Thread Size	Hose I.D.		A		Cutoff Allow. B		H Hex	J Hex	W Hex
		inch	mm	inch	mm	inch	mm	inch	inch	inch
206BU-3-2	3/8-24	1/8	3	1.72	44	1-3/16	30	1/2	9/16	7/16
206BU-4-2	7/16-20	1/8	3	1.77	45	1-3/16	30	9/16	9/16	7/16

NOTE: Size -4 incorporates a dual seat.

213BU Male Taper Pipe Swivel



Construction: Steel.

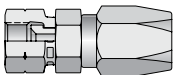
Part Number	Thread Size	Hose I.D.		A		Cutoff Allow. B		H Hex	J Hex	W Hex
		inch	mm	inch	mm	inch	mm	inch	inch	inch
213BU-2-2	1/8-27	1/8	3	2.07	53	1-1/2	38	1/2	1/2	7/16

NOTE: Nitrile O-ring.

⚠ WARNING

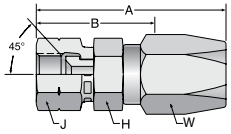
This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Fittings - Field Attachable
MS Series

MS Series Field Attachable	208	SAE 45° Swivel	2TF	Marine Tube Connector
		E-32		E-32

NOTE: MS Series is also available in a permanent crimp design. The fittings are listed in the Crimp Section, pg. G-6.

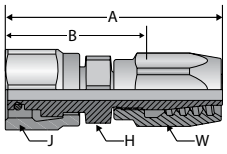
208MS SAE 45° Swivel (Brass)



Construction: Brass.

Part Number	Thread Size	Hose I.D.		A		Cutoff Allow. B		H Hex	J Hex	W Hex
		inch	mm	inch	mm	inch	mm	inch	inch	inch
208MS-6-5B	5/8-18	5/16	8	2.06	52	1 5/16	33	13/16	5/8	5/8
208MS-6-6B	5/8-18	3/8	10	2.37	60	1 7/16	37	13/16	5/8	5/8

2TFMS Marine Tube Connector (Brass)



Construction: Brass.

Part Number	Thread Size	Hose I.D.		A		Cutoff Allow. B		H Hex	J Hex	W Hex
		inch	mm	inch	mm	inch	mm	inch	inch	inch
2TFMS-6-5B	9/16-24	5/16	8	2.02	51	1 5/16	33	3/4	5/8	5/8

NOTE: Nitrile O-ring.

Connector Mates are manufactured by the Fluid Systems Connection Division. Refer to Catalog 3501E for more information.

⚠ WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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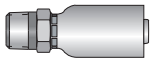
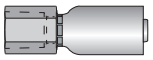
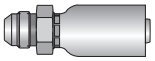
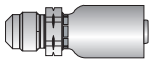
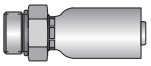
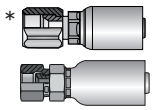
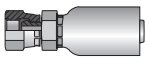
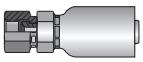
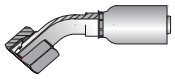
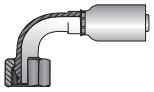
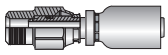
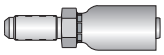
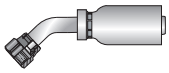
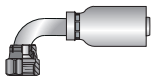
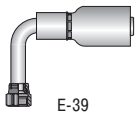
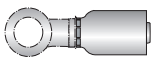
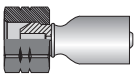
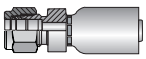
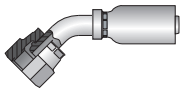
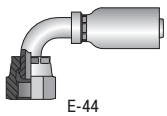
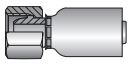
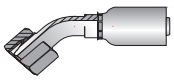
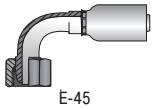
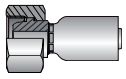
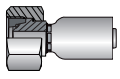
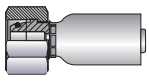
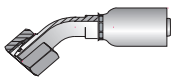
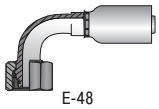
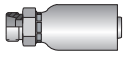
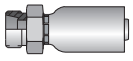
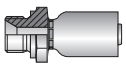
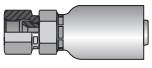
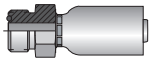
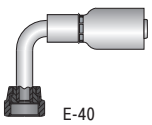
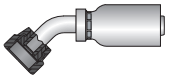
Fittings - Permanent Crimp
56 Series

56 Series Permanent

101 Male Taper Pipe Rigid	102 Female Taper Pipe Rigid	103 Male (JIC) 37° Rigid	104 Male SAE 45° Rigid	105 Male Str. Thread O-ring
 E-34	 E-34	 E-35	 E-35	 E-35
106 SAE (JIC) 37° Swivel	**107 Female Pipe Swivel**	**108 Female SAE 45° Swivel**	**10C M FM Swivel 24° O-ring 45° Elb. Lt.**	**11C M FM Swivel 24° O-ring 90° Elb. Lt.**
*  E-36	 E-36	 E-37	METRIC (M)  E-43	METRIC (M)  E-43
113 Male Pipe Swivel	**13E Male (JIC) 37° Long**	**137 FM JIC 37° Swivel 45° Elbow**	**139 FM JIC 37° Swivel 90° Elbow**	**141 FM JIC 37° Swivel 90° Elbow-Lg**
 E-37	 E-37	 E-38	 E-38	 E-39
149 Banjo Union	**192 FM BSP Parallel Pipe Swivel Str.**	**1AL A-Lok® Compression**	**1B1 FM BSP Pipe Swivel 45° Elb. (60° Cone)**	**1B2 FM BSP Pipe Swivel 90° Elb. (60° Cone)**
 E-39	METRIC (M)  E-43	 E-44	 E-44	 E-44
1C3 M FM Swivel Nut Light	**1C4 M FM Swivel 45° Elbow Lt.**	**1C5 M FM Swivel 90° Elbow Lt.**	**1C6 M FM Swivel DIN 20078 HW w/o O-ring**	**1C9 M FM Swivel DIN 20078 HW O-ring**
METRIC (M)  E-45	METRIC (M)  E-45	METRIC (M)  E-45	METRIC (M)  E-46	METRIC (M)  E-46
1CA M FM Swivel 24° Lt. O-ring	**1CE M FM Swivel 24° O-ring 45° Elb.**	**1CF M FM Swivel 24° Oring 90° Elb.**	**1D0 M Male Stud DIN 20078 Lt.**	**1D2 M Male Stud 24° Heavy**
METRIC (M)  E-47	METRIC (M)  E-47	METRIC (M)  E-48	METRIC (M)  E-49	METRIC (M)  E-49
1D9 Male BSPP - Str. (60° Cone)	**1FU JIS/BSP 30° Flare Swivel Female**	**1J0 Male Seal-Lok™ Rigid Str. w/O-ring**	**1J1 Female Seal-Lok™ 90° Elbow Long**	**1J2 Female Seal-Lok™ 30° Elbow**
 E-49	 E-48	 E-40	 E-40	 E-41

* Parker's Zinc Nickel Plating protects against corrosion, improving the performance of crimp hose fittings in harsh hydraulic environments, reducing both downtime and warranty costs.

⚠ WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Updated August 6, 2025

Fittings - Permanent Crimp
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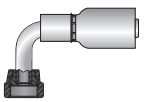
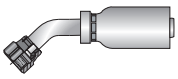
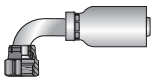
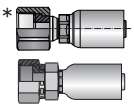
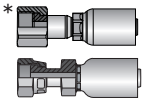
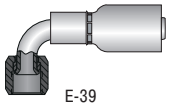
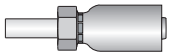
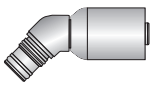
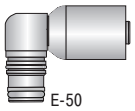
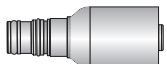
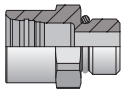
Permanent

1J5 Female Seal-Lok™ Swivel 90° Elb.Med.	1J7 Female Seal-Lok™ Swivel 45° Elbow	1J9 Female Seal-Lok™ Swivel 90° Elb Short	1JC Female Seal-Lok™ Str. Swivel Short	1JS Female Seal-Lok™ Straight
 E-41	 E-42	 E-42	*  E-40	*  E-41

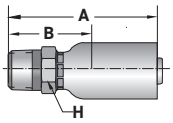
1L9 Female JIC 37° Swivel 90° Elb.Med.	1TU Universal Inch Tube Stub End
 E-39	 E-42

* Parker's Zinc Nickel Plating protects against corrosion, improving the performance of crimp hose fittings in harsh hydraulic environments, reducing both downtime and warranty costs.

56 Series
Permanent
RAPID ASSEMBLY

1WW Male Rapid Assembly, 45° Elb.	1WY Male Rapid Assembly, 90° Elb.	1WU Male Rapid Assembly, Straight	685RA Female Rapid Assy. Adapter Male SAE
 E-50	 E-50	 E-50	 E-50

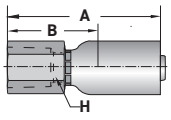
10156 Male Taper Pipe Rigid



Construction: Steel. Add "C" for Stainless Steel.

Part Number	Thread Size	Hose I.D. inch	Hose I.D. mm	A inch	A mm	Cutoff Allow. B inch	Cutoff Allow. B mm	H Hex inch
10156-2-2	1/8-27	1/8	3	1.35	34	3/4	19	1/2
10156-2-3	1/8-27	3/16	5	1.60	41	7/8	22	9/16
10156-4-2	1/4-18	1/8	3	1.56	40	15/16	24	5/8
10156-4-3	1/4-18	3/16	5	1.82	46	1-1/8	28	9/16
10156-4-4	1/4-18	1/4	6	2.09	53	1-1/8	28	9/16
10156-4-6	1/4-18	3/8	10	2.16	55	1-3/16	30	11/16
10156-6-6	3/8-18	3/8	10	2.16	55	1-3/16	30	3/4
10156-8-8	1/2-14	1/2	13	2.55	65	1-7/16	37	7/8
10156-12-10	3/4-14	5/8	16	2.88	73	1-9/16	40	1-1/8
10156-12-12	3/4-14	3/4	19	2.97	75	1-5/8	41	1-1/16
10156-16-16	1-11-1/2	1	25	3.76	96	1-7/8	48	1-3/8

10256 Female Taper Pipe Rigid



Construction: Steel. Add "C" for Stainless Steel.

Part Number	Thread Size	Hose I.D. inch	Hose I.D. mm	A inch	A mm	Cutoff Allow. B inch	Cutoff Allow. B mm	H Hex inch
10256-4-4	1/4-18	1/4	6	1.99	51	1	25	11/16

⚠ WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Tel: +45 63 12 83 00 | Email: ps@hymatik.com | www.hymatik.com | Hvidkaervej 27a, DK-5250 Odense SV, Denmark

Fittings - Permanent Crimp
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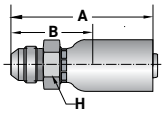
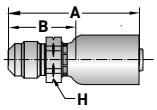
10356 Male (JIC) 37° Rigid



Construction: Steel. Add "C" for Stainless Steel.

Part Number	Thread Size	Hose I.D.		A		Cutoff Allow. B		H Hex
		inch	mm	inch	mm	inch	mm	inch
10356-4-3	7/16-20	3/16	5	1.83	46	1-1/8	28	9/16
10356-4-4	7/16-20	1/4	6	2.10	53	1-1/8	28	9/16
10356-5-4	1/2-20	1/4	6	2.10	53	1-1/8	28	9/16
10356-6-4	9/16-18	1/4	6	2.14	54	1-3/16	30	11/16
10356-6-5	9/16-18	5/16	8	2.22	56	1-3/16	30	11/16
10356-5-6	1/2-20	3/8	10	2.14	54	1-1/8	28	5/8
10356-6-6	9/16-18	3/8	10	2.15	55	1-3/16	30	5/8
10356-8-6	3/4-16	3/8	10	2.25	57	1-1/4	32	13/16
10356-8-8	3/4-16	1/2	13	2.40	61	1-5/16	33	7/8
10356-10-8	7/8-14	1/2	13	2.60	66	1-1/2	38	15/16
10356-12-10	1-1/16-12	5/8	16	2.97	75	1-5/8	42	1-1/8
10356-12-12	1-1/16-12	3/4	19	3.07	78	1-3/4	44	1-1/8
10356-16-16	1-5/16-12	1	25	3.66	93	1-3/4	44	1-3/8

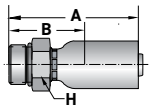
10456 Male SAE 45° Rigid



Construction: Steel. Add "C" for Stainless Steel.

Part Number	Thread Size	Hose I.D.		A		Cutoff Allow. B		H Hex
		inch	mm	inch	mm	inch	mm	inch
10456-4-3	7/16-20	3/16	5	1.71	43	1	25	9/16
10456-5-4	1/2-20	1/4	6	2.11	54	1-1/8	28	9/16
10456-6-5	5/8-18	5/16	8	2.18	55	1-3/16	30	11/16
10456-6-6	5/8-18	1/2	13	2.16	55	1-3/16	30	11/16
10456-6-8	5/8-18	1/2	13	2.37	60	1-1/4	32	3/4
10456-8-8	3/4-16	1/2	13	2.50	64	1-3/8	35	7/8
10456-12-12	1-1/16-14	3/4	19	3.11	79	1-3/4	44	1-1/8

10556 Male Straight Thread O-ring (Nitrile O-ring included)



Construction: Steel. Add "C" for Stainless Steel.

Part Number	Thread Size	Hose I.D.		A		Cutoff Allow. B		H Hex
		inch	mm	inch	mm	inch	mm	inch
10556-4-3	7/16-20	3/16	4	1.61	41	15/16	24	9/16
10556-6-3	9/16-18	3/16	4	1.64	42	15/16	24	11/16
10556-4-4	7/16-20	1/4	6	1.84	47	7/8	22	9/16
10556-5-4	1/2-20	1/4	6	1.84	47	7/8	22	5/8
10556-6-4	9/16-18	1/4	6	1.91	49	15/16	24	11/16
10556-4-5	7/16-20	5/16	8	1.91	49	7/8	22	5/8
10556-5-5	1/2-20	5/16	8	1.91	49	7/8	22	5/8
10556-6-6	9/16-18	3/8	10	1.95	50	15/16	24	11/16
10556-8-6	3/4-16	3/8	10	1.98	50	1	25	7/8
10556-8-8	3/4-16	1/2	12	2.21	56	1-1/8	28	7/8
10556-10-8	7/8-14	1/2	12	2.28	58	1-3/16	30	1

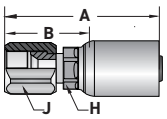
NOTE: Nitrile O-ring.

⚠ WARNING

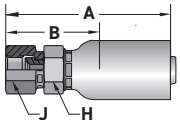
This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Fittings - Permanent Crimp
56 Series

10656 SAE (JIC) 37° Swivel



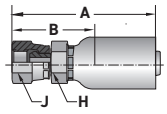
*Construction: Steel
Zinc Nickel Plating



Construction: Steel. Add "C" for Stainless Steel.

Part Number	Thread Size	Hose I.D. inch	Hose I.D. mm	A inch	A mm	Cutoff Allow. B inch	Cutoff Allow. B mm	H Hex inch	J Hex inch
10656-2-2	5/16-24	1/8	3	1.63	41	1	25	1/2	1/2
10656-3-2	3/8-24	1/8	3	1.60	41	15/16	24	1/2	9/16
10656-4-2	7/16-20	1/8	3	1.68	43	1-1/16	27	1/2	5/8
10656-3-3	3/8-24	3/16	5	1.91	49	1-3/16	30	1/2	1/2
10656-4-3	7/16-20	3/16	5	1.78	45	1-1/16	27	9/16	9/16
10656-5-3	1/2-20	3/16	5	1.84	47	1-1/8	28	9/16	5/8
10656-2-4	3/8-24	1/4	6	1.98	50	1	25	1/2	7/16
10656-4-4*	7/16-20	1/4	6	2.05	52	1-1/16	27	7/16	9/16
10656-4-4C	7/16-20	1/4	6	2.05	52	1-1/16	27	9/16	9/16
10656-5-4	1/2-20	1/4	6	2.12	54	1-1/8	28	9/16	5/8
10656-6-4	9/16-18	1/4	6	2.14	54	1-3/16	30	9/16	11/16
10656-4-5	7/16-20	5/16	8	2.10	53	1-1/16	27	9/16	9/16
10656-5-5	1/2-20	5/16	8	2.21	56	1-3/16	30	5/8	5/8
10656-6-5	9/16-18	5/16	8	2.23	57	1-3/16	30	5/8	11/16
10656-4-6	7/16-20	3/8	10	2.09	53	1-1/8	28	9/16	9/16
10656-5-6	1/2-20	3/8	10	2.23	57	1-1/4	32	5/8	5/8
10656-6-6*	9/16-18	3/8	10	2.22	56	1-1/4	32	9/16	11/16
10656-6-6C	9/16-18	3/8	10	2.22	56	1-1/4	32	11/16	11/16
10656-8-6*	3/4-16	3/8	10	2.37	60	1-3/8	35	9/16	7/8
10656-8-6C	3/4-16	3/8	10	2.37	60	1-3/8	35	11/16	7/8
10656-6-8	9/16-18	1/2	13	2.42	61	1-5/16	33	3/4	11/16
10656-8-8*	3/4-16	1/2	13	2.54	64	1-7/16	36	11/16	7/8
10656-8-8C	3/4-16	1/2	13	2.54	64	1-7/16	36	13/16	7/8
10656-10-8	7/8-14	1/2	13	2.64	67	1-1/2	38	7/8	1
10656-8-10	3/4-16	5/8	16	2.73	69	1-7/16	36	15/16	7/8
10656-10-10	7/8-14	5/8	16	2.99	76	1-11/16	43	15/16	1
10656-12-10	1-1/16-12	5/8	16	3.06	78	1-3/4	44	1-1/16	1-1/4
10656-10-12	7/8-14	3/4	19	2.88	73	1-1/2	38	1-1/16	1
10656-12-12	1-1/16-12	3/4	19	3.06	78	1-3/4	44	1-1/16	1-1/4
10656-16-12	1-5/16-12	3/4	19	3.27	83	1-15/16	49	1-1/4	1-1/2
10656-16-16	1-5/16-12	1	25	3.81	97	1-15/16	49	1-3/8	1-1/2
10656-20-16	1-5/8-12	1	25	3.96	101	2-1/16	52	1-5/8	2

10756 Female Pipe Swivel



Construction: Steel. Add "C" for Stainless Steel.

Part Number	Thread Size	Hose I.D. inch	Hose I.D. mm	A inch	A mm	Cutoff Allow. B inch	Cutoff Allow. B mm	H Hex inch	J Hex inch
10756-4-4	1/4-18	1/4	6	2.03	52	1-1/16	27	9/16	11/16
10756-4-5	1/4-18	5/16	8	2.09	53	1-1/16	27	9/16	11/16
10756-6-6	3/8-18	3/8	10	2.13	54	1-1/8	28	11/16	7/8
10756-8-8	1/2-14	1/2	13	2.40	61	1-5/16	33	7/8	1
10756-12-12	3/4-14	3/4	19	2.98	76	1-5/8	41	1-1/16	1-1/4
10756-16-16	1-11-1/2	1	25	3.74	95	1-7/8	48	1-3/8	1-1/2

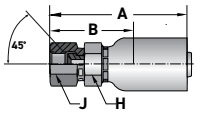
⚠ WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Updated August 6, 2025

Fittings - Permanent Crimp
56 Series

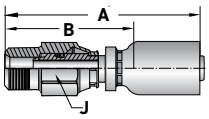
10856 Female SAE 45° Swivel



Construction: Steel. Add "C" for Stainless Steel.

Part Number	Thread Size	Hose I.D.		A		Cutoff Allow. B		H Hex	J Hex
		inch	mm	inch	mm	inch	mm	inch	inch
10856-6-4	5/8-18	1/4	6	2.19	56	1-1/4	32	11/16	3/4
10856-6-5	5/8-18	5/16	8	2.28	58	1-1/4	32	11/16	3/4
10856-6-6	5/8-18	3/8	10	2.36	60	1-3/8	35	11/16	3/4
10856-12-12	1-1/16-14	3/4	19	3.06	78	1-3/4	44	1-1/16	1-1/4

11356 Male Pipe Swivel

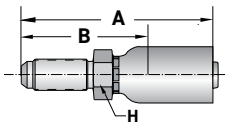


Construction: Steel. Add "C" for Stainless Steel.

Part Number	Thread Size	Hose I.D.		A		Cutoff Allow. B		J Hex
		inch	mm	inch	mm	inch	mm	inch
11356-2-2	1/8-27	1/8	3	1.96	50	1-5/16	33	1/2
11356-2-3	1/8-27	3/16	5	2.17	73	1-1/2	54	5/8
11356-4-3	1/4-18	3/16	5	2.59	66	1-7/8	48	5/8
11356-4-4	1/4-18	1/4	6	2.95	75	2	50	5/8
11356-4-5	1/4-18	5/16	8	2.77	75	1-3/4	49	5/8
11356-6-6	3/8-18	3/8	10	3.06	78	2-1/16	52	3/4
11356-8-6	1/2-14	3/8	10	3.24	82	2-1/4	57	15/16
11356-8-8	1/2-14	1/2	13	3.37	86	2-1/4	57	15/16
11356-12-12	3/4-14	3/4	19	3.71	94	2-3/8	60	1-1/4
11356-16-16	1-11-1/2	1	25	4.35	118	2-7/16	70	1-1/2

NOTE: Nitrile O-ring.

13E56 Male (JIC) 37° Long



Construction: Steel. Add "C" for Stainless Steel.

Part Number	Thread Size	Hose I.D.		A		Cutoff Allow. B		H Hex
		inch	mm	inch	mm	inch	mm	inch
13E56-4-4	7/16-20	1/4	6	2.80	71	1-13/16	46	5/8
13E56-6-5	9/16-18	5/16	8	2.97	75	1-15/16	49	3/4
13E56-6-6	9/16-18	3/8	10	2.97	75	2	50	7/8
13E56-8-8	3/4-16	1/2	13	3.24	82	2-1/8	54	7/8

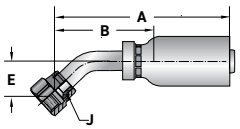
NOTE: Bulkhead Locknut sold separately. WLN Locknuts are manufactured by the Tube Fittings Division. Refer to Catalog 4300 for additional information.

⚠ WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Fittings - Permanent Crimp
56 Series

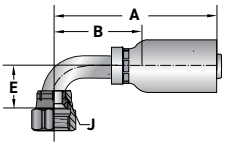
13756 Female JIC 37° Swivel 45° Elbow



Construction: Steel. Add "C" for Stainless Steel.

Part Number	Thread Size	Hose I.D.		A		Cutoff Allow. B		E		J Hex
		inch	mm	inch	mm	inch	mm	inch	mm	inch
13756-4-2	7/16-20	1/8	3	1.98	50	1-5/16	33	.33	8	9/16
13756-4-3	7/16-20	3/16	5	1.93	49	1-1/4	32	.39	10	9/16
13756-4-4	7/16-20	1/4	6	2.19	56	1-1/4	32	.39	10	9/16
13756-5-4	1/2-20	1/4	6	2.46	62	1-1/2	38	.39	10	5/8
13756-6-4	9/16-18	1/4	6	2.24	57	1-1/4	32	.43	11	11/16
13756-6-5	9/16-18	5/16	8	2.53	64	1-1/2	38	.43	11	11/16
13756-6-6	9/16-18	3/8	10	2.57	65	1-9/16	40	.43	11	11/16
13756-8-6	3/4-16	3/8	10	2.76	70	1-3/4	44	.59	15	7/8
13756-8-8	3/4-16	1/2	13	2.72	69	1-5/8	41	.59	15	7/8
13756-10-8	7/8-14	1/2	13	2.87	73	1-3/4	45	.63	16	1
13756-10-10	7/8-14	5/8	16	3.23	83	2	50	.63	16	1
13756-12-10	1-1/16-12	5/8	16	3.74	95	2.40	61	.83	21	1-1/4
13756-12-12	1-1/16-12	3/4	19	4.03	102	2-11/16	68	.83	21	1-1/4
13756-16-16	1-5/16-12	1	25	4.53	115	2.63	67	.94	24	1-1/2

13956 Female JIC 37° Swivel 90° Elbow



Construction: Steel. Add "C" for Stainless Steel.

Part Number	Thread Size	Hose I.D.		A		Cutoff Allow. B		E		J Hex
		inch	mm	inch	mm	inch	mm	inch	mm	inch
13956-4-2	7/16-20	1/8	3	1.83	46	1-1/4	32	.68	17	9/16
13956-4-3	7/16-20	3/16	5	1.75	44	1-1/16	27	.83	21	9/16
13956-4-4	7/16-20	1/4	6	2.01	51	1-1/16	27	.83	21	9/16
13956-5-4	1/2-20	1/4	6	2.01	51	1-1/16	27	.83	21	5/8
13956-6-4	9/16-18	1/4	6	2.01	51	1-1/16	27	.91	23	11/16
13956-6-5	9/16-18	5/16	8	2.14	54	1-1/8	28	.91	23	11/16
13956-6-6	9/16-18	3/8	10	2.22	56	1-1/4	32	.91	23	11/16
13956-8-6	3/4-16	3/8	10	2.55	65	1-9/16	40	1.14	29	7/8
13956-8-8	3/4-16	1/2	13	2.48	63	1-3/8	35	1.14	29	7/8
13956-10-8	7/8-14	1/2	13	2.60	66	1-1/2	38	1.26	32	1
13956-10-10	7/8-14	5/8	16	2.96	75	1-5/8	41	1.26	32	1
13956-12-10	1-1/16-12	5/8	19	3.39	86	2-1/16	52	1.89	48	1-1/4
13956-12-12	1-1/16-12	3/4	19	3.89	99	2-9/16	65	1.89	48	1-1/4
13956-16-16	1-5/16-12	1	25	4.50	114	2.60	66	2.20	56	1-1/2

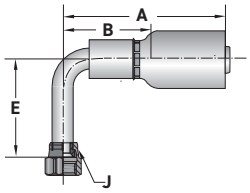
⚠ WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Updated August 6, 2025

Fittings - Permanent Crimp
56 Series

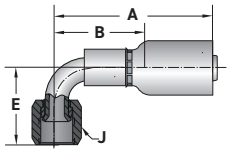
14156 Female JIC 37° Swivel 90° Elbow Long Drop



Construction: Steel. Add "C" for Stainless Steel.

Part Number	Thread Size	Hose I.D.		A		Cutoff Allow. B		E		J Hex
		inch	mm	inch	mm	inch	mm	inch	mm	inch
14156-4-3	7/16-20	3/16	5	2.00	51	1-5/16	33	1.81	46	9/16
14156-4-4	7/16-20	1/4	6	2.31	59	1-3/8	35	1.81	46	9/16
14156-5-4	1/2-20	1/4	6	2.34	60	1-3/8	35	1.81	46	5/8
14156-6-4	9/16-18	1/4	6	2.39	61	1-7/16	36	2.13	54	11/16
14156-6-5	9/16-18	5/16	8	2.36	60	1-5/16	33	2.13	54	11/16
14156-6-6	9/16-18	3/8	10	2.39	61	1-3/8	35	2.13	54	11/16
14156-8-6	3/4-16	3/8	10	2.49	63	1-1/2	38	2.52	64	7/8
14156-8-8	3/4-16	1/2	13	2.61	66	1-1/2	38	2.52	64	7/8
14156-10-8	7/8-14	1/2	13	2.48	63	1-3/8	35	2.76	70	1
14156-12-12	1-1/16-12	3/4	19	3.59	91	2-1/4	57	3.78	96	1-1/4
14156-16-16	1-5/16-12	1	25	4.36	111	2-1/2	63	4.49	114	1-1/2

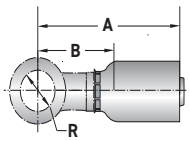
1L956 Female JIC 37° Swivel 90° Elbow Medium Drop



Construction: Steel. Add "C" for Stainless Steel.

Part Number	Thread Size	Hose I.D.		A		Cutoff Allow. B		E		J Hex
		inch	mm	inch	mm	inch	mm	inch	mm	inch
1L956-4-3	7/16-20	3/16	5	1.97	50	1-1/4	32	1.26	32	9/16
1L956-4-4	7/16-20	1/4	6	2.29	58	1-5/16	34	1.26	32	9/16
1L956-5-4	1/2-20	1/4	6	2.31	59	1-3/8	35	1.26	32	5/8
1L956-6-5	9/16-18	5/16	8	2.33	59	1-5/16	34	1.50	38	11/16
1L956-6-6	9/16-18	3/8	10	2.36	60	1-1/4	31	1.50	38	11/16
1L956-8-6	3/4-16	3/8	10	2.44	62	1-7/16	37	1.61	41	7/8
1L956-8-8	3/4-16	1/2	13	2.57	65	1-7/16	37	1.61	41	7/8
1L956-10-8	7/8-14	1/2	13	2.48	63	1-3/8	35	1.85	47	1
1L956-12-12	1-1/16-12	3/4	19	3.89	99	2-9/16	65	2.28	58	1-1/4
1L956-16-16	1-5/16-12	1	25	4.36	111	2-1/2	63	2.80	71	1-1/2

14956 – Banjo Union DIN7642

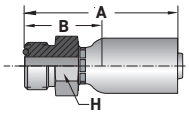


Construction: Steel.

Part Number	Diameter R	Hose I.D.		A		Cutoff Allow. B	
		mm	inch	mm	inch	mm	inch
14956-14-3	14	5	3/16	49	1.93	31	1.22
14956-12-4	12	6	1/4	50	1.97	25	1.5
14956-14-4	14	6	1/4	56	2.2	32	1.26
14956-12-5	12	8	5/16	54	2.13	29	1.14
14956-14-5	14	8	5/16	53	2.09	27	1.06
14956-17-6	17	10	3/8	55	2.17	29	1.14

NOTE: Reference Hose Products Division Catalog 4400 for AM Banjo Bolt information.

1J056 Male Seal-Lok™ Rigid Straight w/O-ring ISO 12151-1-S



Construction: Steel. Add "C" for Stainless Steel.

Part Number	Thread Size	Hose I.D.		A		Cutoff Allow. B		H Hex
		inch	mm	inch	mm	inch	mm	inch
1J056-4-4	9/16-18	1/4	6	1.93	49	15/16	24	5/8
1J056-6-4	11/16-16	1/4	6	2.01	51	1-1/16	27	3/4
1J056-6-6	11/16-16	3/8	10	1.98	50	1	25	3/4
1J056-8-6	13/16-16	3/8	10	2.16	55	1-3/16	30	7/8
1J056-8-8	13/16-16	1/2	13	2.18	55	1-1/16	27	7/8

NOTE: Nitrile O-ring.

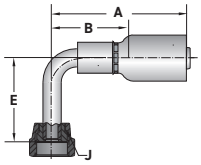
⚠ WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Updated August 6, 2025

Fittings - Permanent Crimp
56 Series

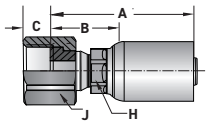
1J156 Female Seal-Lok™ Swivel 90° Elbow Long Drop ISO 12151-1-SWEL90



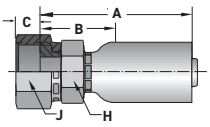
Construction: Steel. Add "C" for Stainless Steel.

Part Number	Thread Size	Hose I.D.		A		Cutoff Allow. B		E		J Hex
		inch	mm	inch	mm	inch	mm	inch	mm	inch
1J156-4-3	9/16-18	3/16	5	2.05	52	1-3/8	35	1.81	46	11/16
1J156-4-4	9/16-18	1/4	6	2.37	60	1-3/8	35	1.81	46	11/16
1J156-6-4	11/16-16	1/4	6	2.45	62	1-1/2	38	2.13	54	13/16
1J156-6-6	11/16-16	3/8	10	2.45	62	1-7/16	37	2.13	54	13/16
1J156-8-6	13/16-16	3/8	10	2.53	64	1-7/16	37	2.52	64	15/16
1J156-8-8	13/16-16	1/2	13	2.67	68	1-9/16	40	2.52	64	15/16
1J156-12-12	1-3/16-12	3/4	19	3.59	91	2-1/4	57	3.78	96	1-3/8
1J156-16-16	1-7/16-12	1	25	4.36	111	2-1/2	63	4.49	114	1-5/8

1JC56 Female Seal-Lok™ Straight Swivel Short ISO 12151-1-SWSA



*Construction: Steel
Zinc Nickel Plating



Construction: Steel. Add "C" for Stainless Steel.

Part Number	Thread Size	Hose I.D.		A		Cutoff Allow. B		C		H Hex	J Hex
		inch	mm	inch	mm	inch	mm	inch	mm	inch	inch
1JC56-4-2	9/16-18	1/8	3	1.34	34	3/4	19	5/16	8	5/8	11/16
1JC56-4-3	9/16-18	3/16	5	1.58	40	7/8	22	5/16	8	9/16	11/16
1JC56-4-4*	9/16-18	1/4	6	1.86	47	7/8	22	5/16	8	7/16	11/16
1JC56-4-4C	9/16-18	1/4	6	1.86	47	7/8	22	5/16	8	9/16	11/16
1JC56-6-4*	11/16-16	1/4	6	1.90	48	15/16	24	.34	9	7/16	11/16
1JC56-6-4C	11/16-16	1/4	6	1.90	48	15/16	24	.34	9	11/16	13/16
1JC56-4-5	9/16-18	5/16	8	1.81	46	13/16	21	5/16	8	11/16	11/16
1JC56-6-5	11/16-16	5/16	8	1.95	49	15/16	24	.34	9	11/16	13/16
1JC56-4-6	9/16-18	3/8	10	1.91	48	15/16	24	5/16	8	5/8	11/16
1JC56-6-6*	11/16-16	3/8	10	1.89	48	7/8	22	.34	9	9/16	13/16
1JC56-6-6C	11/16-16	3/8	10	1.89	48	7/8	22	.34	9	11/16	13/16
1JC56-8-6*	13/16-16	3/8	10	2.00	51	1	25	7/16	11	9/16	15/16
1JC56-8-6C	13/16-16	3/8	10	2.00	51	1	25	7/16	11	13/16	15/16
1JC56-8-8*	13/16-16	1/2	13	2.13	54	1	25	7/16	11	11/16	15/16
1JC56-8-8C	13/16-16	1/2	13	2.13	54	1	25	7/16	11	13/16	15/16
1JC56-10-8	1-14	1/2	13	2.30	58	1-3/16	30	.48	12	15/16	1-1/8
1JC56-10-10	1-14	5/8	16	2.48	63	1-3/16	30	.48	12	15/16	1-1/8
1JC56-12-12	1-3/16-12	3/4	19	2.54	65	1-3/16	30	9/16	14	1-1/8	1-3/8
1JC56-16-16	1-7/16-12	1	25	3.21	82	1-5/16	33	9/16	14	1-3/8	1-5/8

NOTE: When measuring overall length to the end of the nut, B+C dimensions must be used to calculate cut-off allowance.

