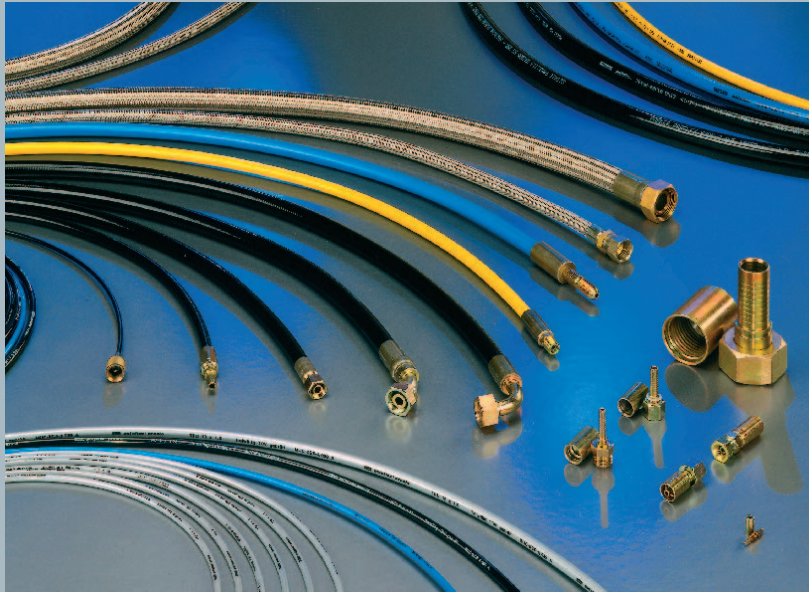


*Catalogue 4460-UK
February 2005*



**Thermoplastic Hose, Fittings and Accessories
for Hydraulic and Industrial Applications**





Hüttenfeld, Germany



Wissembourg, France



Almelo, Netherlands



Buxton, UK



Chomutov, Czech Republic



Examples of our components and systems comprise over 1,400 product lines that control motion in some 1,000 industrial and aerospace markets. Parker is the only manufacturer to offer its customers a choice of hydraulic, pneumatic, and electromechanical motion-control solutions. Our Company has the largest distribution network in its field, with over 7,500 distributors serving more than 350,000 customers worldwide.

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Customer
distributors
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The Aerospace Group
is a leader in the development, design, manufacture and servicing of control systems and components for aerospace and related high-technology markets, while achieving growth through premier customer service.



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designs, manufactures and markets rigid and flexible connectors, and associated products used in pneumatic and fluid systems.



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is a leading supplier of pneumatic and electromechanical components and systems to automation customers worldwide.



Hose Range Overview, Fittings and Accessories

A - Hose Selection Guide

B - Small Bore Hose

C - Low Pressure Hydraulic Hose

D - Medium Pressure Hydraulic Hose

E - High Pressure Hydraulic Hose

F - Ultra-High Pressure Hydraulic Hose

G - PTFE/FEP Hose

H - Airless Paint Spray Hose

I - Gas Hose

J - Twinline/Multiline Hose

K - Hose Fittings

L - Thermoplastic Tubing

M - Accessories

N - Tooling and Workshop Equipment

O - Technical Information

P - Approvals and Guidelines

Q - Index of Part Numbers



Thermoplastic Hose, Fittings and Accessories for Hydraulic and Industrial Applications

Advantages of Thermoplastic Hose

Why you should choose and use Parker Thermoplastic and Hybrid Hoses

Listed below are the many reasons why you should consider Parker thermoplastic hoses for your next hydraulic or pneumatic application. This summary gives an overview of the features, advantages, and benefits, in general, to our fine and extensive line of thermoplastic hoses. Each hose is described in detail within this catalogue. We urge you to review this section before you proceed with your selection.

Thermoplastic Hoses

Specialty Hose Capability

Parker offers many unique specialty hoses such as electrically non-conductive or CNG hoses to name just a few. Let us custom design and build a solution for you.

Superior Abrasion Resistance

Polyurethane and PA covers provide the industry's highest level of abrasion resistance today.

Long Continuous Lengths

Long length hoses reduce the number of short unusable hose lengths and thereby save money in the long run.

Clean Core Tubes

Thermoplastic core tubes are clean when cut and greatly reduce the change of contamination in today's state-of-the-art hydraulic systems.

Wide Chemical Range

Thermoplastic hoses offer a superior range of chemical resistance. Tough outer covers also resist degradation by UV rays, water and harsh wash down chemicals.

Lightweight by Design

Lightweight designed equipment is routinely being requested by leading manufacturers today.

Smaller OD

Compact designs allow tighter bend radius characteristics in and work well in small enveloped areas.

Easy Routing

Smooth outer covers offer ease in routing multiple hoses in tight or confined areas such as booms, lifts, and tracks.

Lower Volumetric Expansion

This means less energy loss and faster reaction time in hydraulic circuits.

UV Resistant

Parker thermoplastic hose jackets are UV stabilized for optimal weather resistance.

Long Shelf Life

Thermoplastic hoses do not continuously cure, and won't degrade when stored under proper conditions.

Easy To Cut

Fabric reinforced hoses do not require high power saws to be cut. Simple hand or blade cutters can be used.

Crimpable, Swageable, Field Attachable

Some Parker thermoplastic hoses can be assembled utilizing any of these three methods of fitting attachment for added convenience.

Bonded Components

Some Parker thermoplastic hoses can be bonded together from 2 to 10 hoses, in multiple sizes and products. Similar cover materials must always be used in the bonding process.

Bundling

Parker offers the ability to bundle hose and tubing in a variety of combinations.

Custom Printed Lines












Custom printed lines build brand identity and differentiate products for end users. Simple ink jetting provides a cost effective way to provide crisp clean text, or in some cases, logos.

Colours

Parker thermoplastic hoses can be manufactured in almost any conceivable colour. Colours can offer brand identity, colour coding and traceability.



Thermoplastic Hose, Fittings and Accessories for Hydraulic and Industrial Applications
Explanation of Symbols

Symbol	Definition	Symbol	Definition
#	part number		volumetric expansion
	hose ID		weight
	hose OD		thread size
	working pressure		hex size
	burst pressure		diameter
	minimum bend radius		vacuum

A – Hose Selection Guide

Hose Style Selection by I. D. and Working Pressure	A2
Hose Style Selection by Application	A4



Hose Selection Guide

Hose Style Selection by I.D and Working Pressure

Hose Style Selection by I. D. and Working Pressure

Select the suitable hose for your application using the table below. In making your selection also consider the chemical resistance of the hose according to the tables on pages P4 - P8.

Pressure and I.D. / Selection of Hose by Working Pressure

Hose Type	Working Pressure in MPa															Fitting Series	Page	
	inch	5/64	3/32	1/8	5/32	3/16	1/4	5/16	3/8	1/2	5/8	3/4	1	1 1/4	1 1/2			2
	mm	2.0	2.4	3.2	4.0	4.8	6.4	7.9	9.5	12.7	15.9	19.0	25.4	31.8	38.1			50.8
	size	-012	-016	-02	-025	-03	-04	-05	-06	-08	-10	-12	-16	-20	-24			-32
DN	2	2.5	3	4	5	6	8	10	12	16	20	25	32	40	50			
Small Bore Hose																		
2010N	40.0	22.5															EX	B2
2020N	63.0		53.0	50.0													EX	B2
Low Pressure Hose																		
830M						1.6		1.6	1.6	1.6	1.6						82	C2
838M						1.6		1.6	1.6	1.6	1.6						82	C3
Medium Pressure Hose																		
515H					15.0	14.0	12.0	10.0	10.0								54	D2
550H					22.5	21.0	17.5	15.5	14.0	10.0	8.5	7.0					55/56/58	D2
540N			17.5		21.0	19.0	17.5	15.5	14.0		8.5						55/56/58	D3
560					24.0	22.5	21.0	19.0	17.5	14.0	12.0						55/56/58	D3
510A					21.0	19.0	17.5	15.5	14.0		8.5						51/55/56	D4
518C			17.5		21.0	19.0	17.5	15.5	15.5	10.5	8.5	7.0					51/55/56/58	D5
1202LT					21.0	21.0	21.0	21.0	21.0								55/56/58	D6
55LT			21.0		22.5	21.0	17.5	15.5	14.0		8.5						55/56/58	D6
573X/XL					21.0							21.0					LV	D7
High Pressure Hose																		
PTA				32.5		22.5	20.0	17.0	14.0								AF/AB	E2
PTB				42.5		40.0	33.0	30.0	24.5								BF/AB	E2
2040N			35.0		34.0	31.0	25.0	24.0	18.5	14.0	12.5	10.0					56/PX	E3
2040H					34.0	31.0	25.0	24.0	18.5	14.0	12.5	10.0					56/PX	E4
520N					34.5	34.5	31.0	27.5	24.0	19.0							55/56	E4
528N					34.5	34.5	31.0	27.5	24.0								55/56	E5
580N						34.5		27.5	24.0	19.0	15.5	14.0					58	E5
588N						34.5		27.5	24.0	19.0	15.5	14.0					58	E6
590					34.5	34.5		27.5	24.0	21.0	17.5	14.0					55/56/58	E6
575X					34.5	34.5		34.5	34.5								55/56	E7
2370N/2370H						46.5	44.0	42.0	35.0								RX/9X	E7
2245N/2244N						45.0	40.0	37.5	35.0	33.0	30.0	27.5	27.5				NX	E8
HP/HP8					69.0	69.0		55.0									HP	E9

Hose Selection Guide
Hose Style Selection by I.D and Working Pressure

A

Hose Type	Working Pressure in MPa															Fitting Series	Page	
	inch	5/64	3/32	1/8	5/32	3/16	1/4	5/16	3/8	1/2	5/8	3/4	1	1 1/4	1 1/2			2
	mm	2.0	2.4	3.2	4.0	4.8	6.4	7.9	9.5	12.7	15.9	19.0	25.4	31.8	38.1			50.8
	size	-012	-016	-02	-025	-03	-04	-05	-06	-08	-10	-12	-16	-20	-24			-32
DN	2	2.5	3	4	5	6	8	10	12	16	20	25	32	40	50			
Ultra High Pressure Hose																		
2244N					75.0					53.5	55.0						8X	F2
2380N							70.0	62.5									8X	F3
2388N							80.0										8X	F3
2X80N							72.0		70.0			45.0					8X/LX	F4
2440D/2440N					220.0	180.0	164.0	150.0	140.0	130.0		100.0	90.0				LX	F5
2640D/2640N					280.0	250.0			210.0		180.0		140.0				5X	F6
PTFE/FEP Hose																		
929/929B						21.0		17.5	14.0		8.4						91N	G3
919U						21.0		17.5	14.0		8.3						91N	G3
2030T						27.5	24.0	20.0	17.5	15.0	12.5	10.0	8.0				YX	G4
2030T-##R14						21.0	21.0	17.5	14.0	10.3	8.3						91/91N	G4
2033T							27.5	25.0	22.5	20.0	17.5	15.0	11.0				PX/YX	G5
939B							14.0	10.3	9.5	6.9	7.5	6.9	6.9	5.0	1.7		93N	G5
2380F							42.5	37.5	35.0	32.5	30.0	27.5	22.5				NX	G6
2246F							41.5	37.5	34.0	32.5	30.0	26.5	21.0				NX	G6
Airless Paint Spray Hose																		
CPX						27.0	27.0		24.0								56/PX	H3
2040N				35.0	34.0	31.0	25.0	24.0	24.0	18.5	14.0	12.5	10.0				PX	H3
2370N							46.5	44.0	42.0	35.0							NX	H4
2380N/2244N							70.0		53.5	55.0							8X	H4
2030T						27.5	24.0	20.0	17.5	15.0	12.5	10.0	8.0				YX	H5
2033T							27.5	25.0	22.5	20.0	17.5	15.0	11.0				PX/YX	H5
Gas Hose																		
2040N							31.0										PX	I2
8LPG						8.5	8.5	8.5	8.5								on request	I2
5CNG						34.5	34.5		34.5	34.5							55/58	I3