⚠ WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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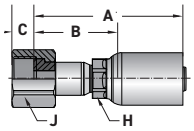
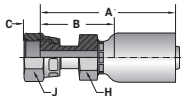
Fittings - Permanent Crimp
56 Series

1JS56 Female Seal-Lok™ Straight ISO 12151-1-SWSB



*Construction: Steel
Zinc Nickel Plating

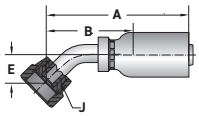


Construction: Steel. Add "C" for Stainless Steel.

Part Number	Thread Size	Hose I.D.		A		Cutoff Allow. B		C		H Hex	J Hex
		inch	mm	inch	mm	inch	mm	inch	mm	inch	inch
1JS56-4-3	9/16-18	3/16	5	1.89	48	1-3/16	30	0.31	8	9/16	11/16
1JS56-4-4*	9/16-18	1/4	6	2.17	51	1-3/16	30	0.31	8	7/16	11/16
1JS56-4-4C	9/16-18	1/4	6	2.17	51	1-3/16	30	0.31	8	9/16	11/16
1JS56-6-4*	11/16-16	1/4	6	2.24	57	1-1/4	32	0.35	9	7/16	13/16
1JS56-6-4C	11/16-16	1/4	6	2.24	57	1-1/4	32	0.35	9	11/16	13/16
1JS56-6-5	11/16-16	5/16	8	2.29	58	1-1/4	32	0.35	9	11/16	13/16
1JS56-6-6*	11/16-16	3/8	10	2.28	58	1-15/16	33	0.35	9	9/16	13/16
1JS56-6-6C	11/16-16	3/8	10	2.28	58	1-15/16	33	0.35	9	11/16	13/16
1JS56-8-6*	13/16-16	3/8	10	2.40	61	1-7/16	36	0.43	11	9/16	15/16
1JS56-8-6C	13/16-16	3/8	10	2.40	61	1-7/16	36	0.43	11	13/16	15/16
1JS56-6-8	11/16-16	1/2	13	2.40	61	1-5/16	33	0.35	9	3/4	13/16
1JS56-8-8*	13/16-16	1/2	13	2.52	64	1-3/8	35	0.43	11	11/16	15/16
1JS56-8-8C	13/16-16	1/2	13	2.52	64	1-3/8	35	0.43	11	13/16	15/16
1JS56-10-8	1-14	1/2	13	2.68	68	1-9/16	40	0.48	12	15/16	1-1/8
1JS56-10-10	1-14	5/8	16	2.92	74	1-5/8	41	0.48	12	15/16	1-1/8
1JS56-12-12	1-3/16-12	3/4	19	3.17	81	1-13/16	46	0.55	14	1-1/8	1-3/8
1JS56-16-16	1-7/16-12	1	25	3.76	96	1-7/8	48	0.57	14	1-3/8	1-5/8

NOTE: When measuring overall length to the end of the nut, B+C dimensions must be used to calculate cut-off allowance.

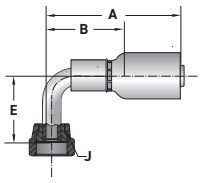
1J256 Female Seal-Lok™ Swivel 30° Elbow



Construction: Steel. Add "C" for Stainless Steel.

Part Number	Thread Size	Hose I.D.		A		Cutoff Allow. B		E		J Hex
		inch	mm	inch	mm	inch	mm	inch	mm	inch
1J256-8-8	13/16-16	1/2	13	2.84	72	1-11/16	43	.43	11	15/16

1J556 Female Seal-Lok™ Swivel 90° Elbow Medium Drop ISO 12151-1-SWEM90



Construction: Steel. Add "C" for Stainless Steel.

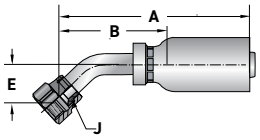
Part Number	Thread Size	Hose I.D.		A		Cutoff Allow. B		E		J Hex
		inch	mm	inch	mm	inch	mm	inch	mm	inch
1J556-4-3	9/16-18	3/16	5	1.89	48	1-3/16	30	1.26	32	11/16
1J556-4-4	9/16-18	1/4	6	2.14	53	1-1/8	28	1.26	32	11/16
1J556-6-4	11/16-16	1/4	6	2.14	55	1-3/16	30	1.50	38	13/16
1J556-6-5	11/16-16	5/16	8	2.28	58	1-1/4	32	1.50	38	13/16
1J556-6-6	11/16-16	3/8	10	2.42	61	1-7/16	36	1.50	38	13/16
1J556-8-6	13/16-16	3/8	10	2.22	56	1-1/4	32	1.61	41	15/16
1J556-8-8	13/16-16	1/2	13	2.48	63	1-3/8	35	1.61	41	15/16
1J556-10-8	1-14	1/2	13	2.48	63	1-3/8	35	1.85	47	1-1/8
1J556-10-10	1-14	5/8	16	2.83	72	1-1/2	38	1.85	47	1-1/8
1J556-12-12	1-3/16-12	3/4	19	3.59	91	2-1/4	57	2.28	58	1-3/8
1J556-16-16	1-7/16-12	1	25	4.36	111	2-1/2	63	2.80	71	1-5/8

⚠ WARNING
This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Updated August 6, 2025

Fittings - Permanent Crimp
56 Series

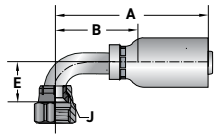
1J756 Female Seal-Lok™ Swivel 45° Elbow ISO 12151-1-SWE45



Construction: Steel. Add "C" for Stainless Steel.

Part Number	Thread Size	Hose I.D.		A		Cutoff Allow. B		E		J Hex
		inch	mm	inch	mm	inch	mm	inch	mm	inch
1J756-4-2	9/16-18	1/8	3	2.07	53	1-7/16	36	0.39	10	11/16
1J756-4-3	9/16-18	3/16	5	2.00	51	1-5/16	33	.39	10	11/16
1J756-4-4	9/16-18	1/4	6	2.25	57	1-1/4	32	.39	10	11/16
1J756-6-4	11/16-16	1/4	6	2.27	58	1-5/16	33	.43	11	13/16
1J756-6-5	11/16-16	5/16	8	2.32	59	1-3/8	35	.43	11	13/16
1J756-4-6	9/16-18	3/8	10	2.25	57	1-1/4	32	.39	10	11/16
1J756-6-6	11/16-16	3/8	10	2.35	60	1-3/8	35	.43	11	13/16
1J756-8-6	13/16-16	3/8	10	2.54	65	1-9/16	40	.59	15	15/16
1J756-8-8	13/16-16	1/2	13	2.72	69	1-5/8	41	.59	15	15/16
1J756-10-10	1-14	5/8	16	3.27	83	2	50	.63	16	1-1/8
1J756-12-12	1-3/16-12	3/4	19	4.03	102	2-11/16	68	.83	21	1-3/8
1J756-16-16	1-7/16-12	1	25	4.53	115	2.63	67	.94	24	1-5/8

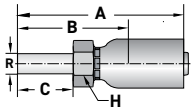
1J956 Female Seal-Lok™ Swivel 90° Elbow Short Drop ISO 12151-1-SWE90



Construction: Steel. Add "C" for Stainless Steel.

Part Number	Thread Size	Hose I.D.		A		Cutoff Allow. B		E		J Hex
		inch	mm	inch	mm	inch	mm	inch	mm	inch
1J956-4-2	9/16-18	1/8	3	2.04	52	1-7/16	36	0.83	21	11/16
1J956-4-3	9/16-18	3/16	5	1.89	48	1-3/16	30	.83	21	11/16
1J956-4-4	9/16-18	1/4	6	2.09	53	1-1/8	28	.83	21	11/16
1J956-6-4	11/16-16	1/4	6	2.14	55	1-3/16	30	.91	23	13/16
1J956-6-5	11/16-16	5/16	8	2.28	58	1-1/4	32	.91	23	13/16
1J956-6-6	11/16-16	3/8	10	2.22	56	1-1/4	32	.91	23	13/16
1J956-8-6	13/16-16	3/8	10	2.22	56	1-1/4	32	1.14	29	15/16
1J956-8-8	13/16-16	1/2	13	2.48	63	1-3/8	35	1.14	29	15/16
1J956-10-8	1-14	1/2	13	2.78	71	1-11/16	35	1.26	32	1-1/8
1J956-10-10	1-14	5/8	16	3.14	80	1-13/16	46	1.26	32	1-1/8
1J956-12-12	1-3/16-12	3/4	19	3.89	99	2-9/16	65	1.89	48	1-3/8
1J956-16-16	1-7/16-12	1	25	4.66	118	2-3/4	70	2.20	56	1-5/8

1TU56 Universal Inch Tube Stub End



Construction: Steel. Add "C" for Stainless Steel.

Part Number	Diameter R	Hose I.D.		A		Cutoff Allow. B		C		H Hex
		inch	mm	inch	mm	inch	mm	inch	mm	inch
1TU56-4-4	1/4	1/4	6	2.35	60	1-3/8	35	.72	18	11/16
1TU56-6-4	3/8	1/4	6	2.41	61	1-7/16	36	.78	20	15/16
1TU56-6-6	3/8	3/8	10	2.46	62	1-7/16	36	.78	20	1-1/8
1TU56-8-8	1/2	1/2	13	2.68	68	1-9/16	40	1.03	26	1-1/8
1TU56-12-12	3/4	3/4	19	2.88	73	1-9/16	40	1.03	26	1-3/8
1TU56-16-16	1	1	25	4.03	102	1-7/8	48	1.03	26	1-5/8

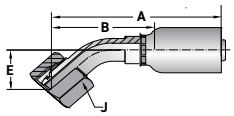
⚠ WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Updated August 6, 2025

Fittings - Permanent Crimp
56 Series

10C56 – Metric Female Swivel 24° With O-ring 45° Elbow Heavy Series ISO 12151-2

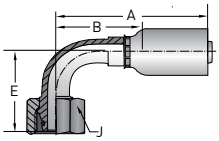


Construction: Steel. Add "C" for Stainless Steel.

Part Number	Thread Size	Hose I.D.		A		Cutoff Allow. B		E		J Hex
		mm	inch	mm	inch	mm	inch	mm	inch	mm
10C56-6-3	M14x1.5	5	3/16	58	2.28	40	1.57	16	0.63	17
10C56-8-3	M16x1.5	5	3/16	59	2.32	41	1.61	18	0.71	19
10C56-10-4	M18x1.5	6	1/4	64	2.52	40	1.57	17	0.67	22
10C56-12-5	M20x1.5	8	5/16	69	2.72	43	1.69	17	0.67	24
10C56-12-6	M20x1.5	10	3/8	75	2.95	49	1.93	20	0.79	24
10C56-16-8	M24x1.5	13	1/2	80	3.15	51	2.01	23	0.91	30

NOTE: Nitrile O-ring.

11C56 – Metric Female Swivel 24° With O-ring 90° Elbow Heavy Series ISO 12151-2

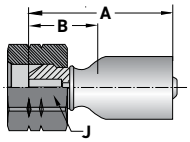


Construction: Steel. Add "C" for Stainless Steel.

Part Number	Thread Size	Hose I.D.		A		Cutoff Allow. B		E		J Hex
		mm	inch	mm	inch	mm	inch	mm	inch	mm
11C56-8-3	M16x1.5	5	3/16	48	1.89	30	1.18	29	1.14	19
11C56-10-4	M18x1.5	6	1/4	53	2.09	29	1.14	32	1.26	22
11C56-12-5	M20x1.5	8	5/16	65	2.56	39	1.54	34	1.34	24
11C56-12-6	M20x1.5	10	3/8	63	2.48	38	1.5	37	1.46	24
11C56-16-8	M24x1.5	13	1/2	68	2.68	40	1.57	45	1.77	30

NOTE: Nitrile O-ring.

19256 Female BSP Parallel Pipe Swivel Straight (60° Cone)



Construction: Steel. Add "C" for Stainless Steel.

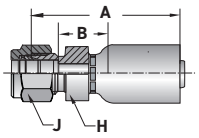
Part Number	Thread Size	Hose I.D.		A		Cutoff Allow. B		J Hex
		mm	inch	mm	inch	mm	inch	mm
19256-4-3	G 1/4	5	3/16	35	1.38	17	0.67	19
19256-2-4	G 1/8	6	1/4	43	1.69	18	0.71	14
19256-4-4	G 1/4	6	1/4	42	1.65	17	0.67	19
19256-6-4	G 3/8	6	1/4	45	1.77	20	0.79	22
19256-4-5	G 1/4	8	5/16	47	1.85	21	0.83	19
19256-6-5	G 3/8	8	5/16	46	1.81	20	0.79	22
19256-6-6	G 3/8	10	3/8	46	1.81	21	0.83	22
19256-8-6	G 1/2	10	3/8	48	1.77	23	0.91	27
19256-6-8	G 3/8	13	1/2	53	2.09	25	0.98	22
19256-8-8	G 1/2	13	1/2	51	2.01	23	0.91	27
19256-10-8	G 5/8	13	1/2	49	1.93	22	0.87	30
19256-12-12	G 3/4	19	3/4	60	2.36	26	1.02	32
19256-16-16	G 1	25	1	74	2.91	26	1.02	41

⚠ WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Fittings - Permanent Crimp
56 Series

1AL56 A-LOK® Compression (With Nut and Ferrule)



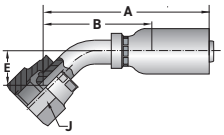
Construction: 316 Stainless nipple and shell.

Part Number	Thread Size	Hose I.D.		A		Cutoff Allow. B		H Hex	J Hex
		inch	mm	inch	mm	inch	mm	inch	inch
1AL56-4-4C	7/16-20	1/4	6	1.91	49	5/16	8	9/16	9/16
1AL56-6-6C	9/16-20	3/8	10	2.09	53	3/8	10	11/16	11/16
1AL56-8-8C	3/4-20	1/2	13	2.21	56	1/2	13	7/8	7/8

For hose assembly overall length (OAL), measure to A-LOK® tube stop and not the end of the fitting

Note: Nuts and ferrules are manufactured by Parker Instrumentation Products Division.
Reference catalog 4230/4233 for parts: Nut - XNUX-316, Ferrule: XFFX-316 and XBFX-316. "X" Denotes dash size

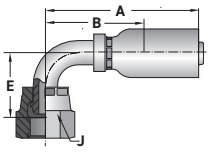
1B156 – Female BSP Parallel Pipe Swivel 45° Elbow (60° Cone) ISO 228-1



Construction: Steel. Add "C" for Stainless Steel.

Part Number	Thread Size	Hose I.D.		A		Cutoff Allow. B		E		J Hex
		mm	inch	mm	inch	mm	inch	mm	inch	mm
1B156-4-3	G 1/4	5	3/16	57	2.24	15	0.59	39	1.542	19
1B156-4-4	G 1/4	6	1/4	62	2.44	15	0.59	38	1.5	19
1B156-6-5	G 3/8	8	5/16	65	2.56	17	0.67	39	1.54	22
1B156-6-6	G 3/8	10	3/8	67	2.64	17	0.67	42	1.65	22
1B156-8-8	G 1/2	13	1/2	77	3.03	20	0.79	48	1.89	27
1B156-12-12	G 3/4	19	3/4	99	3.9	25	1	65	2.56	32
1B156-16-16	G 1	25	1	127	5	31	1.22	79	3.11	41

1B256 – Female BSP Parallel Pipe Swivel 90° Elbow (60° Cone) ISO 228-1



Construction: Steel. Add "C" for Stainless Steel.

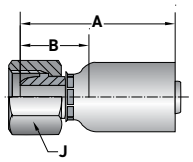
Part Number	Thread Size	Hose I.D.		A		Cutoff Allow. B		E		J Hex
		mm	inch	mm	inch	mm	inch	mm	inch	mm
1B256-4-3	G 1/4	5	3/16	48	1.89	28	1.10	30	1.18	19
1B256-4-4	G 1/4	6	1/4	53	2.09	28	1.10	29	1.14	19
1B256-4-5	G 1/4	8	5/16	56	2.20	34	1.34	30	1.18	19
1B256-6-5	G 3/8	8	5/16	55	2.16	30	1.18	30	1.18	22
1B256-6-6	G 3/8	10	3/8	60	2.36	33	1.30	31	1.22	22
1B256-8-8	G 1/2	13	1/2	70	2.76	40	1.57	42	1.65	27
1B256-12-12	G 3/4	19	3/4	92	3.62	52	2.05	58	2.28	32
1B256-16-16	G 1	25	1	125	4.92	68	2.68	77	3.03	41

⚠ WARNING
This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Updated August 6, 2025

Fittings - Permanent Crimp
56 Series

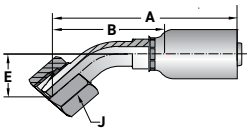
1C356 – Metric Female Swivel Nut Light Series, 24°/60°



Construction: Steel. Add "C" for Stainless Steel.

Part Number	Thread Size	Hose I.D.		A		Cutoff Allow. B		J Hex
		mm	inch	mm	inch	mm	inch	mm
1C356-6-3	M12x1.5	5	3/16	37	1.46	20	0.79	14
1C356-8-4	M14x1.5	6	1/4	44	1.73	20	0.79	17
1C356-10-4	M16x1.5	6	1/4	45	1.77	21	0.83	19
1C356-10-5	M16x1.5	8	5/16	46	1.81	20	0.79	19
1C356-12-5	M18x1.5	8	5/16	47	1.85	21	0.83	22
1C356-10-6	M16x1.5	10	3/8	46	1.81	21	0.83	19
1C356-12-6	M18x1.5	10	3/8	47	1.85	21	0.83	22
1C356-15-6	M22x1.5	10	3/8	46	1.81	21	0.83	27
1C356-15-8	M22x1.5	13	1/2	50	1.97	21	0.83	27
1C356-18-10	M26x1.5	16	5/8	57	2.24	25	0.98	32
1C356-18-12	M26x1.5	19	3/4	58	2.28	24	0.94	32
1C356-22-12	M30x2	19	3/4	60	2.36	27	1.06	36

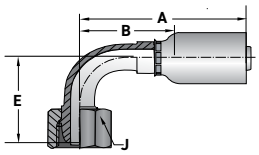
1C456 – Metric Female Swivel 45° Elbow Light Series, 24°/60°



Construction: Steel. Add "C" for Stainless Steel.

Part Number	Thread Size	Hose I.D.		A		Cutoff Allow. B		E		J Hex
		mm	inch	mm	inch	mm	inch	mm	inch	mm
1C456-6-3	M12x1.5	5	3/16	57	2.24	40	1.57	16	0.63	14
1C456-8-4	M14x1.5	6	1/4	60	2.36	36	1.42	14	0.55	17
1C456-10-5	M16x1.5	8	5/16	62	2.44	37	1.46	15	0.59	19
1C456-10-6	M16x1.5	10	3/8	67	2.64	41	1.61	17	0.67	19
1C456-12-6	M18x1.5	10	3/8	72	2.83	47	1.85	18	0.71	22
1C456-15-8	M22x1.5	13	1/2	76	2.99	48	1.89	19	0.75	27

1C556 – Metric Female Swivel 90° Elbow Light Series, 24°/60°



Construction: Steel. Add "C" for Stainless Steel.

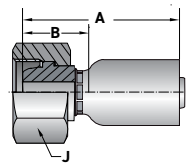
Part Number	Thread Size	Hose I.D.		A		Cutoff Allow. B		E		J Hex
		mm	inch	mm	inch	mm	inch	mm	inch	mm
1C556-6-3	M12x1.5	5	3/16	48	1.89	30	1.18	30	1.18	14
1C556-8-4	M14x1.5	6	1/4	53	2.09	28	1.10	26	1.02	17
1C556-10-4	M16x1.5	6	1/4	53	2.09	28	1.10	27	1.06	19
1C556-12-5	M18x1.5	8	5/16	58	2.28	33	1.30	34	1.34	22
1C556-10-6	M16x1.5	10	3/8	63	2.48	38	1.50	33	1.30	19
1C556-12-6	M18x1.5	10	3/8	63	2.48	38	1.50	34	1.34	22
1C556-15-8	M22x1.5	13	1/2	72	2.83	44	1.73	39	1.54	27
1C556-18-12	M26x1.5	19	3/4	87	3.43	53	2.09	52	2.05	32

⚠ WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Fittings - Permanent Crimp
56 Series

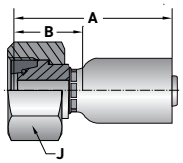
1C656 – Female Metric Swivel DIN 20078 Heavy Series (Without O-ring) ISO 8434-1



Construction: 316 Stainless nipple and shell.

Part Number	Thread Size	Hose I.D.		A		Cutoff Allow. B		J Hex
		inch	mm	inch	mm	inch	mm	inch
1C656-8-3	M16x1.5	5	3/16	38	1.50	20	0.79	19
1C656-10-4	M18x1.5	6	1/4	47	1.85	22	0.87	22
1C656-12-5	M20x1.5	8	5/16	50	1.97	24	0.94	24
1C656-12-6	M20x1.5	10	3/8	49	1.93	24	0.94	24
1C656-14-6	M22x1.5	10	3/8	49	1.93	23	0.89	27
1C656-16-8	M24x1.5	10	1/2	53	2.09	25	0.98	30
1C656-20-12	M30x2	13	3/4	61	2.40	27	1.06	36

1C956 – Female Metric Swivel DIN 20078 Heavy Series (With O-ring) ISO 12151-2-SWS



Construction: Steel. Add "C" for Stainless Steel.

Part Number	Thread Size	Hose I.D.		A		Cutoff Allow. B		E		J Hex
		mm	inch	mm	inch	mm	inch	mm	inch	mm
1C956-8-3	M16x1.5	5	3/16	41	1.61	23	0.91	19	1.542	19
1C956-8-4	M16x1.5	6	1/4	48	1.89	23	0.91	19	1.5	19
1C956-10-4	M18x1.5	6	1/4	48	1.89	23	0.91	22	1.54	22
1C956-12-4	M20x1.5	6	1/4	48	1.89	24	0.94	24	1.65	22
1C956-10-5	M18x1.5	8	5/16	49	1.93	23	0.91	22	1.5	19
1C956-12-5	M20x1.5	8	5/16	50	1.97	24	0.94	24	1.54	22
1C956-12-6	M20x1.5	10	3/8	49	1.93	24	0.94	24	1.65	22
1C956-14-6	M22x1.5	10	3/8	49	1.93	24	0.94	27	1.5	19
1C956-16-8	M24x1.5	10	1/2	56	2.17	27	1.06	30	1.54	22
1C956-20-12	M30x2	19	3/4	65	2.56	31	1.22	36	1.65	22
1C956-25-12	M36x2	19	3/4	66	2.6	32	1.3	46	3.11	41

NOTE: Nitrile O-ring.

⚠ WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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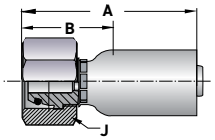
Fittings - Permanent Crimp
56 Series

1CA56 – Metric Female Swivel 24° With O-ring Light Series ISO 12151-2-SWS

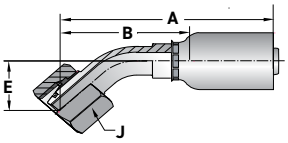


Construction: Steel. Add "C" for Stainless Steel.

Part Number	Thread Size	Hose I.D.		A		Cutoff Allow. B		J Hex
		mm	inch	mm	inch	mm	inch	mm
1CA56-6-3	M12x1.5	5	3/16	40	1.57	22	0.87	14
1CA56-6-4	M12x1.5	6	1/4	48	1.89	24	0.94	14
1CA56-8-4	M14x1.5	6	1/4	47	1.85	23	0.91	17
1CA56-10-4	M16x1.5	6	1/4	47	1.85	22	0.87	19
1CA56-12-4	M18x1.5	6	1/4	47	1.85	22	0.87	22
1CA56-10-5	M16x1.5	8	5/16	48	1.89	22	0.87	19
1CA56-12-5	M18x1.5	8	5/16	48	1.89	22	0.87	22
1CA56-10-6	M16x1.5	10	3/8	48	1.89	22	0.87	19
1CA56-12-6	M18x1.5	10	3/8	48	1.89	22	0.87	22
1CA56-15-6	M22x1.5	10	3/8	50	1.97	25	0.98	27
1CA56-12-8	M18x1.5	13	1/2	53	2.09	27	1.06	22
1CA56-15-8	M22x1.5	13	1/2	53	2.09	25	0.98	27
1CA56-18-8	M26x1.5	13	1/2	53	2.09	25	0.98	32
1CA56-18-10	M26x1.5	16	5/8	60	2.36	26	1.02	32
1CA56-18-12	M26x1.5	19	3/4	60	2.36	26	1.02	32
1CA56-22-12	M30x2	19	3/4	62	2.44	28	1.10	36
1CA56-28-16	M36x2	25	1	77	3.03	28	1.10	41

NOTE: Nitrile O-ring.

1CE56 – Metric Female Swivel 24° With O-ring 45° Elbow Light Series ISO 12151-2-SWE45



Construction: Steel. Add "C" for Stainless Steel.

Part Number	Thread Size	Hose I.D.		A		Cutoff Allow. B		E		J Hex
		mm	inch	mm	inch	mm	inch	mm	inch	mm
1CE56-6-3	M12x1.5	5	3/16	58	2.28	40	1.57	17	0.67	14
1CE56-8-4	M14x1.5	6	1/4	65	2.56	40	1.57	18	0.71	17
1CE56-10-4	M16x1.5	6	1/4	62	2.44	38	1.50	16	0.63	19
1CE56-10-5	M16x1.5	8	5/16	72	2.83	46	1.81	18	0.71	19
1CE56-10-6	M16x1.5	10	3/8	75	2.95	50	1.97	19	0.75	19
1CE56-12-6	M18x1.5	10	3/8	73	2.87	48	1.89	19	0.75	22
1CE56-15-8	M22x1.5	13	1/2	78	3.07	50	1.97	22	0.87	27
1CE56-18-10	M26x1.5	16	5.8	89	3.50	56	2.20	24	0.94	32
1CE56-18-12	M26x1.5	19	3/4	101	3.74	67	2.64	27	1.06	32
1CE56-22-12	M30x2	19	3/4	100	3.94	66	2.60	26	1.02	36
1CE56-28-16	M36x2	25	1	133	5.27	85	3.35	33	1.30	41

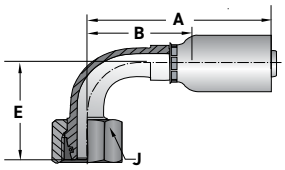
NOTE: Nitrile O-ring.

⚠ WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Fittings - Permanent Crimp
56 Series

1CF56 – Metric Female Swivel 24° With O-ring 90° Elbow Light Series ISO 12151-2-SWE90

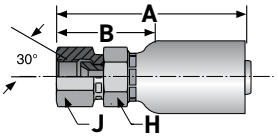


Construction: Steel. Add "C" for Stainless Steel.

Part Number	Thread Size	Hose I.D.		A		Cutoff Allow. B		E		J Hex
		mm	inch	mm	inch	mm	inch	mm	inch	mm
1CF56-6-3	M12x1.5	5	3/16	48	1.89	30	1.18	30	1.18	14
1CF56-6-4	M12x1.5	6	1/6	53	2.09	29	1.14	33	1.3	14
1CF56-8-4	M14x1.5	6	1/6	55	2.17	30	1.18	29	1.14	17
1CF56-10-4	M16x1.5	6	1/6	55	2.17	31	1.22	29	1.14	17
1CF56-10-5	M16x1.5	8	5/16	66	2.6	40	1.57	29	1.14	19
1CF56-12-5	M18x1.5	8	5/16	65	2.56	40	1.57	30	1.18	22
1CF56-10-6	M16x1.5	10	3/8	64	2.52	39	1.54	37	1.46	19
1CF56-12-6	M18x1.5	10	3/8	63	2.48	38	1.5	35	1.38	22
1CF56-15-8	M22x1.5	13	1/2	68	2.68	40	1.57	43	1.69	27
1CF56-18-10	M26x1.5	16	5/8	79	3.11	45	1.77	52	2.05	32
1CF56-22-12	M30x2	19	3/4	91	3.58	57	2.24	55	2.17	36
1CF56-28-16	M36x2	25	1	122	50	74	2.91	71	2.8	41

NOTE: Nitrile O-ring.

1FU56 – (JIS) /BSP 30° Flare Swivel Female



Construction: Steel. Add "C" for Stainless Steel.

Part Number	Thread Size	Hose I.D.		A		Cutoff Allow. B		H Hex	J Hex
		inch	mm	inch	mm	inch	mm	mm	mm
1FU56-4-4	G 1/4-19	1/4	6	2.19	56	1 1/4	31	19	19
1FU56-6-6	G 3/8-19	3/8	10	2.36	60	1 3/8	35	22	22
1FU56-8-8	G 1/2-14	1/2	13	2.68	68	1 9/16	40	27	27
1FU56-12-12	G 3/4-14	3/4	19	3.02	77	1 11/16	43	36	36
1FU56-16-16	G 1-11	1	25	3.76	96	1 7/8	48	41	41

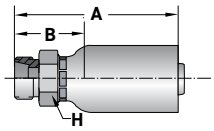
⚠ WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Updated August 6, 2025

Fittings - Permanent Crimp
56 Series

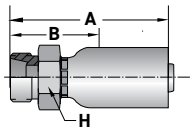
1D056 - Male Stud DIN 20078 Light Series ISO 8434-1



Construction: Steel. Add "C" for Stainless Steel.

Part Number	Thread Size	Hose I.D.		A		Cutoff Allow. B		H Hex
		mm	inch	mm	inch	mm	inch	mm
1D056-6-3	M12x1.5	5	3/16	41	1.61	23	0.91	12
1D056-6-4	M12x1.5	6	1/4	48	1.89	23	0.91	12
1D056-8-4	M14x1.5	6	1/4	47	1.85	23	0.91	14
1D056-10-5	M16x1.5	8	5/16	50	1.97	24	0.94	17
1D056-12-5	M18x1.5	8	5/16	52	2.05	26	1.02	19
1D056-10-6	M16x1.5	10	3/8	50	1.97	24	0.94	17
1D056-12-6	M18x1.5	10	3/8	50	1.97	24	0.94	19
1D056-15-6	M22x1.5	10	3/8	52	2.05	27	1.06	22
1D056-15-8	M22x1.5	13	1/2	55	2.16	27	1.06	22
1D056-18-10	M26x1.5	16	5/8	64	2.52	30	1.18	27
1D056-22-12	M30x2	19	3/4	68	2.68	34	1.34	30
1D056-28-16	M36x2	25	1	82	3.23	34	1.34	36

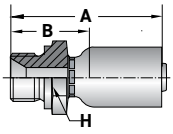
1D256 - Metric Male Stud 24° Heavy Series ISO 12151-2



Construction: Steel. Add "C" for Stainless Steel.

Part Number	Thread Size	Hose I.D.		A		Cutoff Allow. B		H Hex
		mm	inch	mm	inch	mm	inch	mm
1D256-8-3	M16x1.5	5	3/16	42	1.65	25	0.98	12
1D256-10-4	M18x1.5	6	1/4	52	2.05	27	1.06	12
1D256-10-5	M18x1.5	8	5/16	53	2.09	27	1.06	14
1D256-12-5	M20x1.5	8	5/16	53	2.09	27	1.06	17
1D256-12-6	M20x1.5	10	3/8	53	2.09	27	1.06	19
1D256-14-6	M22x1.5	10	3/8	57	2.24	31	1.22	17
1D256-16-6	M24x1.5	10	3/8	57	2.24	31	1.22	19
1D256-16-8	M24x1.5	13	1/2	60	2.36	31	1.22	22
1D256-20-12	M30x2	19	3/4	72	2.83	38	1.50	22

1D956 Male BSPP - Straight (60° Cone) ISO 228-1



Construction: Steel. Add "C" for Stainless Steel.

Part Number	Thread Size	Hose I.D.		A		Cutoff Allow. B		H Hex
		mm	inch	mm	inch	mm	inch	mm
1D956-4-3	G 1/4	5	3/16	44	1.73	27	1.06	19
1D956-4-4	G 1/4	6	1/4	52	2.05	27	1.06	19
1D956-6-5	G 3/8	8	5/16	53	2.09	27	1.06	22
1D956-6-6	G 3/8	10	3/8	53	2.09	28	1.10	22
1D956-8-8	G 1/2	13	1/2	60	2.36	32	1.26	27
1D956-12-12	G 3/4	19	3/4	75	2.95	41	1.61	32
1D956-16-16	G 1	25	1	91	3.58	42	1.65	41

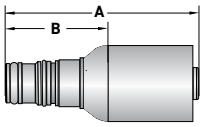
⚠ WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Fittings - Permanent Crimp

56 Series Rapid Assembly

1WU56 Male Rapid Assembly Straight

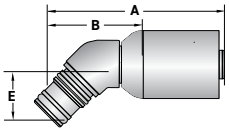


Part Number	Stem O.D.		Hose I.D.		A		Cutoff Allow. B	
	inch	mm	inch	mm	inch	mm	inch	mm
1WU56-4-4	1/4	6	1/4	6	2.18	55	1-1/8	29
1WU56-6-6	3/8	10	3/8	10	2.30	58	1-3/16	30

NOTE: Use with mating adapter PN 685RA.

Construction: Steel. Nitrile O-ring.

1WW56 Male Rapid Assembly 45º Elbow

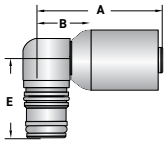


Part Number	Stem O.D.		Hose I.D.		A		Cutoff Allow. B		E	
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
1WW56-4-4	1/4	6	1/4	6	2.31	59	1-5/16	33	0.67	17
1WW56-6-6	3/8	10	3/8	10	2.35	60	1-3/8	35	0.67	17

NOTE: Use with mating adapter PN 685RA.

Construction: Steel. Nitrile O-ring.

1WY56 Male Rapid Assembly 90º Elbow

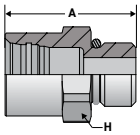


Part Number	Stem O.D.		Hose I.D.		A		Cutoff Allow. B		E	
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
1WY56-4-4	1/4	6	1/4	6	1.60	41	5/8	16	0.90	23
1WY56-6-6	3/8	10	3/8	10	1.66	42	5/8	16	1.01	26

NOTE: Use with mating adapter PN 685RA.

Construction: Steel. Nitrile O-ring.

685RA Adapter Female Rapid Assembly - Male SAE Straight Thread ORB



Part Number	Stem O.D.		Thread Size	A		H Hex
	inch	mm		inch	mm	inch
685RA-4-4	1/4	6	7/16-20	1.05	27	11/16
685RA-6-4	3/8	10	7/16-20	1.15	29	3/4
685RA-4-6	1/4	6	9/16-18	1.12	28	3/4
685RA-6-6	3/8	10	9/16-18	1.15	29	3/4

Construction: Steel. Nitrile O-ring.

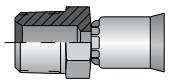
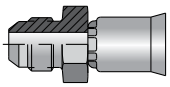
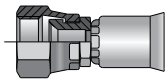
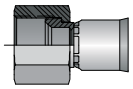
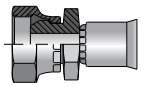
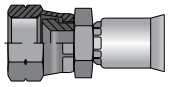
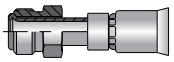
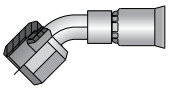
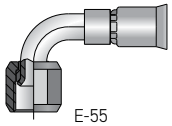
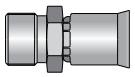
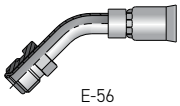
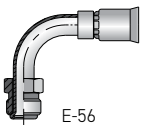
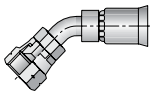
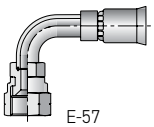
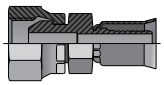
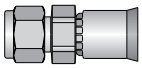
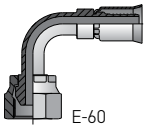
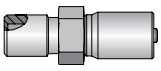
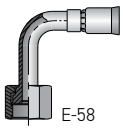
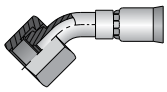
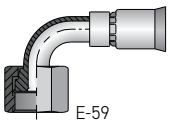
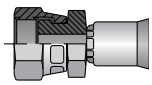
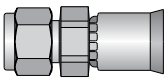
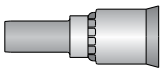
⚠ WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

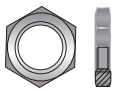
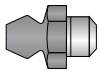
Tel: +45 63 12 83 00 | Email: ps@hymatik.com | www.hymatik.com | Hvidkaervej 27a, DK-5250 Odense SV, Denmark

Fittings - Permanent Crimp
91N Series

91 Series Permanent

101 Male Taper Pipe Rigid	103 Male JIC 37°	106 JIC 37° Female Swivel	106RD SAE JIC 37° Swivel	107 Female Pipe Swivel
 E-52	 E-52	 E-52	 E-53	 E-53
108 Female SAE 45° Swivel	**128** Male Inverted Swivel Straight	**134** Straight Tube	**137** Female JIC 37° Swivel 45° Elbow	**139** FM JIC 37° Swivel 90° Elbow Short
 E-53	 E-54	 E-54	 E-54	 E-55
141 Female JIC 37° Swivel 90° Elb Long	**161** Compression Air Brake	**167** Male Inverted Swivel 45° Elbow	**169** Male Inverted Swivel 90° Elbow	**177** SAE 45° Swivel 45° Elbow
 E-55	 E-55	 E-56	 E-56	 E-56
179 SAE 45° Swivel 90° Elbow	**192** FM BSP Pipe Swivel - Str. (60° Cone)	**1AL** A-Lok® Compression	**1B2** FM BSP Pipe Swivel 90° Elb. (60° Cone)	**1GK** Bulkhead w/Zerk Port Integrated
 E-57	 E-60	 E-57	 E-60	 E-60
1J1 Female Seal-Lok™ 90° Elbow Long	**1J7** Female Seal-Lok™ 45° Elbow	**1J9** Female Seal-Lok™ 90° Elbow Short	**1JC** Female Seal-Lok™ Swivel Straight	**1P6** CPI® Compression w/nut and ferrule
 E-58	 E-58	 E-59	 E-59	 E-57
1TU Universal Tube Stub				
 E-59				

1GK91N Options

Nut 2GK-Nut	Zerk NA-6520
 E-60	 E-60

⚠ WARNING

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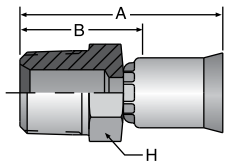
Updated August 6, 2025

Fittings - Permanent Crimp
91N Series

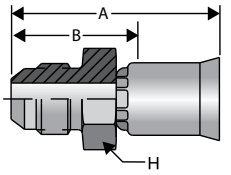
10191N Male Taper Pipe Rigid



Construction: Brass nipple, steel shell. Add "C" for Stainless Steel.

Part Number	Thread Size	Hose Size	A		Cutoff Allow. B		H Hex
		inch	inch	mm	inch	mm	inch
10191N-2-4	1/8-27	-4	1.27	32	3/4	19	7/16
10191N-4-4	1/4-18	-4	1.50	38	15/16	24	9/16
10191N-4-5	1/4-18	-5	1.55	39	15/16	24	9/16
10191N-4-6	1/4-18	-6	1.60	41	15/16	24	9/16
10191N-6-6	3/8-18	-6	1.65	58	1	25	11/16
10191N-6-8	3/8-18	-8	1.71	43	1	25	11/16
10191N-8-8	1/2-14	-8	1.94	49	1-1/4	32	7/8
10191N-8-10	1/2-14	-10	1.96	50	1-1/4	32	7/8
10191N-8-12	1/2-14	-12	2.42	61	1-1/4	32	1
10191N-12-12	3/4-14	-12	2.19	56	1-3/8	35	1-1/8
10191N-16-16	1-11-1/2	-16	2.46	62	1-1/2	38	1-3/8
10191-20-20	1-1/4-11-1/2	-20	3.05	77	2-1/16	52	1-3/4

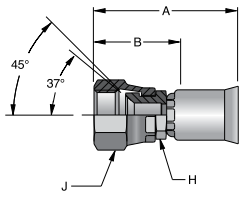
10391N Male (JIC) 37°



Construction: Steel nipple, steel shell. Add "C" for Stainless Steel.

Part Number	Thread Size	Hose Size	A		Cutoff Allow. B		H Hex
		inch	inch	mm	inch	mm	inch
10391N-4-4	7/16-20	-4	1.37	35	13/16	21	1/2
10391N-6-6	9/16-18	-6	1.64	42	1	25	11/16
10391N-8-8	3/4-16	-8	1.79	35	1-1/8	29	7/8
10391N-8-6	3/4-16	-6	1.73	44	1-1/16	27	7/8
10391N-10-10	7/8-14	-10	2.07	53	1-3/8	35	1
10391N-12-12	1-1/16-12	-12	2.10	53	1-5/16	33	1-1/8
10391N-16-16	1-5/16-12	-16	2.43	62	1-1/2	38	1-3/8

10691N Female SAE (JIC) 37° Swivel



Construction: Brass nipple, steel nut and shell. Add "S" for Steel nipple, nut and shell. Add "C" for Stainless Steel.

Part Number	Thread Size	Hose Size	A		Cutoff Allow. B		H Hex	J Hex
		inch	inch	mm	inch	mm	inch	inch
10691N-4-4	7/16-20	-4	1.47	37	7/8	22	3/8	9/16
10691N-5-5	1/2-20	-5	1.60	41	1	25	7/16	5/8
10691N-6-6	9/16-18	-6	1.66	42	1	25	1/2	11/16
10691N-6-8	9/16-18	-8	1.72	44	1	25	9/16	11/16
10691N-8-8	3/4-16	-8	1.89	48	1-3/16	30	11/16	7/8
10691N-8-10	3/4-16	-10	1.86	58	1-1/8	29	3/4	7/8
10691N-10-10	7/8-14	-10	2.03	52	1-5/16	33	13/16	1
10691N-12-12	1-1/16-12	-12	2.18	55	1-3/8	35	1	1-1/4
10691N-16-16	1-5/16-12	-16	2.45	62	1-9/16	40	1-1/4	1-1/2
10691-20-20	1-5/8-12	-20	2.58	65	1-9/16	40	1-11/16	2

NOTE: Size -4, -5,-8 and -10 incorporate a dual seat.

⚠ WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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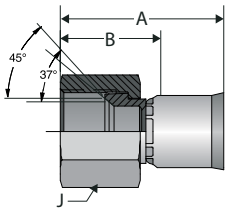
Fittings - Permanent Crimp
91N Series

10691NRD SAE (JIC) 37° Swivel

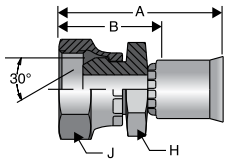


Construction: Brass nipple, steel nut and shell. Add "C" for Stainless Steel.

Part Number	Thread Size	Hose Size	A		Cutoff Allow. B		J Hex
		inch	inch	mm	inch	mm	inch
10691N-4-4-RD	7/16-20	-4	1.34	34	13/16	21	9/16
10691N-5-5-RD	1/2-20	-5	1.52	39	15/16	24	5/8
10691N-6-6-RD	9/16-18	-6	1.61	41	1	25	11/16
10691N-8-8-RD	3/4-16	-8	1.77	45	1-1/16	27	7/8
10691N-10-10-RD	7/8-14	-10	1.91	49	1-3/16	30	1
10691N-12-12-RD	1-1/16-12	-12	2.09	52	1-5/16	33	1-1/4
10691N-16-16-RD	1-5/16-12	-16	2.30	58	1-3/8	35	1-1/2

NOTE: Size -4, -5,-8 and -10 incorporate a dual seat.

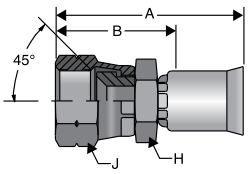
10791N Female Pipe Swivel



Construction: Brass nipple, steel nut and shell. Add "C" for Stainless Steel.

Part Number	Thread Size	Hose Size	A		Cutoff Allow. B		H Hex	J Hex
		inch	inch	mm	inch	mm	inch	inch
10791N-4-4	1/4-18	-4	1.54	39	1	25	9/16	11/16
10791N-6-6	3/8-18	-6	1.59	40	15/16	24	5/8	7/8
10791N-8-8	1/2-14	-8	1.83	46	1-1/8	29	3/4	1
10791N-12-12	3/4-14	-12	2.09	53	1-5/16	33	1	1-1/4
10791N-16-16	1-11-1/2	-16	2.35	59	1-7/16	33	1-3/16	1-1/2

10891N SAE 45° Swivel



Construction: Brass nipple, steel nut and shell. Add "C" for Stainless Steel.

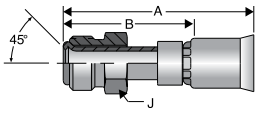
Part Number	Thread Size	Hose Size	A		Cutoff Allow. B		H Hex	J Hex
		inch	inch	mm	inch	mm	inch	inch
10891N-6-6	5/8-18	-6	1.74	44	1-1/8	29	5/8	3/4
10891N-12-12	1-1/16-14	-12	2.18	55	1-3/8	35	1	1-1/4

⚠ WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Fittings - Permanent Crimp
91N Series

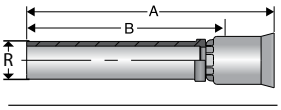
12891N Male Inverted Swivel–Straight



Construction: Steel nipple, tube, nut and shell. Add "C" for Stainless Steel.

Part Number	Thread Size	Hose Size	A		Cutoff Allow. B		J Hex
		inch	inch	mm	inch	mm	inch
12891N-4-4	7/16-24	-4	2.09	53	1-1/2	38	7/16
12891N-5-5	1/2-20	-5	2.15	55	1-9/16	40	1/2
12891N-5-6	1/2-20	-6	2.23	57	1-9/16	40	1/2
12891N-6-6	5/8-18	-6	2.23	57	1-9/16	40	5/8
12891N-8-8	3/4-18	-8	2.31	59	1-5/8	41	3/4
12891N-10-10	7/8-18	-10	2.43	58	1-3/4	44	7/8
12891N-12-12	1-1/16-16	-12	2.50	64	1-11/16	43	1-1/16

13491N Straight Tube

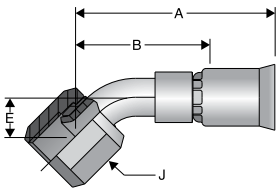


Construction: Brass nipple, steel shell.

Part Number	Hose Size	Diameter R	A		Cutoff Allow. B	
		inch	inch	mm	inch	mm
13491N-8-8	-8	1/2	2.80	71	2-1/8	54
13491N-8-10	-10	1/2	2.81	71	2-1/8	54
13491N-10-10	-10	5/8	2.96	75	2-1/4	58
13491N-12-12	-12	3/4	3.37	86	2-9/16	65

NOTE: The 16T91N fitting includes 13491N with the 60HAB sleeve and 61HAB nut.

13791N JIC 37° Swivel 45° Elbow



Construction: Steel nipple, tube, nut and shell. Add "C" for Stainless Steel.

Part Number	Thread Size	Hose Size	A		Cutoff Allow. B		E		J Hex
		inch	inch	mm	inch	mm	inch	mm	inch
13791N-4-4	7/16-20	-4	1.74	44	1-3/16	30	0.39	10	9/16
13791N-5-5	1/2-20	-5	1.87	47	1-1/4	32	0.36	9	5/8
13791N-6-6	9/16-18	-6	1.94	49	1-5/16	33	0.39	10	11/16
13791N-8-8	3/4-16	-8	2.28	58	1-9/16	37	0.55	14	7/8
13791N-10-10	7/8-14	-10	2.42	61	1-11/16	43	0.64	43	1
13791N-12-12	1-1/16-12	-12	2.83	58	2-1/16	52	0.78	20	1-1/4
13791N-16-16	1-5/16-12	-16	3.18	81	2-1/4	57	0.89	23	1-1/2
13791-20-20	1-5/8-12	-20	3.67	93	2-9/16	65	1.10	28	2

⚠ WARNING

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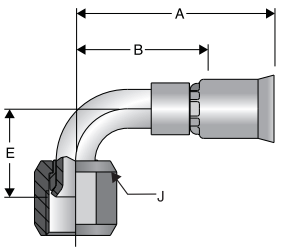
Fittings - Permanent Crimp
91N Series

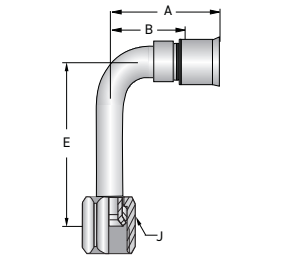
13991N JIC 37° Swivel 90° Elbow Short Drop



Construction: Steel nipple, tube, nut and shell. Add "C" for Stainless Steel.

Part Number	Thread Size	Hose Size	A		Cutoff Allow. B		E		J Hex
		inch	inch	mm	inch	mm	inch	mm	inch
13991N-4-4	7/16-20	-4	1.62	41	1-1/16	27	0.83	21	9/16
13991N-5-5	1/2-20	-5	1.73	44	1-1/8	29	0.77	20	5/8
13991N-6-6	9/16-18	-6	1.91	49	1-1/4	32	0.91	23	11/16
13991N-8-8	3/4-16	-8	2.03	52	1-5/16	33	1.09	28	7/8
13991N-10-10	7/8-14	-10	2.27	58	1-9/16	37	1.23	43	1
13991N-12-12	1-1/16-12	-12	2.75	58	1-15/16	49	1.82	46	1-1/4
13991N-16-16	1-5/16-12	-16	3.15	80	2-3/16	56	2.14	52	1-1/2
13991-20-20	1-5/8-12	-20	3.53	90	2-7/16	62	1.18	30	2

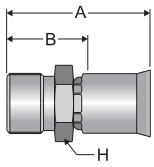
14191N JIC 37° Swivel 90° Elbow Long Drop



Construction: Steel nipple, tube, nut and shell. Add "C" for Stainless Steel.

Part Number	Thread Size	Hose Size	A		Cutoff Allow. B		E		J Hex
		inch	inch	mm	inch	mm	inch	mm	inch
14191N-4-4	7/16-20	-4	1.66	42	1-1/8	29	1.81	46	9/16
14191N-5-5	1/2-20	-5	1.72	44	1-1/8	29	1.77	45	5/8
14191N-6-6	9/16-18	-6	1.93	49	1-5/16	33	2.13	54	11/16
14191N-8-8	3/4-16	-8	2.11	54	1-3/8	35	2.52	64	7/8
14191N-10-10	7/8-14	-10	2.34	59	1-5/8	41	2.57	65	1
14191N-12-12	1-1/16-12	-12	2.63	67	1-7/8	48	3.73	95	1-1/4
14191N-16-16	1-5/16-12	-16	3.15	80	2-3/16	56	4.33	110	1-1/2
14191-20-20	1-5/8-12	-20	4.00	102	2-15/16	75	5.28	134	2

16191N Compression Air Brake



Construction: Brass nipple, steel shell.

Part Number	Thread Size	Hose Size	A		Cutoff Allow. B		H Hex
		inch	inch	mm	inch	mm	inch
16191N-8-8	11/16-20	-8	1.63	41	15/16	24	3/4
16191N-8-10	11/16-20	-10	1.65	42	15/16	24	3/4
16191N-10-10	13/16-18	-10	1.82	46	1-1/8	29	15/16
16191N-12-12	1-18	-12	1.97	50	1-3/16	30	1-1/8

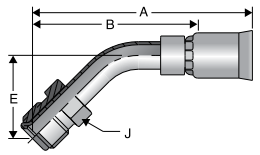
⚠ WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Updated August 6, 2025

Fittings - Permanent Crimp
91N Series

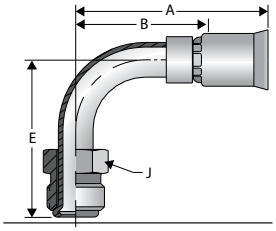
16791N Male Inverted Swivel 45° Elbow



Construction: Steel nipple, tube, nut and shell. Add "C" for Stainless Steel.

Part Number	Thread Size	Hose Size	A		Cutoff Allow. B		E		J Hex
		inch	inch	mm	inch	mm	inch	mm	inch
16791N-4-4	7/16-24	-4	2.05	52	1-1/2	38	0.63	16	7/16
16791N-5-5	1/2-20	-5	2.48	63	1-7/8	48	0.71	18	1/2
16791N-6-6	5/8-18	-6	2.60	66	1-15/16	49	0.96	24	5/8
16791N-8-8	3/4-18	-8	2.85	72	2-1/8	54	0.90	23	3/4
16791N-10-10	7/8-18	-10	3.30	84	2-5/8	67	1.02	43	7/8
16791N-12-12	1-1/16-16	-12	3.64	58	2-13/16	71	1.15	29	1-1/16

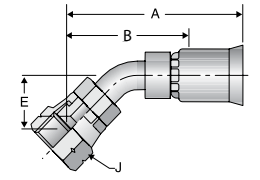
16991N Male Inverted Swivel 90° Elbow



Construction: Steel nipple, tube, nut and shell. Add "C" for Stainless Steel.

Part Number	Thread Size	Hose Size	A		Cutoff Allow. B		E		J Hex
		inch	inch	mm	inch	mm	inch	mm	inch
16991N-4-4	7/16-24	-4	1.72	44	1-3/16	30	1.19	30	7/16
16991N-5-5	1/2-20	-5	1.98	50	1-3/8	35	1.65	42	1/2
16991N-5-6	1/2-20	-6	2.03	52	1-7/16	37	1.65	42	1/2
16991N-6-6	5/8-18	-6	2.08	53	1-7/16	37	1.70	43	5/8
16991N-8-8	3/4-18	-8	2.18	55	1-1/2	38	1.87	43	3/4
16991N-10-10	7/8-18	-10	3.02	58	2-5/16	59	2.18	55	7/8
16991N-12-12	1-1/16-16	-12	3.36	85	2-9/16	64	2.51	64	1-1/16

17791N SAE 45° Swivel 45° Elbow



Construction: Steel nipple, tube, nut and shell. Add "C" for Stainless Steel.

Part Number	Thread Size	Hose Size	A		Cutoff Allow. B		E		J Hex
		inch	inch	mm	inch	mm	inch	mm	inch
17791N-6-6	5/8-18	3/8	2.06	52	1-5/16	33	0.39	10	3/4
17791N-12-12	1-1/16-14	3/4	3.07	78	2-7/16	62	0.78	20	1-1/4

⚠ WARNING

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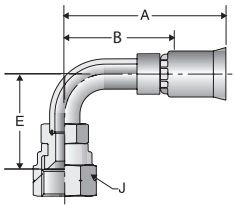
Fittings - Permanent Crimp
91N Series

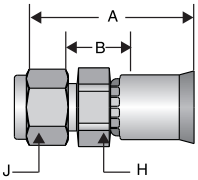
17991N SAE 45° Swivel 90° Elbow



Construction: Steel nipple, tube, nut and shell. Add "C" for Stainless Steel.

Part Number	Thread Size	Hose Size	A		Cutoff Allow. B		E		J Hex
		inch	inch	mm	inch	mm	inch	mm	inch
17991N-6-6	5/8-18	3/8	2.06	52	1-5/16	49	1.19	30	3/4
17991N-12-12	1-1/16-14	3/4	2.92	74	2-1/8	54	1.82	46	1-1/4

1AL91N A-LOK® Compression



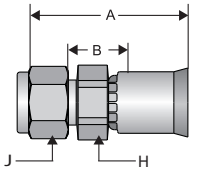
Construction: Stainless steel nipple and shell.

Part Number w/nut & ferrule	Thread Size	Hose Size	A		Cutoff Allow. B		H Hex	J Hex
		inch	inch	mm	inch	mm	inch	inch
1AL91N-4-4C	7/16-20	-4	1.28	33	7/16	11	1/2	9/16
1AL91N-4-5C	7/16-20	-5	1.36	35	7/16	11	1/2	9/16
1AL91N-6-6C	9/16-20	-6	1.46	37	7/16	11	3/4	11/16
1AL91N-8-8C	3/4-20	-8	1.61	41	7/16	11	13/16	7/8
1AL91N-12-12C	1-20	-12	1.86	47	1/2	13	1-1/8	1-1/8
1AL91N-16-16C	1-5/16-20	-16	2.12	54	7/16	11	1-3/8	1-1/2

For hose assembly overall length (OAL), measure to A-LOK® tube stop and not the end of the fitting

Note: Nuts and ferrules are manufactured by Parker Instrumentation Products Division.
Reference catalog 4230/4233 for parts: Nut - XNUX-316, Ferrule: XFFX-316 and XBFX-316. "X" Denotes dash size

1P691N CPI® Compression (With Nut and Ferrule)



Construction: Stainless steel nipple and shell.

Part Number w/nut & ferrule	Hose Size	A		Cutoff Allow. B		H Hex	J Hex
	inch	inch	mm	inch	mm	inch	inch
1P691N-4-4C	-4	1.28	33	7/16	11	1/2	9/16
1P691N-6-6C	-6	1.46	37	7/16	11	3/4	11/16
1P691N-8-8C	-8	1.61	41	7/16	11	13/16	7/8

For hose assembly overall length (OAL), measure to CPI(TM) tube stop and not the end of the fitting

Note: Nuts and ferrules are manufactured by Parker Instrumentation Products Division.
Reference catalog 4230/4233 for parts: Nut - XBZ-SS, Ferrule: XTZ-SS. "X" Denotes dash size

⚠ WARNING
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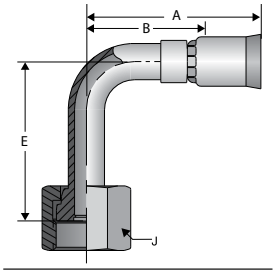
Fittings - Permanent Crimp
91N Series

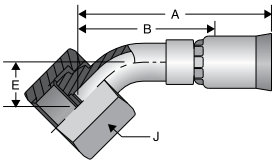
1J191N Female Seal-Lok™ Swivel 90° Elbow Long Drop



Construction: Steel nipple, tube, nut and shell. Add "C" for Stainless Steel.

Part Number	Thread Size	Hose Size	A		Cutoff Allow. B		E		J Hex
		inch	inch	mm	inch	mm	inch	mm	inch
1J191N-4-4	9/16-18	-4	1.66	42	1-1/16	27	1.81	46	11/16
1J191N-4-5	9/16-18	-5	1.78	45	1-1/16	27	1.81	46	11/16
1J191N-6-5	11/16-16	-5	1.92	49	1-3/16	30	2.13	54	13/16
1J191N-6-6	11/16-16	-6	1.92	49	1-3/16	30	2.13	54	13/16
1J191N-8-6	13/16-16	-6	2	51	1-9/16	40	2.51	43	15/16
1J191N-8-8	13/16-16	-8	2.15	58	1-7/16	37	2.51	64	15/16
1J191N-10-10	1-14	-10	1.25	32	1-9/16	40	2.76	70	1-1/8
1J191N-12-12	1-3/16-12	-12	2.65	67	1-13/16	46	3.78	96	1-3/8
1J191N-16-16	1-7/16-12	-16	3.15	80	2-1/4	57	4.5	114	1-1/2

1J791N Female Seal-Lok™ Swivel 45° Elbow



Construction: Steel nipple, tube, nut and shell. Add "C" for Stainless Steel.

Part Number	Thread Size	Hose Size	A		Cutoff Allow. B		E		J Hex
		inch	inch	mm	inch	mm	inch	mm	inch
1J791N-4-4	9/16-18	-4	1.73	44	1-1/4	32	0.41	10	11/16
1J791N-4-6	9/16-18	-6	1.91	49	1-5/16	33	0.41	10	11/16
1J791N-6-6	11/16-16	-6	2.02	51	1-3/8	35	0.43	11	13/16
1J791N-8-8	13/16-16	-8	2.18	55	1-1/2	38	0.59	15	15/16
1J791N-8-10	13/16-16	-10	2.39	61	1-11/16	43	0.59	15	15/16
1J791N-10-10	1-14	-10	2.47	63	1-3/4	44	0.59	43	1-1/8
1J791N-12-12	1-3/16-12	-12	2.74	58	1-15/16	49	0.81	21	1-3/8
1J791N-16-16	1-7/16-12	-16	3.50	89	2-1/2	64	0.94	24	1-5/8

⚠ WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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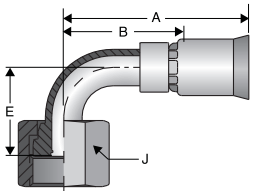
Fittings - Permanent Crimp
91N Series

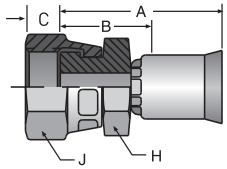
1J991N Female Seal-Lok™ Swivel 90° Elbow Short Drop



Construction: Steel nipple, tube, nut and shell. Add "C" for Stainless Steel.

Part Number	Thread Size	Hose Size	A		Cutoff Allow. B		E		J Hex
		inch	inch	mm	inch	mm	inch	mm	inch
1J991N-4-4	9/16-18	-4	1.81	46	1-1/4	32	0.83	21	11/16
1J991N-6-6	11/16-16	-6	1.91	49	1-5/16	33	0.91	23	13/16
1J991N-8-8	13/16-16	-8	2.02	51	1-3/8	35	1.15	29	15/16
1J991N-10-10	1-14	-10	2.18	55	1-1/2	38	1.27	32	1-1/8
1J991N-12-12	1-3/16-12	-12	2.39	61	1-11/16	43	1.85	43	1-3/8
1J991N-16-16	1-7/16-12	-16	2.47	63	1-3/4	44	2.21	56	1-5/8

1JC91N Female Seal-Lok™ Swivel Straight

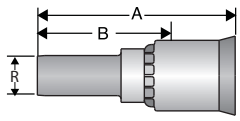


Construction: Steel nipple, tube, nut and shell. Add "C" for Stainless Steel.

Part Number	Thread Size	Hose Size	A		Cutoff Allow. B		C		H Hex	J Hex
		inch	inch	mm	inch	mm	inch	mm	inch	inch
1JC91N-4-4	9/16-18	4	1.16	30	5/8	16	0.31	8	9/16	7/16
1JC91N-6-6	11/16-16	6	1.32	33	11/16	17	0.35	9	5/8	13/16
1JC91N-8-8	13/16-16	8	1.49	38	13/16	20	0.43	11	3/4	15/16
1JC91N-12-10	1-14	10	1.59	40	7/8	22	0.48	12	15/16	1-1/8
1JC91N-12-12	1-3/16-12	12	1.73	44	15/16	24	0.55	14	1-1/4	1-3/8
1JC91N-16-16	1-7/16-12	16	2.00	51	1-1/16	27	0.57	14	1-3/8	1-5/8
1JC91N-20-16	1-11/16-12	16	1.99	51	1-1/16	27	0.59	15	1-5/8	1-7/8
1JC91-20-20	1-11/16-12	20	1.89	48	7/8	22	0.59	15	1-11/16	1-7/8

NOTE: When measuring overall length to the end of the nut, B+C dimensions must be used to calculate cut-off allowance.

1TU91N Universal Tube Stub



Construction: Stainless steel tube and shell.

Part Number	Hose Size	Diameter R	A		Cutoff Allow. B	
		inch	inch	mm	inch	mm
1TU91N-4-4C	-4	1/4	1.63	41	1-1/16	27
1TU91N-4-5C	-5	1/4	1.70	43	1-1/16	27
1TU91N-6-6C	-6	3/8	1.81	46	1-3/16	30
1TU91N-8-8C	-8	1/2	2.28	58	1-7/16	37
1TU91N-8-10C	-10	1/2	2.14	54	1-7/16	37
1TU91N-10-10C	-10	5/8	2.14	54	1-7/16	37
1TU91N-12-12C	-12	3/4	2.24	57	1-7/16	37
1TU91N-16-16C	-16	1	2.73	69	1-3/4	44

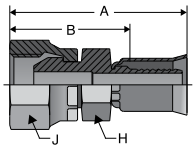
NOTE: Use with A-Lok & CPI nuts, sleeves and adapters. These components are manufactured by Parker's Instrumentation Connectors Division. Refer to catalog 4230/4233 for information.

⚠ WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Fittings - Permanent Crimp
91N Series

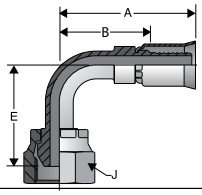
19291N Female BSP Parallel Pipe Swivel Straight (60° Cone)



Construction: Steel nipple, tube, nut and shell. Add "C" for Stainless Steel.

Part Number	Thread Size	Hose Size	A		Cutoff Allow. B		H Hex	J Hex
		inch	inch	mm	inch	mm	mm	mm
19291N-8-8	PF-1/2-14	-8	1.99	51	1-5/16	33	27	27
19291N-12-12	PF-3/4-14	-12	2.35	60	1-9/16	40	36	36

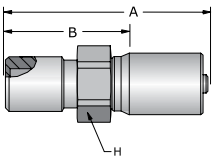
1B291N Female BSP Parallel Pipe Swivel - 90° Elbow (60° Cone)



Construction: Steel nipple, tube, nut and shell. Add "C" for Stainless Steel.

Part Number	Thread Size	Hose Size	A		Cutoff Allow. B		E		J Hex
		inch	inch	mm	inch	mm	inch	mm	mm
1B291N-8-8	PF-1/2-14	-8	2.04	52	1-3/8	35	1.57	40	27
1B291N-12-12	PF-3/4-14	-12	2.93	74	2-1/8	54	2.54	65	36

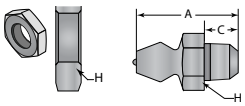
1GK91N Bulkhead with Integrated Zerk Port -Bulkhead Nut and Grease Zerk



Construction: Steel nipple, tube, nut and shell. Add "C" for Stainless Steel.

Part Number	Thread Size	Hose Size	A		Cutoff Allow. B		H Hex
		inch	inch	mm	inch	mm	inch
1GK91N-2-4*	1/8-27 NPSM Male with 1/4-28 UNF Female	-3	1.46	37	15/16	24	1/2

NOTE: *Long bulkhead for use with plates under 3/4" thick. Uses 2GK-NUT, sold separately.



2GK-Nut NA-6520

Construction: Steel.

Part Number	Description	Thread Size	A		C		H Hex
			inch	mm	inch	mm	inch
2GK-Nut	Bulkhead Nut	1/8-27 NPSM	0.125	4.8	na	na	9/16
NA-6520	Grease Zerk Fitting	1/4-28 UNF	0.540	13.7	0.18	4.6	5/16

⚠ WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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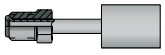
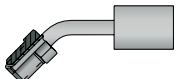
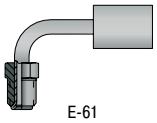
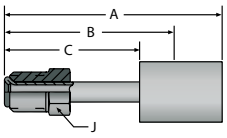
Fittings - Permanent Crimp
92 Series

92 Series Permanent	128 SAE Male Inverted Swivel Straight	167 SAE Male Inverted 45° Elbow	169 SAE Male Inverted 90° Elbow
	 E-61	 E-61	 E-61

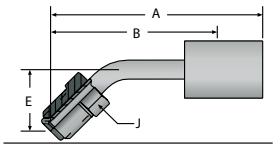
12892 SAE Male Inverted Swivel Straight



Construction: Stainless Steel.

Part Number	Thread Size	Hose Size	A inch	A mm	Cutoff Allow. B inch	Cutoff Allow. B mm	C inch	C mm	J Hex inch
12892-3-3C	3/8-24	-3	2.01	55	1-1/2	38	1.25	32	7/16

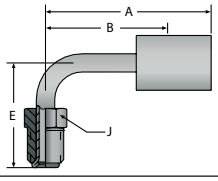
16792 SAE Male Inverted Swivel 45° Elbow



Construction: Stainless Steel.

Part Number	Thread Size	Hose Size	A inch	A mm	Cutoff Allow. B inch	Cutoff Allow. B mm	E inch	E mm	J Hex inch
16792-3-3C	3/8-24	-3	2.36	60	1-15/16	50	.062	16	3/8

16992 SAE Male Inverted Swivel 90° Elbow



Construction: Stainless Steel.

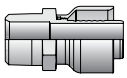
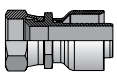
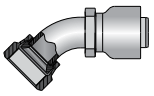
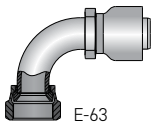
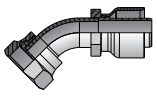
Part Number	Thread Size	Hose Size	A inch	A mm	Cutoff Allow. B inch	Cutoff Allow. B mm	E inch	E mm	J Hex inch
16992-3-3C	3/8-24	-3	1.45	37	1	25	1.25	16	3/8

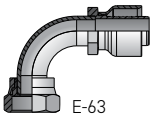
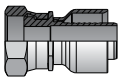
⚠ WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

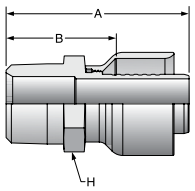
Fittings - Permanent Crimp
93N Series

93N Series Permanent

101 Male Taper Pipe Rigid	106 Female JIC 37° Swivel	137 Female JIC 37° Swivel 45° Elbow	139 Female JIC 37° Swl. 90° Elbow Short	1J7 Seal-Lok™ 45° Elbow
 E-62	 E-62	 E-62	 E-63	 E-63

1J9 Seal-Lok™ 90° Elbow Short	1JC Seal-Lok™ Swivel Strt. Short
 E-63	 E-63

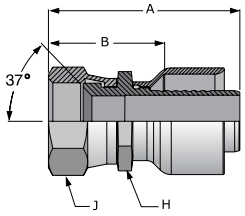
10193N Male Taper Pipe Rigid



Construction: Steel.
Add "C" for Stainless Steel.