Hose Selection Guide

Hose Style Selection by Application

Hose Style Selection by Application

Hose Type \ Application	Minitecosystems	Lubrication	Cab lift	Cabriolet	Load sensing	Gas Applications	Mining	Bicycle disc break	Adhesive systems	Mini hydraulics	Welding Robots	Pneumatic systems	Pilot systems	Machine tools	Mobile equipment	Lift trucks	Agricultural machinery	Refrigeration	Earth moving	Offshore	Airless paint spray equipment	Jacking/tensioning equipment	PU foaming	Chemical industry	Food industry	High temperature applications	Steam applications	Hot melt applications	Fire fighting equipment	Page		
Small Bore Hose																																
2010N	●	●	●	●	●	●	●	●	●	●																					B2	
2020N	●		●		●	●	●			●																					B2	
Low Pressure Hose																																
830M												●	●																		C2	
838M												●																			C3	
Medium Pressure Hose																																
515H		●										●	●				●		●												D2	
550H			●													●	●	●	●												D2	
540N		●														●	●	●	●												D3	
560																●		●	●												D3	
510A						●									●			●													D4	
518C																															D5	
1202LT																●	●														D6	
55LT																	●														D6	
573X/XL																					●										D7	
High Pressure Hose																																
PTA		●																●													E2	
PTB		●														●		●														E2
2040N			●			●										●						●								●	E3	
2040H															●			●		●										●	E4	
520N							●								●						●										E4	
528N							●								●	●					●										E5	
580N						●									●	●	●			●	●									●	E5	
588N						●										●	●			●	●										E6	
590														●			●			●	●										E6	
575X															●						●										E7	
2370N/2370H						●															●	●	●								E7	
2245N/2244N						●	●								●						●		●								E8	
HP/HP8																					●		●								E9	

A

Hose Type	Application	Ministe systems	Lubrication	Cab tilt	Cabriolet	Load sensing	Gas Applications	Wiring	Bicycle disc break	Adhesive systems	Mini hydraulics	Welding Robots	Pneumatic systems	Pilot systems	Machine tools	Mobile equipment	Lift trucks	Agricultural machinery	Refrigeration	Earth moving	Offshore	Airless paint spray equipment	Jacking/tensioning equipment	PU foaming	Chemical industry	Food industry	High temperature applications	Steam applications	Hot melt applications	Fire fighting equipment	Page	
Ultra High Pressure Hose																																
2244N						●	●															●	●								F2	
2380N																					●	●	●									F3
2388N																						●	●									F3
2X80N															●								●									F4
2440D/2440N															●							●	●									F5
2640D/2640N																						●	●									F6
PTFE/FEP Hose																																
929/929B						●			●															●	●	●	●					G3
919U																								●	●							G3
2030T						●			●													●		●	●	●						G4
2030T-#R14						●			●													●		●	●	●	●					G4
2033T						●			●													●		●	●	●	●					G5
939B																								●		●	●					G5
2380F									●																●	●		●				G6
2246F																									●							G6
Airless Paint Spray Hose																																
CPX																						●										H3
2040N																						●										H3
2370N																						●										H4
2380N/2244N																						●										H4
2030T																						●										H5
2033T																						●										H5
Gas Hose																																
2040N						●																										I2
8LPG						●																										I2
5CNG						●																										I3

B – Small Bore Hose

2010N – Small Bore Hose	B2
2020N – Small Bore Hose	B2



Small Bore Hose
2010N/2020N

2010N – Small Bore Hose



Construction:

Core Tube:
Polyamide

Pressure Reinforcement:
One braided layer of high tensile synthetic fibre

Cover:
Polyamide, black

Applications:

High pressure service for use with petroleum or synthetic hydraulic fluids. Multiple applications in mini-hydraulics, diagnosis and robotics.

Fittings:

Please refer to column "Fittings". For detailed information see section K.

Part No. #	DN size	mm	inch	mm	Max. Working Pressure MPa / psi	Min. Burst Pressure MPa / psi	Min. Bend Radius mm	Weight kg/m	Fittings		
2010N-012V30	2	-012	2.0	5/64	4.9	27.5, 3,985	110	15,950	20	0.016	EX
2010N-016V30	2.5	-016	2.5	3/32	5.9	22.5, 3,260	90	13,050	30	0.030	EX
2010N-012V50	2	-012	2.0	5/64	4.9	40.0, 5,800	110	15,950	20	0.016	EX

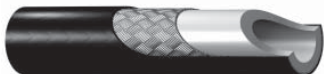
Temperature range: -40°C up to +100°C for petroleum or synthetic hydraulic fluids.

Change in length: +2% / -4% at working pressure

Note:

V50: Safety factor reduced for diagnostic applications

2020N – Small Bore Hose



Construction:

Core Tube:
Polyamide

Pressure Reinforcement:
One braided layer of high tensile synthetic fibre

Cover:
Polyamide, black

Applications:

High pressure service for use with petroleum or synthetic hydraulic fluids and gases. For diagnosis, mini-hydraulics and the natural gas industry.

Fittings:

Please refer to column "Fittings". For detailed information see section K.

Part No. #	DN size	mm	inch	mm	Max. Working Pressure MPa / psi	Min. Burst Pressure MPa / psi	Min. Bend Radius mm	Weight kg/m	Fittings		
2020N-012V30	2	-012	2.0	5/64	4.9	47.5, 6,885	190	27,550	20	0.016	EX
2020N-02V30	3	-02	2.9	1/8	6.0	40.0, 5,800	160	23,200	30	0.023	EX
2020N-025V30	4	-025	4.0	5/32	8.1	44.0, 6,380	176	25,520	40	0.042	EX
2020N-012V50	2	-012	2.0	5/64	4.9	63.0, 9,135	190	27,550	20	0.016	EX
2020N-02V50	3	-02	2.9	1/8	6.0	53.0, 7,685	160	23,200	30	0.023	EX
2020N-025V50	4	-025	4.0	5/32	8.1	50.0, 7,250	176	25,520	40	0.042	EX

Temperature range: -40°C up to +100°C for petroleum or synthetic hydraulic fluids.

Note:

V50: Safety factor reduced for diagnostic applications

C – Low Pressure Hydraulic Hose

830M – Push-Lok® Hose	C2
838M – Push-Lok® Hose, Electrically Non-Conductive	C3

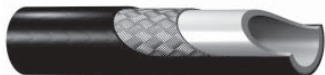


Low Pressure Hydraulic Hose

830M

830M – Push-Lok® Hose

labs free



Construction:

Core Tube:

Polyurethane

Pressure Reinforcement:

One braided layer of high tensile synthetic fibre.

Cover:

Polyurethane, standard colour:

black; special colours:
red, green, blue, grey

Applications:

Factory air systems, pneumatic systems and general industrial, maintenance and automotive applications for air, water, lubricating oils and coolants for robots. Not recommended for hydraulic or other applications where extreme pulsations are encountered. Not recommended for thyristor cooling applications.

Fittings:

82 series,
see catalogue 4482-GB

Assembly instructions:

see page O21

Part No. #	DN size	mm	inch	mm	Max. Working Pressure MPa / psi	Min. Burst Pressure MPa / psi	Min. Bend Radius mm	Weight kg/m	Fittings			
830M-4-xxx-RL	6	-04	6.3	1/4	11.2	1.6	232	6.4	928	30	0.10	82
830M-6-xxx-RL	10	-06	9.5	3/8	15.0	1.6	232	6.4	928	50	0.14	82
830M-8-xxx-RL	12	-08	12.7	1/2	19.1	1.6	232	6.4	928	70	0.18	82
830M-10-xxx-RL	16	-10	16.0	5/8	23.0	1.6	232	6.4	928	90	0.24	82
830M-12-xxx-RL	20	-12	19.0	3/4	26.0	1.6	232	6.4	928	110	0.28	82

Temperature range: -40°C up to +80°C

Colour code: xxx:

BLK = black
BLU = blue
GRN = green
GRY = grey
RED = red
eg: 830M-6-GRN-RL

838M – Push-Lok® Hose

electrically non-conductive/labs free



Construction:

Core Tube:
Polyurethane

Pressure Reinforcement:
One braided layer of high tensile synthetic fibre

Cover:
Polyurethane, orange

Applications:








Especially for thyristor cooling and other applications where electrically non-conductive hose (minimum 5 MΩ/m) is required. For factory air systems, pneumatic systems and general industrial, maintenance and automotive applications for air, water, lubricating oils and coolants for robots. Not recommended for hydraulic or other applications where extreme pulsations are encountered.

Fittings:

82 series,
see catalogue 4482-GB

Assembly instructions:

see page O21

Part No. #	DN size mm inch		mm	Max. Working Pressure MPa / psi		Min. Burst Pressure MPa / psi		Min. Bend Radius mm	Weight kg/m	Fittings		
												
838M-4-RL	6	-04	6.3	1/4	11.2	1.6	232	6.4	928	30	0.10	82
838M-6-RL	10	-06	9.5	3/8	15.0	1.6	232	6.4	928	50	0.14	82
838M-8-RL	12	-08	12.7	1/2	19.1	1.6	232	6.4	928	70	0.18	82
838M-10-RL	16	-10	16.0	5/8	23.0	1.6	232	6.4	928	90	0.24	82
838M-12-RL	20	-12	19.0	3/4	26.0	1.6	232	6.4	928	110	0.28	82

Temperature range: -40°C up to +80°C

D – Medium Pressure Hydraulic Hose

515H	– Pilot Line Hose	D2
550H	– Standard Hydraulic Hose	D2
540N	– Medium Pressure Hose	D3
560	– Medium Pressure Hose	D3
510A	– Refrigerant Pressure Hose	D4
518C	– Electrically Non-Conductive Hose	D5
1202LT	– Low Temperature Hose	D6
55LT	– Low Temperature Hose	D6
573X/XL	– Low Volumetric Expansion Hose	D7

D

Medium Pressure Hydraulic Hose 515H/550

515H – Pilot Line Hose Performance exceeds SAE 100 R3



Construction:

Core Tube:

Polyester elastomer

Pressure Reinforcement:

One braided layer of high tensile synthetic fibre

Cover:

Polyurethane, black, pinpricked

Applications:

Medium pressure service for use with petroleum, synthetic or water-based hydraulic fluids in hydraulic systems. Especially suitable for pilot control lines in hydraulic and pneumatic systems.