Part Number	Thread Size	Hose Size	A inch	A mm	Cutoff Allow. B inch	Cutoff Allow. B mm	H Hex inch
10193N-8-8	1/2-14	-8	2.09	53	1-1/2	38	7/8
10193N-12-12	3/4-14	-12	2.70	69	1-5/8	41	1-1/8
10193N-16-16	1-11-1/2	-16	3.03	77	1-13/16	46	1-3/8
10193N-20-20	1-1/4-11-1/2	-20	3.20	58	1-7/8	48	1-11/16
10193N-24-24	1-1/2-11-1/2	-24	3.76	96	2-1/16	52	2
10193N-32-32	2-11-1/2	-32	3.97	101	2-5/16	59	2-1/2

10693N (JIC) 37° Female Swivel

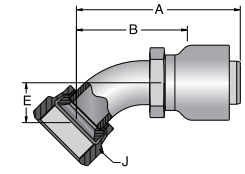


Construction: Steel.
Add "C" for Stainless Steel.

Part Number	Thread Size	Hose Size	A inch	A mm	Cutoff Allow. B inch	Cutoff Allow. B mm	H Hex inch	J Hex inch
10693N-6-6	9/16-18	-6	1.70	43	1-1/8	29	3/4	11/16
10693N-8-8	3/4-16	-8	2.01	51	1-3/8	35	7/8	3/4
10693N-10-10	7/8-14	-10	2.51	64	1-9/16	40	1	1
10693N-12-12	1-1/16-12	-12	2.79	71	1-11/16	43	1-1/8	1-1/4
10693N-16-16	1-5/16-12	-16	3.11	79	1-7/8	48	1-3/8	1-1/2
10693N-20-20	1-5/8-12	-20	3.32	84	2	51	1-3/4	2
10693N-24-24	1-7/8-12	-24	3.98	101	2-1/2	64	2	2-1/4
10693N-32-32	2-1/2-12	-32	4.12	105	2-9/16	65	2-1/2	2-7/8

NOTE: Size -10 incorporates a dual seat.

13793N JIC 37° Swivel 45° Elbow



Construction: Steel.
Add "C" for Stainless Steel.

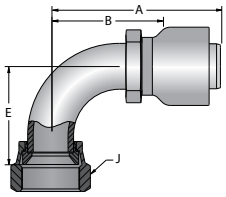
Part Number	Thread Size	Hose Size	A inch	A mm	Cutoff Allow. B inch	Cutoff Allow. B mm	E inch	E mm	J Hex inch
13793N-12-12	1-1/16-12	-12	3.37	86	2-1/4	57	.78	20	1-1/4
13793N-16-16	1-5/16-12	-16	3.71	94	2-5/8	67	.90	23	1-1/2
13793N-20-20	1-5/8-12	-20	4.06	103	2-3/4	70	1.18	43	2
13793N-24-24	1-7/8-12	-24	5.76	146	4-1/4	108	1.47	37	2-1/4

⚠ WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Fittings - Permanent Crimp
93N Series

13993N JIC 37° Swivel 90° Elbow Short Drop

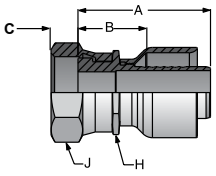


Construction: Construction: Steel.
Add "C" for Stainless Steel.

Part Number	Thread Size	Hose Size	A		Cutoff Allow. B		E		J Hex
			inch	mm	inch	mm	inch	mm	inch
13993N-8-8	3/4-16	-8	2.20	56	1-9/16	40	1.09	28	7/8
13993N-10-10	7/8-14	-10	2.41	61	1-11/16	43	1.23	31	1
13993N-12-12	1-1/16-12	-12	3.28	83	2-3/16	56	1.82	46	1-1/4
13993N-16-16	1-5/16-12	-16	3.71	94	2-1/2	64	2.14	54	1-1/2
13993N-20-20	1-5/8-12	-20	3.89	99	2-9/16	65	2.57	43	2
13993N-24-24	1-7/8-12	-24	5.72	58	4-1/4	108	3.17	81	2-1/4

NOTE: Size -10 incorporates a dual seat.

1JC93N Seal-Lok™ Swivel Straight Short

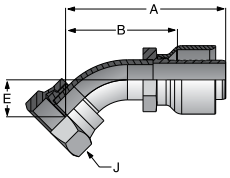


Construction: Steel.
Add "C" for Stainless Steel .

Part Number	Thread Size	Hose Size	A		Cutoff Allow. B		C		H Hex	J Hex
			inch	mm	inch	mm	inch	mm	inch	inch
1JC93N-12-12	1-3/16-12	-12	2.40	61	1-3/8	35	.57	14	1-1/4	1-3/8
1JC93N-16-16	1-7/16-12	-16	2.61	66	1-3/8	35	.58	15	1-1/2	1-5/8
1JC93N-20-20	1-11/16-12	-20	2.65	67	1-5/16	33	.59	15	1-3/4	1-7/8

NOTE: When measuring overall length to the end of the nut, B+C dimensions must be used to calculate cut-off allowance

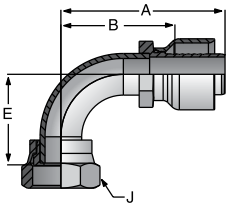
1J793N Seal-Lok™ 45° Elbow



Construction: Steel.
Add "C" for Stainless Steel.

Part Number	Thread Size	Hose Size	A		Cutoff Allow. B		E		J Hex
			inch	mm	inch	mm	inch	mm	inch
1J793N-20-20	1-11/16-12	-20	4.25	108	2-15/16	75	1.00	25	1-7/8

1J993N Seal-Lok™ 90° Elbow Short Drop



Construction: Steel.
Add "C" for Stainless Steel.

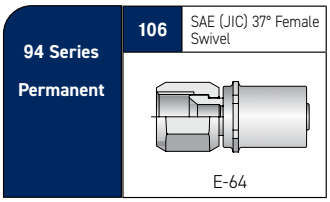
Part Number	Thread Size	Hose Size	A		Cutoff Allow. B		E		J Hex
			inch	mm	inch	mm	inch	mm	inch
1J993N-20-20	1-11/16-12	-20	4.36	111	3-1/16	78	2.51	64	1-7/8

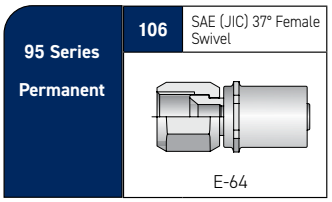
⚠ WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

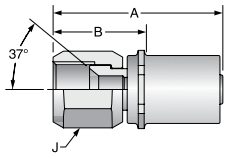
Fittings - Permanent Crimp

94 Series, 95 Series





10694 SAE (JIC) 37° Female Swivel

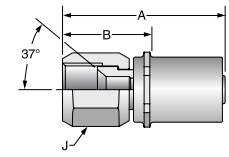


Construction: Steel.
Add "C" for Stainless Steel.

Part Number	Thread Size	Hose Size	A		Cutoff Allow. B		J Hex
		inch	inch	mm	inch	mm	inch
10694-6-6	9/16-18	-6	1.78	45	15/16	24	11/16
10694-8-8	3/4-16	-8	2.10	53	1-3/16	30	7/8
10694-10-10	7/8-14	-10	2.33	59	1-5/16	33	1
10694-12-12	1-1/16-12	-12	2.52	64	1-5/16	33	1-1/4
10694-16-16C*	1-5/16-12	-16	2.72	69	1-7/16	37	1-1/2

* only available in Stainless Steel construction

10695 SAE (JIC) 37° Female Swivel



Construction: Steel.
Add "C" for Stainless Steel.

Part Number	Thread Size	Hose Size	A		Cutoff Allow. B		J Hex
		inch	inch	mm	inch	mm	inch
10695-4-4	7/16-20	-4	1.48	38	13/16	21	9/16
10695-6-6	9/16-18	-6	1.80	46	15/16	24	11/16
10695-8-8	3/4-16	-8	2.11	54	1-3/16	30	7/8
10695-12-12	1-1/16-12	-12	2.46	62	1-5/16	33	1-1/4
10695-16-16C*	1-5/16-12	-16	2.73	69	1-7/16	37	1-1/2

* only available in Stainless Steel construction

⚠ WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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Fittings - Permanent Crimp
PAGE Series

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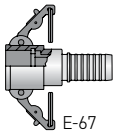
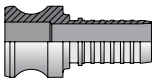
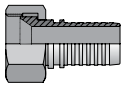
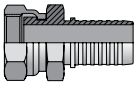
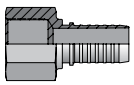
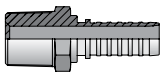
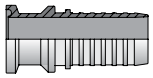
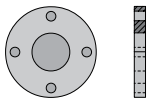
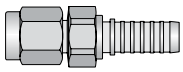
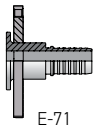
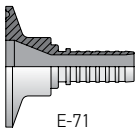
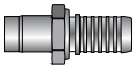
Permanent

CL Female Cam & Groove	**E** Male Cam & Groove	**FJX** Female JIC 37° Swivel	**FORFS** Female Seal-Lok™ Swivel Short	**FP** Female NPTF Pipe Rigid
 E-67	 E-67	 E-69	 E-69	 E-67
MP Male NPTF Pipe Rigid	**MSAN** Mini Sanitary Flange	**PF** ANSI Flange	**PLCF** Female A-Lok® Compression	**SFR** Flange Retainer
 E-68	 E-71	 E-70	 E-70	 E-71
SAN Sanitary Tri-Clamp Flange & Step Downs	**TUBE** A-Lok Male Standpipe Rigid "V" Notch			
 E-71	 E-70			

PAGE fittings require a PAGE collar. See pg. E-66.

The PAGE fitting call-out does not follow the traditional Parker fitting nomenclature. The end size and hose size are reversed.

⚠ WARNING
This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Fittings - Permanent Crimp
PAGE Series

PAGE Fitting Collars - By Size



Construction: Stainless Steel. Also available in carbon steel "CS".

Hose Size	Collar # Size	04	06	08	12	14	16	20	24	32	40	48	64
STW STB	ST300	ST300	ST300	ST300	ST300	ST300	ST300	ST300	ST300				
SCW SCB	SC300	ST300	SC300	SC300	SC300	SC300	SC300	SC300	SC300	SC300			

Inserts & Collars Sold Separately

Examples:
If you need a Female JIC Swivel Fitting for a 08-SCW Hose (1/2" Convoluted), place an order for (1) 08-08 FJX-S and (1) 08-SC300.

If you need a Male Pipe Fitting for a 12-STW Hose, place an order for (1) 12-12 MP-S and (1) 12-ST300.

PAGE Fitting Collars - By Style



Construction: Stainless Steel. Also available in carbon steel "CS".

Size	ST300 For use with STW, STB	SC300 For use with SCW, SCB
1/4"	04-ST300	04-SC300
3/8"	06-ST300	06-SC300
1/2"	08-ST300	08-SC300
3/4"	12-ST300	12-SC300
1"	16-ST300	16-SC300
1-1/4"	20Z-ST300	20-SC300
1-1/2"	24Z-ST300	24-SC300
2"	–	32-SC300

The PAGE fitting call-out does not follow the traditional Parker fitting nomenclature. **The end size and hose size are reversed.**

⚠ WARNING
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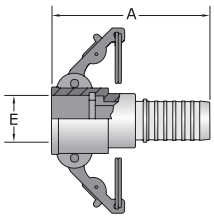
Updated August 6, 2025

Fittings - Permanent Crimp
PAGE Series

CL Female Cam & Groove



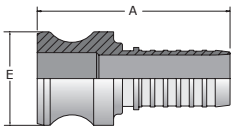
Construction: Stainless Steel.

Part Number	Hose Size		A		E	
	inch	mm	inch	mm	inch	mm
16-16CL-S	1	25	4.2	107	1.44	37
24-24CL-S	1-1/2	38	5.2	132	2.10	53
32-32CL-S	2	51	6.0	152	2.48	63
48-48CL-S	3	76	7.2	183	3.60	91
64-64CL-S	4	102	7.8	198	4.70	119

The PAGE fitting call-out does not follow the traditional Parker fitting nomenclature.

The end size and hose size are reversed.

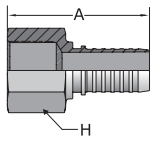
E Male Cam & Groove



Construction: Stainless Steel.

Part Number	Hose Size		A		E	
	inch	mm	inch	mm	inch	mm
12-12E-S	3/4	19	2.60	66	1.26	32
16-16E-S	1	25	2.91	74	1.44	37
20-20E-S	1-1/4	32	3.64	93	1.78	45
24-24E-S	1-1/2	38	4.03	102	2.10	53
32-32E-S	2	51	4.75	121	2.48	63
48-48E-S	3	76	5.75	146	3.60	91
64-64E-S	4	102	5.88	149	4.70	119

FP Female NPTF Pipe Rigid



Construction: Stainless Steel.

Part Number	Thread Size	Hose Size		A		H Hex
	inch	inch	mm	inch	mm	
04-04FP-S	1/4-18	1/4	6	1.63	41	3/4
06-06FP-S	3/8-18	3/8	10	1.73	44	7/8
08-08FP-S	1/2-14	1/2	13	2.25	57	1-1/16
12-12FP-S	3/4-14	3/4	19	2.60	66	1-5/16
16-16FP-S	1-11 1/2	1	25	2.85	72	1-5/8
20-20FP-S	1 1/4-11 1/2	1-1/4	32	3.50	89	2
24-24FP-S	1 1/2-11 1/2	1-1/2	38	3.63	92	2-3/8
32-32FP-S	2-11 1/2	2	51	4.25	108	2-7/8

⚠ WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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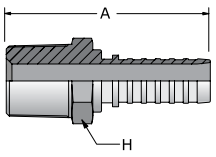
Fittings - Permanent Crimp
PAGE Series

MP Male NPTF Pipe Rigid



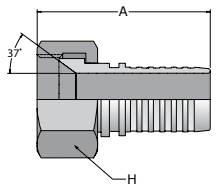
Construction: Stainless Steel.

Part Number	Thread Size	Hose Size		A		H Hex
		inch	mm	inch	mm	inch
04-04MP-S	1/4-18	1/4	6	1.63	41	9/16
06-06MP-S	3/8-18	3/8	10	1.76	45	11/16
08-08MP-S	1/2-14	1/2	13	2.34	59	7/8
12-12MP-S	3/4-14	3/4	19	2.59	66	1-1/8
16-16MP-S	1-11 1/2	1	25	3.00	76	1/3/8
20-20MP-S	1 1/4-11 1/2	1-1/4	32	3.39	86	1-3/4
24-24MP-S	1 1/2-11 1/2	1-1/2	38	3.89	99	2
32-32MP-S	2-11 1/2	2	51	4.58	116	2-1/2
40-40MP-S	2-1/2 8	2-1/2	64	5.28	134	3
48-48MP-S	3-8	3	76	5.93	151	3-3/4
64-64MP-S	4-8	4	102	6.82	173	4-5/8

The PAGE fitting call-out does not follow the traditional Parker fitting nomenclature.

The end size and hose size are reversed.

FJX Female JIC 37° Swivel



Construction: Stainless Steel.

Part Number	Thread Size	Hose Size		A		H Hex
		inch	mm	inch	mm	inch
04-04FJX-S	7/16-20	1/4	6	1.44	37	9/16
06-06FJX-S	9/16-18	3/8	10	1.65	42	11/16
08-08FJX-S	3/4-16	1/2	13	2.13	54	7/8
12-12FJX-S	1-1/16-12	3/4	19	2.54	65	1-1/4
16-16FJX-S	1-5/16-12	1	25	2.76	70	1-1/2
20-20FJX-S	1-5/8-12	1-1/4	32	3.25	83	2
24-24FJX-S	1-7/8-12	1-1/2	38	3.73	95	2-1/4
32-32FJX-S	2-1/2-12	2	51	4.55	116	2-7/8
40-40FJX-S	3-12	2-1/2	64	4.76	121	3-3/8

⚠ WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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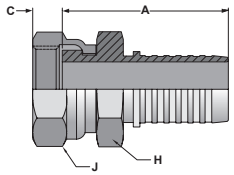
Fittings - Permanent Crimp
PAGE Series

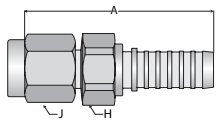
FORFS Female Seal-Lok® Swivel Short



Construction: Stainless Steel.

Part Number	Thread Size	Hose Size		A		C		H Hex	J Hex
		inch	mm	inch	mm	inch	mm	inch	inch
04-04FORFS-S	9/16-18	1/4	6	1.50	38	.32	8	9/16	11/16
06-06FORFS-S	11/16-16	3/8	10	1.85	47	.32	8	11/16	13/16
08-08FORFS-S	13/16-16	1/2	13	2.00	51	.43	11	13/16	15/16
12-12FORFS-S	1-3/16-12	3/4	19	2.30	58	.57	14	1-1/8	1-3/8
16-16FORFS-S	1-7/16-12	1	25	2.50	64	.58	15	1-3/8	1-5/8
24-24FORFS-S	2-12	1-1/2	38	3.98	101	.59	15	2	2-1/4

PLCF Female A-LOK® Compression (With Nut & Ferrules



Construction: Stainless Steel.

Part Number	Thread Size	Hose Size		A		J Hex	H Hex
		inch	mm	inch	mm	inch	inch
04-04PLCF-S	7/16-20	1/4	6	1.52	39	9/16	9/16
06-06PLCF-S	9/16-20	3/8	10	1.63	41	11/16	11/16
08-08PLCF-S	3/4-20	1/2	13	2.05	52	7/8	7/8
12-12PLCF-S	1-20	3/4	19	2.30	58	1-1/8	1-1/8
16-16PLCF-S	1-5/16-20	1	25	2.57	65	1-3/8	1-1/2

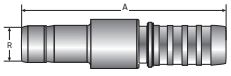
For hose assembly overall length (OAL), measure to A-LOK® tube stop and not the end of the fitting

Note: Nuts and ferrules are manufactured by Parker Instrumentation Products Division.
Reference catalog 4230/4233 for parts: Nut - XNUX-316, Ferrule: XFFX-316 and XBFX-316. "X" Denotes dash size

The PAGE fitting call-out does not follow the traditional Parker fitting nomenclature.

The end size and hose size are reversed.

TUBE A-LOK® Male Standpipe Rigid with "V" Notch



Construction: Stainless Steel.

Part Number	Hose Size		Diameter R	A	
	inch	mm	inch	inch	mm
04-04TUBE-S	1/4	6	1/4	1.75	45
06-06TUBE-S	3/8	10	3/8	2.06	52
06-08TUBE-S	3/8	10	1/2	2.20	56
08-06TUBE-S	1/2	13	3/8	2.43	62
08-08TUBE-S	1/2	13	1/2	2.56	65
12-08TUBE-S	3/4	19	1/2	2.86	73
12-12TUBE-S	3/4	19	3/4	2.86	73
16-12TUBE-S	1	25	3/4	2.99	76
16-16TUBE-S	1	25	1	3.34	85

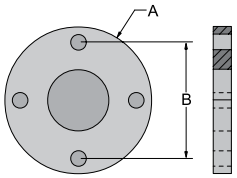
Groove dimension for Parker A-LOK® fittings only

⚠ WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Fittings - Permanent Crimp
PAGE Series

PF ANSI B16.5 Flange



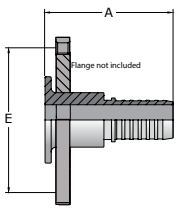
Construction: 316 Stainless Steel.

Part Number	Flange Diameter A		Hose Size		Bolt Spacing B	
Flange	inch	mm	inch	mm	inch	mm
08-PF156	3-1/2	89	1/2	13	2-3/8	60
12-PF156	3-7/8	98	3/4	19	2-3/4	70
16-PF156	4-1/4	108	1	25	3-1/8	79
20-PF156	4-5/8	117	1-1/4	32	3-1/2	89
24-PF156	5	127	1-1/2	38	3-7/8	98
32-PF156	6	152	2	51	4-3/4	120
40-PF156	7	178	2-1/2	64	5-1/2	140
48-PF156	7-1/2	191	3	76	6	152
64-PF156	9	229	4	102	7-1/2	191

The PAGE fitting call-out does not follow the traditional Parker fitting nomenclature.

The end size and hose size are reversed.

SFR Flange Retainer



Construction: Stainless Steel.

Part Number	Flange Diameter		Hose Size		A		Bolt Spacing E	
	inch	mm	inch	mm	inch	mm	inch	mm
08-08SFR-S	3-1/2	89	1/2	13	2.30	58	2-3/8	60
12-12SFR-S	3-7/8	98	3/4	19	2.60	66	2-3/4	70
16-16SFR-S	4-1/4	108	1	25	3.00	76	3-1/8	79
20-20SFR-S	4-5/8	117	1-1/4	32	3.25	83	3-1/2	89
24-24SFR-S	5	127	1-1/2	38	3.65	93	3-7/8	98
32-32SFR-S	6	152	2	51	4.25	108	4-3/4	120
40-40SFR-S	7	178	2-1/2	64	5.00	127	5-1/2	140
48-48SFR-S	7-1/2	191	3	76	5.50	140	6	152
64-64SFR-S	9	229	4	102	7.00	178	7-1/2	191

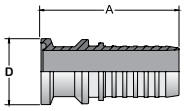
⚠ WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Tel: +45 63 12 83 00 | Email: ps@hymatik.com | www.hymatik.com | Hvidkaervej 27a, DK-5250 Odense SV, Denmark

Fittings - Permanent Crimp
PAGE Series

MSAN Mini Sanitary Flange



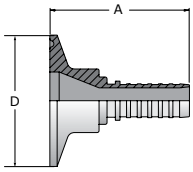
Construction: Stainless Steel.

Part Number	Hose Size		A		Flange Size D	
	inch	mm	inch	mm	inch	mm
04-04MSAN-S	1/4	6	1.41	36	.98	25
04-08MSAN-S	1/4	6	1.50	38	.98	25
06-06MSAN-S	3/8	10	1.53	39	.98	25
06-08MSAN-S	3/8	10	1.53	39	.98	25
06-12MSAN-S	3/8	10	1.66	42	.98	25
08-08MSAN-S	1/2	13	1.90	48	.98	25
08-12MSAN-S	1/2	13	1.94	49	.98	25
12-12MSAN-S	3/4	19	2.16	55	.98	25
16-16MSAN-S	1	25	2.27	58	1.34	34

The PAGE fitting call-out does not follow the traditional Parker fitting nomenclature.

The end size and hose size are reversed.

SAN Sanitary Tri-Clamp Flange & Step-Downs



Construction: Stainless Steel.

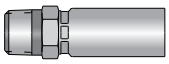
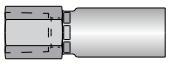
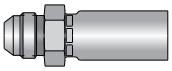
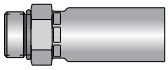
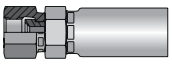
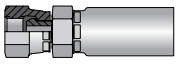
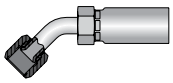
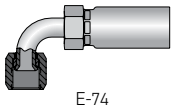
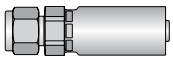
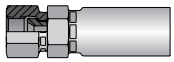
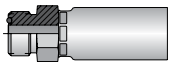
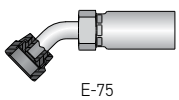
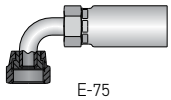
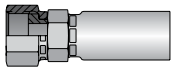
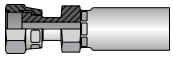
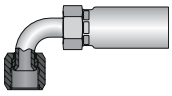
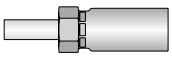
Part Number	Hose Size		A		Flange Size D	
	inch	mm	inch	mm	inch	mm
08-08SAN-S	1/2	13	2.11	54	1.98	50
08-16SAN-S	1/2	13	2.11	54	1.98	50
08-24SAN-S	1/2	13	2.34	59	1.98	50
12-12SAN-S	3/4	19	2.32	59	1.98	50
16-16SAN-S	1	25	2.45	62	1.98	50
12-24SAN-S	3/4	19	2.34	59	1.98	50
16-24SAN-S	1	25	2.32	59	1.98	50
24-24SAN-S	1-1/2	38	3.1	79	1.98	50
24-32SAN-S	1-1/2	38	3.12	79	2.52	64
32-32SAN-S	2	51	3.67	93	2.52	64
40-40SAN-S	2-1/2	64	4	102	3.05	77
48-48SAN-S	3	76	4.5	114	3.58	91
64-64SAN-S	4	102	4.75	121	4.68	119

⚠ WARNING

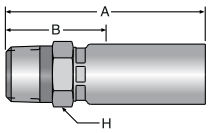
This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Fittings - Permanent Crimp
CG Series

CG Series Permanent

101 Male Taper Pipe Rigid	102 Female Taper Pipe Rigid	103 Male (JIC) 37° Rigid	105 Male Str. Thread O-ring	106 SAE (JIC) 37° Swivel
 E-72	 E-73	 E-73	 E-73	 E-73
107 Female Pipe Swivel	**137** FemaleJIC 37° Swivel 45° Elbow	**139** FM JIC 37° Swivel 90° Elbow Short	**1AL** A-Lok® Compression	**1FU** (JIC)/BSP 30° Flare Female Swivel
 E-74	 E-74	 E-74	 E-74	 E-75
1J0 Male Seal-Lok™ Rigid Str. w/O-ring	**1J7** Female Seal-Lok™ 45° Elbow	**1J9** Female Seal-Lok™ 90° Elbow Short	**1JC** Female Seal-Lok™ Str. Swivel Short	**1JS** Female Seal-Lok™ Straight
 E-75	 E-75	 E-75	 E-76	 E-76
1L9 FM JIC 37° Swivel 90° Elbow, SPL Drop	**1TU** Universal Tube Stub End			
 E-76	 E-76			

101CG Male Taper Pipe Rigid



Construction: Steel. Add "C" for Stainless Steel.

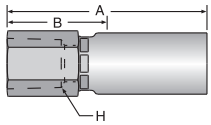
Part Number	Thread Size	Hose I.D. inch	Hose I.D. mm	A inch	A mm	Cutoff Allow. B inch	Cutoff Allow. B mm	H Hex inch
101CG-2-3	1/8-27	3/16	5	1.94	49	1	25	9/16
101CG-2-4	1/8-27	1/4	6	2.13	54	1	25	5/8
101CG-4-3	1/4-18	3/16	5	2.12	54	1-3/16	30	11/16
101CG-4-4	1/4-18	1/4	6	2.31	59	1-3/16	30	11/16
101CG-4-6	1/4-18	3/8	10	2.66	68	1-5/16	33	3/4
101CG-6-4	3/8-18	1/4	6	2.41	61	1-5/16	33	3/4
101CG-6-6	3/8-18	3/8	10	2.66	68	1-5/16	33	3/4
101CG-6-8	3/8-18	1/2	13	2.85	72	1-5/16	33	7/8
101CG-8-6	1/2-14	3/8	10	2.91	74	1-9/16	40	15/16
101CG-8-8	1/2-14	1/2	13	3.09	78	1-9/16	40	15/16
101CG-12-12	3/4-14	3/4	19	3.91	99	1-11/16	43	1-1/4
101CG-16-16	1-11-1/2	1	25	4.76	121	2	51	1-3/4

⚠ WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Fittings - Permanent Crimp
CG Series

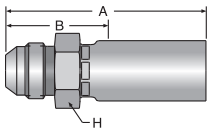
102CG Female Taper Pipe Rigid



Construction: Steel. Add "C" for Stainless Steel.

Part Number	Thread Size	Hose I.D. inch	Hose I.D. mm	A inch	A mm	Cutoff Allow. B inch	Cutoff Allow. B mm	H Hex inch
102CG-4-4	1/4-18	1/4	6	2.39	61	1-1/4	32	3/4
102CG-6-4	3/8-18	1/4	6	2.60	66	1-1/2	38	7/8
102CG-8-8	1/2-14	1/2	13	2.87	73	1-3/8	35	1-1/16

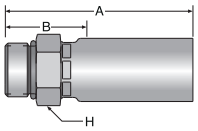
103CG Male (JIC) 37° Rigid



Construction: Steel. Add "C" for Stainless Steel.

Part Number	Diameter R inch	Hose Size inch	Hose Size mm	A inch	A mm	C inch	C mm	H Hex inch
103CG-4-4	7/16-20	1/4	6	2.31	58	1-3/16	30	5/8
103CG-5-4	1/2-20	1/4	6	2.30	58	1-3/16	30	5/8
103CG-6-4	9/16-18	1/4	6	2.30	58	1-3/16	30	11/16
103CG-6-6	9/16-18	3/8	10	2.65	67	1-1/4	32	3/4

105CG Male Straight Thread O-ring (Nitrile O-ring included)

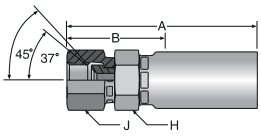


Construction: Steel. Add "C" for Stainless Steel.

Part Number	Diameter R inch	Hose Size inch	Hose Size mm	A inch	A mm	C inch	C mm	H Hex inch
105CG-4-3	7/16-20	3/16	4	1.98	50	1-1/8	29	9/16
105CG-4-4	7/16-20	1/4	6	2.11	54	1	25	5/8
105CG-6-4	9/16-18	1/4	6	2.14	54	1	25	11/16
105CG-6-6	9/16-18	3/8	10	2.42	61	1-1/8	29	3/4
105CG-8-8	3/4-16	1/2	13	2.65	67	1-3/16	30	7/8
105CG-10-8	7/8-14	1/2	13	2.77	70	1-5/16	33	1

NOTE: Nitrile O-ring.

106CG SAE (JIC) 37° Swivel



Construction: Steel. Add "C" for Stainless Steel.

Part Number	Thread Size	Hose I.D. inch	Hose I.D. mm	A inch	A mm	Cutoff Allow. B inch	Cutoff Allow. B mm	H Hex inch	J Hex inch
106CG-4-3	7/16-20	3/16	5	2.23	57	1-1/4	32	9/16	9/16
106CG-4-4	7/16-20	1/4	6	2.36	60	1-3/16	30	5/8	9/16
106CG-5-4	1/2-20	1/4	6	2.43	62	1-1/4	32	5/8	5/8
106CG-6-4	9/16-18	1/4	6	2.45	62	1-5/16	33	5/8	11/16
106CG-6-6	9/16-18	3/8	10	2.70	69	1-5/16	33	11/16	11/16
106CG-8-6	3/4-16	3/8	10	2.89	73	1-1/2	38	11/16	7/8
106CG-8-8	3/4-16	1/2	13	3.08	78	1-1/2	38	7/8	7/8
106CG-10-8	7/8-14	1/2	13	3.12	79	1-5/8	41	7/8	1-1/16
106CG-12-8	1-1/16-12	1/2	13	3.35	85	1-13/16	46	1	1-1/4
106CG-12-12	1-1/16-12	3/4	19	4.17	106	1-13/16	46	1-1/4	1-5/16
106CG-16-12	1-5/16-12	3/4	19	4.27	108	2	51	1-1/2	1-5/8
106CG-16-16	1-5/16-12	1	25	4.93	125	2-3/16	56	1-3/4	1-5/8

NOTE: Sizes -4, -5,-8 and -10 incorporate a dual seat.

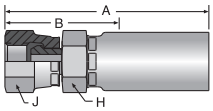
⚠ WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Updated August 6, 2025

Fittings - Permanent Crimp
CG Series

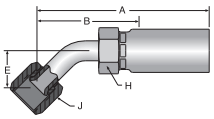
107CG Female Pipe Swivel



Construction: Steel. Add "C" for Stainless Steel.

Part Number	Thread Size	Hose I.D.		A		Cutoff Allow. B		H Hex	J Hex
		inch	mm	inch	mm	inch	mm	inch	inch
107CG-6-6	3/8-18	3/8	10	2.61	66	1-3/16	30	11/16	7/8

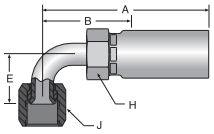
137CG Female JIC 37° Swivel 45° Elbow



Construction: Steel. Add "C" for Stainless Steel.

Part Number	Thread Size	Hose I.D.		A		Cutoff Allow. B		E		H Hex	J Hex
		inch	mm	inch	mm	inch	mm	inch	mm	inch	inch
137CG-4-4	7/16-20	1/4	6	2.49	63	1-1/2	38	0.33	8	5/8	9/16
137CG-6-6	9/16-18	3/8	10	2.91	74	1-9/16	40	0.39	10	3/4	11/16
137CG-8-8	3/4-16	1/2	13	3.37	86	1-13/16	46	0.55	14	7/8	7/8

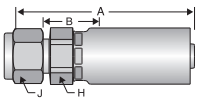
139CG Female JIC 37° Swivel 90° Elbow



Construction: Steel. Add "C" for Stainless Steel.

Part Number	Thread Size	Hose I.D.		A		Cutoff Allow. B		E		H Hex	J Hex
		inch	mm	inch	mm	inch	mm	inch	mm	inch	inch
139CG-4-4	7/16-20	1/4	6	2.49	63	1-3/8	35	0.68	17	5/8	9/16
139CG-6-4	9/16-18	1/4	6	2.57	65	1-9/16	36	0.85	22	5/8	11/16
139CG-6-6	9/16-18	3/8	10	2.88	73	1-1/2	38	0.91	23	3/4	11/16
139CG-8-6	3/4-16	3/8	10	2.92	74	1-9/16	40	1.09	28	3/4	7/8
139CG-8-8	3/4-16	1/2	13	3.11	79	1-5/8	41	1.09	28	7/8	7/8
139CG-12-12	1-1/16-12	3/4	19	4.55	116	2-1/4	57	1.82	46	1-1/4	1-1/4

1ALCG A-LOK® Compression



Construction: Stainless steel.

Part Number w/nut & ferrule	Hose Size	Thread Size	A		Cutoff Allow. B		H Hex	J Hex
	inch		inch	mm	inch	mm	inch	inch
1ALCG-4-4C	-4	7/16-20	2.15	55	11/16	17	5/8	9/16
1ALCG-6-6C	-6	9/16-20	2.57	65	13/16	21	3/4	11/16

For hose assembly overall length (OAL), measure to A-LOK® tube stop and not the end of the fitting

Note: Nuts and ferrules are manufactured by Parker Instrumentation Products Division.
Reference catalog 4230/4233 for parts: Nut - XNUX-316, Ferrule: XFFX-316 and XBFX-316. "X" Denotes dash size

⚠ WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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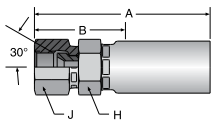
Fittings - Permanent Crimp
CG Series

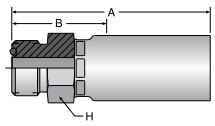
1FUCG (JIS)/BSP 30° Flare Female Swivel ISO 228-1



Construction: Steel. Add "C" for Stainless Steel.

Part Number	Thread Size	Hose I.D.		A		Cutoff Allow. B		H Hex	J Hex
		inch	mm	inch	mm	inch	mm	mm	mm
1FUCG-4-4	PF 1/4-19	1/4	6	2.48	63	1-9/16	40	19	19

1J0CG Male Seal-Lok™ Rigid Straight (with Nitrile O-ring) ISO 12151-1-S

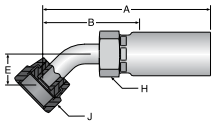


Construction: Steel. Add "C" for Stainless Steel.