Fittings:

Please refer to column "Fittings". For detailed information see section K.

Part No. #	DN size		mm	mm	Max. Working Pressure		Min. Burst Pressure		Min. Bend Radius	Weight	Fittings	
	mm	inch			MPa / psi	MPa / psi	kg/m					
515H-3	5	-03	4.8	3/16	8.4	15	2,175	60	8,700	19	0.04	54
515H-4	6	-04	6.3	1/4	10.5	14	2,000	56	8,000	38	0.07	54
515H-5	8	-05	7.9	5/16	12.4	12	1,750	48	7,000	43	0.08	54
515H-6	10	-06	9.5	3/8	14.2	10	1,500	40	6,000	51	0.09	54
515H-8	12	-08	12.7	1/2	19.0	10	1,500	40	6,000	76	0.17	54

Temperature range: -40°C up to +100°C for petroleum, max. 57°C for synthetic hydraulic fluids and water-based hydraulic fluids.

Change in length: +/- 2% at working pressure

Notes:

Available only as assemblies made by the factory or by authorized Parker distributors.

550H – Standard Hydraulic Hose Performance exceeds SAE 100 R7, BS 4983 Type 1, ISO 3949-1



Construction:

Core Tube:

Polyester elastomer

Pressure Reinforcement:

One or two braided layers of high tensile synthetic fibre

Cover:

Polyurethane, black, pinpricked

Applications:

Medium pressure service for use with petroleum, synthetic or water-based hydraulic fluids in hydraulic systems. Especially suitable for earthmoving, agricultural machinery and machine tools.

Fittings:

Please refer to column "Fittings". For detailed information see section K.

Part No. #	DN size		mm	mm	Max. Working Pressure		Min. Burst Pressure		Min. Bend Radius	Weight	Fittings	
	mm	inch			MPa / psi	MPa / psi	kg/m					
550H-3	5	-03	4.8	3/16	10.9	22.5	3,250	90.0	13,000	19	0.08	55/56
550H-4	6	-04	6.3	1/4	13.0	21.0	3,000	83.0	12,000	32	0.10	55/56
550H-5	8	-05	7.9	5/16	14.5	17.5	2,500	69.0	10,000	44	0.13	55/56
550H-6	10	-06	9.5	3/8	16.5	15.5	2,250	62.0	9,000	51	0.14	55/56
550H-8	12	-08	12.7	1/2	20.6	14.0	2,000	56.0	8,000	76	0.21	55/56
550H-10	16	-10	15.9	5/8	24.9	10.0	1,500	40.0	6,000	102	0.30	58/56
550H-12	20	-12	19.1	3/4	26.9	8.5	1,250	34.5	5,000	127	0.31	55/56
550H-16	25	-16	25.4	1	33.8	7.0	1,000	27.5	4,000	203	0.40	55/56

Temperature range: -40°C up to +100°C for petroleum, max. 57°C for synthetic hydraulic fluids and water-based hydraulic fluids.

Change in length: +/- 2% at working pressure

Notes:

Also available as twinline or multi-line hose, see page J2. 56 series is the recommended fitting type, as the availability of 55 series will be limited in the future.



540N – Medium Pressure Hose

Performance exceeds SAE 100 R7, BS 4983 Type 1, ISO 3949-1



Construction:

Core Tube:

Polyamide

Pressure Reinforcement:

One braided layer of high tensile synthetic fibre

Cover:

Polyurethane, black, pin-pricked

Applications:

Medium pressure service for use with petroleum or synthetic hydraulic fluids in hydraulic systems, as well as for use with some chemical fluids. Also on agricultural machinery, robotics systems and for use with fire resistant fluids.

Fittings:

Please refer to column "Fittings". For detailed information see section K.

Part No. #	DN size		mm	mm	Max. Working Pressure		Min. Burst Pressure		Min. Bend Radius	Weight	Fittings	
	mm	inch			MPa / psi	MPa / psi	kg/m					
540N-2	3	-02	3.2	1/8	8.4	17.5	2,500	69.0	10,000	13	0.05	58
540N-3	5	-03	4.8	3/16	10.5	21.0	3,000	83.0	12,000	19	0.08	55/56
540N-4	6	-04	6.3	1/4	12.6	19.0	2,750	76.0	11,000	38	0.10	55/56
540N-5	8	-05	7.9	5/16	14.1	17.5	2,500	69.0	10,000	44	0.12	55/56
540N-6	10	-06	9.5	3/8	16.0	15.5	2,250	62.0	9,000	51	0.14	55/56
540N-8	12	-08	12.7	1/2	20.1	14.0	2,000	56.0	8,000	76	0.21	55/56
540N-12	20	-12	19.1	3/4	26.3	8.5	1,250	34.5	5,000	152	0.25	55/56

Temperature range: -40°C up to +100°C

Change in length: +/-2% at working pressure

Notes:

Also available as twinline or multiline hose, see page J2.

56 series is the recommended fitting type, as the availability of 55 series will be limited in the future.

560 – Medium Pressure Hose

Performance exceeds DIN 20 022-1SN / SAE 100 R1



Construction:

Core Tube:

Polyester elastomer

Pressure Reinforcement:

One braided layer of high tensile steel wire

Cover:

Polyurethane, black

Applications:

Medium pressure service for use with petroleum, synthetic or water based hydraulic fluids. Especially suitable for hydraulic systems, machine tools, agricultural machinery etc.

Fittings:

Please refer to column "Fittings". For detailed information see section K.

Part No. #	DN size		mm	mm	Max. Working Pressure		Min. Burst Pressure		Min. Bend Radius	Weight	Fittings	
	mm	inch			MPa / psi	MPa / psi	kg/m					
560-3	5	-03	4.8	3/16	10.7	24.0	3,500	96	14,000	19	0.11	55/56
560-4	6	-04	6.3	1/4	13.0	22.5	3,250	90	13,000	44	0.15	55/56
560-5	8	-05	7.9	5/16	14.4	21.0	3,000	83	12,000	50	0.19	55/56
560-6	10	-06	9.5	3/8	16.3	19.0	2,750	76	11,000	57	0.22	55/56
560-8	12	-08	12.7	1/2	20.1	17.5	2,500	69	10,000	83	0.30	55/56
560-10	16	-10	15.9	5/8	23.4	14.0	2,000	56	8,000	151	0.46	55/56
560-12	20	-12	19.1	3/4	28.4	12.0	1,750	48	7,000	178	0.60	58/56

Temperature range: -40°C up to +121°C for petroleum, max. 57°C for synthetic hydraulic fluids and water-based hydraulic fluids.

Notes:

56 series is the recommended fitting type, as the availability of 55 series will be limited in the future.



Medium Pressure Hydraulic Hose
510A

510A – Refrigerant Hose

Performance exceeds SAE 100 R7



Construction:

Core Tube:

Polyamide Co-Polymer

Pressure Reinforcement:
Two braided layers of high tensile synthetic fibre

Cover:

Polyurethane, black, pin-pricked

Applications:

Medium pressure service for use with petroleum, synthetic or water-based hydraulic fluids in hydraulic systems, in coolant technology for fluids such as FREON/R12/R22/R134A.

Fittings:

Please refer to column "Fittings". For detailed information see section K.

Part No. #	DN size		mm inch		mm	Max. Working Pressure MPa / psi		Min. Burst Pressure MPa / psi		Min. Bend Radius mm	Weight kg/m	Fittings
	mm	inch	mm	inch	mm	MPa	psi	MPa	psi	mm	kg/m	
510A-3	5	-03	4.8	3/16	10.9	21.0	3,000	83.0	12,000	51	0.07	51/55/56
510A-4	6	-04	6.3	1/4	11.9	19.0	2,750	76.0	11,000	64	0.08	51/55/56
510A-5	8	-05	7.9	5/16	14.5	17.5	2,500	69.0	10,000	76	0.11	51
510A-6	10	-06	9.5	3/8	16.0	15.5	2,250	62.0	9,000	102	0.12	51/55/56
510A-8	12	-08	12.7	1/2	20.6	14.0	2,000	56.0	8,000	140	0.19	51/55/56
510A-12	20	-12	19.1	3/4	27.9	8.5	1,250	34.5	5,000	190	0.29	51

Temperature range: -40°C up to +100°C for petroleum or synthetic hydraulic fluids

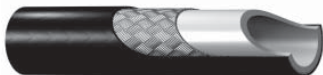
Change in length: +/- 3% at working pressure

Note:

56 series is the recommended fitting type, as the availability of 55 series will be limited in the future.

518C – Electrically Non-Conductive Hose

Performance exceeds SAE 100 R7



Construction:

Core Tube:

Polyester elastomer

Pressure Reinforcement:

One braided layer of high tensile synthetic fibre

Cover:

Special PFX, orange

Applications:

Medium pressure service for use with petroleum or synthetic hydraulic fluids in hydraulic systems where electrically non-conductive lines are required, e.g. in hydraulic systems on utility vehicles and working platforms for high-voltage line repair.

Fittings:

Please refer to column "Fittings". For detailed information see section K.

Part No. #	DN size		mm		mm	Max. Working Pressure		Min. Burst Pressure		Min. Bend Radius	Weight	Fittings
	mm	inch				MPa	psi	MPa	psi	mm	kg/m	
518C-2	3	-02	3.2	1/8	8.6	17.5	2,500	69	10,000	13	0.05	58
518C-3	5	-03	4.8	3/16	10.7	21.0	3,000	83	12,000	19	0.07	51/55/56
518C-4	6	-04	6.3	1/4	12.0	19.0	2,750	76	11,000	38	0.08	51/55/56
518C-5	8	-05	7.9	5/16	14.5	17.5	2,500	69	10,000	44	0.11	51/55/56
518C-6	10	-06	9.5	3/8	16.0	15.5	2,250	62	9,000	51	0.14	51/55/56
518C-8	12	-08	12.7	1/2	20.6	15.5	2,250	62	9,000	76	0.22	51/55/56
518C-10	16	-10	15.9	5/8	24.9	10.5	1,500	42.0	6,000	102	0.30	51/58
518C-12	20	-12	19.1	3/4	27.4	8.5	1,250	34.5	5,000	152	0.31	51/55/56
518C-16	25	-16	25.4	1	33.5	7.0	1,000	27.5	4,000	203	0.40	51/55/56

D

Temperature range: -40°C up to +100°C except limited to +57 °C for synthetic hydraulic fluids and waterbased fluids

Change in length: +/-2% at working pressure

Insulation resistivity: SAE J517 (less than 50 µA leakage under 75,000 Volts per feet)

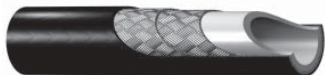
Note:

56 series is the recommended fitting type, as the availability of 55 series will be limited in the future.

Medium Pressure Hydraulic Hose
1202LT/55LT

1202LT – Low Temperature Hose

Constant Working Pressure



Construction:

Core Tube:

Polyester elastomer

Pressure Reinforcement:

One or two braided layers of high tensile synthetic fibre

Cover:

Special polyester, black, pinpricked

Applications:

Medium pressure service for use with petroleum or synthetic hydraulic fluids in hydraulic systems. Ideal for use at very low temperatures, e.g. fork-lift trucks in refrigerated warehouses, earthmoving and agricultural machinery for cold climates.

Fittings:

Please refer to column "Fittings". For detailed information see section K.

Notes:

Also available as twinline or multiline hose, see page J2.

56 series is the recommended fitting type, as the availability of 55 series will be limited in the future.

Part No.	DN size		mm inch		mm	Max. Working Pressure		Min. Burst Pressure		Min. Bend Radius	Weight	Fittings
#	mm	inch	mm	inch	mm	MPa	psi	MPa	psi	mm	kg/m	
1202LT-3	5	-03	4.8	3/16	10.7	21	3,000	83	12,000	19	0.08	55/56
1202LT-4	6	-04	6.4	1/4	12.6	21	3,000	83	12,000	32	0.11	55/56
1202LT-5	8	-05	8.0	5/16	14.4	21	3,000	83	12,000	45	0.13	55/56
1202LT-6	10	-06	10.0	3/8	16.4	21	3,000	83	12,000	51	0.16	55/56
1202LT-8	12	-08	12.8	1/2	22.2	21	3,000	83	12,000	89	0.30	58

Temperaturbereich: -57°C bis +100°C für Hydraulikflüssigkeiten auf Mineralölbasis, max. 57°C für synthetische und wasserbasierte Hydraulikflüssigkeiten.

Längenänderung: +/- 2% bei Betriebsdruck

55LT – Low Temperature Hose

Performance exceeds DIN 24 951 Part 2, SAE 100 R7



Construction:

Core Tube:

Polyester elastomer

Pressure Reinforcement:

Two braided layers of high tensile synthetic fibre

Cover:

Special polyester, black, pinpricked

Applications:

Medium pressure service for use with petroleum, synthetic or water based hydraulic fluids in hydraulic systems. Ideal for use at low temperature, e.g. fork-lift trucks in refrigerated warehouses, earthmoving and agricultural machinery for cold climates.

Fittings:

Please refer to column "Fittings". For detailed information see section K.

Part No.	DN size		mm inch		mm	Max. Working Pressure		Min. Burst Pressure		Min. Bend Radius	Weight	Fittings
#	mm	inch	mm	inch	mm	MPa	psi	MPa	psi	mm	kg/m	
55LT-2	3	-02	3.2	1/8	8.6	21.0	3,000	79.0	11,500	13	0.05	58
55LT-3	5	-03	4.8	3/16	10.9	22.5	3,250	90.0	13,000	19	0.08	55/56
55LT-4	6	-04	6.3	1/4	13.0	21.0	3,000	83.0	12,000	32	0.10	55/56
55LT-5	8	-05	7.9	5/16	14.5	17.5	2,500	69.0	10,000	44	0.13	55/56
55LT-6	10	-06	9.5	3/8	16.5	15.5	2,250	62.0	9,000	51	0.14	55/56
55LT-8	12	-08	12.7	1/2	20.6	14.0	2,000	56.0	8,000	76	0.21	55/56
55LT-12	20	-12	19.1	3/4	26.9	8.5	1,250	34.5	5,000	127	0.31	55/56

Temperature range: -57°C up to +100°C for petroleum, max. 57°C for synthetic hydraulic fluids and water-based hydraulic fluids.

Change in length: +/- 2% at working pressure

Notes:

Also available as twinline or multiline hose, see page J2.

56 series is the recommended fitting type, as the availability of 55 series will be limited in the future.



573X/573XL – Low Volumetric Expansion Hose

Constant Working Pressure



Construction:

Core Tube:
Polyamide

Pressure Reinforcement:
One braided layer of high tensile synthetic fibre

Cover:
Special polyurethane, black

Applications:
Medium pressure service for use with petroleum or synthetic hydraulic fluids for offshore oil applications, such as BOP bundles, where low volumetric expansion is required.

Fittings:

LV series on request
Factory assembly only.

Part No.	DN size		mm		mm	Max. Working Pressure	Min. Burst Pressure	Min. Bend Radius	Weight	Volumetric Expansion	Fittings		
#	mm	inch	mm	inch	mm	MPa / psi	MPa / psi	mm	kg/m	ml/m			
573X-3	5	-03	4.8	3/16	8.9	21	3,000	83	12,000	51	0.04	2.3	LV
573XL-3	5	-03	4.8	3/16	8.9	21	3,000	83	12,000	51	0.05	1.6	LV
573X-16	25	-16	25.4	1	37.3	21	3,000	83	12,000	254	0.60	38.0	LV

Temperature range: -40°C up to +100°C for petroleum or synthetic hydraulic fluids

Change in length: max. +/- 2% at working pressure

D

E – High Pressure Hydraulic Hose

PTA	– Hose For Reusable Fittings	E2
PTB	– Hose For Reusable Fittings	E2
2040N	– Multi Purpose Hose	E3
2040H	– Standard Hydraulic Hose	E4
520N	– Standard Hydraulic Hose	E4
528N	– Electrically Non-Conductive Hose	E5
580N	– Standard Hydraulic Hose	E5
588N	– Electrically Non-Conductive Hose	E6
590	– Hybrid High Pressure Hose	E6
575X	– Low Volumetric Expansion Hose	E7
2370N/2370H	– Multi Purpose Hose	E7
2245N/2244N	– High Pressure Hose	E8
HP/HP8	– High Pressure Hose	E9

E

High Pressure Hydraulic Hose PTA/PTB

PTA – Hose For Reusable Fittings



Construction:

Core Tube:
Polyamide

Pressure Reinforcement:
One braided layer of high tensile synthetic fibre.

Cover:

Polyurethane, except -025: Polyamide

Applications:

High pressure service for use with petroleum or synthetic hydraulic fluids in hydraulic systems and lubricating systems. Especially suitable for systems, where small outer diameters are required under difficult assembly conditions.

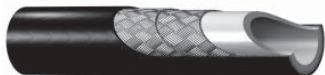
Fittings:

Please refer to column "Fittings". For detailed information see section K.

Part No. #	DN size mm inch		mm	Allowable Working Pressure MPa / psi			Burst Pressure MPa / psi	Min. Bend Radius mm	Weight kg/m	Fittings						
				+20°C	+50°C	+80°C										
PTA-025	4	-025	4.0	5/32	8.1	37.0	5,370	32.5	4,710	28.0	4,060	92.5	13,410	40	0.040	AF/AB
PTA-04	6	-04	6.3	1/4	11.2	25.5	3,700	22.5	3,260	19.0	2,760	64.0	9,280	63	0.075	AF/AB
PTA-05	8	-05	8.0	5/16	13.3	22.5	3,260	20.0	2,900	17.0	2,470	56.0	8,120	80	0.100	AF/AB
PTA-06	10	-06	10.0	3/8	16.7	19.0	2,760	17.0	2,470	14.5	2,100	47.5	6,880	100	0.145	AF/AB
PTA-08	12	-08	13.0	1/2	21.4	16.0	2,320	14.0	2,030	12.0	1,740	40.0	5,800	130	0.220	AF/AB

Temperature range: -40 °C up to +100 °C

PTB – Hose For Reusable Fittings



Construction:

Core Tube:
Polyamide

Pressure Reinforcement:
Two braided layers of high tensile synthetic fibre.

Cover:

Polyurethane, except -025: Polyamide

Applications:

High pressure service for use with petroleum or synthetic hydraulic fluids in hydraulic systems and lubricating systems. Especially suitable for systems, where small outer diameters are required under difficult assembly conditions.

Fittings:

Please refer to column "Fittings". For detailed information see section K.

Part No. #	DN size mm inch		mm	Allowable Working Pressure MPa / psi			Burst Pressure MPa / psi	Min. Bend Radius mm	Weight kg/m	Fittings						
				+20°C	+50°C	+80°C										
PTB-025	4	-025	4.0	5/32	9.2	48.5	7,030	42.5	6,160	38	5,510	121.5	17,620	40	0.055	BF/AB
PTB-04	6	-04	6.3	1/4	13.0	45.5	6,600	40.0	5,800	36	5,220	114.0	16,530	63	0.110	BF/AB
PTB-05	8	-05	8.0	5/16	14.9	37.5	5,440	33.0	4,790	30	4,350	94.0	13,630	80	0.135	BF/AB
PTB-06	10	-06	10.0	3/8	18.0	34.0	4,930	30.0	4,350	27	3,920	85.0	12,320	100	0.190	BF/AB
PTB-08	12	-08	13.0	1/2	21.9	28.0	4,060	24.5	3,550	22	3,190	70.0	10,150	130	0.270	BF/AB

Temperature range: -40 °C up to +100 °C

2040N – Multi Purpose Hose

Performance exceeds DIN 20 022 Part 1, DNV approved



Construction:

Core Tube:

Polyamide

Pressure Reinforcement:

One braided layer of high tensile steel wire

Cover:

Polyurethane, black

Applications:








High pressure service for use with petroleum or synthetic hydraulic fluids, gases, or paint spray applications.

Fittings:

Please refer to column "Fittings". For detailed information see section K.

Note:

For pinpricked hose please add „P“, e.g. 2040N-02V00-P

Part No. #	DN size mm inch				mm	Max. Working Pressure MPa / psi		Min. Burst Pressure MPa / psi		Min. Bend Radius mm	Weight kg/m	Fittings
												
2040N-02V00	3	-02	3.2	1/8	7.0	35.0	5,075	140	20,300	30	0.07	PX
2040N-03V00	5	-03	4.7	3/16	9.8	34.0	4,930	136	19,720	30	0.11	56/PX
2040N-04V00	6	-04	6.3	1/4	11.9	31.0	4,495	124	17,980	40	0.16	56/PX
2040N-05V00	8	-05	8.2	5/16	14.0	25.0	3,625	100	14,500	50	0.21	56/PX
2040N-06V00	10	-06	9.7	3/8	15.9	24.0	3,480	96	13,920	60	0.24	56/PX
2040N-08V00	12	-08	12.8	1/2	19.3	18.5	2,680	74	10,730	75	0.29	56/PX
2040N-10V00	16	-10	16.0	5/8	23.5	14.0	2,030	56	8,120	110	0.39	PX
2040N-12V00	20	-12	19.4	3/4	26.7	12.5	1,810	50	7,250	170	0.50	PX
2040N-16V00	25	-16	25.0	1	33.5	10.0	1,450	40	5,800	230	0.60	PX

Temperature range: -40°C up to +100°C for petroleum or synthetic hydraulic fluids.