Part Number	Thread Size	Hose I.D.		A		Cutoff Allow. B		H Hex
		inch	mm	inch	mm	inch	mm	inch
1J0CG-4-4	9/16-18	1/4	6	2.20	56	1-1/16	27	5/8

NOTE: Nitrile O-ring.

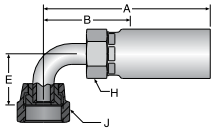
1J7CG Female Seal-Lok™ Swivel 45° Elbow ISO 12151-1-SWE45



Construction: Steel. Add "C" for Stainless Steel.

Part Number	Thread Size	Hose I.D.		A		Cutoff Allow. B		E		H Hex	J Hex
		inch	mm	inch	mm	inch	mm	inch	mm	inch	inch
1J7CG-4-4	9/16-18	1/4	6	2.66	68	1-1/2	38	0.41	10	5/8	11/16
1J7CG-8-8	13/16-16	1/2	13	3.43	87	1-15/16	49	0.59	15	7/8	15/16
1J7CG-12-12	1-3/16-12	3/4	19	4.51	115	2-3/16	56	0.81	21	1-1/4	1-3/8

1J9CG Female Seal-Lok™ Swivel 90° Elbow ISO 12151-1-SWE90



Construction: Steel. Add "C" for Stainless Steel.

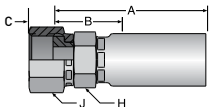
Part Number	Thread Size	Hose I.D.		A		Cutoff Allow. B		E		H Hex	J Hex
		inch	mm	inch	mm	inch	mm	inch	mm	inch	inch
1J9CG-4-4	9/16-18	1/4	6	2.49	63	1-3/8	35	0.82	21	5/8	11/16
1J9CG-6-6	11/16-16	3/8	10	2.85	72	1-1/2	38	0.91	23	3/4	13/16
1J9CG-12-12	1-3/16-12	3/4	19	4.42	112	2-1/8	54	1.89	48	1-1/4	1-3/8
1J9CG-16-16	1-7/16-12	1	25	5.78	147	3	76	2.28	58	1-3/4	1-5/8

⚠ WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Fittings - Permanent Crimp
CG Series

1JCCG Female Seal-Lok™ Straight Swivel Short ISO 12151-1-SWSA

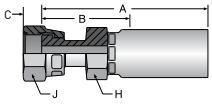


Construction: Steel. Add "C" for Stainless Steel.

Part Number	Thread Size	Hose I.D.		A		Cutoff Allow. B		C		H Hex	J Hex
		inch	mm	inch	mm	inch	mm	inch	mm	inch	inch
1JCCG-4-3	9/16-18	3/16	5	1.88	48	15/16	24	.34	9	9/16	11/16
1JCCG-4-4	9/16-18	1/4	6	2.16	55	1-1/16	25	.34	9	5/8	11/16
1JCCG-6-4	11/16-16	1/4	6	2.22	56	1-1/16	27	.32	8	11/16	13/16
1JCCG-6-6	11/16-16	3/8	10	2.47	63	1-1/16	27	.32	8	11/16	13/16
1JCCG-8-6	13/16-16	3/8	10	2.56	65	1-3/16	30	.43	11	7/8	15/16
1JCCG-8-8	13/16-16	1/2	13	2.75	70	1-3/16	30	.43	11	7/8	15/16
1JCCG-10-8	1-14	1/2	13	2.95	75	1-3/8	35	.48	12	1-1/8	1-1/8
1JCCG-12-12	1-3/16-12	3/4	19	3.86	98	1-1/2	38	.55	14	1-1/4	1-3/8
1JCCG-16-16	1-7/16-12	1	25	4.66	118	1-7/8	48	.56	14	1-3/4	1-5/8

NOTE: When measuring overall length to the end of the nut, B+C dimensions must be used to calculate cut-off allowance

1JSCG Female Seal-Lok™ Straight

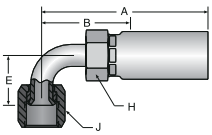


Construction: Steel. Add "C" for Stainless Steel.

Part Number	Thread Size	Hose I.D.		A		Cutoff Allow. B		H Hex	C		J Hex
		inch	mm	inch	mm	inch	mm	inch	inch	mm	inch
1JSCG-4-4	9/16-18	1/4	6	2.42	61	1-1/4	32	5/8	.32	8	11/16
1JSCG-6-6	11/16-16	3/8	10	2.73	69	1-5/16	33	11/16	.34	9	13/16
1JSCG-8-6	13/16-16	3/8	10	3.00	76	1-5/8	41	7/8	.43	11	15/16
1JSCG-12-12	1-3/16-12	3/4	19	4.29	109	2	51	1-1/4	.55	14	1-3/8
1JSCG-16-16	1-7/16-12	1	25	4.99	127	2-3/16	56	1-3/4	.56	14	1-5/8

NOTE: When measuring overall length to the end of the nut, B+C dimensions must be used to calculate cut-off allowance

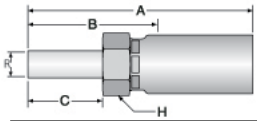
1L9CG Female JIC 37° Swivel 90° Elbow Special Drop



Construction: Steel. Add "C" for Stainless Steel.

Part Number	Thread Size	Hose I.D.		A		Cutoff Allow. B		E		H Hex	J Hex
		inch	mm	inch	mm	inch	mm	inch	mm	inch	inch
1L9CG-4-4	7/16-20	1/4	6	2.47	63	1-3/8	35	0.88	22	5/8	9/16
1L9CG-6-6	9/16-18	3/8	10	2.88	73	1-7/16	36	1.12	28	3/4	11/16

1TUCG Universal Tube Stub



Construction: Stainless Steel.

Part Number	Diameter R	Hose I.D.		A		Cutoff Allow. B		C		H Hex
		inch	mm	inch	mm	inch	mm	inch	mm	inch
1TUCG-4-4C	1/4	1/4	6	2.60	66	1-1/2	38	0.72	38	0.72
1TUCG-6-6C	3/8	3/8	10	2.91	74	1-1/2	38	0.78	38	0.78
1TUCG-8-8C	1/2	1/2	13	3.35	85	1-13/16	46	1.03	46	1.03
1TUCG-12-12C	3/4	3/4	19	4.18	106	1-7/8	48	1.03	48	1.03
1TUCG-16-16C	1	1	25	5.14	131	2-3/8	60	1.36	60	1.36

NOTE: Use with A-Lok & CPI nuts, sleeves and adapters. These components are manufactured by Parker's Instrumentation Connectors Division. Refer to catalog 4230/4233 for information.

⚠ WARNING

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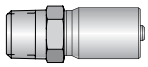
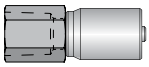
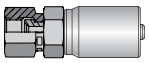
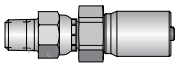
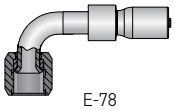
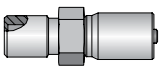
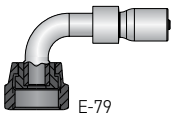
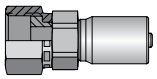
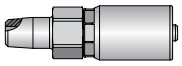
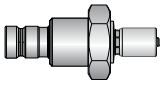
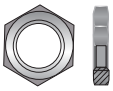
Fittings - Permanent Crimp
CY Series

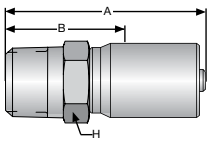
CY Series Permanent

101 Male Taper Pipe Rigid	102 Female Pipe Thread	106 Female SAE JIC 37° Swivel	113 Male Pipe Swivel	139 FM JIC 37° Swivel 90° Elbow Short
 E-77	 E-77	 E-78	 E-78	 E-78
1GK Bulkhead w/Zerk Port Integrated	**1J9** Female Seal-Lok™ 90° Elbow Short	**1JC** Female Seal-Lok™ Swivel Strt. Short	**1LM** Male Grease	**1PD** Integrated Bulkhead Diagnostic Nipple
 E-79	 E-79	 E-78	 E-79	 E-79

1GKCY Options

Nut 2GK-Nut	Zerk NA-6520
 E-79	 E-79

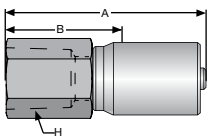
101CY Male Taper Pipe Rigid



Construction: Steel. Add "C" for Stainless Steel.

Part Number	Thread Size	Hose I.D. inch	Hose I.D. mm	A inch	A mm	Cutoff Allow. B inch	Cutoff Allow. B mm	H Hex inch
101CY-2-2	1/8-27	1/8	3	1.31	33	13/16	21	7/16
101CY-2-3	1/8-27	3/16	5	1.74	44	7/8	22	1/2
101CY-4-2	1/4-18	1/8	3	1.51	38	1	25	9/16
101CY-4-3	1/4-18	3/16	5	1.97	50	1-1/8	28	9/16

102CY Female Pipe Thread



Construction: Steel. Add "C" for Stainless Steel.

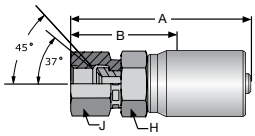
Part Number	Thread Size	Hose I.D. inch	Hose I.D. mm	A inch	A mm	Cutoff Allow. B inch	Cutoff Allow. B mm	H Hex inch
102CY-2-3	1/8-27	3/16	5	1.97	50	1-1/16	27	1/2

⚠ WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Fittings - Permanent Crimp
CY Series

106CY Female SAE (JIC) 37° Swivel

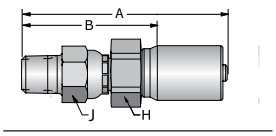


Construction: Steel. Add "C" for Stainless Steel.

Part Number	Thread Size	Hose I.D.		A		Cutoff Allow. B		H Hex	J Hex
		inch	mm	inch	mm	inch	mm	inch	inch
106CY-2-2	5/16-24	1/8	3	1.52	39	15/16	24	7/16	7/16
106CY-3-2	3/8-24	1/8	3	1.53	39	1	25	1/2	1/2
106CY-4-2	7/16-20	1/8	3	1.59	40	1	25	9/16	9/16
106CY-4-3	7/16-20	3/16	5	1.99	50	1-1/8	29	9/16	9/16

NOTE: Size -4 incorporates a dual seat.

113CY Male Pipe Swivel*



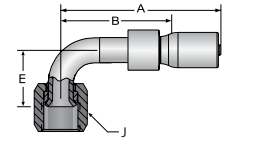
Construction: Steel. Add "C" for Stainless Steel.

Part Number	Thread Size	Hose I.D.		A		Cutoff Allow. B		H Hex	J Hex
		inch	mm	inch	mm	inch	mm	inch	inch
113CY-2-2	1/8-27	1/8	3	1.89	48	1-5/16	33	1/2	1/2
113CY-2-3	1/8-27	3/16	3	2.29	58	1-7/16	36	1/2	1/2

NOTE: *Nitrile O-ring.

WARNING: Fittings allow minor movement to relieve stress on hose but are not recommended for continued or extensive swiveling.

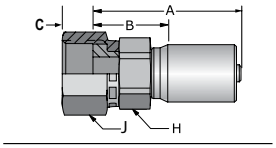
139CY Female JIC 37° Swivel 90° Elbow Short Drop



Construction: Steel. Add "C" for Stainless Steel.

Part Number	Thread Size	Hose I.D.		A		Cutoff Allow. B		E		J Hex
		inch	mm	inch	mm	inch	mm	inch	mm	inch
139CY-4-2	7/16-20	1/8	3	1.61	41	1-1/16	27	0.83	21	9/16
139CY-4-3	7/16-20	3/16	5	1.90	48	1	25	0.83	21	9/16

1JCCY Female Seal-Lok™ Swivel Straight Short



Construction: Steel. Add "C" for Stainless Steel.

Part Number	Thread Size	Hose I.D.		A		Cutoff Allow. B		C		H Hex	J Hex
		inch	mm	inch	mm	inch	mm	inch	mm	inch	inch
1JCCY-4-2	9/16-18	1/8	3	1.29	33	3/4	19	0.32	8	9/16	11/16

NOTE: When measuring overall length to the end of the nut, B+C dimensions must be used to calculate cut-off allowance.

⚠ WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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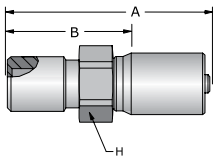
Fittings - Permanent Crimp
CY Series

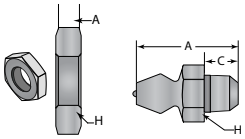
1GKCY Bulkhead with Integrated Zerk Port Bulkhead Nut and Grease Zerk



Construction: Steel. Add "C" for Stainless Steel.

Part Number	Thread Size	Hose I.D.		A		Cutoff Allow. B		H Hex
		inch	mm	inch	mm	inch	mm	inch
1GKCY-2-2*	1/8-27 NPSM Male with 1/4-28 UNF Female	1/8	3	1.45	37	7/8	22	1/2
1GKCY-2-3*	1/8-27 NPSM Male with 1/4-28 UNF Female	3/16	5	1.86	47	1	25	1/2
1GKCY-2-L77**	1/8-27 NPSM Male with 1/4-28 UNF Female	1/8	3	1.71	43	1-1/4	32	1/2

NOTE: *Standard bulkhead for use with plates up to 1/4" thick. Uses 2GK-NUT, sold separately.
**Long bulkhead for use with plates under 3/4" thick. Uses 2GK-NUT, sold separately.

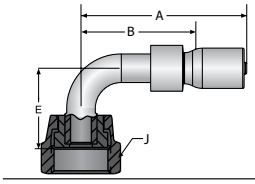


2GK-Nut NA-6520

Construction: Steel.

Part Number	Description	Thread Size	A		C		H Hex
			inch	mm	inch	mm	inch
2GK-Nut	Bulk-head Nut	1/8-27 NPSM	0.125	4.8	na	na	9/16
NA-6520	Grease Zerk Fit-ting	1/4-28 UNF	0.540	13.7	0.18	4.6	5/16
CY02-652317	HLBD02 Spring Guard	-	-	-	-	-	-
3PSG-4	HLB03 Spring Guard	-	-	-	-	-	-

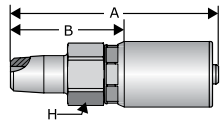
1J9CY Female Seal-Lok™ 90° Elbow Short Drop



Construction: Steel. Add "C" for Stainless Steel.

Part Number	Thread Size	Hose I.D.		A		Cutoff Allow. B		E		J Hex
		inch	mm	inch	mm	inch	mm	inch	mm	inch
1J9CY-4-2	9/16-18	1/8	3	1.81	46	1-1/4	32	.83	21	11/16

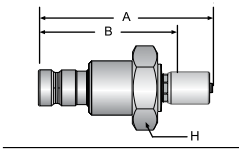
1LMCY Male Grease



Construction: Steel. Add "C" for Stainless Steel.

Part Number	Thread Size	Hose I.D.		A		Cutoff Allow. B		H Hex
		inch	mm	inch	mm	inch	mm	inch
1LMCY-2-2	1/4-28	1/8	3	1.26	32	11/16	17	3/8

1PDCY Integrated Bulkhead Diagnostic Nipple

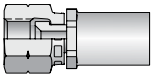
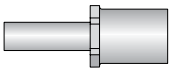
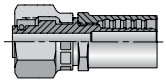


Construction: Steel. Add "C" for Stainless Steel.

Part Number	Thread Size	Hose I.D.		A		Cutoff Allow. B		H Hex
		inch	mm	inch	mm	inch	mm	inch
1PDCY-2-2	3/4"-16 UNF	1/8	3	2.40	61	1.875	48	1

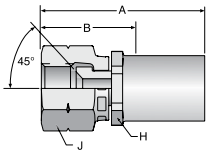
⚠ WARNING
This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Fittings - Permanent Crimp
MS Series

MS Series Permanent	108 SAE 45° Swivel	134 Straight Tube	1TF Marine Tube Connector
	 E-80	 E-80	 E-80

NOTE: MS Series is also available in a field-attachable design. The fittings are listed with the field-attachable fittings, page E-32.

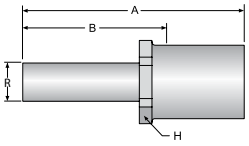
108MS Permanent SAE 45° Swivel (Brass)



Construction: Brass.

Part Number	Thread Size	Hose I.D. inch	Hose I.D. mm	A inch	A mm	Cutoff Allow. B inch	Cutoff Allow. B mm	H Hex inch	J Hex inch
108MS-6-5B	5/8-18	5/16	8	1.75	45	1-1/8	29	5/8	13/16
108MS-6-6B	5/8-18	3/8	10	1.82	46	1-1/16	27	3/4	13/16

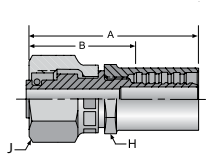
134MS Permanent Straight Tube (Brass)



Construction: Brass.

Part Number	Diameter R	Hose I.D. inch	Hose I.D. mm	A inch	A mm	Cutoff Allow. B inch	Cutoff Allow. B mm	H Hex inch
134MS-6-5B	3/8	5/16	8	2.00	51	1-3/8	35	5/8
134MS-6-6B	3/8	3/8	10	2.08	53	1-3/8	35	3/4

1TFMS Permanent Marine Tube Connector (Brass)



Construction: Brass.

Part Number	Thread Size	Hose I.D. inch	Hose I.D. mm	A inch	A mm	Cutoff Allow. B inch	Cutoff Allow. B mm	J Hex inch	H Hex inch
1TFMS-6-5B	9/16-24	5/16	8	1.70	43	1 1/16	27	3/4	5/8

NOTE: Nitrile O-ring.

Connector Mates are Manufactured by the Fluid Systems Connection Division. Refer to Catalog 3501E for Ordering, Installation Instructions and Replacement Components.

⚠ WARNING

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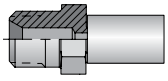
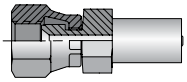
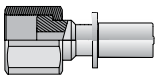
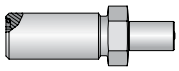
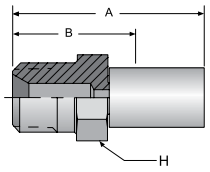
Fittings - Permanent Crimp
SF Series

SF Series Permanent	101 Male Taper Pipe Rigid	106 JIC 37° Swivel	1JS Female Seal-Lok™ Swivel Long	1JB Male Seal-Lok™ Bulkhead w/O-ring
				
	E-81	E-81	E-81	E-81

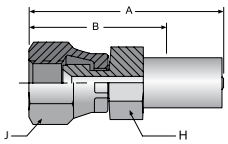
101SF Male Taper Pipe Rigid



Construction: Steel. Add "C" for Stainless Steel.

Part Number	Thread Size	Hose I.D. inch	Hose I.D. mm	A inch	A mm	Cutoff Allow. B inch	Cutoff Allow. B mm	H Hex inch
101SF-2-1	1/8-27	0.090	2.3	1.13	29	3/4	19	7/16

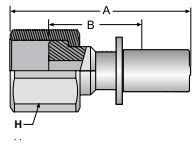
106SF JIC 37° Swivel



Construction: Steel. Add "C" for Stainless Steel.

Part Number	Thread Size	Hose I.D. inch	Hose I.D. mm	A inch	A mm	Cutoff Allow. B inch	Cutoff Allow. B mm	H Hex inch	J Hex inch
106SF-2-1	5/16-24	0.090	2.3	1.37	35	15/16	24	7/16	1/2

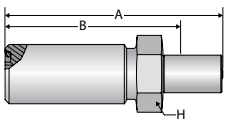
1JSSF Female Seal-Lok™ Swivel Long



Construction: Steel. Add "C" for Stainless Steel.

Part Number	Thread Size	Hose I.D. inch	Hose I.D. mm	A inch	A mm	Cutoff Allow. B inch	Cutoff Allow. B mm	H Hex inch
1JSSF-4-1	9/16-18	0.090	2.3	1.18	29.8	3/4	19	11/16

1JBSF Male Seal-Lok™ Bulkhead with O-ring



Construction: Steel. Add "C" for Stainless Steel.

Part Number	Thread Size	Hose I.D. inch	Hose I.D. mm	A inch	A mm	Cutoff Allow. B inch	Cutoff Allow. B mm	H Hex inch
1JBSF-4-1	9/16-18	0.090	2.3	2.06	52	1-11/16	43	5/8

NOTE: Bulkhead Locknut sold separately.
WLNL Locknuts are manufactured by the Tube Fittings Division. Refer to Catalog 4300 for information.

⚠ WARNING
This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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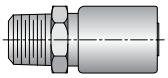
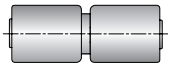
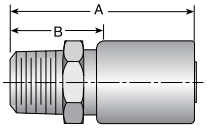
Fittings - Permanent Crimp
SQ Series

SQ Series Permanent	101 Male Taper Pipe Rigid	1HU SQ Mender
	 E-82	 E-82

101SQ Male Taper Pipe Rigid

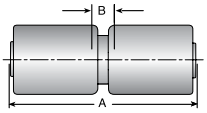


Construction: Steel.

Part Number Hose	Part Number Fitting	Hose I.D. inch	Hose I.D. mm	A inch	A mm	Cutoff Allow. B inch	Cutoff Allow. B mm
S612	101SQ-12-12	3/4	19	3.08	78	1-1/2	38
S616	101SQ-16-16	1	25	3.42	87	1-13/16	46
S912	101SQ-12-12	3/4	19	3.08	78	1-1/2	38
S916	101SQ-16-16	1	25	3.42	87	1-13/16	46

NOTE: See pg. F-14 for swage die selection. See pg. G-16 for assembly instructions.

1HUSQ Mender



Construction: Steel.

Part Number Hose	Part Number Fitting	Hose I.D. inch	Hose I.D. mm	A inch	A mm	Cutoff Allow. B inch	Cutoff Allow. B mm
S612	1HUSQ-12-12	3/4	19	3.7	94	9/16	14
S616	1HUSQ-16-16	1	25	3.99	101	9/16	14
S912	1HUSQ-12-12	3/4	19	3.7	94	9/16	14
S916	1HUSQ-16-16	1	25	3.99	101	9/16	14

NOTE: See pg. F-14 for swage die selection. See pg. G-16 for assembly instructions.

⚠ WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



Tooling, Equipment & Accessories

Accessories
Crimpers
Pumps
Hose Guards

Updated August 6, 2025

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Swager Mender SQ-101-SW
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Crimpers

MiniKrimp™ Hand Pump and Air Over Hydraulic

Weighing in at a light 42 pounds,
the strongest portable crimper on the market.



Features

- Lightweight, portable, compact all-in-one unit
- Hand unit with pump weighs only 42 pounds; Air unit weighs 45 pounds
- 10,000 psi and 30+ tons of force
- No gauges to set - exclusive Parkalign™ feature positions the fitting correctly every time
- Removable pusher design for easy die change
- Hand pump easily removed for use with jumper hose for bench-mounted units (Part No. 015309)
- Air pump utilizes a rugged activation and release lever for greater durability with no additional power source required for operation and can operate with as little as 60 psi air pressure (60-100 psi, 9 CFM recommended)
- Capable of crimping a majority of thermoplastic, rubber, PTFE and specialty hoses up to 3/4" I.D.
- For use with 56, 91, 91N, 92, 93N, CG, CY, MS, SF, 43 and HY Series fittings
- Do not use this machine to assemble any size 56, CG, 93N or 43 series Stainless Steel fitting. Use a minimum of a 60 ton crimp machine such as the KarryKrimp II

Hand Pump Specifications
PN 94C-001-PFD

- **Dimensions:** 6" Deep, 13" Wide, 15" High
- **Weight:** 42 lbs with hand pump
- **Rating:** 30 tons force@10,000 psi maximum
- **Full Cycle Time:** Approximately 30 seconds

Note: Hydraulic Fluid - Enerpac HF oil only

Air/Hydraulic Pump Specifications
PN 94C-002-PFD

- **Dimensions:** 6" Deep, 12" Wide, 15" High
- **Weight:** 45 lbs with air/hydraulic pump
- **Rating:** 30 tons force@10,000 psi maximum
- **Full Cycle Time:** Approximately 30 seconds

Note: Hydraulic Fluid - Enerpac HF oil only

Notes

- Reference CrimpSource on-line for detailed crimp specifications - www.parker.com/crimpsource

Minikrimp Standard Equipment

Part Number 94C-001-PFD	Part Number 94C-002-PFD	Description	Individual Part Number
●	●	Base unit	94C-080-PFD
●		Hand pump	015301
	●	Air over hydraulic pump	025399
●	●	Silver die ring	82C-R01-PFD

The MiniKrimp utilizes a one-piece, high-strength cast aluminum frame that is light, robust and highly corrosion resistant.

⚠ WARNING

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Crimpers

Air Over Hydraulic Pump Upgrade Kit, Part #025411



1. (IF APPLICABLE) Relieve pressure from attached pump. Remove the hand pump and bent tube assembly from the body of the crimper. Do not remove the adapter (6-6 CTX-S) from the cylinder. This adapter will be used, with an orientation change, with the Air Over Hydraulic Pump.
2. Screw (or reorient) the 6-6 CTX-S adapter into the cylinder port and tighten until the fitting is facing in the upward direction. Do not loosen the adapter to reach the correct orientation as this may cause leakage.
3. Apply appropriate thread sealant to taper pipe thread of 6-2 CTX-S adapter and screw into pump (2-3 turns) so that the fitting (male JIC connection) is facing the direction of the fill cap.
4. Mount the pump 025399 to the right side of the crimper as shown in the image to the left using two 1/4" bolt holes on the top of the crimper. Note that only the top two bolt holes are used.
5. Attach the 025349 bent tube assembly to the two adapters. The longer of the two ends of the tube will attach to the pump. Tighten the nuts of bent tube to a minimum of 20 ft.-lbs or 2-1/2 Flats from Wrench Resistance.

- MiniKrimp is ready for operation. Reference the Enerpac pump manual for operating instructions.

Minikrimp Air Over Hydraulic Pump Upgrade Kit 025411

Part Number	Descriptions
025399	Air over Hydraulic Pump
025349	Stainless Steel Tube Connector
6-6 CTXS-PFD	Adapter
6-2 CTXS-PFD	Adapter

Refer to Catalog 4300 of the Parker Tube Fittings Division for Detail Assembly Instructions for the CTX Port Adapters referenced in Steps 2 and 3.

⚠ WARNING

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Crimpers
MiniKrimp™ Accessories



Upright Vise Mount Part No. 015307

- Material - High Strength Steel
- Mount connects to the bottom of the MiniKrimp using (4) 3/8-16 18-8 SS SHCS 2.5" long bolts (not included)
- Once connected, the Minikrimp can be clamped into a vise for operation



Side Vise Mount Part No. 015736

- Material - High Strength Steel
- Mount connects to the side of the MiniKrimp using (4) 1/4-20 18-8 SS SHCS 1" long bolts (not included)
- Once connected, the Minikrimp can be clamped into a vise for operation



Table Mount Part No. 015306

- Material - High Strength Steel
- Mount connects to the bottom of the MiniKrimp using (4) 3/8-16 18-8 SS SHCS 2.5" long bolts (not included)
- Once connected, the Minikrimp can be mounted to a table using the (4) 3/8" clearance holes on the opposite side of the plate (bolts not included)



High Pressure Hose Assembly Part No. 045234

- Parker 10,000 psi, 1/4" ID hose assembly with bend restrictors and 3000 series quick disconnects (PN - 2022N0101060404-36BR with 3050-2/3010-2 coupler and nipple
- Designed to be used when mounting a hand pump (015301) to the MiniKrimp stand (94C-MKS) base



High Pressure Hose Assembly Part No. 015309

- Parker 10,000 psi, 1/4" I.D. hose assembly with 3/8" female JIC connections and bend restrictors on both ends (PN - 2022N0606060604-72BR)
- Hose is used when a flexible connection is required between the MiniKrimp and a hydraulic pressure source.

- Note: The hydraulic connectors shown on this page are designed exclusively for use with the MiniKrimp. No other connectors are approved for use with the MiniKrimp without expressed written consent from Parker Parflex Division's technical support. Any worn connectors should be replaced immediately.

⚠ WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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Crimpers
MiniKrimp™ Accessories



Folding Stand Part No. 94C-MKS

- Lightweight folding stand designed exclusively for the MiniKrimp portable crimper
- Fold up design is easy to store
- Mounting hardware and safety instructions are included
- Patented design



Hand Pump Replacement Connector Part No. 015308

- Replacement stainless-steel bent tube rigid connector
- For use with 94C-001-PFD (MiniKrimp Hand Pump Model)



Air Over Hydraulic Replacement Connector Part No. 025349

- Replacement stainless-steel bent tube rigid connector
- For use with 94C-002-PFD (MiniKrimp Air Over Hydraulic Model)



MiniKrimp with Hand Pump



Hand Pump MiniKrimp



Air Over Hydraulic MiniKrimp and Folding Stand

- Note: The hydraulic connectors shown on this page are designed exclusively for use with the MiniKrimp. No other connectors are approved for use with the MiniKrimp without expressed written consent from Parker Parflex Division's technical support. Any worn connectors should be replaced immediately.

⚠ WARNING

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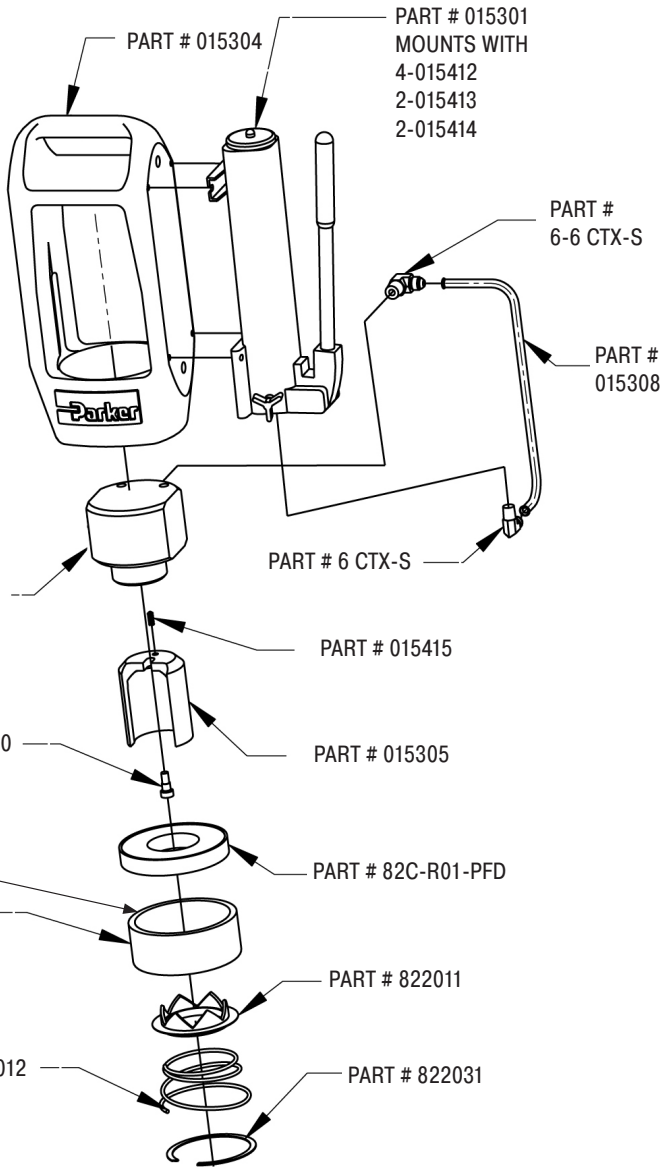
Crimpers

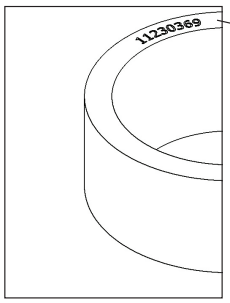
MiniKrimp™ Detail - Hand Pump



Hand Pump Model Details & Part List

Part No.	Description	Qty.
015301	2 Speed Light Weight Hand Pump	1
015302	Hardened Steel Sleeve	1
015303	Custom Cylinder	1
015304	Aluminum Frame	1
015305	Cup Pusher	1
015308	Bent Tube Assembly	1
015310	3/8" x 3/8" Shoulder Bolt	1
015415	Spring Plunger	1
6 CTX-S	3/8" 37° to 1/4" NPT Elbow	1
6-6 CTX-S	3/8" 37° to 3/8" NPT Elbow	1
822011	Die Separator	1
822012	Spring	1
822031	Retention Ring	1
82C-R01-PFD	Silver Die Ring	1
015411	3/8-16 18-8 SS SHCS 2.5" Long	2
015413	1/4-20 18-8 SS Lock Washer	2
015414	1/4-20 18-8 SS Flat Washer	2
015412	1/4-20 18-8 SS SHCS .75" Long	4





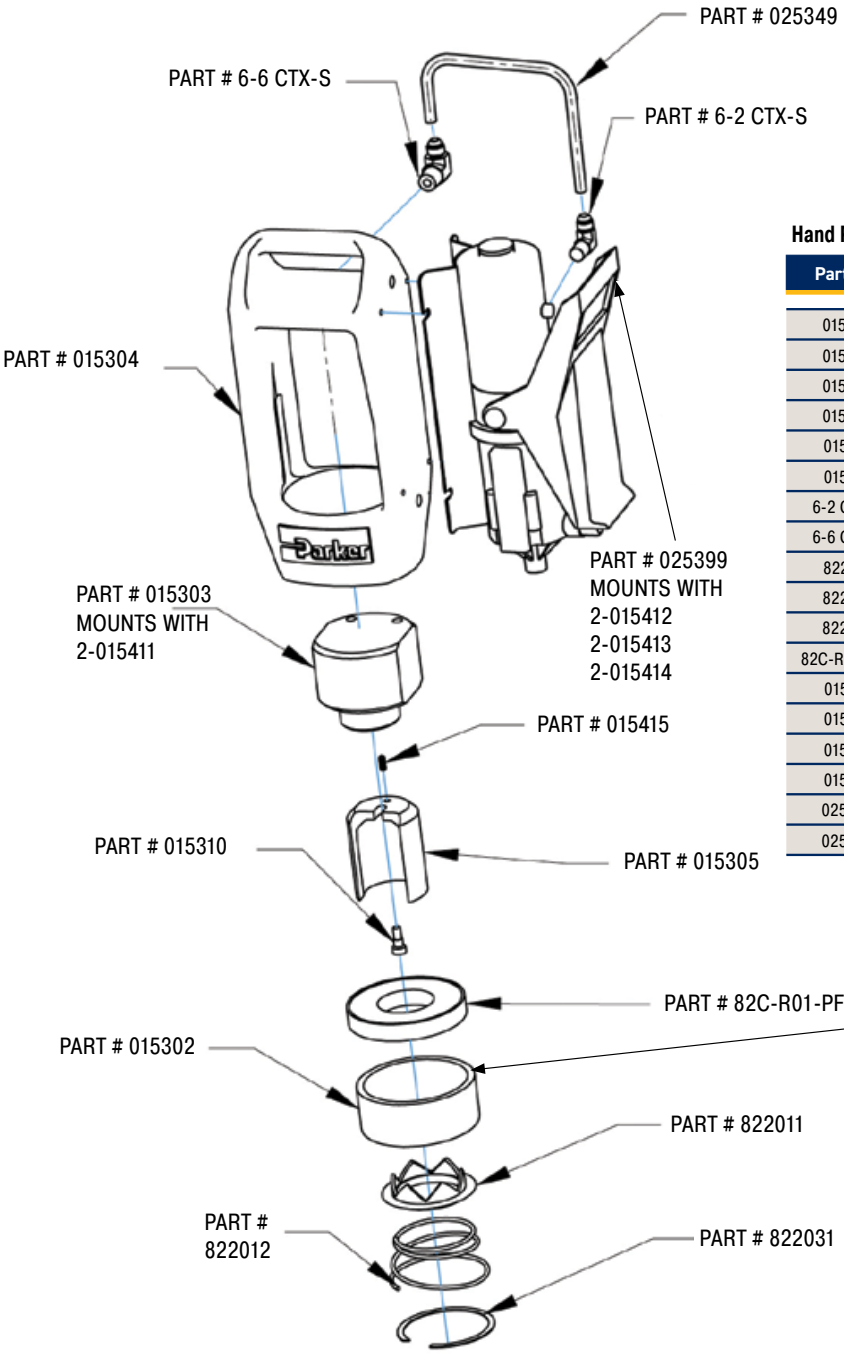
MiniKrimp™ Serial Number

⚠ WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Crimpers

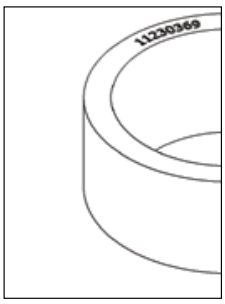
MiniKrimp™ Detail - Air Over Hydraulic





Hand Pump Model Details & Part List

Part No.	Description	Qty.
015302	Hardened Steel Sleeve	1
015303	Custom Cylinder	1
015304	Aluminum Frame	1
015305	Cup Pusher	1
015310	3/8" x 3/8" Shoulder Bolt	1
015415	Spring Plunger	1
6-2 CTX-S	3/8" 37° to 1/8" NPT Elbow	1
6-6 CTX-S	3/8" 37° to 3/8" NPT Elbow	1
822011	Die Separator	1
822012	Spring	1
822031	Retention Ring	1
82C-R01-PFD	Silver Die Ring	1
015411	3/8-16 18-8 SS SHCS 2.5" Long	2
015413	1/4-20 18-8 SS Lock Washer	2
015414	1/4-20 18-8 SS Flat Washer	2
015412	1/4-20 18-8 SS SHCS .75" Long	2
025349	Bent Tube Assembly	1
025399	Air Powered Pump	1



MiniKrimp™ Serial Number

⚠ WARNING

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Crimpers
Karrykrimp

Bench mounted design features fastest cycle time.