Change in length: +2% / -4 % at working pressure

High Pressure Hydraulic Hose 2040H/520N

2040H – Standard Hydraulic Hose

Performance exceeds DIN 20 022 Part 1, DNV approved



Construction:

Core Tube:

Polyester elastomer

Pressure Reinforcement:

One braided layer of high tensile steel wire

Cover:

Polyurethane, black

Applications:

High pressure service for use with petroleum or synthetic hydraulic fluids in hydraulic systems. Excellent flexibility due to the excellent bonding of the core tube, pressure reinforcement and cover.

Especially suitable for lifting devices, machine tools and agricultural machinery

Fittings:

Please refer to column "Fittings". For detailed information see section K.

Part No. #	DN size		mm	inch	mm	Max. Working Pressure		Min. Burst Pressure		Min. Bend Radius	Weight kg/m	Fittings
	mm	inch				MPa	psi	MPa	psi			
2040H-03V10	5	-03	4.7	3/16	9.8	34.0	4,930	136	19,720	30	0.12	56/PX
2040H-04V10	6	-04	6.3	1/4	11.9	31.0	4,495	124	17,980	40	0.17	56/PX
2040H-05V10	8	-05	8.2	5/16	14.0	25.0	3,625	100	14,500	50	0.21	56/PX
2040H-06V10	10	-06	9.7	3/8	15.9	24.0	3,480	96	13,920	60	0.26	56/PX
2040H-08V10	12	-08	12.8	1/2	19.3	18.5	2,680	74	10,730	75	0.31	56/PX
2040H-10V10	16	-10	16.0	5/8	23.5	14.0	2,030	56	8,120	110	0.43	PX
2040H-12V10	20	-12	19.4	3/4	26.7	12.5	1,810	50	7,250	170	0.53	PX
2040H-16V10	25	-16	25.0	1	33.5	10.0	1,450	40	5,800	230	0.72	PX

Temperature range: -40°C up to +100°C for petroleum, max. 57°C for synthetic hydraulic fluids and water-based hydraulic fluids.

Change in length: +1% / -3 % at working pressure

Note: Also available as multilayer or twin hose, see page J2.

520N – Standard Hydraulic Hose

Performance exceeds SAE 100 R8, BS 4983 Type 2, ISO 3949-2



Construction:

Core Tube:

Polyamide

Pressure Reinforcement:

One braided layer of high tensile aramid fibre

Cover:

Polyurethane, black, pinpricked

Applications:

High pressure service for use with petroleum or synthetic hydraulic fluids in hydraulic systems as well as with gases. Low volumetric expansion and small outer diameters due to the aramid fibre reinforcement.

Fittings:

Please refer to column "Fittings". For detailed information see section K.

Part No. #	DN size		mm	inch	mm	Max. Working Pressure		Min. Burst Pressure		Min. Bend Radius	Weight kg/m	Fittings
	mm	inch				MPa	psi	MPa	psi			
520N-3	5	-03	4.8	3/16	10.9	34.5	5,000	138	20,000	38	0.07	55/56
520N-4	6	-04	6.3	1/4	13.0	34.5	5,000	138	20,000	51	0.10	55/56
520N-5	8	-05	7.9	5/16	14.5	31.0	4,500	124	18,000	64	0.12	55/56
520N-6	10	-06	9.5	3/8	16.5	27.5	4,000	110	16,000	64	0.13	55/56
520N-8	12	-08	12.7	1/2	20.6	24.0	3,500	96	14,000	102	0.20	55/56
520N-10	16	-10	15.9	5/8	23.4	19.0	2,750	76	11,000	152	0.25	55/56

Temperature range: -40°C up to +100°C for petroleum or synthetic hydraulic fluids.

Change in length: +/- 2% at working pressure

Notes: Also available as multilayer or twin hose, see page J2. 56 series is the recommended fitting type, as the availability of 55 series will be limited in the future.

528N – Electrically Non-Conductive Hose

Performance exceeds SAE 100 R8, BS 4983 Type 2, ISO 3949-2



Construction:

Core Tube:
Polyamide

Pressure Reinforcement:
One braided layer of high tensile aramid fibre

Cover:
Polyurethane, orange, not pinpricked

Applications:
High pressure service for use with petroleum or synthetic hydraulic fluids in hydraulic systems as well as with gases. Low volumetric expansion and small outer diameters due to the aramid fibre reinforcement.

Fittings:
Please refer to column "Fittings". For detailed information see section K.

Part No. #	DN	size	mm	inch	mm	Max. Working Pressure MPa / psi		Min. Burst Pressure MPa / psi		Min. Bend Radius mm	Weight kg/m	Fittings
528N-3	5	-03	4.8	3/16	10.9	34.5	5,000	138	20,000	38	0.07	55/56
528N-4	6	-04	6.3	1/4	13.0	34.5	5,000	138	20,000	51	0.10	55/56
528N-5	8	-05	7.9	5/16	14.5	31.0	4,500	124	18,000	64	0.12	55/56
528N-6	10	-06	9.5	3/8	16.5	27.5	4,000	110	16,000	64	0.13	55/56
528N-8	12	-08	12.7	1/2	20.6	24.0	3,500	96	14,000	102	0.20	55/56

Temperature range: -40°C up to +100°C for petroleum or synthetic hydraulic fluids.

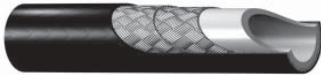
Change in length: +/- 2% at working pressure

Insulation resistivity: according to SAE J517 (less than 50 µA leakage under 75,000 Volts per feet)

Note:
56 series is the recommended fitting type, as the availability of 55 series will be limited in the future.

580N – Standard Hydraulic Hose

Performance exceeds SAE 100 R8, BS 4983 Type 2, ISO 3949-2



Construction:

Core Tube:
Polyamide

Pressure Reinforcement:
Multiple layers of high tensile synthetic fibre

Cover:
Polyurethane, black, pinpricked

Applications:
High pressure service for use with petroleum or synthetic hydraulic fluids as well as gas applications. For systems requiring flexible lines with low weight and small outer diameters.

Fittings:
Please refer to column "Fittings". For detailed information see section K.

Part No. #	DN	size	mm	inch	mm	Max. Working Pressure MPa / psi		Min. Burst Pressure MPa / psi		Min. Bend Radius mm	Weight kg/m	Fittings
580N-4	6	-04	6.3	1/4	15.7	34.5	5,000	138	20,000	51	0.16	58
580N-6	10	-06	9.5	3/8	19.6	27.5	4,000	110	16,000	64	0.22	58
580N-8	12	-08	12.7	1/2	22.6	24.0	3,500	96	14,000	102	0.31	58
580N-10	16	-10	15.9	5/8	24.9	19.0	2,750	76	11,000	152	0.32	56/58
580N-12	20	-12	19.1	3/4	29.5	15.5	2,250	62	9,000	203	0.35	56/58
580N-16	25	-16	25.4	1	37.6	14.0	2,000	56	8,000	254	0.56	56/58

Temperature range: -40°C up to +100°C for petroleum or synthetic hydraulic fluids.

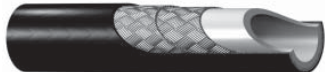
Change in length: +/- 2% at working pressure

Note:
Also available as multiline or twin hose, see page J2.

High Pressure Hydraulic Hose 588N/590

588N – Electrically Non-Conductive Hose

Performance exceeds SAE 100 R8, BS 4983 Type 2, ISO 3949-2



Construction:

Core Tube:
Polyamide

Pressure Reinforcement:
Two braided layers of high tensile synthetic fibre

Cover:
Polyurethane, orange

Applications:

High pressure service for use with petroleum or synthetic hydraulic fluids in hydraulic systems requiring electrically non-conductive hose assemblies, e.g. in systems on utility vehicles and working platforms for high voltage line repair.

Fittings:

Please refer to column "Fittings". For detailed information see section K.

Part No. #	DN size		mm	mm	Max. Working Pressure		Min. Burst Pressure		Min. Bend Radius	Weight	Fittings	
	mm	inch			MPa / psi	MPa / psi	kg/m					
588N-4	6	-04	6.3	1/4	15.7	34.5	5,000	138	20,000	51	0.16	58
588N-6	10	-06	9.5	3/8	19.6	27.5	4,000	110	16,000	64	0.22	58
588N-8	12	-08	12.7	1/2	22.6	24.0	3,500	96	14,000	102	0.31	58
588N-10	16	-10	15.9	5/8	24.9	19.0	2,750	76	11,000	152	0.32	56/58
588N-12	20	-12	19.1	3/4	29.5	15.5	2,250	62	9,000	203	0.35	56/58
588N-16	25	-16	25.4	1	37.6	14.0	2,000	56	8,000	254	0.56	56/58

Temperature range: -40°C up to +100°C for petroleum or synthetic hydraulic fluids

Change in length: +/- 2% at working pressure

Insulation resistivity: according to SAE J517 (less than 50 µA leakage under 75,000 Volts per feet)

590 – Hybrid High Pressure Hose

Performance exceeds SAE 100 R2



Construction:

Core Tube:
Polyester elastomer

Pressure Reinforcement:
One braided layer of high tensile aramid fibre and one braided layer of high tensile steel wire.

Cover:
Polyurethane, black

Applications:

High pressure service for use with petroleum, synthetic and water based hydraulic fluids. For systems with flexible hose assemblies with small bend radii and excellent aging stability.

Fittings:

Please refer to column "Fittings". For detailed information see section K.

Part No. #	DN size		mm	mm	Max. Working Pressure		Min. Burst Pressure		Min. Bend Radius	Weight	Fittings	
	mm	inch			MPa / psi	MPa / psi	kg/m					
590-3	5	-03	4.8	3/16	10.9	34.5	5,000	138	20,000	38	0.15	55/56
590-4	6	-04	6.3	1/4	13.0	34.5	5,000	138	20,000	44	0.21	55/56
590-6	10	-06	9.5	3/8	16.3	27.5	4,000	110	16,000	57	0.29	55/56
590-8	12	-08	12.7	1/2	20.1	24.0	3,500	96	14,000	83	0.37	55/56
590-10	16	-10	15.9	5/8	24.6	21.0	3,000	83	12,000	152	0.57	56/58
590-12	20	-12	19.1	3/4	27.9	17.5	2,500	69	10,000	178	0.66	56/58
590-16	25	-16	25.4	1	36.1	14.0	2,000	56	8,000	203	0.88	56/58

Temperature range: -40°C up to +121°C for petroleum, max. 57°C for synthetic hydraulic fluids and water-based hydraulic fluids.

Change in length: +/- 2% at working pressure

Note:

56 series is the recommended fitting type, as the availability of 55 series will be limited in the future.

575X – Low Volumetric Expansion Hose

Constant Working Pressure



Construction:

Core Tube:
Polyamide

Pressure Reinforcement:
One or two braided layers of high tensile aramid fibre

Cover:
Special polyurethane, black

Applications:
High pressure service for use with petroleum or synthetic hydraulic fluids for offshore oil applications where low volumetric expansion is required.

Fittings:
Please refer to column "Fittings". For detailed information see section K.

Part No. #	DN size		mm		Max. Working Pressure		Min. Burst Pressure		Min. Bend Radius		Weight	Volumetric Expansion	Fittings
	mm	inch			MPa	psi	MPa	psi	mm	mm	kg/m	ml/m	
575X-3	5	-03	4.8	3/16	10.8	34.5	5,000	138	20,000	38	0.07	5.2	55/56
575X-4	6	-04	6.3	1/4	12.8	34.5	5,000	138	20,000	51	0.10	6.9	55/56
575X-6	10	-06	9.5	3/8	16.3	34.5	5,000	138	20,000	76	0.13	10.2	55/56
575X-8	12	-08	12.7	1/2	20.6	34.5	5,000	138	20,000	102	0.20	15.1	55/56

Temperature range: -40°C up to +100°C for petroleum and synthetic hydraulic fluids.

Change in length: +/- 2% at working pressure

Note:

56 series is the recommended fitting type, as the availability of 55 series will be limited in the future.

2370N/2370H – Multi Purpose Hose

Performance exceeds DIN 20 022 Part 2



Construction:

Core Tube:
Polyamide; alternative DN 12: polyester elastomer

Pressure Reinforcement:
Two spiral layers of high tensile steel wire, two open spiral synthetic fibre

Cover:
Polyurethane, black. Other colours available on request

Applications:
High pressure service for use with petroleum or synthetic hydraulic fluids in hydraulic systems. Especially suitable for hydraulic tools, clamps, rescue equipment.

Fittings:
For hydraulic applications only. Paint spray and gas applications see page H4.

Part No. #	DN size		mm		Max. Working Pressure		Min. Burst Pressure		Min. Bend Radius		Weight	Fittings
	mm	inch			MPa	psi	MPa	psi	mm	mm	kg/m	
2370N-04V10	6	-04	6.3	1/4	12.4	46.5	6,740	186	26,970	70	0.19	RX
2370N-05V10	8	-05	8.2	5/16	14.3	44.0	6,380	176	25,520	100	0.25	RX
2370N-06V10	10	-06	9.7	3/8	16.4	42.0	6,090	168	24,360	120	0.33	9X
2370N-08V10	12	-08	12.8	1/2	20.0	35.0	5,075	140	20,300	150	0.42	9X
2370H-08V10	12	-08	12.8	1/2	19.6	30.0	4,350	120	17,400	150	0.42	9X

Temperature range: -40°C up to +100°C (short term +120°C) for petroleum or synthetic hydraulic fluids.

Change in length: +2% / -4 % at working pressure

Notes:

Available as twin or multiple hose, see page J2.
For pinpricked hose please add „P“, e.g. 2370N-04V10-P

High Pressure Hydraulic Hose
2245N/2244N

2245N/2244N – High Pressure Hose

Performance exceeds SAE100R9 / SAE 100R10 / DIN 20 022 Part 2



Construction:

Core Tube:
Polyamide

Pressure Reinforcement:

Two spiral layers of high tensile steel wire, one braided layer of steel wire

Cover:

Polyurethane, black
DN 16 and above: Polyamide, black

Applications:

High pressure service for use with petroleum or synthetic hydraulic fluids, as well as applications where gases and aggressive media are involved.

High kink resistance and maximum flexibility for use in compressors, clamps, hydraulic tools.

Mining applications:

2245N-04 to -16 and 2244N-20 approved by LOBA (Landesoberbergbauamt),

PA outer cover with embossed marking, suitable for use with Skydrol.

Part No. 2245N-..V31

Fittings:

Please refer to column "Fittings". For detailed information see section K.

Note:

For pinpricked hose please add „-P“, e.g. 2245N-04V00-P

Part No. #	DN size				mm	Max. Working Pressure		Min. Burst Pressure		Min. Bend Radius	Weight kg/m	Fittings
	mm	inch	mm	inch		MPa / psi	MPa / psi	MPa / psi	MPa / psi			
2245N-04V00	6	-04	6.3	1/4	12.5	45.0	6,525	180	26,100	70	0.25	NX
2245N-05V00	8	-05	8.2	5/16	14.3	40.0	5,800	160	23,200	100	0.32	NX
2245N-06V00	10	-06	9.7	3/8	17.0	37.5	5,435	150	21,750	120	0.42	NX
2245N-08V00	12	-08	12.8	1/2	20.7	35.0	5,075	140	20,300	165	0.52	NX
2245N-10V30	16	-10	16.0	5/8	24.5	33.0	4,785	132	19,140	200	0.72	NX
2245N-12V30	20	-12	19.6	3/4	28.5	30.0	4,350	120	17,400	240	0.92	NX
2245N-16V30	25	-16	25.0	1	34.0	27.5	3,985	110	15,950	280	1.15	NX
2244N-20V30	32	-20	32.0	1 1/4	44.0	27.5	3,985	110	15,950	400	1.83	NX

Temperature range: -40°C up to +100°C (short term +120°C) for petroleum or synthetic hydraulic fluids

Approvals: DN 20 and DN 25 DNV approved

2244N: upgraded pressure reinforcement results in higher working pressures, refer to page F2

HP® – High Pressure Hose
HP8® – High Pressure Hose – Electrically Non-Conductive



Construction:

Core Tube:
Polyamide

Pressure Reinforcement:
High tensile aramid fibre braids

Cover:
HP® hose: Polyurethane, blue
HP8® hose: Polyurethane, orange

Applications:
HP® hose for maximum pressure service for use with petroleum or synthetic hydraulic fluids in hydraulic systems. Applications include hydraulic tools, test rigs and offshore oil drilling.

HP8® hose, electrically non-conductive for working platforms.

For high voltage line repair.

Fittings:

Please refer to column "Fittings". For detailed information see section K.

Hose guard:

Accessories, see page M3

Note:

Factory assembly or supplied by authorised HP® hose assembly manufacturers.

Part No.	DN	size	mm	inch	mm	Max. Working Pressure MPa / psi	Min. Burst Pressure MPa / psi	Min. Bend Radius mm	Weight kg/m	Part No. Hose Guard Length 350 mm	Fittings		
#													
HP-3	5	-03	4.8	3/16	13.2	69	10,000	276	40,000	38	0.13	HPG3-12K	HP
HP-4	6	-04	6.3	1/4	15.2	69	10,000	276	40,000	64	0.16	HPG4-12K	HP
HP-6	10	-06	9.5	3/8	18.8	55	8,000	220	32,000	76	0.23	HPG6-12K	HP
HP8-3	5	-03	4.8	3/16	13.2	69	10,000	276	40,000	38	0.13	HPG3-12K-ORG	HP
HP8-4	6	-04	6.3	1/4	15.2	69	10,000	276	40,000	64	0.16	HPG4-12K-ORG	HP
HP8-6	10	-06	9.5	3/8	18.8	55	8,000	220	32,000	76	0.23	HPG6-12K-ORG	HP

Temperature range: -40°C up to +66°C for petroleum or synthetic hydraulic fluids.

Insulation resistivity: only for HP8® according to SAE J517 (less than 50 µA leakage under 75,000 Volts per feet)

E

F – Ultra-High Pressure Hydraulic Hose

2244N	– <i>polyflex</i> ® Ultra-High Pressure Hose	F2
2380N	– <i>polyflex</i> ® Ultra-High Pressure Hose	F3
2388N	– <i>polyflex</i> ® Ultra-High Pressure Hose	F3
2X80N	– <i>polyflex</i> ® High Pressure Hose	F4
2440D/2440N	– <i>polyflex</i> ® Ultra-High Pressure Hose	F5
2640D/2640N	– <i>polyflex</i> ® Ultra-High Pressure Hose	F6

F

Ultra-High Pressure Hydraulic Hose
2244N

2244N – polyflex® Ultra-High Pressure Hose

Performance exceeds SAE100R9 / SAE 100R10 / DIN 20 022 Part 2



Construction:

Core Tube:
Polyamide

Pressure Reinforcement:

Two spiral layers of high tensile steel wire, one braided layer of steel wire

Cover:

Polyurethane, black
DN 32: Polyamide, black

Applications:

High pressure service for use with petroleum or synthetic hydraulic fluids, as well as applications where gases and aggressive media are involved. High kink resistance and maximum flexibility for use in compressors, clamps, hydraulic tools.

Fittings:

Please refer to column "Fittings". For detailed information see section K.

Part No. #	DN size mm inch			mm	Max. Working Pressure MPa / psi		Min. Burst Pressure MPa / psi		Min. Bend Radius mm	Weight kg/m	Fittings	
	mm	inch	mm		MPa	psi	MPa	psi				
2244N-025V00	4	-025	3.9	5/32	9.6	75.0	10,875	300	43,500	55	0.19	8X
2244N-06V00	10	-06	9.7	3/8	18.0	53.5	7,755	215	31,175	120	0.50	8X
2244N-08V10	12	-08	12.8	1/2	22.7	55.0	7,975	220	31,900	150	0.80	8X

Temperature range: -40°C up to +100°C (short term +120°C) for petroleum or synthetic hydraulic fluids

Approvals: DN 10 and DN 12 DNV approved

2244N-20V30: listed under 2245N (page E8)

Note:

For pinpricked hose please add „-P“, e.g. 2244N-04V00-P

2380N – polyflex® Ultra-High Pressure Hose

Performance exceeds SAE 100R10



Construction:

Core Tube:

Polyamide

Pressure Reinforcement:

Two spiral layers and two open spiral layers of high tensile steel wire

Cover:

Polyurethane, black
Other colours available upon request

Applications:

Ultra-high pressure service for use with petroleum or synthetic hydraulic fluids. High kink resistance and high flexibility for hydraulic tools, straightening benches, clamps.

Fittings:

Please refer to column "Fittings". For detailed information see section K.

Part No.	DN size mm inch		mm	Max. Working Pressure MPa / psi		Min. Burst Pressure MPa / psi		Min. Bend Radius mm	Weight kg/m	Fittings		
#												
2380N-04V00	6	-04	6.3	1/4	13.3	70.0	10,150	280	40,600	70	0.27	8X
2380N-05V00	8	-05	8.2	5/16	15.7	62.5	9,060	250	36,250	90	0.35	8X

Temperature range: -40°C up to +100°C for petroleum or synthetic hydraulic fluids.

F

Note:

For pinpricked hose please add "-P", e.g. 2380N-04V00-P

2388N – polyflex® Ultra-High Pressure Hose

Performance exceeds SAE 100R10



Construction:

Core Tube:

Polyamide

Pressure Reinforcement:

Two and two spiral layers of steel wire/brass plated steel wire

Cover:

Polyurethane, black
Other colours available upon request

Applications:

Ultra-high pressure service for use with petroleum or synthetic hydraulic fluids. High kink resistance and high flexibility for hydraulic tools, straightening benches, clamps.

Fittings:

Please refer to column "Fittings". For detailed information see section K.

Part No.	DN size mm inch		mm	Max. Working Pressure MPa / psi		Min. Burst Pressure MPa / psi		Min. Bend Radius mm	Weight kg/m	Fittings		
#												
2388N-04V00	6	-04	6.3	1/4	13.3	80	11,600	320	46,400	80	0.30	8X

Temperature range: -40°C up to +100°C for petroleum or synthetic hydraulic fluids.