Features

- Portable, compact rugged design
- Compact bench mount design features faster cycle times
- Numerous portable power unit options available
- Pivoting pusher design for easy die change out
- Increased height enables longer bent tube fittings to be crimped
- Crimps most hoses up to 1-1/4 I.D.
- For use with 56, 91, 91N, 92, 93N, CG, CY, MS, SF, 43 and HY Series fittings
- **Do not** use this machine to assemble any size 56, CG, 93N or 43 series Stainless Steel fitting. Use a minimum of a 60 ton crimp machine such as the KarryKrimp II

Portable Unit Specifications
PN 82C-061L-PFD

- **Dimensions:** 12" Deep, 15" Wide, 30" High
- **Weight:** 70 lbs with power unit
- **Rating:** 30 tons force@10,000 psi maximum
- **Full Cycle Time:** 30 seconds

Bench Mounted Unit Specifications
PN 82C-KKB-PFD

- **Dimensions:** 23" Deep, 19" Wide, 27-1/2" High
- **Weight:** 220 lbs
- **Rating:** 30 tons force@10,000 psi maximum
- **Full Cycle Time:** 15 seconds
- **Hydraulic Fluid:** Enerpac HF oil only

Notes

- *Mounted unit is designed to make about 200 crimps per day and is not designed to be a production crimper. Exceeding these suggested production amounts will significantly reduce the life expectancy of the crimper components
- Motor is dual voltage, 50/60hz suitable for 208-230/115v. Motor can be rewired by a qualified electrician to operate at alternate voltage
- Reference CrimpSource on-line for detailed crimp specifications - www.parker.com/crimpsource

Karrykrimp Standard Equipment

Crimper Part Number			Description	Individual Part Number
82C-CHD-PFD	82C-061L-PFD	82C-KKB-PFD		
●	●	●	Crimp Head	82C-CHD-PFD
		●	Bench Power Unit Assembly	85C-ZMS-PFD
●	●	●	Silver Die Ring	82C-R01-PFD
●	●	●	Black Die Ring	82C-R02-PFD
	●		Hose Assembly	85C-00L-PFD
	●		Stand Assembly	85C-STD-PFD
		●	Hose Assembly	85C-03L-PFD

⚠ WARNING

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Crimpers
Karrykrimp 2

The same unit now offers portability and bench mountability.



Features

- Portable, compact rugged design
- Bench mount design features faster cycle times
- Numerous portable power unit options available
- Pivoting pusher design for easy die change out
- Crimps most hoses up to 1-1/4 I.D.
- For use with 56, 91, 91N, 92, 93N, CG, CY, MS, SF, 43 and HY Series fittings

Portable Unit Specifications
PN 85C-061L-PFD

- **Dimensions:** 14" Deep, 14" Wide, 31-1/2" High
- **Weight:** 120 lbs without power unit
- **Rating:** 60 tons force@10,000 psi maximum
- **Full Cycle Time:** 15 seconds

Bench Mounted Unit Specifications
PN 85C-KKB-PFD

- **Dimensions:** 24" Deep, 19" Wide, 28" High
- **Weight:** 265 lbs
- **Rating:** 60 tons force@10,000 psi maximum
- **Full Cycle Time:** 15 seconds
- **Hydraulic Fluid:** Enerpac HF oil only

Notes

- *Mounted unit is designed to make about 400 crimps per day and is not designed to be a production crimper. Exceeding these suggested production amounts will significantly reduce the life expectancy of the crimper components
- Motor is dual voltage, 50/60hz suitable for 208-230/115v. Motor can be rewired by a qualified electrician to operate at alternate voltage
- Reference CrimpSource on-line for detailed crimp specifications - www.parker.com/crimpsource

Karrykrimp 2 Standard Equipment

Crimper Part Number			Description	Individual Part Number
85C-CHD-PFD	85C-061L-PFD	85C-KKB-PFD		
●	●	●	Crimp Head	85C-CHD-PFD
		●	Bench Power Unit Assembly	85C-ZMS-PFD
●	●	●	Silver Die Ring	85C-R01-PFD
●	●	●	Black Die Ring	85C-R02-PFD
	●		Hose Assembly	85C-00L-PFD
	●		Stand Assembly	85C-STD-PFD
		●	Hose Assembly	85C-03L-PFD

⚠ WARNING

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Crimpers
Parkrimp 2

Crimps hoses up to 2" I.D.



Features

- Easy to use vertical design
- Crimps full range of Parker hoses from 1/8" through 2" I.D.
- For use with 56, 91, 91N, 92, 93N, CG, CY, MS, SF, 43 and HY Series fittings

Unit Specifications
PN 83C-081-PFD

- **Dimensions:** 24" Deep, 31" Wide, 77" High
- **Weight:** 842 lbs (Head is 558 lbs and base is 284 lbs)
- **Rating:** 125 ton force@5,000 psi maximum
- **Full Cycle Time:** 30 seconds without adapter bowl
  20 seconds with adapter bowl
- **Hydraulic oil:** Enerpac HF oil only

Notes

- Reference CrimpSource on-line for detailed crimp specifications - www.parker.com/crimpsource

Parkrimp 2 Standard Equipment

Crimper Part Number 83C-081-PFD	Crimper Part Number 83C-082-PFD	Description	Individual Part Number
●	●	Parkrimp 2 Crimper Head Assembly	83C-080-PFD
●		Parkrimp 2 Stand Assembly with 230/460 volt, 3 phase, 50/60 Hz power unit (wired for 230 volt)	83C-S40-PFD
	●	Parkrimp 2 Stand Assembly with 230 volt, 1 phase, 50/60 Hz power unit	83C-S20-PFD
●	●	Adapter Bowl	83C-OCB-PFD
●	●	Spacer Ring	83C-R02-PFD
●	●	Spacer Plates	83C-R02H-PFD

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Accessories
Air/Hydraulic & Hand Pumps

Use only with the MiniKrimp



Air/Hydraulic Pump Part No. 025399

- Lightweight pump operates with 80-110 psi shop air pressure and delivers 10,000 psi
  - Length: 13"
  - Width: 4-1/2"
  - Height: 5"
  - Intake Port Size: 1/4" NPTF
  - Output Port Size: 1/8" NPTF
  - Weight: 12 lbs.
  - Hydraulic Fluid: Enerpac oil only



Hand Pump Part No. 015301

- Ease of operation hand pump delivers 10,000 psi
  - Length: 13-3/8"
  - Width: 3-1/4"
  - Height: 3-5/8"
  - Port Size: 1/4" NPTF
  - Weight: 4.7 lbs.
  - Hydraulic Fluid: Enerpac oil only

Use with the MiniKrimp, Karrykrimp and Karrykrimp 2



Air/Hydraulic Pump Part No. 82C-0AP-PFD

- Lightweight pump operates with 80-110 psi shop air pressure and delivers 10,000 psi
  - Length: 15"
  - Width: 6"
  - Height: 6"
  - Intake Port Size: 1/4" NPTF
  - Output Port Size: 3/8" NPTF
  - Weight: 14 lbs.
  - Hydraulic Fluid: Enerpac HF oil only



Hand Pump Part No. 82C-0HP-PFD

- Ease of operation hand pump delivers 10,000 psi
  - Length: 23"
  - Width: 4"
  - Height: 5"
  - Port Size: 3/8" NPTF
  - Weight: 9.0 lbs.
  - Hydraulic Fluid: Enerpac oil HF only



Hand Pump Part No. 85C-0HP-PFD

- Ease of operation hand pump delivers 10,000 psi
  - Length: 29"
  - Width: 13"
  - Height: 11"
  - Port Size: 3/8" NPTF
  - Weight: 61 lbs.
  - Hydraulic Fluid: Enerpac oil only

⚠ WARNING

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Accessories
Electric Pumps

Use with the MiniKrimp, Karrykrimp and Karrykrimp 2



Electric Part No. 82C-0EP-PFD

- Ease of operation electric pump delivers 10,000 psi
  - Length: 13"
  - Width: 13"
  - Height: 15"
  - Port Size: 3/8" NPTF
  - Weight: 31 lbs.
  - Hydraulic Fluid: Enerpac oil only
  - 115 volt, 1 phase, 50/60 Hz, 9 amp



Electric Part No. 85C-0EP-PFD

- Heavy duty electric pump delivers 10,000 psi at a faster cycle time
  - Length: 19"
  - Width: 11"
  - Height: 17"
  - Port Size: 3/8" NPTF
  - Weight: 59 lbs.
  - Hydraulic Fluid: Enerpac oil only
  - 115 volt, 1 phase, 50/60 Hz, 20 amp

Swagers
Swager/Mender



Swager/Mender Part No. SQ-101-SW

- Used for field assembly or repair on Predator S5N, S6 and S9 hoses

Swage Data For Sewer Cleaning Hose (SQ-101-SW SWAGE MACHINE ONLY)

Hose Type.	Hose I.D.	Male Pipe			Mender/Splicer		Swage O.D. +/- .015	Swage Length
		Fitting Part Number	Die Part Number	Pusher Part Number	Fitting Part Number	Die Part Number	inch	inch
S508N	1/2	-	-	-	1HU55-8-8	SQ-101-08S5S	0.850	0.750
S612	3/4	101SQ-12-12	SQ-101-12S6/S9	SQ-101-12P	1HUSQ-12-12	SQ-101-12S6/S9	1.172	1.109
S616	1	101SQ-16-16	SQ-101-16S6	SQ-101-16P	1HUSQ-16-16	SQ-101-16S6	1.445	1.156
S912	3/4	101SQ-12-12	SQ-101-12S6/S9	SQ-101-12P	1HUSQ-12-12	SQ-101-12S6/S9	1.172	1.109
S916	1	101SQ-16-16	SQ-101-16S9	SQ-101-16P	1HUSQ-16-16	SQ-101-16S9	1.488	1.156

Comments:

- Two dies required when swaging a mender/splicer fitting. A pusher is not required when swaging a mender/splicer fitting
- One die and one pusher required when swaging a male pipe fitting. For end fitting attachment, reference www.parker.com/crimpsource
- End fittings cannot be swaged on S5N series hose. Only mender/splicers can be swaged
- The information covered in the Swage Specification & Tool Selection Chart pertains to steel hose fittings. Swage diameter roundness shall not vary by more than .010". Swage diameters are measured in the center of the swage area. Parflex Division reserves the right to alter swage specifications.

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Accessories
Parkrimp Dies



Parkrimp Dies

- Parkrimp dies, specifically engineered for thermoplastic and fluoropolymer hose:
  - Linked die segments
  - Pre-matched and assembled
  - Fitting size color coded

Approved Silver Die Rings

Approved Die	Machine
NA*	Parkrimp 2
82C-R01-PFD	Karrykrimp and MiniKrimp
85C-R01-PFD	Karrykrimp 2

* No additional silver die rings required.

Note: Parflex dies have been designed for use with the silver die ring. Silver die rings are to be used with all Parflex hoses unless otherwise specified.

For most Parker products, Crimp Die information and selection charts can be found online at www.parker.com/crimpsource.

Colors

Color Code

Size	Color
-1.5	Gray
-2	Brown
-3	Gray
-4	Red
-5	Purple
-6	Yellow
-8	Blue
-10	Orange
-12	Green
-16	Black
-20	White
-24	Red
-32	Green

Vise & Insertion Depth Blocks



Vise Blocks for Parflex Hose Sizes

Part No.		Hose Size	
VBS	For Hose Sizes	-2	1/8
		-3	3/16
		-4	1/4
		-5	5/16
		-6	3/8
		-8	1/2

Part No.		Hose Size	
VBL	For Hose Sizes	-12	3/4
		-16	1



Hose Insertion Depth Blocks Part No. TH9-1-xxx

Part No.	Description
TH9-1-CG	CG Series. All sizes.
TH9-1-56	56 Series. All sizes.
TH9-1-91N	91N Series. All sizes.
TH9-1-93N_20-32	93N Series. Sizes: -20 to -32
TH9-1-93N_6-16	93N Series. Sizes: -6 to -16

Part No.	Description
TH9-1-94_95	94 & 95 Series. All sizes.
TH9-1-CY_SF	CY & SF Series. All sizes.
TH9-1-MS	MS Series. All sizes.
TH9-1-HY	HY Series. All sizes.

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Accessories
Hose Guards



PV - Clear Vinyl Hose Guard

Part Number	Guard I.D. inch	Guard I.D. mm	Standard Length feet	Standard Length meter
PV97-1	0.44	11	100	30.5
PV139-1	0.56	14	100	30.5
PV1611-1	0.68	17	100	30.5

Part Number	Guard I.D. inch	Guard I.D. mm	Standard Length feet	Standard Length meter
PV2014-1	0.87	22	50	15.2
PV2420-1	1.25	32	50	15.2
PV3224-1	1.5	38	50	15.2



HBR - Hose Bend Restrictor (Black Elastomer)

Part Number	Hose Size inch	Hose Size mm	L inch	L mm	D1 inch	D1 mm	D2 inch	D2 mm
HBR-4	1/4	6	5	127	0.6	15	0.5	13
HBR-6	3/8	10	6	152	0.64	16	0.625	16

- Parker reserves the right to change dimensions and performance parameters without notice



5CNG/5CNGLT - Black Vinyl CNG Hose Guard

Hose Part No.	Hose Guard Part No.
5CNG-4	CNGG5-4
5CNG-6	HBR-6
5CNG-8	CNGG5-8

Hose Part No.	Hose Guard Part No.
5CNG/5CNGLT-12	CNGG5-12
5CNG-16	CNGG5-16

- Use with Parflex CNG hose



SSG Pre-made Spring Guards - Plated, hard-drawn steel wire

Part Number	Guard I.D. inch	Guard I.D. mm	Standard Length inch	Standard Length mm
55SSG-3	0.44	11	6	152
55SSG-4	0.55	14	6	152
55SSG-5	0.61	15	6	152

Part Number	Guard I.D. inch	Guard I.D. mm	Standard Length inch	Standard Length mm
55SSG-6	0.68	17	6	152
55SSG-8	0.83	21	6	152
55SSG-12	1.09	28	7	178



PSG Pre-made Spring Guards - For CNG Hose - Stainless Steel

Part Number	Guard I.D. inch	Guard I.D. mm	Standard Length inch	Standard Length mm
3PSG-4	0.54	14	6.25	159
5PSG-4	0.57	14	6.25	159

Part Number	Guard I.D. inch	Guard I.D. mm	Standard Length inch	Standard Length mm
5PSG-6	0.68	17	6.5	165
5PSG-8	0.90	23	6.5	165

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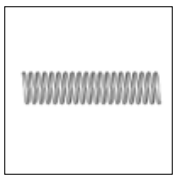
Accessories
Hose Guards



SG Pre-made Spring Guards - Plated, hard-drawn steel wire

Part Number	Guard I.D. inch	Guard I.D. mm	Standard Length feet	Standard Length meter
55SG-3	0.47	12	25	7.6
55SG-4	0.55	14	25	7.6
55SG-5	0.61	16	25	7.6

Part Number	Guard I.D. inch	Guard I.D. mm	Standard Length feet	Standard Length meter
55SG-6	0.67	17	25	7.6
55SG-8	0.83	21	25	7.6
55SG-12	1.09	28	10	3



Everthaw™ Heated Hose Protection Sleeve

Part Number	Minimum O.D. Hose inch	Minimum O.D. Hose mm	Maximum O.D. Hose inch	Maximum O.D. Hose mm	Power Connection
55SG-12	1	25.4	1-1/2	38/1	12V or 24V DC

Hose Guards for PTFE Hose



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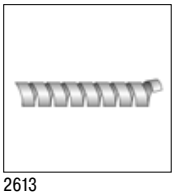

2613



FS

Hose		Max O.D. inch	Partek Sleeve	Internal Flat Spring	Fire Sleeve
919/929	-4	0.32	-	-	FS-F-5
	-5	0.40	-	-	FS-F-7
	-6	0.46	AS-Y-11/AS-B-11	-	FS-F-8
	-8	0.56	AS-Y-11/AS-B-11	2613-13CR	FS-F-10
	-10	0.66	AS-Y-13/AS-B-13	2613-16CR	FS-F-12
	-12	0.79	AS-Y-15/AS-B-15	2613-20CR	FS-F-14
	-16	1.05	AS-Y-17/AS-B-17	2613-28CR	FS-F-20
	-20	1.32	AS-Y-22/AS-B-22	2613-37CR	FS-F-24
939	-4	0.48	AS-Y-11/AS-B-11	-	FS-F-10
	-6	0.59	AS-Y-13/AS-B-13	-	FS-F-11
	-8	0.75	AS-Y-15/AS-B-15	-	FS-F-14
	-10	0.88	AS-Y-17/AS-B-17	-	FS-F-16
	-12	1.09	AS-Y-19/AS-B-19	-	FS-F-20
	-16	1.33	AS-Y-27/AS-B-27	-	FS-F-24
	-20	1.75	AS-Y-35/AS-B-35	-	FS-F-32
	-24	2.05	AS-Y-39/AS-B-39	-	FS-F-38
	-32	2.56	AS-Y-47/AS-B-47	-	FS-F-48
943	-6	0.49	AS-Y-11/AS-B-11	-	FS-F-10
	-8	0.62	AS-Y-13/AS-B-13	2613-13CR	FS-F-11
	-10	0.73	AS-Y-15/AS-B-15	2613-16CR	FS-F-14
	-12	0.99	AS-Y-17/AS-B-17	2613-20CR	FS-F-18
	-16	1.39	AS-Y-27/AS-B-27	2613-28CR	FS-F-24

NOTE: Partek sleeves come in yellow and black.
All internal guards are fabricated from 300 series stainless steel.

⚠ WARNING
This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Accessories
PSG Hose Guard

Superior anti-crush performance.
Easy installation.



Features

- High-strength and resilient, Parflex Spiral Guard (PSG) protects hose and cable with superior anti-crush performance
- Exceptionally smooth facing and rounded edges prevent spiral guard from getting caught on rough surfaces
- Easy installation and routing
- Low friction interior minimizes wear on hose
- Delivers more advantages than cut pipe or sleeving at a competitive price or less
- For bundling, organizing and protecting hose and cable, PSG is the superior solution for mining operations
- PSG is available in:
  - An MSHA/FRAS approved version for underground mining
  - A standard version (with yellow stripe) for surface applications not requiring fire-resistant, anti-static properties
- Manufactured with high density polyethylene materials

PSG Hose Guard

Part Number	Hose O.D. Range		Package Qty.		1-Wire Braid Size		2-Wire Braid Size		Multi-Spiral Size		Weight	
	mm	inch	meter	feet	inch	mm	inch	mm	inch	mm	lbs./ft.	kg/mtr
PSG-12	10 – 13	.394-.512	20	65.6	-	-	-	-	-	-	0.034	0.015
PSG-FRAS-16 or PSG- 16	12 – 17	.472-.669	20	65.6	1/4	6	1/4	6	-	-	0.040	0.018
PSG-FRAS-20 or PSG-20	16 – 22	.630-.866	20	65.6	3/8	10	1/4 3/8	6 10	3/8	10	0.060	0.027
PSG-FRAS-25 or PSG-25	22 – 28	.866-1.10	20	65.6	1/2 5/8	13 16	1/2 5/8	13 16	1/2 5/8	13 16	0.101	0.046
PSG-FRAS-32 or PSG-32	27 – 33	1.06-1.30	20	65.6	3/4	19	5/8 3/4	16 19	5/8 3/4	16 19	0.151	0.068
PSG-FRAS-40 or PSG-40	33 – 42	1.30-1.65	20	65.6	1	25	1	25	1	25	0.235	0.107
PSG-FRAS-50 or PSG-50	42 – 55	1.65-2.17	20	65.6	1-1/4 1-1/2	32 38	1-1/4	32	1-1/4 1-1/2	32 38	0.268	0.122
PSG-FRAS-63 or PSG-63	52 – 65	2.05-2.56	20	65.6	2	51	1-1/2	38	1-1/2	38	0.402	0.182
PSG-FRAS-75 or PSG-75	65 – 80	2.56-3.15	10	32.8	-	-	2	51	2	51	0.637	0.289
PSG-FRAS-90 or PSG-90	80 – 150	3.15-5.91	10	32.8	-	-	-	-	-	-	0.771	0.350
PSG-FRAS-110 or PSG-110	150 – above	5.91-above	10	32.8	-	-	-	-	-	-	1.000	0.454

⚠ WARNING
This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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Accessories
Cutters



Hose Cut-Off Machine Part No. TH3-EM3-110V-PFD

- Supplied with a vacuum port to remove smoke and debris while cutting
- Standard diamond-coated blade included
- Cuts wire reinforced hoses, including 6 heavy spiral constructions, up to 1-1/4" I.D.
- Dimensions: 17" wide x 21" long x 12" high
- Shipping Weight: 95 lbs.

Part No.	Description	Individual Part No.
TH3-EM3-110V-PFD	Hose Cut-Off Machine wired for 110-115 V	TH3-EM3-110V-PFD



Push-Lok Cut-Off & Assembly Tool Part No. 881540-PFD

- Combines hose cutter and toggle action press
- Cuts and assembles Parker B9 and 83FR in sizes 1/4" through 3/4" I.D.



Hose & Tubing Cutter Part No. HTC

- Special V-block design with easy adjustable blade ensures a straight, clean cut
- Minimal flattening of hose/tubing during cutting - Straight, square cut enhances fitting retention
- Cuts up to 1" O.D. hose or tubing (Non-wire reinforced thermoplastic hose and tubing and rubber hose and tubing)
- Replacement blades: part no. HTC-RB



Hose Cut-Off Tool Part No. TH11-1-PFD

- Designed for quick, easy cutting of fiber reinforced hose
- Squarely cuts fiber reinforced hoses in sizes 1/4" through 3/4" I.D.

⚠ WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Cutters
MiniKrimp™ Accessories



Plastic Tube Cutter Part No. PTC

- Razor-edged tube cutter
- Closes automatically, assuring clean and square cuts
- May be used with most plastic tubing up to 5/8" I.D.
- Replacement blades: part no. PTC-001-RB



Parflex Skive Tool Part No. PST

- Removes outer jacket on two layered contruction tubing without damaging inner tube
- Use with Parflex 95FR tubing in sizes 1/4" through 1/2" I.D.

⚠ WARNING

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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General Technical

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Updated August 6, 2025

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Parflex®
Partner. Innovator. Leader.

Hose Assembly and Crimping
How To Use Crimpsource

1 Data

The most up-to-date information for crimping is located at www.parker.com/crimpsource. Not only is it accurate, but it is easy.

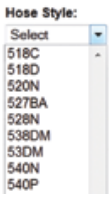
Note
- ✔ If the hose does not come up, then you cannot crimp that hose on the machine you selected.
- ✔ If the fitting/size you choose doesn't come up, then that series is not available for that hose.

www.parker.com/crimpsource

2 Make Your Selections



Choose the correction machine.



Choose the hose you are crimping.

Note - If the hose does not come up, then he crimper chosen does not work with the selected hose.



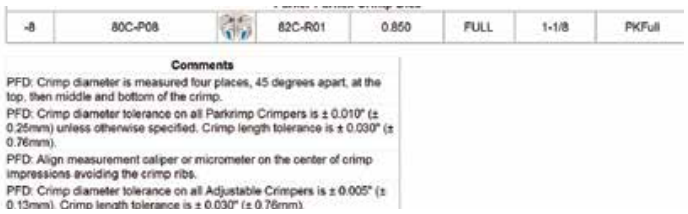
Choose the fitting style.



Choose the fittings size. Once you have selected values from each field, hit the search button.

Note - If the fitting/size does not come up, the series and or size is not available for the selected hose.

3 Review the Results



-8	80C-P08		82C-R01	0.850	FULL	1-1/8	PKFull

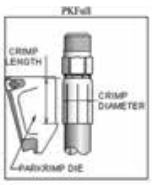
Comments

PFD: Crimp diameter is measured four places, 45 degrees apart, at the top, then middle and bottom of the crimp.

PFD: Crimp diameter tolerance on all Parkrimp Crimpers is ± 0.010" (± 0.25mm) unless otherwise specified. Crimp length tolerance is ± 0.030" (± 0.76mm).

PFD: Align measurement caliper or micrometer on the center of crimp impressions avoiding the crimp ribs.

PFD: Crimp diameter tolerance on all Adjustable Crimpers is ± 0.005" (± 0.13mm). Crimp length tolerance is ± 0.030" (± 0.76mm).



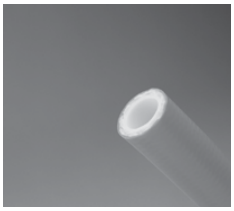
Updated August 6, 2025

Hose Assembly and Crimping

Permanent Crimp - Series 56, CG, 92, CY, MS, SF

CAUTION
There are several sections for Hose Assembly and Crimping. Be sure you are in the section that corresponds to the fitting series you are using. See Table of Contents for listing.

1 Inspection



Hose – Visually inspect both ends of hose for square cut. Remove any burrs, loose fibers or wires.



Fittings – Verify fitting series corresponds to the selected hose. Visually inspect fitting(s) for a through-hole, threads and damage.

2 Assembly Prep



Insertion Depth – Mark hose end with proper insertion depth line. Shown is a 56 Series fitting. See Hose Fitting Insertion Values, pg. E-10 for insertion depths of fitting series that do not incorporate an insertion depth.



Lubrication (as required) – Using an SAE 20 weight lubricating oil, lightly lubricate inside of hose end.

Warning Do not use lubricating oil when installing fittings on hose used in breathing air systems.

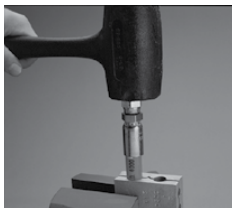
When installing fittings on hose used in breathing air systems, lubricate with a non-oil based soap solution as failure to do so may result in personal injury.

3 Assembly



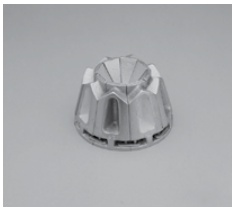
Assemble Hose – Push hose into fitting all the way to depth insertion mark.

If fitting does not readily slide onto hose, perform the next step.



Using Parker VBS or VBL (vise blocks) and a rubber mallet, tap fitting onto hose until bottom of fitting shell is aligned with depth insertion mark.

4 Die Selection



Select proper Parkrimp die set.

Reference Crimp Die Selection at Crimpsource online.

www.parker.com/crimpsource

5 Lubricate Bowl



Grease frequently using a premium, quality, lithium-based grease. Apply a thin layer of grease on bowl of crimper base plate.

Hose Assembly and Crimping

Permanent Crimp - Series 56, CG, 92, CY, MS, SF

CAUTION
There are several sections for Hose Assembly and Crimping. Be sure you are in the section that corresponds to the fitting series you are using. See Table of Contents for listing.

6 Die and Spacer Ring



Crimp Die – Place die set into bowl.

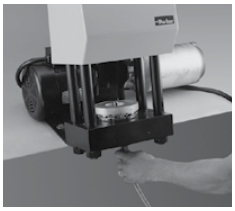


Die Ring – Place applicable die ring on top of crimp die. Position die ring so it is centered on the crimp die. Parflex utilizes the Silver die ring (8XC-R01) with limited exception

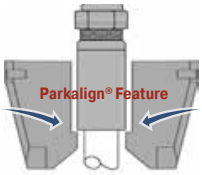
Reference proper tooling (crimp die and die ring) at Crimpsource on-line.

www.parker.com/crimpsource

7 Crimp



Assemble Hose – Insert hose and fitting from bottom of crimper and up through die set. Position fitting so bottom of fitting skirt rests on die step (PARKALIGN® feature).



While holding hose and fitting in position on die step, crimp fitting onto hose until die ring contacts base plate.

Note - Pump on crimper must not exceed the rated pressure of the crimper being used. Parker Hannifin will not accept responsibility for the operation of or provide warranty coverage for a crimper that is operated by a power unit other than equipment supplied by Parker Hannifin for the express purpose of operating

Warning Keep fingers and hands away from die-pusher area. Failure to do so may result in personal injury.

8 Measure & Inspect



Measure and verify hose assembly length.

Inspect insertion depth mark at fitting ends. Insertion mark must be visible but not exceed 1/8" from end of crimped fitting shell.



Measure crimp diameter of each fitting at the top, middle and bottom of the crimp shell. Take measurements at a minimum of three (3) places around the shell circumference.

Crimp acceptance is based on the middle measurement average with a maximum taper of 0.010" between the top and bottom crimp averages. No single measurement outside the specification is permissible.

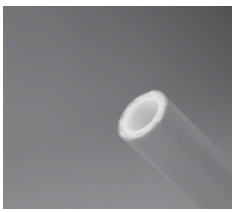
Updated August 6, 2025

Minikrimp Fitting Assembly

Permanent Crimp - Series 56, CG, 92, CY, MS, SF

CAUTION
There are several sections for Hose Assembly and Crimping. Be sure you are in the section that corresponds to the fitting series you are using. See Table of Contents for listing.

1 Inspection



Hose – Visually inspect both ends of hose for square cut. Remove any burrs, loose fibers or wires.



Fittings – Verify fitting series corresponds to the selected hose. Visually inspect fitting(s) for a through-hole, threads and damage.

2 Assembly Prep



Insertion Depth – Mark hose end with proper insertion depth line. Shown is a 56 Series fitting. See Hose Fitting Insertion Values, pg. E-10 for insertion depths of fitting series that do not incorporate an insertion depth.



Lubrication (as required) – Using an SAE 20 weight lubricating oil, lightly lubricate inside of hose end.

Warning Do not use lubricating oil when installing fittings on hose used in breathing air systems.

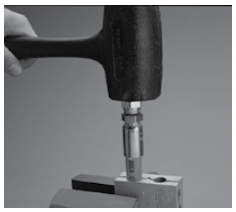
When installing fittings on hose used in breathing air systems, lubricate with a non-oil based soap solution as failure to do so may result in personal injury.

3 Assembly



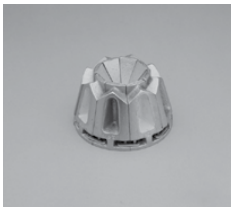
Assemble Hose – Push hose into fitting all the way to depth insertion mark.

If fitting does not readily slide onto hose, perform the next step.



Using Parker VBS or VBL (vise blocks) and a rubber mallet, tap fitting onto hose until bottom of fitting shell is aligned with depth insertion mark.

4 Die Selection



Select proper Parkrimp die set.

Reference Crimp Die Selection at Crimpsource online.

www.parker.com/crimpsource

5 Lubricate Bowl



Remove pusher from shoulder bolt.

Using a premium, quality, lithium-based grease, apply a thin layer of grease on bowl of crimper baseplate.

Minikrimp Fitting Assembly

Permanent Crimp - Series 56, CG, 92, CY, MS, SF

CAUTION
There are several sections for Hose Assembly and Crimping. Be sure you are in the section that corresponds to the fitting series you are using. See Table of Contents for listing.

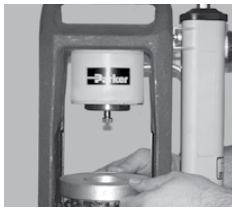
6 Die and Spacer Ring





Crimp Die – Place die set into bowl.

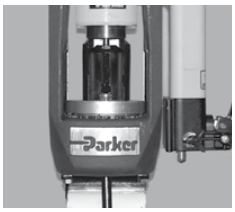
Replace pusher onto shoulder bolt.



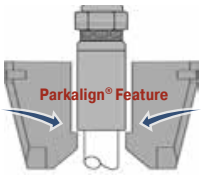
Die Ring – Place applicable die ring on top of crimp die. Position die ring so it is centered on the crimp die. Parflex utilizes the Silver die ring (8XC-R01) with limited exception.

Reference proper tooling (crimp die and die ring) at Crimpsource on-line. www.parker.com/crimpsource

7 Crimp



Assemble Hose – Insert hose and fitting from bottom of crimper and up through die set. Position fitting so bottom of fitting skirt rests on die step (PARKALIGN® feature).



While holding hose and fitting in position on die step, crimp fitting onto hose until die ring contacts base plate.

Note - Pump on crimper must not exceed the rated pressure of the crimper being used. Parker Hannifin will not accept responsibility for the operation of or provide warranty coverage for a crimper that is operated by a power unit other than equipment supplied by Parker Hannifin for the express purpose of operating

Warning Keep fingers and hands away from die-pusher area. Failure to do so may result in personal injury.

8 Measure & Inspect



Measure and verify hose assembly length.

Inspect insertion depth mark at fitting ends. Insertion mark must be visible but not exceed 1/8" from end of crimped fitting shell.



Measure crimp diameter of each fitting at the top, middle and bottom of the crimp shell. Take measurements at a minimum of three (3) places around the shell circumference.

Crimp acceptance is based on the middle measurement average with a maximum taper of 0.010" between the top and bottom crimp averages. No single measurement outside the specification is permissible.

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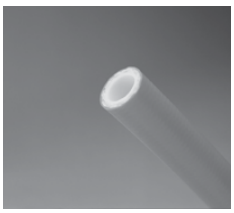
Field Attachable Assembly
Series 51, 51R, BU, MS

CAUTION
There are several sections for Hose Assembly and Crimping. Be sure you are in the section that corresponds to the fitting series you are using. See Table of Contents for listing.

1 Inspection

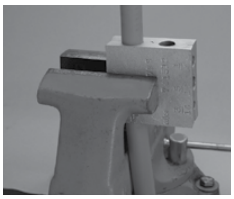


Hose – Visually inspect both ends of hose for square cut. Remove any burrs, loose fibers or wires.



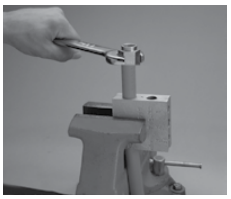
Fittings – Inspect nipple for a through-hole, damaged or missing threads and improperly crimped nut (if applicable). Do not use if these conditions exist. Inspect socket for damaged or missing threads. Do not use if conditions exist.

2 Assembly



Using the Parker VBS or VBL vise block, place hose in proper hole of the vise block and then clamp in a bench vise. Ensure enough hose extends from the vise block to install socket.

Caution Ensure hose is installed in correct size hole of vise block. Clamping hose in a smaller hole will crush hose.



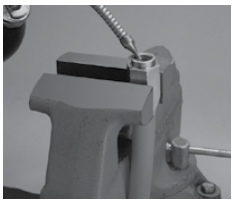
Using a wrench or deep well socket with 51R, screw the socket onto the hose counterclockwise until it bottoms. Ensure end of hose is against inside shoulder. Back off socket 1/4 turn clockwise.

Socket should be firm when tightened but not difficult to install. If socket is difficult to install, apply lubricant that is compatible with the hose material.

The 51R Series Field-attachable fitting features an optional deep-well socket assembly procedure with either ratchet or power drill at low speed allowing for quick, power assist assembly giving you more control on the turn and rate.

Note
- MS Series - Do not use a lubricant.
- 51R Series - Lubrication, using a SAE 20 weight lubricating oil, must be used for assembly.

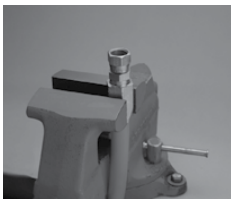
3 Assembly



Place hex portion of socket into vise and tighten vise. Ensure socket extends past vise jaws enough to allow for installation of nipple

Caution When tightening socket in vise, do not over tighten vise jaws. Over tightening vise jaws will distort internal threads of socket and hamper installation of nipple.

Using an SAE 20 weight lubricating oil, generously lubricate nipple and socket, threads and hose I.D.

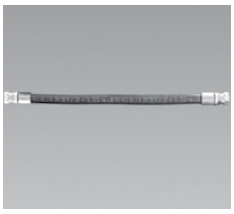


Using using a wrench on the nipple hex, screw nipple into socket clockwise until nipple bottoms against socket shoulder.

Caution Nipple should be firm when tightened but not difficult to turn. If nipple is difficult to install, check hose for proper lubrication. Re-apply lubricating oil as necessary. Installation of nipple without proper lubrication will damage core tube.

Note - For 51R-series fittings, the nipple will thread directly into the hose and socket.

4 Measure and Inspect



Measure and verify hose assembly length.

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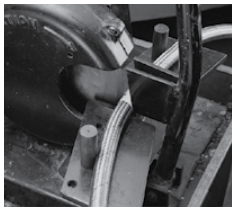
PTFE Assembly

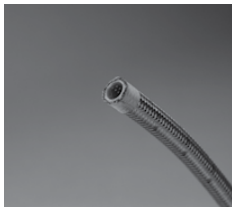
Permanent Crimp - Series 91, 91N, 93N

CAUTION
There are several sections for Hose Assembly and Crimping. Be sure you are in the section that corresponds to the fitting series you are using. See Table of Contents for listing.

1 Cut



Using a power hose cut-off saw, cut hose squarely.



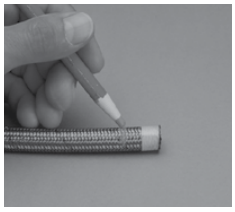
Visually inspect both ends of hose for square cut. Remove any burrs, loose fibers or wires.



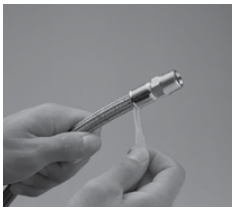
Fittings – Inspect nipple for a through-hole, damaged or missing threads and improperly crimped nut (if applicable). Do not use if these conditions exist. Inspect socket for damaged or missing threads. Do not use if conditions exist.

Note
✔ 93N Series -Make certain crimp shell is screwed tight to the nipple.

2 Assembly



Insertion Depth – Mark hose end with proper insertion depth line. See Hose Fitting Insertion Values, E-10 for insertion depths of fitting series that do not incorporate an insertion depth. For jacketed PTFE hoses, use a sharp knife and light pressure to cut back the cover at least the length of the insertion depth of the fitting.

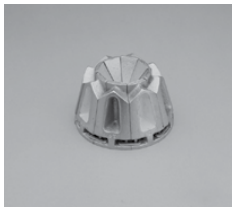


Assemble Hose – Push fitting onto hose slightly and then remove tape. Continue pushing fitting onto hose until fitting reaches depth insertion mark.

Warning Do not use lubricating oil when installing fittings on hose used in breathing air systems.

When installing fittings on hose used in breathing air systems, lubricate with a non-oil based soap solution as failure to do so may result in personal injury. personal injury when hose is used.

3 Die Selection



Select proper Parkrimp die set.

Reference Crimp Die Selection at Crimpsource online.

www.parker.com/crimpsource

4 Lubricate Bowl



Using a premium, quality, lithium-based grease. Apply a thin layer of grease on bowl of crimper base plate.

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PTFE Assembly

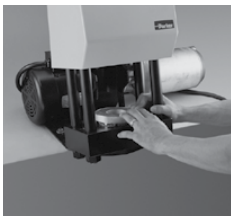
Permanent Crimp - Series 91, 91N, 93N

CAUTION
There are several sections for Hose Assembly and Crimping. Be sure you are in the section that corresponds to the fitting series you are using. See Table of Contents for listing.

5 Die and Spacer Ring



Crimp Die – Place die set into bowl.



Die Ring – Place applicable die ring on top of crimp die. Position die ring so it is centered on the crimp die. Parflex utilizes the Silver die ring (8XC-R01) with limited exception.

Reference proper tooling (crimp die and die ring) at Crimpsource on-line.

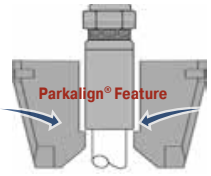
www,parker.com/crimpsource

6 Crimp



Assemble Hose – Insert hose and fitting from bottom of crimper and up through die set. Position fitting so bottom of fitting skirt rests on die step (PARKALIGN® feature).

Warning Keep fingers and hands away from die-pusher area. Failure to do so may result in personal injur. Note - Pump on crimper must not exceed the rated pressure of the crimper being used. Parker Hannifin will not accept responsibility for the operation of or provide warranty coverage for a crimper that is operated by a power unit other than equipment supplied by Parker Hannifin for the express purpose of operating .



While holding hose and fitting in position on die step, crimp fitting onto hose until die ring contacts base plate.

Note - Pump on crimper must not exceed the rated pressure of the crimper being used. Parker Hannifin will not accept responsibility for the operation of or provide warranty coverage for a crimper that is operated by a power unit other than equipment supplied by Parker Hannifin for the express purpose of operating

Warning Keep fingers and hands away from die-pusher area. Failure to do so may result in personal injury.

7 Measure & Inspect



Measure and verify hose assembly length.

Inspect insertion depth mark at fitting ends. Insertion mark must be visible but not exceed 1/8" from end of crimped fitting shell.



Measure crimp diameter of each fitting at the top, middle and bottom of the crimp shell. Take measurements at a minimum of three (3) places around the shell circumference.

Crimp acceptance is based on the middle measurement average with a maximum taper of 0.010" between the top and bottom crimp averages. No single measurement outside the specification is permissible.

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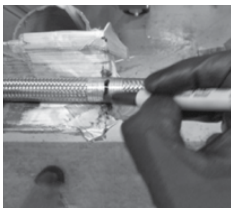
PTFE Assembly
Permanent Crimp - Series PAGE

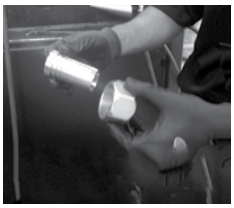
CAUTION
There are several sections for Hose Assembly and Crimping. Be sure you are in the section that corresponds to the fitting series you are using. See Table of Contents for listing.

1 Inspection/Marking



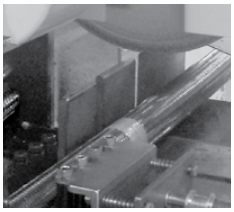
Obtain correct hose, fittings and collars per customer order. Inspect to make certain no defects are present on fittings, collars or hose.

Using 1" wide filament tape, apply 1 to 1½ wraps of tape tightly around hose at location to be cut. Mark tape in the middle where cut will be made. Tape will be left on during crimping so only ½" width of tape should remain.



Fittings – Inspect each component for possible damage. In addition, inspect socket and nipple for a through-hole and threads.

2 Assembly

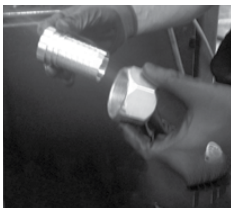


Cut hose.

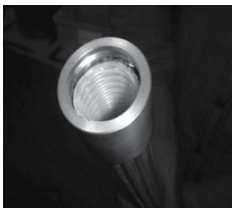


Blow ends of hose off / out to remove any debris left from cutting operation. Cut off wires or fabric extending past the end of the hose.

3 Assembly



PAGE series fittings are not one piece but two pieces (insert plus collar) and must be properly installed to assure leak free long life assemblies.



Orient and place collar on hose end fully.

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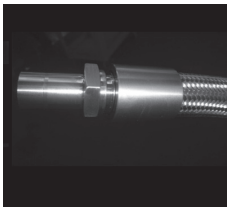
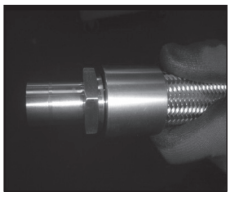
PTFE Assembly
Permanent Crimp - Series PAGE

CAUTION
There are several sections for Hose Assembly and Crimping. Be sure you are in the section that corresponds to the fitting series you are using. See Table of Contents for listing.

4 Assembly

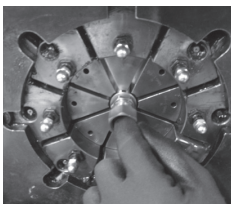




Using a taper punch, push punch into tube to enlarge bore of hose so insert just slides into hose.

Push insert into hose until lock groove of insert is just at end of collar.

Pull collar out towards end of insert until at correct crimp position on insert of collar.



Warning Keep fingers and hands away from die-pusher area. Failure to do so may result in personal injury.

Crimp assembly only in Parker Approved adjustable crimper. Select correct die and crimp spec from Parker Crimp Source.

www.parker.com/crimpsource

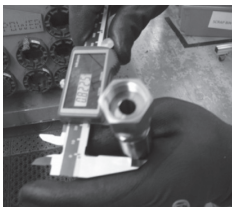
a. Place assembly into crimp dies so full collar length crimp is obtained.

b. Check crimp dimensions in four places around the middle of the crimp circumference. Verify the average of those readings is within crimp specification tolerances.

Adjust crimper up or down if needed to obtain proper dimension.

c. Crimp opposite end following the same procedures.

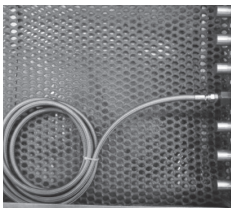
5 Inspect



Inspect assembly, noting the length.

Test to correct test pressures to assure no leaks are observed using hydrostatic pressure unit (recommended).

Air or nitrogen under water can be used with caution utilizing the proper pressure and procedures for that equipment.



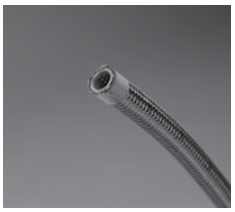
Blow out all water from the assembly and recheck length.

Note
- ✔ Note any movement of length and make compensations as needed on next assembly.
- ✔ Package assembly appropriately for customer requirements.

PTFE Assembly
Field Attachable - Series 90

CAUTION
There are several sections for Hose Assembly and Crimping. Be sure you are in the section that corresponds to the fitting series you are using. See Table of Contents for listing.

1 Inspection



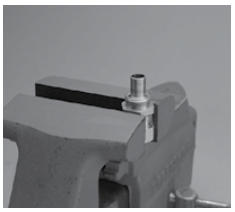
Hose – Visually inspect both ends of hose for square cut. Remove any burrs, loose fibers or wires.



Fittings – Inspect each component for possible damage.

Inspect socket and nipple for a through-hole and threads.

2 Assembly



Mount nipple hex in vise. Ensure nipple end extends beyond vise jaws sufficiently to allow installation of hose.



Push hose bore onto nipple to size tube and to aid in separating braid before assembling ferrule onto hose.

Once completed, remove hose from nipple.

3 Assembly



By hand, push sleeve over end of PTFE core tube and under wire braid.



To complete positioning of sleeve, push hose end with sleeve against a solid flat surface.

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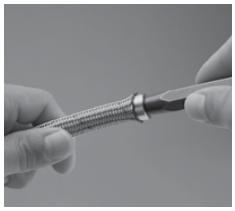
PTFE Assembly
Field Attachable - Series 90

CAUTION
There are several sections for Hose Assembly and Crimping. Be sure you are in the section that corresponds to the fitting series you are using. See Table of Contents for listing.

5 Assembly



Verify tube butts against inside shoulder of ferrule.



Using a tapered punch, push punch into end of sleeve and tube to set sleeve barbs into tube.

6 Assembly



Using SAE 20 weight oil, lubricate nipple and socket threads. For stainless steel fittings use Parker ThreadMate® or a molybdenum type lubricant.

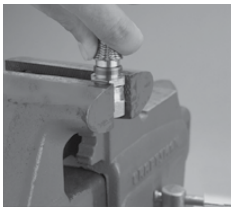
Warning Do not use lubricating oil when installing fittings on hose use in breathing air systems.

When installing fittings on hose used in breathing air systems, lubricate with a non-oil based soap solution as failure to do so may result in personal injury.



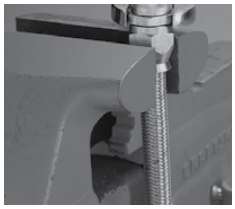
Assemble Hose – Using a twisting motion, push hose over nipple until hose is seated against nipple chamfer.

7 Assembly



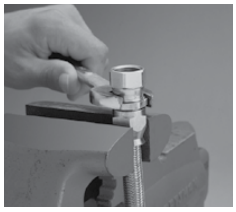
Push socket forward and hand-start threading of socket to nipple.

Caution When tightening socket in vise, do not over tighten vise jaws. Over tightening vise jaws will distort internal threads of socket.



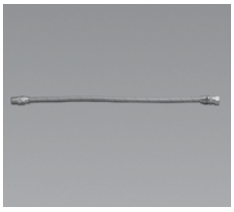
Remove assembly from vise and reposition with socket in vise jaws. Ensure socket extends beyond vise jaws far enough to allow nipple to be completely tightened.

8 Assembly



Wrench tighten nipple hex until clearance between hex and socket hex is 1/32" or less.

Tighten further to align corners of nipple and socket hexes if necessary.

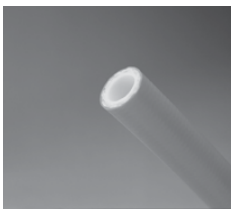


Measure and verify hose assembly length.

Sewer Hose Swaged Assembly
Series SQ

CAUTION
There are several sections for Hose Assembly and Crimping. Be sure you are in the section that corresponds to the fitting series you are using. See Table of Contents for listing.

1 Inspection



Hose – Visually inspect both ends of hose for square cut. Remove any burrs, loose fibers or wires.



Fittings – Visually inspect fitting for properly crimped shells, internal barbs, a through-hole and damage.

2 Assembly



Insertion Depth – Mark hose end with proper insertion depth line.

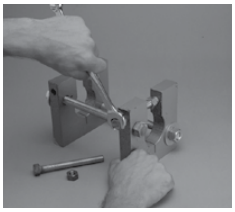


Lubricate – Using an SAE 20 weight oil, lightly lubricate inside of both hose ends.

3 Assembly

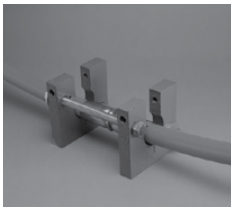


Assemble Hose – Push each hose end into fitting to the depth insertion mark.

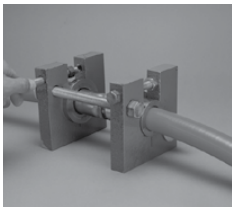


Remove both die securing bolts and nuts.

4 Assembly



Place hose and fitting assembly into position on swager.



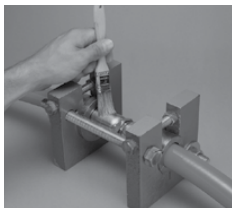
Insert both die halves around hose in each end of swager.

Install both die securing bolts with nuts positioned in opening of swager plates. Tighten die securing bolts 1/4 turn past finger tight.

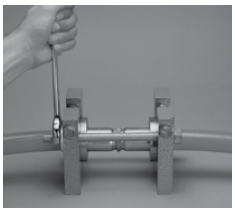
Sewer Hose Swaged Assembly
Series SQ

CAUTION
There are several sections for Hose Assembly and Crimping. Be sure you are in the section that corresponds to the fitting series you are using. See Table of Contents for listing.

5 Assembly



Lubricate – Using SAE 20 oil, generously lubricate the steel fitting surface and ID of the swage dies.

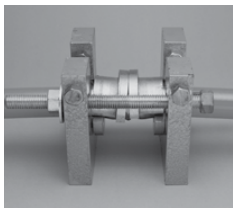


Assemble Hose – Align swager plates in parallel and tighten nuts on swaging bolts uniformly until dies touch.

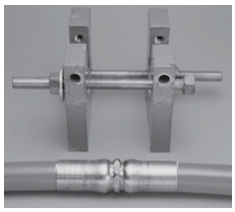
Caution When tightening socket in vise, do not over tighten vise jaws. Over tightening vise jaws will distort internal threads of socket and hamper installation of nipple.

Generously lubricate swaging bolts. Failure to do so may result in an improperly swaged fitting.

6 Assembly



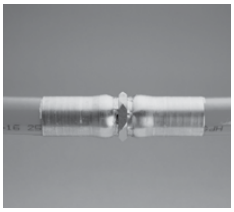
Loosen swaging bolts to release pressure on dies.



Remove die securing bolts and nuts. Then remove dies.

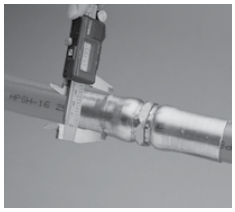
Push each hose end into fitting to the depth insertion mark.

7 Assembly



Measure and verify hose assembly length.

Inspect insertion depth mark at fitting ends, which must be visible, but not exceed 1/8" from end of swage shell.



Measure swage diameter of each fitting at top, middle and bottom of shell. Take measurements at a minimum of three places around shell circumference. Verify swage diameter is within tolerances.

Reference Swage Specification & Tool Selection Chart on pg. F-14 for proper swage diameters.

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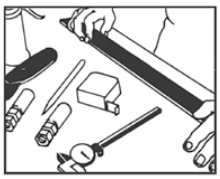
Twin/Multi-Line Separation

Factory-built assemblies are available using twin/multi-line hoses.

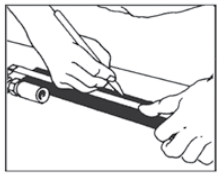
When field-built assemblies are preferred, the following steps must be taken.

1 Set-Up



Position twinned or multi-line hose assembly so that it lies flat on work surface without tendency to twist or turn.

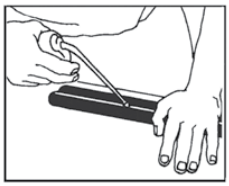
2 Measure



Measure hose to length.

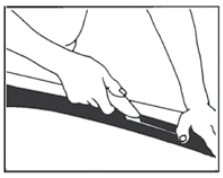
Measure and mark the length that the hoses are to be separated (commonly referred to as Splitback Length).

3 Lubrication



Lightly lubricate the web area between the hoses. Distribute the lubricant uniformly along the web of the assembly to be separated. Any lightweight oil will suffice (SAE 10 or 20). The function of the oil is to reduce the friction of the knife blade so that it naturally seeks the center of the valley formed by the hoses. This eliminates the need for the operator to steer the knife.

4 Cut



Press the multi-line hose assembly firmly and flat against the work surface with your free hand so that it does not move. Using a sharp utility knife, carefully draw the knife toward you with constant light to moderate pressure, and a smooth stroke. Multiple strokes will be necessary to separate the hoses.

Note - It is important that the knife blade be perpendicular to the hose during this procedure so that the blade cuts only the center line of the web. Extreme care must be taken to avoid cutting through the cover of the hoses and thereby exposing the hose reinforcement. If this occurs, the hose assembly must be discarded (See Figure 1). If the separation length is greater than that which can be accomplished with one continuous, smooth stroke, then the procedure should be repeated over shorter distances always cutting toward the free end of the hoses.

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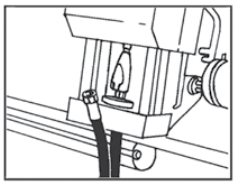
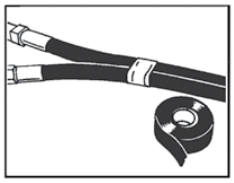
Twin/Multi-Line Separation

5 Measure Separation



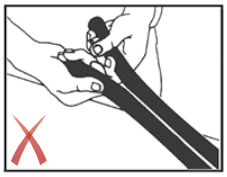
It is suggested that the separation length be sufficiently long so that the crimping operation can be accomplished without risk of kinking the hoses or tearing the web which could result in exposure of the hose reinforcement

6 Apply Tape

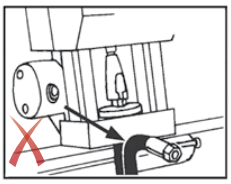


At the option of the assembler, as dictated by the installation, a nylon lashing strap or tape may be applied at the termination of the separated length to provide protection against tearing of the web or hose covers.

Incorrect Handling



Extreme care must be taken to avoid cutting through the cover of the hoses and thereby exposing the hose reinforcement. If this occurs, the hose assembly must be discarded.



The separation length must allow for the crimping operation without damaging the hose.

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Parker Safety Guide

Parker Safety Guide for Selecting and Using Hose, Tubing, Fittings, Connectors, Conductors, Valves and Related Accessories

! Parker Safety Guide for Selecting and Using Hose, Tubing, Fittings and Related Accessories
Publication No. 4400-B.1 Revised: October 2015, Rev A

WARNING: Failure or improper selection or improper use of hose, tubing, fittings, assemblies, valves, connectors, conductors or related accessories ("Products") can cause death, personal injury and property damage. Possible consequences of failure or improper selection or improper use of these Products include but are not limited to:

- Fittings thrown off at high speed.
- High velocity fluid discharge.
- Explosion or burning of the conveyed fluid.
- Electrocution from high voltage electric powerlines.
- Contact with suddenly moving or falling objects that | are controlled by the conveyed fluid.
- Injections by high-pressure fluid discharge.
- Dangerously whipping Hose.
- Tube or pipe burst.
- Weld joint fracture.
- Contact with conveyed fluids that may be hot, cold, toxic or otherwise injurious.
- Sparking or explosion caused by static electricity buildup or other sources of electricity.
- Sparking or explosion while spraying paint or flammable liquids.
- Injuries resulting from inhalation, ingestion or exposure to fluids.

Before selecting or using any of these Products, it is important that you read and follow the instructions below. No product from any division in Parker Fluid Connectors Group is approved for in-flight aerospace applications. For hoses and fittings used in in-flight aerospace applications, please contact Parker Aerospace Group.

1.0 GENERAL INSTRUCTION

1.1 Scope: This safety guide provides instructions for selecting and using (including assembling, installing, and maintaining) these Products. For convenience, all rubber and/or thermoplastic products commonly called "hose" or "tubing" are called "Hose" in this safety guide. Metallic tube or pipe are called "tube". All assemblies made with Hose are called "Hose Assemblies". All assemblies made with Tube are called "Tube Assemblies".
All products commonly called "fittings", "couplings" or "adapters" are called "Fittings". Valves are fluid system components that control the passage of fluid. Related accessories are ancillary devices that enhance or monitor performance including crimping, flaring, flanging, presetting, bending, cutting deburring, swaging machines, sensors, tags, lockout handles, spring guards and associated tooling. This safety guide is a supplement to and is to be used with the specific Parker publications for the specific Hose, Fittings and Related Accessories that are being considered for use. Parker publications are available at www.parker.com. SAE J1273 (www.sae.org) and ISO17165-2 (www.ansi.org) also provide recommended practices for hydraulic Hose Assemblies, and should be followed.

1.2 Fail-Safe: Hose, Hose Assemblies, Tube, Tube Assemblies and Fittings can and do fail without warning for many reasons. Design all systems and equipment in a fail-safe mode, so that failure of the Hose, Hose Assembly, Tube, Tube Assembly or Fitting will not endanger persons or property.

1.3 Distribution: Provide a copy of this safety guide to each person responsible for selecting or using Hose, Tube and Fitting products. Do not select or use Parker Hose, Tube or Fittings without thoroughly reading and understanding this safety guide as well as the specific Parker publications for the Products.

1.4 User Responsibility: Due to the wide variety of operating conditions and applications for Hose, Tube and Fittings. Parker does not represent or warrant that any particular Hose, Tube or Fitting is suitable for any specific end use system. This safety guide does not analyze all technical parameters that must be considered in selecting a product. The user, through its own analysis and testing, is solely responsible for:

- Making the final selection of the Products.
- Assuring that the user's requirements are met and that the application presents no health or safety hazards.
- Following the safety guide for Related Accessories and being trained to operate Related Accessories.
- Providing all appropriate health and safety warnings on the equipment on which the Products are used.
- Assuring compliance with all applicable government and industry standards.

1.5 Additional Questions: Call the appropriate Parker technical service department if you have any questions or require any additional information.

See the Parker publication for the Products being considered or used, or call 1-800-CPARKER, or go to www.parker.com, for telephone numbers of the appropriate technical service department.

2.0 HOSE, TUBING & FITTING INSTRUCTION

2.1 The electrical conductivity or nonconductivity of Hose, Tube and Fittings is dependent upon many factors and may be susceptible to change. These

factors include but are not limited to the various materials used to make the Hose and the Fittings, Fitting finish (some Fitting finishes are electrically conductive while others are nonconductive), manufacturing methods (including moisture control), how the Fittings contact the Hose, age and amount of deterioration or damage or other changes, moisture content of the Hose at any particular time, and other factors.

The following are considerations for electrically nonconductive and conductive Hose. For other applications consult the individual catalog pages and the appropriate industry or regulatory standards for proper selection.

2.1.1 Electrically Nonconductive Hose: Certain applications require that the Hose be nonconductive to prevent electrical current flow or to maintain electrical isolation. For applications that require Hose to be electrically nonconductive, including, but not limited to, applications near high voltage electric lines, only special nonconductive Hose can be used. The manufacturer of the equipment in which the nonconductive Hose is to be used must be consulted to be certain that the Hose, Tube and Fittings that are selected are proper for the application. Do not use any Parker Hose or Fittings for any such application requiring nonconductive Hose, including but not limited to applications near high voltage electric lines or dense magnetic fields, unless
(i) the application is expressly approved in the Parker technical publication forthe product, (ii) the Hose is marked "nonconductive", and (iii) the manufac turer of the equipment on which the Hose is to be used specifically approves the particular Parker Hose, Tube and Fittings for such use.

2.1.2 Electrically Conductive Hose: Parker manufactures special Hose for certain applications that require electrically conductive Hose. Parker manufactures special Hose for conveying paint in airless paint spraying applications. This Hose is labeled "Electrically Conductive Airless Paint Spray Hose" on its layline and packaging. This Hose must be properly connected to the appropriate Parker Fittings and properly grounded in order to dissipate dangerous static charge buildup, which occurs in all airless paint spraying applications. Do not use any other Hose for airless paint spraying, even if electrically conductive. Use of any other Hose or failure to properly connect the Hose can cause a fire or an explosion resulting in death, personal injury, and property damage. All hoses that convey fuels must be grounded.

Parker manufactures a special Hose for certain compressed natural gas ("CNG") applications where static electricity buildup may occur. Parker CNG Hose assemblies comply with the requirements of ANSI/IAS NGV 4.2;CSA 12.52, "Hoses for Natural Gas Vehicles and Dispensing Systems" (www.ansi.org). This Hose is labeled "Electrically Conductive for CNG Use" on its layline and packaging. This Hose must be properly connected to the appropriate Parker Fittings and properly grounded in order to dissipate dangerous static charge buildup, which occurs in, for example, high velocity CNG dispensing or transfer. Do not use any other Hose for CNG applications where static charge buildup may occur, even if electrically conductive. Use of other Hoses in CNG

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applications or failure to properly connect or ground this Hose can cause a fire or an explosion resulting in death, personal injury, and property damage.Care must also be taken to protect against CNG permeation through the Hose wall. See section 2.6, Permeation, for more information. Parker CNG Hose is intended for dispenser and vehicle use within the specified temperature range. Parker CNG Hose should not be used in confined spaces or unventilated areas or areas exceeding the specified temperature range.
Final assemblies must be tested for leaks. CNG Hose Assemblies should be tested on a monthly basis for conductivity per ANS I/ IAS NGV 4.2; CSA 12.52.
Parker manufactures special Hose for aerospace in-flight applications. Aerospace in-flight applications employing Hose to transmit fuel, lubricating fluids and hydraulic fluids require a special Hose with a conductive inner tube. This Hose for in-flight applications is available Only from Parker's Stratoflex Products Division. Do not use any other Parker Hose for in-flight applications, even if electrically conductive. Use of other Hoses for in-flight applications or failure to properly connect or ground this Hose can cause a fire or an explosion resulting in death, personal injury and property damage. These Hose assemblies for in-flight applications must meet all applicable aerospace industry, aircraft engine and aircraft requirements.

2.2 Pressure: Hose, Tube and Fitting selection must be made so that the published maximum working pressure of the Hose, Tube and Fittings are equal to or greater than the maximum system pressure. The maximum working pressure of a Hose, or Tube Assembly is the lower of the respective published maximum working pressures of the Hose, Tube and the Fittings used. Surge pressures or peak transient pressures in the system must be below the published maximum working pressure for the Hose, Tube and Fitting. Surge pressures and peak pressures can usually only be determined by sensitive electrical instrumentation that measures and indicates pressures at millisecond intervals. Mechanical pressure gauges indicate only average pressures and cannot be used to determine surge pressures or peak transient pressures. Published burst pressure ratings for Hose is for manufacturing test purposes only and is no indication that the Product can be used in applications at the burst pressure or otherwise above the published maximum recommended working pressure.

2.3 Suction: Hoses used for suction applications must be selected to insure that the Hose will withstand the vacuum and pressure of the system. Improperly selected Hose may collapse in suction application.

2.4 Temperature: Be certain that fluid and ambient temperatures, both steady and transient, do not exceed the limitations of the Hose, Tube, Fitting and Seals. Temperatures below and above the recommended limit can degrade Hose, Tube, Fittings and Seals to a point where a failure may occur and release fluid. Tube and Fittings performances are normally degraded at elevated temperature. Material compatibility can also change at temperatures outside of the rated range. Properly insulate and protect the Hose Assembly when routing near hot objects (e.g. manifolds). Do not use any Hose in any application where failure of the Hose could result in the conveyed fluids (or vapors or mist from the conveyed fluids) contacting any open flame, molten metal, or other potential fire ignition source that could cause burning or explosion of the conveyed fluids or vapors.

2.5 Fluid Compatibility: Hose and Tube Assembly selection must assure compatibility of the Hose tube, cover, reinforcement, Tube, Plating and Seals with the fluid media used. See the fluid compatibility chart in the Parker publication for the product being considered or used. This information is offered only as a guide. Actual service life can only be determined by the end user by testing under all extreme conditions and other analysis.

Hose, and Tube that is chemically compatible with a particular fluid must be assembled using Fittings and adapters containing likewise compatible seals. Flange or flare processes can change Tube material properties that may not be compatible with certain requirements such as NACE.

2.6 Permeation: Permeation (that is, seepage through the Hose or Seal) will occur from inside the Hose or Fitting to outside when Hose or Fitting is used with gases, liquid and gas fuels, and refrigerants (including but not limited to such materials as helium, diesel fuel, gasoline, natural gas, or LPG). This permeation may result in high concentrations of vapors which are potentially flammable, explosive, or toxic, and in loss of fluid. Dangerous explosions, fires, and other hazards can result when using the wrong Hose for such applications. The system designer must take into account the fact that this permeation will take place and must not use Hose or Fitting if this permeation could be hazardous. The system designer must take into account all legal, government, insurance, or any other special regulations which govern the use of fuels and refrigerants. Never use a Hose or Fitting even though the fluid compatibility is acceptable without considering the potential hazardous effects that can result from permeation through the Hose or Tube Assembly. Permeation of moisture from outside the Hose or Fitting to inside the Hose or Fitting will also occur in Hose or Tube assemblies, regardless of internal pressure. If this moisture permeation would have detrimental effects (particularly, but not limited to refrigeration and air conditioning systems), incorporation of sufficient drying capacity in the system or other appropriate system safeguards should be selected and used. The sudden pressure release of highly pressurized gas could also result in Explosive Decompression failure of permeated Seals and Hoses.

2.7 Size: Transmission of power by means of pressurized fluid varies with pressure and rate of flow. The size of the components must be adequate to keep pressure losses to a minimum and avoid damage due to heat generation or excessive fluid velocity.

2.8 Routing: Attention must be given to optimum routing to minimize inherent problems (kinking or flow restriction due to Hose collapse, twisting of the Hose, proximity to hot objects or heat sources). For additional routing recommendations see SAE J1273 and ISO 17165-2. Hose Assemblies have a finite life and should be installed in a manner that allows for ease of inspection and future replacement. Hose because of its relative short life, should not be used in residential and commercial buildings inside of inaccessible walls or floors, unless specifically allowed in the product literature. Always review all product literature for proper installation and routing instructions.