Ultra-High Pressure Hydraulic Hose
2X80N

2X80N – polyflex® Ultra-High Pressure Hose



Construction:

Core Tube:

Polyamide

Pressure Reinforcement:

Steel wire/aramid combination

Cover:

Polyurethane, black

Applications:

Ultra-high pressure service for use with petroleum or synthetic hydraulic fluids. High kink resistance and high flexibility for hydraulic tools, straightening benches, clamps.

Fittings:

Please refer to column "Fittings". For detailed information see section K.

Part No. #	DN size				mm	Max. Working Pressure		Min. Burst Pressure		Min. Bend Radius	Weight	Fit-tings
	mm	inch	MPa	psi		MPa	psi	mm	kg/m			
2X80N-04V10	6	-04	6.3	1/4	13.3	70	10,150	280	40,600	38	0.24	8X
2X80N-06V10	10	-06	9.8	3/8	18.6	70	10,150	280	40,600	70	0.54	LX
2X80N-12V10	20	-12	19.8	3/4	30.0	45	6,525	180	26,100	100	1.08	LX

Temperature range: -40°C up to +100°C

Note:

For pinpricked hose please add "-P", e.g. 2X80N-04V10-P

2440D/2440N – polyflex® Ultra-High Pressure Hose



Construction:

Core Tube:

DN 4-8: Polyoxymethylene,
DN 10-25: Polyamide

Pressure Reinforcement:

Four spiral layers of high
tensile steel wire

Cover:

Polyamide, DN 4-8, blue,
DN 10-25, black

Applications:

For use with petroleum or
synthetic hydraulic fluids, gas
and chemical fluids. Espe-
cially suitable for hydraulic
pre-tensioning equipment,
test rigs, as well as in offshore
oil applications.

Fittings:

Please refer to column
"Fittings". For detailed
information see section K.

Part No. #	DN size		mm	inch	mm	Max. Working Pressure		Min. Burst Pressure		Min. Bend Radius	Weight	Fit-tings
	mm	inch				MPa	psi	MPa	psi			
2440D-025V32	4	-025	3.9	5/32	10.4	220	31,900	550	79,750	100	0.21	LX
2440D-03V32	5	-03	4.7	3/16	11.5	180	26,100	450	65,250	130	0.28	LX
2440D-04V32	6	-04	6.3	1/4	12.5	164	23,780	410	59,450	155	0.33	LX
2440D-05V32	8	-05	8.0	5/16	15.1	150	21,750	375	54,375	175	0.44	LX
2440N-06V30	10	-06	9.7	3/8	19.4	140	20,300	350	50,750	190	0.70	LX
2440N-08V30	12	-08	12.8	1/2	22.5	130	18,850	325	47,125	200	0.94	LX
2440N-12V30	20	-12	19.6	3/4	30.0	100	14,500	250	36,250	250	1.39	LX
2440N-16V30	25	-16	25.0	1	37.0	90	13,050	225	32,625	300	1.90	LX

Temperature range: -40°C up to +100°C for petroleum or synthetic hydraulic fluids.

Working pressure:

For the above hose type there are no international standards available yet. The permissible working pressures are based on a safety factor of 1:2.5 (applicable to liquids)

Notes:

For pinpricked hose please add "-P", e.g. 2440D-03V32-P

Not for water jetting applications
(for these applications please refer to catalogue 4462-UK).

Available only as assemblies made by the factory or by authorized Parker distributors.

Ultra-High Pressure Hydraulic Hose
2640D/2640N

2640D/2640N – polyflex® Ultra-High Pressure Hose



Construction:

Core Tube:
DN 4-8: Polyoxymethylene,
DN 12-20: Polyamide

Pressure Reinforcement:
Six spiral layers of high
tensile steel wire

Cover:
Polyamide, blue

Applications:
For use with petroleum or
synthetic hydraulic fluids, and
chemical fluids. Especially
suitable for hydraulic pre-
tensioning equipment, test
rigs, as well as in offshore oil
applications.

Fittings:
Please refer to column
"Fittings". For detailed
information see section K.

Part No. #	DN size mm inch				mm	Max. Working Pressure MPa / psi		Min. Burst Pressure MPa / psi		Min. Bend Radius mm	Weight kg/m	Fittings
	4	-025	3.9	5/32		12.0	280	40,600	700			
2640D-025V32	4	-025	3.9	5/32	12.0	280	40,600	700	101,500	140	0.29	5X
2640D-03V32	5	-03	4.7	3/16	13.0	250	36,250	625	90,625	175	0.41	5X
2640D-05V32	8	-05	8.0	5/16	16.9	210	30,450	525	76,125	225	0.68	5X
2640N-08V32	12	-08	12.8	1/2	24.5	180	26,100	450	65,250	290	1.36	5X
2640N-12V32	20	-12	19.6	3/4	33.0	140	20,300	350	50,750	350	2.10	5X

Temperature range: -40°C up to +100°C for petroleum or synthetic hydraulic fluids.

Working pressure:

For the above hose type there are no international standards available yet. The permissible working pressures are based on a safety factor of 1:2.5 (applicable to liquids).

Notes:

Not for water jetting applications
(for these applications please refer to catalog 4462-UK).

Available only as assemblies made by the factory or by authorized Parker distributors.

G – PTFE/FEP Hose

PTFE-Hose	– General Statements	G2
929/929B	– Heavy Wall PTFE-Hose	G3
919U	– PTFE-Hose With PU Cover	G3
2030T-##R14	– PTFE-Hose	G4
2030T	– PTFE-Hose	G4
2033T	– PTFE-Hose	G5
939B	– PTFE-Hose – Convoluted	G5
2380F	– FEP High Pressure Hose	G6
2246F	– FEP High Pressure Hose	G6

G

PTFE/FEP Hose

General Statements

What is PTFE?

Why is it a superior hose core material?

PTFE (Polytetrafluoroethylene) is a high performance fluoroplastic with high crystallinity and high molecular weight. Discovered in 1938 by DuPont chemist, Dr. Roy J. Plunkett. PTFE is more commonly known as Teflon®, the DuPont trade name for PTFE. Parker PTFE hose provides full conveyance solutions for a wide array of markets and applications because of the unique properties of PTFE.

Unique properties of PTFE

Chemical resistance	– inert to virtually all chemicals
Extreme temperature ranges	– -50°C up to +260°C
Low friction	– minimizes pressure drop and deposits on hose
Non-stick	– easier to clean
Flexible	– convoluted designs have excellent bend radius properties
Resists moisture	
Unlimited shelf life	

Static dissipation and PTFE hoses

In the case of a PTFE hose, static electricity is caused when a non-conducting fluid flows at a high velocity through the PTFE natural core tube. When a static charge builds up in the tube of a PTFE hose, it will look for the path of least resistance to ground. If the tube is nonconductive, then the path of least resistance may be to pierce through the wall of the PTFE tube to the conductive stainless steel braid and eventually to the metal fittings and back to ground through the equipment to which the hose assembly is connected.

The purpose of a static dissipating tube on the inside of the hose is to provide an acceptable path of less resistance and allow the static buildup to dissipate through the core tube to the metal fittings and eventually to ground. Parker static-dissipating hose is designated with a B after the series number. Example: Hose type 919B-6 is the static-dissipative version of hose type 919-6.

929/929B – Heavy Wall PTFE Hose

929: Performance exceeds SAE 100 R14A

929B: Performance exceeds SAE 100 R14B



Construction:

Core Tube:

Polytetrafluoroethylene with heavy wall thickness

Pressure Reinforcement:

One braided layer of stainless steel wire

Applications:

Medium pressure service for use with hydraulic fluids at high temperatures, steam, and aggressive chemicals in the chemical industry where **low permeation is essential**.

Especially suitable for the food industry, FDA approved (according to CFR21 Part 177).

Fittings:

Please refer to column "Fittings". For detailed information see section K.

Note:

929B for use in explosion protected areas with black, static dissipative core tube

Part No. #	mm inch		mm inch		Std. TFE Wall Thickness mm	Max. Working Pressure MPa / psi		Min. Burst Pressure MPa / psi		Min. Bend Radius mm	Weight kg/m	Fittings
929/929B-4	4.8	3/16	7.9	5/16	1.02	21.0	3,000	83.0	12,000	38	0.12	91N
929/929B-6	7.9	5/16	11.1	7/16	1.02	17.5	2,500	69.0	10,000	89	0.18	91N
929/929B-8	10.3	13/32	14.3	9/16	1.07	14.0	2,000	56.0	8,000	114	0.23	91N
929/929B-12	15.9	5/8	19.1	3/4	1.22	8.4	1,200	33.6	4,800	165	0.28	91N
929/929B-16	22.2	7/8	28.6	1 1/8	1.22	8.8	1,250	35.0	5,000	188	0.73	91N

Temperature range: -54°C up to +204°C

Change in length: +2% / -4% at working pressure

Vacuum rating: 95 kPa (13,8 psi) size -4 up to -8

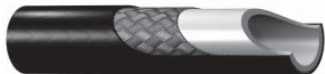
40 kPa (5,8 psi) size -12

47 kPa (6,8 psi) size -16

G

919U – PTFE Hose With PU Cover

Performance exceeds SAE 100 R14



Construction:

Core Tube:

Polytetrafluoroethylene

Pressure Reinforcement:

One braided layer of stainless steel wire

Cover:

Polyurethane, black

Applications:

Medium pressure service for use with hydraulic fluids at high temperatures and aggressive chemicals in the chemical industry. Especially suitable for the food industry, FDA approved (according to CFR21 Part 177).

Fittings:

Please refer to column "Fittings". For detailed information see section K.

Note:

Cover must be skived prior to fitting attachment.

Part No. #	mm inch		mm inch		Std. TFE Wall Thickness mm	Max. Working Pressure MPa / psi		Min. Burst Pressure MPa / psi		Min. Bend Radius mm	Weight kg/m	Fittings
919U-4	4.8	3/16	9.5	3/8	0.76	21.0	3,000	83.0	12,000	51	0.12	91N
919U-6	7.9	5/16	12.7	1/2	0.76	17.5	2,500	69.0	10,000	101	0.20	91N
919U-8	10.3	13/32	15.9	5/8	0.76	14.0	2,000	56.0	8,000	127	0.22	91N
919U-12	15.9	5/8	21.4	27/32	0.76	8.3	1,200	34.5	5,000	191	0.33	91N
919U-16	22.2	7/8	27.0	1 1/16	0.89	6.9	1,000	27.5	4,000	229	0.47	91N

Temperature range: -40°C up to +135°C

Change in length: +2% / -4% at working pressure

Vacuum rating: 95 kPa (13,8 psi) size -4 up to -8

40 kPa (5,8 psi) size -12

47 kPa (6,8 psi) size -16

PTFE/FEP Hose
2030T-##R14/2030T

2030T-##R14 – PTFE Hose

Performance exceeds SAE 100 R14A



Construction:

Core Tube:
Polytetrafluoroethylene

Pressure Reinforcement:
One braided layer of stainless steel wire

Applications:

Medium pressure service for use with hydraulic fluids at high temperatures, steam and aggressive chemicals in the chemical industry. Especially suitable for the food industry, FDA approved (according to CFR21 Part 177).