2.9 Environment: Care must be taken to insure that the Hose, Tube and Fittings are either compatible with or protected from the environment (that is, surrounding conditions) to which they are exposed. Environmental conditions including but not limited to ultraviolet radiation, sunlight, heat, ozone, moisture, water, salt water, chemicals and air pollutants can cause degradation and premature failure.

2.10 Mechanical Loads: External forces can significantly reduce Hose, Tube and Fitting life or cause failure. Mechanical loads which must be considered include excessive flexing, twist, kinking, tensile or side loads, bend radius, and vibration. Use of swivel type Fittings or adapters may be required to insure no twist is put into the Hose. Use of proper Hose or Tube clamps may also be required to reduce external mechanical loads. Unusual applications may require special testing prior to Hose selection.

2.11 Physical Damage: Care must be taken to protect Hose from wear, snagging, kinking, bending smaller that minimum bend radius and cutting, any of which can cause premature Hose failure. Any Hose that has been kinked or bent to a radius smaller than the minimum bend radius, and any Hose that has been cut or is cracked or is otherwise damaged should be removed and discarded. Fittings with damages such as scratches on sealing surfaces and deformation should be replaced.

2.12 Proper End Fitting: See instructions 3.2 through 3.5. These recommendations may be substantiated by testing to industry standards such as SAE J517 for hydraulic applications, or MIL-A-5070, AS1339, or AS3517 for Hoses from Parker's Stratoflex Products Division for aerospace applications.

2.13 Length: When determining the proper Hose or Tube length of an assembly, be aware of Hose length change due to pressure, Tube length change due to thermal expansion or contraction, and Hose or Tube and machine tolerances and movement must be considered. When routing short hose assemblies, it is recommended that the minimum free hose length is always used. Consult the hose manufacturer for their minimum free hose length recommendations. Hose assemblies should be installed in such a way that any motion or flexing occurs within the same plane.

2.14 Specifications and Standards: When selecting Hose, Tube and Fittings, government, industry, and Parker specifications and recommendations must be reviewed and followed as applicable.

2.15 Hose Cleanliness: Hose and Tube components may vary in cleanliness levels. Care must be taken to insure that the Hose and Tube Assembly selected has an adequate level of cleanliness for the application.

2.16 Fire Resistant Fluids: Some fire resistant fluids that are to be conveyed by Hose or Tube require use of the same type of Hose or Tube as used with petroleum base fluids. Some such fluids require a special Hose, Tube, Fitting and Seal, while a few fluids will not work with any Hose at all. See instructions 2.5 and 1.5. The wrong Hose, Tube, Fitting or Seal may fail after a very short service. In addition, all liquids but pure water may burn fiercely under certain conditions, and even pure water leakage may be hazardous.

2.17 Radiant Heat: Hose and Seals can be heated to destruction without contact by such nearby items as hot manifolds or molten metal. The same heat source may then initiate a fire. This can occur despite the presence of cool air around the Hose or Seal. Performance of Tube and Fitting subjected to the heat could be degraded.

2.18 Welding or Brazing: When using a torch or arc welder in close proximity to hydraulic lines, the hydraulic lines should be removed or shielded with appropriate fire resistant materials. Flame or weld spatter could burn through the Hose or Seal and possibly ignite escaping fluid resulting in a catastrophic failure. Heating of plated parts, including Hose Fittings and adapters, above 450°F (232°C) such as during welding, brazing or soldering may emit deadly gases. Any elastomer seal on fittings shall be removed prior to welding or brazing, any metallic surfaces shall be protected after brazing or welding when necessary. Welding and brazing

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filler material shall be compatible with the Tube and Fitting that are joined.

2.19 Atomic Radiation: Atomic radiation affects all materials used in Hose and Tube assemblies. Since the long-term effects may be unknown, do not expose Hose or Tube assemblies to atomic radiation. Nuclear applications may require special Tube and department.

2.20 Aerospace Applications: The only Hose, Tube and Fittings that may be used for in-flight aerospace applications are those available from Parker's Stratoflex Products Division. Do not use any other Hose or Fittings for in-flight applications. Do not use any Hose or Fittings from Parker's Stratoflex Products Division with any other Hose or Fittings, unless expressly approved in writing by the engineering manager or chief engineer of Stratoflex Products Division and verified by the user's own testing and inspection to aerospace industry standards.

2.21 Unlocking Couplings: Ball locking couplings or other Fittings with quick disconnect ability can unintentionally disconnect if they are dragged over obstructions, or if the sleeve or other disconnect member, is bumped or moved enough to cause disconnect. Threaded Fittings should be considered where there is a potential for accidental uncoupling.

3.0 HOSE AND FITTINGS ASSEMBLY AND INSTALLATION INSTRUCTIONS

3.1 Component Inspection: Prior to assembly, a careful examination of the Hose and Fittings must be performed. All components must be checked for correct style, size, catalog number, and length. The Hose must be examined for cleanliness, obstructions, blisters, cover looseness, kinks, cracks,cuts or any other visible defects. Inspect the Fitting and sealing surfaces for burrs, nicks, corrosion or other imperfections. Do NOT use any component that displays any signs of nonconformance.

3.2 Hose and Fitting Assembly: Do not assemble a Parker Fitting on a Parker Hose that is not specifically listed by Parker for that Fitting, unless authorized in writing by the engineering manager or chief engineer of the appropriate Parker division. Do not assemble a Parker Fitting on another manufacturer's Hose or a Parker Hose on another manufacturer's Fitting unless (i) the engineering manager or chief engineer of the appropriate Parker division approves the Assembly in writing or that combination is expressly approved in the appropriate Parker literature for the specific Parker product, and (ii) the user verifies the Assembly and the application through analysis and testing. For Parker Hose that does not specify a Parker Fitting, the user is solely responsible for the selection of the proper Fitting and Hose Assembly procedures. See instruction 1.4.
To prevent the possibility of problems such as leakage at the Fitting or system contamination, it is important to completely remove all debris from the cutting operation before installation of the Fittings. The Parker published instructions must be followed for assembling the Fittings on the Hose. These instructions are provided in the Parker Fitting catalog for the specific Parker Fitting being used, or by calling 1-800-CPARKER, or at www.parker.com.

3.3 Related Accessories: Do not crimp or swage any Parker Hose or Fitting with anything but the listed swage or crimp machine and dies in accordance with Parker published instructions. Do not crimp or swage another manufacturer's Fitting with a Parker crimp or swage die unless authorized in writing by the engineering manager or chief engineer of the appropriate Parker division.

3.4 Parts: Do not use any Parker Fitting part (including but not limited to socket, shell, nipple, or insert) except with the correct Parker mating parts, in accordance with Parker published instructions, unless authorized in writing by the engineering manager or chief engineer of the appropriate Parker division.

3.5 Field Attachable/Permanent: Do not reuse any field attachable Hose Fitting that has blown or pulled off a Hose. Do not reuse a Parker Permanent Hose Fitting (crimped or swaged) or any part thereof. Complete Hose Assemblies may only be reused after proper inspection under section 4.0. Do not assemble Fittings to any previously used hydraulic Hose that was in service, for use in a fluid power application.

3.6 Pre-Installation Inspection: Prior to installation, a careful examination of the Hose Assembly must be performed. Inspect the Hose Assembly for any damage or defects. DO NOT use any Hose Assembly that displays any signs of nonconformance.

3.7 Minimum Bend Radius: Installation of a Hose at less than the minimum listed bend radius may significantly reduce the Hose life. Particular attention must be given to preclude sharp bending at the Hose to Fitting juncture. Any bending during installation at less than the minimum bend radius must be avoided. If any Hose is kinked during installation, the Hose must be discarded.

3.8 Twist Angle and Orientation: Hose Assembly installation must be such that relative motion of machine components does not produce twisting.

3.9 Securement: In many applications, it may be necessary to restrain, protect, or guide the Hose to protect it from damage by unnecessary flexing, pressure surges, and contact with other mechanical components. Care must be taken to insure such restraints do not introduce additional stress or wear points.

3.10 Proper Connection of Ports: Proper physical installation of the Hose Assembly requires a correctly installed port connection insuring that no twist or torque is transferred to the Hose when the Fittings are being tightened or otherwise during use.

3.11 External Damage: Proper installation is not complete without insuring that tensile loads, side loads, kinking, flattening, potential abrasion,thread damage or damage to sealing surfaces are corrected or eliminated. See instruction 2.10.

3.12 System Checkout: All air entrapment must be eliminated and the system pressurized to the maximum system pressure (at or below the Hose maximum working pressure) and checked for proper function and freedom from leaks. Personnel must stay out of potential hazardous areas while testing and using.

3.13 Routing: The Hose Assembly should be routed in such a manner so if a failure does occur, the escaping media will not cause personal injury or property damage. In addition, if fluid media comes in contact with hot surfaces, open flame or sparks, a fire or explosion may occur.
See section 2.4.

3.14 Ground Fault Equipment Protection Devices (GFEPDs): WARNING! Fire and Shock Hazard. To minimize the danger of fire if the heating cable of a Multitube bundle is damaged or improperly installed, use a Ground Fault Equipment Protection Device. Electrical fault currents may be insufficient to trip a conventional circuit breaker.
For ground fault protection, the IEEE 515: (www.ansi.org) standard for heating cables recommends the use of GFEPDs with a nominal 30 milliampere trip level for "piping systems in classified areas, those areas requiring a high degree of maintenance, or which may be exposed to physical abuse or corrosive atmospheres".

4.0 TUBE AND FITTINGS ASSEMBLY AND INSTALLATION INSTRUCTIONS

4.1 Component Inspection: Prior to assembly, a careful examination of the Tube and Fittings must be performed. All components must be checked for correct style, size, material, seal, and length. Inspect the Fitting and sealing surfaces for burrs, nicks, corrosion, missing seal or other imperfections. Do NOT use any component that displays any signs of nonconformance.

4.2 Tube and Fitting Assembly: Do not assemble a Parker Fitting with a Tube that is not specifically listed by Parker for that Fitting, unless authorized in writing by the engineering manager or chief engineer of the appropriate Parker division. The Tube must meet the requirements specified to the Fitting. The Parker published instructions must be followed for assembling the Fittings to a Tube. These instructions are provided in the Parker Fitting catalog for the specific Parker Fitting being used, or by calling 1-800-CPARKER, or at www.parker.com.

4.3 Related Accessories: Do not preset or flange Parker Fitting components using another manufacturer's equipment or procedures unless authorized in writing by the engineering manager or chief engineer of the appropriate Parker division. Tube, Fitting component and tooling must be check for correct style, size and material. Operation and maintenance of Related Accessories must be in accordance with the operation manual for the designated Accessory.

4.4 Securement: In many applications, it may be necessary to restrain, protect, or guide the Tube to protect it from damage by unnecessary flexing, pressure surges, vibration, and contact with other mechanical components. Care must be taken to insure such restraints do not introduce additional stress or wear points.

4.5 Proper Connection of Ports: Proper physical installation of the Tube Assembly requires a correctly installed port connection insuring that no torque is transferred to the Tube when the Fittings are being tightened or other wise during use.

4.6 External Damage: Proper installation is not complete without insuring that tensile loads, side loads, flattening, potential abrasion, thread damage or damage to sealing surfaces are corrected or eliminated. See instruction 2.10.

4.7 System Checkout: All air entrapment must be eliminated and the system pressurized to the maximum system pressure (at or below the Tube Assembly maximum working pressure) and checked for proper function and freedom from leaks. Personnel must stay out of potential hazardous areas while testing and using.

4.8 Routing: The Tube Assembly should be routed in such a manner so if a failure does occur, the escaping media will not cause personal injury or property damage. In addition, if fluid media comes in contact with hot surfaces, open flame or sparks, a fire or explosion may occur.
See section 2.4.

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5.0 HOSE AND FITTING MAINTENANCE AND REPLACEMENT INSTRUCTIONS

5.1 Proper Selection: Even with proper selection and installation, Hose life may be significantly reduced without a continuing maintenance program. The severity of the application, risk potential from a possible Hose failure, and experience with any Hose failures in the application or in similar applications should determine the frequency of the inspection and the replacement for the Products so that Products are replaced before any failure occurs. Certain products require maintenance and inspection per industry requirements. Failure to adhere to these requirements may lead to premature failure. A maintenance program must be established and followed by the user and, at minimum, must include instructions 5.2 through 5.7.

5.2 Visual Inspection Hose/Fitting: Any of the following conditions require immediate shut down and replacement of the Hose Assembly:

- Fitting slippage on Hose;
- Damaged, cracked, cut or abraded cover (any reinforcement exposed);
- Hard, stiff, heat cracked, or charred Hose;
- Cracked, damaged, or badly corroded Fittings;
- Leaks at Fitting or in Hose;
- Kinked, crushed, flattened or twisted Hose; and
- Blistered, soft, degraded, or loose cover.

5.3 Visual Inspection All Other: The following items must be tightened, repaired, corrected or replaced as required:

- Leaking port conditions;
- Excess dirt buildup;
- Worn clamps, guards or shields; and
- System fluid level, fluid type, and any air entrapment.

5.4 Functional Test: Operate the system at maximum operating pressure and check for possible malfunctions and leaks. Personnel must avoid potential hazardous areas while testing and using the system. See section 2.2.

5.5 Replacement Intervals: Hose assemblies and elastomeric seals used on Hose Fittings and adapters will eventually age, harden, wear and deteriorate under thermal cycling and compression set. Hose Assemblies and elastomeric seals should be inspected and replaced at specific replace ment intervals, based on previous service life, government or industry recommendations, or when failures could result in unacceptable down time, damage, or injury risk. See section 1.2. Hose and Fittings may be subjected to internal mechanical and/or chemical wear from the conveying fluid and may fail without warning. The user must determine the product life under such circumstances by testing. Also see section 2.5.

5.6 Hose Inspection and Failure: Hydraulic power is accomplished by utilizing high pressure fluids to transfer energy and do work. Hoses, Fittings and Hose Assemblies all contribute to this by transmitting fluids at high pressures. Fluids under pressure can be dangerous and potentially lethal and, therefore, extreme caution must be exercised when working with fluids under pressure and handling the Hoses transporting the fluids.

From time to time, Hose Assemblies will fail if they are not replaced at proper time intervals. Usually these failures are the result of some form of misapplication, abuse, wear or failure to perform proper maintenance. When Hoses fail, generally the high pressure fluids inside escape in a stream which may or may not be visible to the user. Under no circumstances should the user attempt to locate the leak by "feeling" with their hands or any other part of their body. High pressure fluids can and will penetrate the skin and cause severe tissue damage and possibly loss of limb. Even seemingly minor hydraulic fluid injection injuries must be treated immediately by a physician with knowledge of the tissue damaging properties of hydraulic fluid.

If a Hose failure occurs, immediately shut down the equipment and leave the area until pressure has been completely released from the Hose Assembly. Simply shutting down the hydraulic pump may or may not eliminate the pressure in the Hose Assembly. Many times check valves, etc., are employed in a system and can cause pressure to remain in a Hose Assembly even when pumps or equipment are not operating. Tiny holes in the Hose, commonly known as pinholes, can eject small, dangerously powerful but hard to see streams of hydraulic fluid. It may take several minutes or even hours for the pressure to be relieved so that the Hose Assembly may be examined safely.

Once the pressure has been reduced to zero, the Hose Assembly may be taken off the equipment and examined. It must always be replaced if a failure has occurred. Never attempt to patch or repair a Hose Assembly that has failed. Consult the nearest Parker distributor or the appropriate Parker division for Hose Assembly replacement information.

Never touch or examine a failed Hose Assembly unless it is obvious that the Hose no longer contains fluid under pressure. The high pressure fluid is extremely dangerous and can cause serious and potentially fatal injury.

5.7 Elastomeric seals: Elastomeric seals will eventually age, harden, wear and deteriorate under thermal cycling and compression set. Elastomeric seals should be inspected and replaced.

5.8 Refrigerant gases: Special care should be taken when working with refrigeration systems. Sudden escape of refrigerant gases can cause blindness if the escaping gases contact the eye and can cause freezing or other severe injuries if it contacts any other portion of the body.

5.9 Compressed natural gas (CNG): Parker CNG Hose Assemblies should be tested after installation and before use, and at least on a monthly basis per instructions provided on the Hose Assembly tag. The recommended procedure is to pressurize the Hose and check for leaks and to visually inspect the Hose for damage and to perform an electrical resistance test. Caution: Matches, candles, open flame or other sources of ignition shall not be used for Hose inspection. Leak check solutions should be rinsed off after use.

6.0 HOSE STORAGE

6.1 Age Control: Hose and Hose Assemblies must be stored in a manner that facilitates age control and first-in and first-out usage based on manufacturing date of the Hose and Hose Assemblies. Unless otherwise specified by the manufacturer or defined by local laws and regulations:

6.1.1 The shelf life of rubber hose in bulk form or hose made from two or more materials is 28 quarters (7 years) from the date of manufacture, with an extension of 12 quarters (3 years), if stored in accordance with ISO 2230;

6.1.2 The shelf life of thermoplastic and polytetrafluoroethylene hose is considered to be unlimited;

6.1.3 Hose assemblies that pass visual inspection and proof test shall not be stored for longer than 2 years;

6.1.4 Storage: Stored Hose and Hose Assemblies must not be subjected to damage that could reduce their expected service life and must be placed in a cool, dark and dry area with the ends capped. Stored Hose and Hose Assemblies must not be exposed to temperature extremes, ozone, oils, corrosive liquids or fumes, solvents, high humidity, rodents, insects, ultraviolet light, electromagnetic fields or radioactive materials.

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ENERPAC Warranty Policy

For those ENERPAC items sold as part of the Parker Parflex Division product offering, the following warranty applies.

ENERPAC products are warranted to be free of defects in materials and workmanship under normal use for as long as they are owned by the original purchaser, subject to the exclusions and limitations described below. This warranty does not cover ordinary wear and tear, overloading, alterations, (including repairs or attempted repairs by parties other than ENERPAC or its authorized service representatives), improper fluid, use in a manner for which they are not intended or use which is contrary to instructions for the products.

THIS WARRANTY IS LIMITED TO NEW PRODUCTS SOLD THROUGH ENERPAC AUTHORIZED DISTRIBUTORS, ORIGINAL EQUIPMENT MANUFACTURERS OR OTHER DESIGNATED CHANNELS OF DISTRIBUTION. NO AGENT, EMPLOYEE, OR OTHER REPRESENTATIVE OF ENERPAC HAS THE AUTHORITY TO IN ANY WAY CHANGE OR AMEND THIS WARRANTY.

Electronic products and components are warranted against defects in material and workmanship for a period of two years from the date of purchase.

The following items supplied with ENERPAC products are excluded from this warranty:

Components not manufactured by ENERPAC, including air motors, electric motors, gasoline engines, and diesel engines. Such items are warranted to the extent of the warranty provided by the manufacturers of such items.

If the customer believes a product is defective, the product must be delivered, or shipped freight prepaid, to the nearest ENERPAC Authorized Service Center. The customer should contact ENERPAC to locate and Authorized Service Center in the customer's area.

Products that do not conform to this warranty will be returned by ground transportation, freight prepaid.

THE FOREGOING WARRANT IS EXCLUSIVE AND IS IN LIEU OF ALL OTHER EXPRESS AND IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

The remedy of repair, replacement or refund is customer's exclusive remedy in the event of breach of this warranty.

SELLER SHALL NOT BE SUBJECT TO AND DISCLAIMS:

(a) ANY OTHER OBLIGATIONS OR LIABILITIES ARISING OUT OF BREACH OF CONTRACT OR OF WARRANTY,

(b) ANY OBLIGATIONS WHATSOEVER ARISING FROM TORT CLAIMS (INCLUDING NEGLIGENCE AND STRICT LIABILITY) OR ARISING UNDER THEORIES OR LAW WITH RESPECT TO PRODUCTS SOLD OR SERVICES RENDERED BY SELLER OR ANY UNDERTAKINGS, ACTS OR OMISSIONS RELATING THERETO, AND

(c) ALL CONSEQUENTIAL, INCIDENTAL AND CONTINGENT DAMAGES WHATSOEVER.

ENERPAC's liability in all cases is limited to, and shall not exceed, the purchase price paid.

For the nearest authorized ENERPAC SERVICE CENTER, please call ENERPAC at 1-800-558-0530 or visit the ENERPAC web site at www.Enerpac.com.

Offer of Sale

PARKER-HANNIFIN CORPORATION
OFFER OF SALE

Definitions. As used herein, the following terms have the meanings indicated.

Buyer:	means any customer receiving a Quote for Products from Seller.
Goods:	means any tangible part, system or component to be supplied by the Seller.
Products:	means the Goods, Services and/or Software as described in a Quote provided by the Seller.
Quote:	means the offer or proposal made by Seller to Buyer for the supply of Products.
Seller:	means Parker-Hannifin Corporation, including all divisions and businesses thereof.
Services:	means any services to be supplied by the Seller.
Software:	means any software related to the Products, whether embedded or separately downloaded.
Terms:	means the terms and conditions of this Offer of Sale or any newer version of the same as published by Seller electronically at www.parker.com/saleterms.

1. **Terms**. All sales of Products by Seller are contingent upon, and will be governed by, these Terms and, these Terms are incorporated into any Quote provided by Seller to any Buyer. Buyer's order for any Products whether communicated to Seller verbally, in writing, by electronic date interface or other electronic commerce, shall constitute acceptance of these Terms. Seller objects to any contrary or additional terms or conditions of Buyer. Reference in Seller's order acknowledgement to Buyer's purchase order or purchase order number shall in no way constitute an acceptance of any of Buyer's terms of purchase. No modification to these Terms will be binding on Seller unless agreed to in writing and signed by an authorized representative of Seller.

2. **Price; Payment**. The Products set forth in Seller's Quote are offered for sale at the prices indicated in Seller's Quote. Unless otherwise specifically stated in Seller's Quote, prices are valid for thirty (30) days and do not include any sales, use, or other taxes or duties. Seller reserves the right to modify prices at any time to adjust for any raw material price fluctuations. Unless otherwise specified by Seller, all prices are F.C.A. Seller's facility (INCOTERMS 2010). All sales are contingent upon credit approval and payment for all purchases is due thirty (30) days from the date of invoice (or such date as may be specified in the Quote). Unpaid invoices beyond the specified payment date incur interest at the rate of 1.5% per month or the maximum allowable rate under applicable law.

3. **Shipment; Delivery; Title and Risk of Loss**. All delivery dates are approximate. Seller is not responsible for damages resulting from any delay. Regardless of the manner of shipment, delivery occurs and title and risk of loss or damage pass to Buyer, upon placement of the Products with the shipment carrier at Seller's facility. Unless otherwise agreed, Seller may exercise its judgment in choosing the carrier and means of delivery. No deferment of shipment at Buyers' request beyond the respective indicated shipping date will be made except on terms that will indemnify, defend and hold Seller harmless against all loss and additional expense. Buyer shall be responsible for any additional shipping charges incurred by Seller due to Buyer's acts or omissions.

4. **Warranty**. The warranty related to the Products is as follows: (i) Goods are warranted against defects in material or workmanship for a period of twelve (12) months from the date of delivery or 2,000 hours of use, whichever occurs first; (ii) Services shall be performed in accordance with generally accepted practices and using the degree of care and skill that is ordinarily exercised and customary in the field to which the Services pertain and are warranted for a period of six (6) months from the completion of the Services by Seller; and (iii) Software is only warranted to perform in accordance with applicable specifications provided by Seller to Buyer for ninety (90) days from the date of delivery or, when downloaded by a Buyer or end-user, from the date of the initial download. All prices are based upon the exclusive limited warranty stated above, and upon the following disclaimer:

DISCLAIMER OF WARRANTY: THIS WARRANTY IS THE SOLE AND ENTIRE WARRANTY PERTAINING TO PRODUCTS. SELLER DISCLAIMS ALL OTHER WARRANTIES, EXPRESS AND IMPLIED, INCLUDING DESIGN, NONINFRINGEMENT, MERCHANTABILITY, AND FITNESS FOR A PARTICULAR PURPOSE. SELLER DOES NOT WARRANT THAT THE SOFTWARE IS ERROR-FREE OR FAULT-TOLERANT, OR THAT BUYER'S USE THEREOF WILL BE SECURE OR UNINTERRUPTED. BUYER AGREES AND ACKNOWLEDGES THAT UNLESS OTHERWISE AUTHORIZED IN WRITING BY SELLER THE SOFTWARE SHALL NOT BE USED IN CONNECTION WITH HAZARDOUS OR HIGH RISK ACTIVITIES OR ENVIRONMENTS. EXCEPT AS EXPRESSLY STATED HEREIN, ALL PRODUCTS ARE PROVIDED "AS IS".

5. **Claims; Commencement of Actions**. Buyer shall promptly inspect all Products upon receipt. No claims for shortages will be allowed unless reported to the Seller within ten (10) days of delivery. Buyer shall notify Seller of any alleged breach of warranty within thirty (30) days after the date the non-conformance is or should have been discovered by Buyer. Any claim or action against Seller based upon breach of contract or any other theory, including tort, negligence, or otherwise must be commenced within twelve (12) months from the date of the alleged breach or other alleged event, without regard to the date of discovery.

6. **LIMITATION OF LIABILITY.** IN THE EVENT OF A BREACH OF WARRANTY, SELLER WILL, AT ITS OPTION, REPAIR OR REPLACE THE NON-CONFORMING PRODUCT, RE-PERFORM THE SERVICES, OR REFUND THE PURCHASE PRICE PAID WITHIN A REASONABLE PERIOD OF TIME. **IN NO EVENT IS SELLER LIABLE FOR ANY SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF, OR AS THE RESULT OF, THE SALE, DELIVERY, NON- DELIVERY, SERVICING, NON-COMPLETION OF SERVICES, USE, LOSS OF USE OF, OR INABILITY TO USE THE PRODUCTS OR ANY PART THEREOF, LOSS OF DATA, IDENTITY, PRIVACY, OR CONFIDENTIALITY, OR FOR ANY CHARGES OR EXPENSES OF ANY NATURE INCURRED WITHOUT SELLER'S WRITTEN CONSENT, WHETHER BASED IN CONTRACT, TORT OR OTHER LEGAL THEORY. IN NO EVENT SHALL SELLER'S LIABILITY UNDER ANY CLAIM MADE BY BUYER EXCEED THE PURCHASE PRICE PAID FOR THE PRODUCTS**.

7. **Loss to Buyer's Property.** Any designs, tools, patterns, materials, drawings, confidential information or equipment furnished by Buyer or any other items which are or become Buyer's property, will be considered obsolete and may be destroyed by Seller after two (2) consecutive years have elapsed without Buyer ordering the Products manufactured using such property. Seller shall not be responsible for any loss or damage to such property while it is in Seller's possession or control.

Special Tooling. Special Tooling includes but is not limited to tooling, jigs, fixtures and associated manufacturing equipment acquired or necessary to manufacture Products. A tooling charge may be imposed for any Special Tooling. Such Special Tooling shall be and remain Seller's property notwithstanding payment of any charges by Buyer. In no event will Buyer acquire any interest in Special Tooling belonging to Seller that is utilized in the manufacture of the Products, even if such Special Tooling has been specially converted or adapted for such manufacture and notwithstanding any charges paid by Buyer. Unless otherwise agreed, Seller has the right to alter, discard or otherwise dispose of any Special Tooling or other property in its sole discretion at any time.

Security Interest. To secure payment of all sums due, Seller retains a security interest in all Products delivered to Buyer and, Buyer's acceptance of these Terms is deemed to be a Security Agreement under the Uniform Commercial Code. Buyer authorizes Seller as its attorney to execute and file on Buyer's behalf all documents Seller deems necessary to perfect its security interest.

8. **User Responsibility**. The Buyer through its own analysis and testing, is solely responsible for making the final selection of the Products and assuring that all performance, endurance, maintenance, safety and warning requirements of the application of the Products are met. The Buyer must analyze all aspects of the application and follow applicable industry standards, specifications, and other technical information provided with the Product. If Seller provides Product options based upon data or specifications provided by the Buyer, the Buyer is responsible for determining that such data and specifications are suitable and sufficient for all applications and reasonably foreseeable uses of the Products. In the event the Buyer is not the end-user, Buyer will ensure such end-user complies with this paragraph.

9. **Use of Products, Indemnity by Buyer**. Buyer shall comply with all instructions, guides and specifications provided by Seller with the Products. Unauthorized Uses. If Buyer uses or resells the Products for any uses prohibited in Seller's instructions, guides or specifications, or Buyer otherwise fails to comply with Seller's instructions, guides and specifications, Buyer acknowledges that any such use, resale, or non-compliance is at Buyer's sole risk. Buyer shall indemnify, defend, and hold Seller harmless from any losses, claims, liabilities, damages, lawsuits, judgments and costs (including attorney fees and defense costs), whether for personal injury, property damage, intellectual property infringement or any other claim, brought by or incurred by Buyer, Buyer's employees, or any other person, arising out of: (a) improper selection, application, design, specification or other misuse of Products provided by Seller; (b) any act or omission, negligent or otherwise, of Buyer; (c) Seller's use of patterns, tooling, equipment, plans, drawings, designs or specifications or other information or things furnished by Buyer; (d) damage to the Products from an external cause, repair or attempted repair by anyone other than Seller, failure to follow instructions, guides and specifications provided by Seller, use with goods not provided by Seller, or opening, modifying, deconstructing or tampering with the Products for any reason; or (e) Buyer's failure to comply with these Terms. Seller shall not indemnify Buyer under any circumstance except as otherwise provided in these Terms.

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Offer of Sale pg. 2

10. **Cancellations and Changes**. Buyer may not cancel or modify any order for any reason, except with Seller's written consent and upon terms that will indemnify, defend and hold Seller harmless against all direct, incidental and consequential loss or damage. Seller, at any time, may change Product features, specifications, designs and availability.

11. **Limitation on Assignment**. Buyer may not assign its rights or obligations without the prior written consent of Seller.

12. **Force Majeure**. Seller does not assume the risk and is not liable for delay or failure to perform any of Seller's obligations by reason of events or circumstances beyond its reasonable control ("Events of Force Majeure"). Events of Force Majeure shall include without limitation: accidents, strikes or labor disputes, acts of any government or government agency, acts of nature, delays or failures in delivery from carriers or suppliers, shortages of materials, or any other cause beyond Seller's reasonable control.

13. **Waiver and Severability**. Failure to enforce any provision of these Terms will not invalidate that provision; nor will any such failure prejudice Seller's right to enforce that provision in the future. Invalidation of any provision of these Terms by legislation or other rule of law shall not invalidate any other provision herein and, the remaining provisions will remain in full force and effect.

14. **Termination**. Seller may terminate any agreement governed by or arising from these Terms for any reason and at any time by giving Buyer thirty (30) days prior written notice. Seller may immediately terminate, in writing, if Buyer: (a) breaches any provision of these Terms (b) appoints a trustee, receiver or custodian for all or any part of Buyer's property (c) files a petition for relief in bankruptcy on its own behalf, or one if filed by a third party (d) makes an assignment for the benefit of creditors; or (e) dissolves its business or liquidates all or a majority of its assets.

15. **Ownership of Software**. Seller retains ownership of all Software supplied to Buyer hereunder. In no event shall Buyer obtain any greater right in and to the Software than a right in the nature of a license limited to the use thereof and subject to compliance with any other terms provided with the Software.

16. **Indemnity for Infringement of Intellectual Property Rights**. Seller is not liable for infringement of any patents, trademarks, copyrights, trade dress, trade secrets or similar rights ("Intellectual Property Rights") except as provided in this Section. Seller will defend at its expense and will pay the cost of any settlement or damages awarded in an action brought against Buyer based on a third party claim that one or more of the Products sold hereunder infringes the Intellectual Property Rights of a third party in the country of delivery of the Products by the Seller to the Buyer. Seller's obligation to defend and indemnify Buyer is contingent on Buyer notifying Seller within ten (10) days after Buyer becomes aware of any such claim, and Seller having sole control over the defense of the claim including all negotiations for settlement or compromise. If one or more Products sold hereunder is subject to such a claim, Seller may, at its sole expense and option, procure for Buyer the right to continue using the Products, replace or modify the Products so as to render them non-infringing, or offer to accept return of the Products and refund the purchase price less a reasonable allowance for depreciation. Seller has no obligation or liability for any claim of infringement: (i) arising from information provided by Buyer; or (ii) directed to any Products provided hereunder for which the designs are specified in whole or part by Buyer; or (iii) resulting from the modification, combination or use in a system of any Products provided hereunder. The foregoing provisions of this Section constitute Seller's sole and exclusive liability and Buyer's sole and exclusive remedy for such claims of infringement of Intellectual Property Rights.

17. **Governing Law**. These Terms and the sale and delivery of all Products are deemed to have taken place in, and shall be governed and construed in accordance with, the laws of the State of Ohio, as applicable to contracts executed and wholly performed therein and without regard to conflicts of laws principles. Buyer irrevocably agrees and consents to the exclusive jurisdiction and venue of the courts of Cuyahoga County, Ohio with respect to any dispute, controversy or claim arising out of or relating to the sale and delivery of the Products.

18. **Entire Agreement.** These Terms, along with the terms set forth in the main body of any Quote, forms the entire agreement between the Buyer and Seller and constitutes the final, complete and exclusive expression of the terms of sale. In the event of a conflict between any term set forth in the main body of a Quote and these Terms, the terms set forth in the main body of the Quote shall prevail. All prior or contemporaneous written or oral agreements or negotiations with respect to the subject matter shall have no effect. These Terms may not be modified unless in writing and signed by an authorized representative of Seller.

19. **Compliance with Laws.** Buyer agrees to comply with all applicable laws, regulations, and industry and professional standards, including those of the United States of America, and the country or countries in which Buyer may operate, including without limitation the U.S. Foreign Corrupt Practices Act ("FCPA"), the U.S. Anti-Kickback Act ("Anti- Kickback Act"), U.S. and E.U. export control and sanctions laws ("Export Laws"), the U.S. Food Drug and Cosmetic Act ("FDCA"), and the rules and regulations promulgated by the U.S. Food and Drug Administration ("FDA"), each as currently amended. Buyer agrees to indemnify, defend, and hold harmless Seller from the consequences of any violation of such laws, regulations and standards by Buyer, its employees or agents. Buyer acknowledges that it is familiar with all applicable provisions of the FCPA, the Anti-Kickback Act, Export Laws, the FDCA and the FDA and certifies that Buyer will adhere to the requirements thereof and not take any action that would make Seller violate such requirements. Buyer represents and agrees that Buyer will not make any payment or give anything of value, directly or indirectly, to any governmental official, foreign political party or official thereof, candidate for foreign political office, or commercial entity or person, for any improper purpose, including the purpose of influencing such person to purchase Products or otherwise benefit the business of Seller. Buyer further represents and agrees that it will not receive, use, service, transfer or ship any Product from Seller in a manner or for a purpose that violates Export Laws or would cause Seller to be in violation of Export Laws.

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