Fittings:

Please refer to column "Fittings". For detailed information see section K.

Part No.	mm		inch		Std. TFE Wall Thickness mm	Max. Working Pressure MPa / psi		Min. Burst Pressure MPa / psi		Min. Bend Radius mm	Weight kg/m	Fittings
#												
2030T-04R14	4.8	3/16	7.9	5/16	0.76	21.0	3,000	83.0	12,000	51	0.09	91N
2030T-05R14	6.4	1/4	9.5	3/8	0.76	21.0	3,000	83.0	12,000	76	0.13	91N
2030T-06R14	7.9	5/16	11.1	7/16	0.76	17.5	2,500	69.0	10,000	101	0.15	91N
2030T-08R14	10.3	13/32	13.5	17/32	0.76	14.0	2,000	56.0	8,000	127	0.19	91N
2030T-10R14	12.7	1/2	15.9	5/8	0.76	10.3	1,500	41.5	6,000	165	0.22	91N
2030T-12R14	15.9	5/8	19.1	3/4	0.76	8.3	1,200	34.5	5,000	191	0.28	91N
2030T-16R14	22.2	7/8	26.2	1 1/32	0.89	6.9	1,000	27.5	4,000	229	0.40	91N
2030T-20R14	28.6	1 1/8	32.5	1 9/32	1.07	4.3	625	17.2	2,500	406	0.58	91

Temperature range: -54°C up to +204°C permanent temperature

2030T – PTFE Hose



Construction:

Core Tube:
Polytetrafluoroethylene

Pressure Reinforcement:
One braided layer of stainless steel wire

Applications:

Medium pressure service for use with hydraulic fluids at high temperatures as well as aggressive chemical fluids, surface treatment, 2-component compounds.

Fittings:

Please refer to column "Fittings". For detailed information see section K.

Note:

Not recommended for dynamic applications.

Part No.	DN		size mm		inch	mm	Max. Working Pressure MPa / psi		Min. Burst Pressure MPa / psi		Min. Bend Radius mm	Weight kg/m	Fittings
#													
2030T-03V70	5	-03	4.7	3/16	7.8	27.5	3,985	110	15,950	50	0.09	YX	
2030T-04V70	6	-04	6.3	1/4	9.5	24.0	3,480	96	13,920	75	0.13	YX	
2030T-05V70	8	-05	8.2	5/16	11.5	20.0	2,900	80	11,600	100	0.17	YX	
2030T-06V70	10	-06	9.7	3/8	13.0	17.5	2,535	70	10,150	120	0.19	YX	
2030T-08V70	12	-08	12.8	1/2	16.7	15.0	2,175	60	8,700	135	0.29	YX	
2030T-10V70	16	-10	16.0	5/8	20.0	12.5	1,810	50	7,250	160	0.34	YX	
2030T-12V70	20	-12	19.4	3/4	23.5	10.0	1,450	40	5,800	200	0.41	YX	
2030T-16V70	25	-16	25.0	1	29.0	8.0	1,160	32	4,640	250	0.51	YX	

Temperature range: -50°C up to +150°C permanent temperature
+230°C for working pressures up to 2 MPa

2033T – PTFE Hose



Construction:

Core Tube:
Polytetrafluoroethylene

Pressure Reinforcement:
Two braided layers of stainless steel wire

Applications:

Medium pressure service for use with hydraulic fluids at high temperatures as well as aggressive chemical fluids, surface treatment, 2-component compounds.

Fittings:

Please refer to column "Fittings". For detailed information see section K.

Note:

Not recommended for dynamic applications.

Part No.	DN size		mm		mm	Max. Working Pressure		Min. Burst Pressure		Min. Bend Radius	Weight	Fittings
	mm	inch	MPa	psi		MPa	psi	mm	kg/m			
#												
2033T-04V70	6	-04	6.3	1/4	11.0	27.5	3,985	110	15,950	75	0.23	PX
2033T-05V70	8	-05	8.2	5/16	13.2	25.0	3,625	100	14,500	100	0.26	PX
2033T-06V70	10	-06	9.7	3/8	15.0	22.5	3,260	90	13,050	120	0.34	PX
2033T-08V70	12	-08	12.8	1/2	18.6	20.0	2,900	80	11,600	135	0.47	PX
2033T-10V70	16	-10	16.0	5/8	21.5	17.5	2,535	70	10,150	160	0.53	YX
2033T-12V70	20	-12	19.4	3/4	25.5	15.0	2,175	60	8,700	200	0.69	YX
2033T-16V70	25	-16	25.0	1	31.0	11.0	1,595	44	6,380	250	0.81	YX

Temperature range: -50°C up to +150°C permanent temperature
+230°C for working pressures up to 2 MPa



939/939B – PTFE Hose - Convoluted



Construction:

Core Tube:
Polytetrafluoroethylene, 939B: conductive

Pressure Reinforcement:
One braided layer of stainless steel wire

Applications:

Medium pressure service for use with hydraulic fluids at high temperatures and aggressive chemicals in the chemical pulp and paper industry, when small bend radii are required. Not recommended for steam applications.

Fittings:

Please refer to column "Fittings". For detailed information see section K.

Part No.	DN size		mm		mm	Max. Working Pressure		Min. Burst Pressure		Min. Bend Radius	Weight	Fittings
	mm	inch	MPa	psi		MPa	psi	mm	kg/m			
#												
939/939B-4	6	-04	6.3	1/4	12.0	14.0	2,000	56.0	8,000	32	0.12	93N
939/939B-6	10	-06	9.5	3/8	15.0	10.3	1,500	41.5	6,000	57	0.18	93N
939/939B-8	12	-08	12.7	1/2	20.1	9.5	1,350	37.5	5,400	73	0.31	93N
939/939B-10	16	-10	15.9	5/8	22.4	6.9	1,000	27.5	4,000	76	0.36	93N
939/939B-12	20	-12	19.1	3/4	27.7	7.5	1,100	30.5	4,400	95	0.47	93N
939/939B-16	25	-16	25.4	1	33.8	6.9	1,000	27.5	4,000	127	0.67	93N
939/939B-20	32	-20	31.8	1 1/4	44.5	6.9	1,000	27.5	4,000	159	1.04	93N
939/939B-24	40	-24	38.1	1 1/2	52.1	5.0	750	21.0	3,000	191	1.18	93N
939/939B-32	50	-32	50.8	2	65.0	1.7	250	6.9	1,000	254	1.50	93N

Temperature range: -73°C bis +232°C

Note:

Factory made assemblies only for -4 and -6



PTFE/FEP Hose
2380F/2246F

2380F – FEP High Pressure Hose



Construction:

Core Tube:
Fluorethylenpropylene

Pressure Reinforcement:

Two spiral layers and two open spiral layers of high tensile steel wire

Cover:

Polyurethane, grey

Applications:

Glue applications in the automotive industry and material lines for temperatures below +80°C. Gas applications with short term high temperature influences due to flow rates.

Fittings:

Please refer to column "Fittings". For detailed information see section K.

Part No.	DN	size	mm	inch	mm	Max. Working Pressure MPa / psi	Min. Burst Pressure MPa / psi	Min. Bend Radius mm	Weight kg/m	Fittings		
#												
2380F-04V07	6	-04	6.3	1/4	12.5	42.5	6,160	170	24,650	60	0.26	NX
2380F-05V07	8	-05	8.0	5/16	14.3	37.5	5,435	150	21,750	85	0.35	NX
2380F-06V07	10	-06	9.7	3/8	17.0	35.0	5,075	140	20,300	110	0.41	NX
2380F-08V07	12	-08	12.8	1/2	20.5	32.5	4,710	130	18,850	140	0.58	NX
2380F-10V07	16	-10	16.0	5/8	24.5	30.0	4,350	120	17,400	175	0.75	NX
2380F-12V07	20	-12	19.4	3/4	28.5	27.5	3,985	110	15,950	205	0.96	NX
2380F-16V07	25	-16	25.0	1	34.0	22.5	3,260	90	13,050	240	1.28	NX

Temperature range: -40°C up to +80°C

Notes:

For pinpricked hose please add "-P", e.g. 2380F-04V07-P.

Available only as assemblies made by the factory or by authorized Parker distributors.

2246F – FEP High Pressure Hose



Construction:

Core Tube:
Fluorethylenpropylene

Pressure Reinforcement:

Two spiral layers and one braided layer of high tensile steel wire

Applications:

Hotmelt applications in the automotive industry, suitable for additional heating elements.

Fittings:

Please refer to column "Fittings". For detailed information see section K.

Part No.	DN	size	mm	inch	mm	Max. Working Pressure MPa / psi	Min. Burst Pressure MPa / psi	Min. Bend Radius mm	Weight kg/m	Fittings		
#												
2246F-04V70	6	-04	6.3	1/4	11.4	41.5	6,015	165	23,925	60	0.26	NX
2246F-05V70	8	-05	8.2	5/16	13.5	37.5	5,435	150	21,750	85	0.33	NX
2246F-06V70	10	-06	9.7	3/8	16.0	34.0	4,930	136	19,720	110	0.35	NX
2246F-08V70	12	-08	12.8	1/2	18.5	32.5	4,710	130	18,850	140	0.53	NX
2246F-10V70	16	-10	16.0	5/8	23.4	30.0	4,350	120	17,400	175	0.70	NX
2246F-12V70	20	-12	19.4	3/4	27.0	26.5	3,840	106	15,370	205	0.92	NX
2246F-16V70	25	-16	25.0	1	32.5	21.0	3,045	84	12,180	240	1.18	NX

Temperature range: -50°C up to +150°C

Notes:

Not recommended for dynamic applications.

Available only as assemblies made by the factory or by authorized Parker distributors.

H – Airless Paint Spray Hose

Airless Paint Spray Applications – General Statements	H2
CPX – Paint Spray Hose	H3
2040N – Medium Pressure Hose	H3
2370N – High Pressure Hose	H4
2380N/2244N – Ultra High Pressure Hose	H4
2030T – PTFE Hose	H5
2033T – PTFE Hose	H5



Paint Spray Hose

Airless Paint Spray Applications – General Statements

Airless Paint Spray Applications – General Statements

- **Hose Assembly:**

Hoses for Airless Paint Spray applications require a specific assembly procedure. It is imperative to have assembly training by Parker on the individual product.

The hose assembly must be silicone-free as silicone interferes with the paint spray quality. This requirement includes all the components and the testing media.

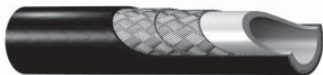
For each hose type specific Parker hose assembly and testing instructions have to be applied.

- **Conductivity:**

The hose assemblies must be conductive in order to dissipate the electrostatic charge. The conductivity of the hose assembly must be ensured and proven (100% testing) according to the Parker specification.

CPX – Paint Spray Hose

electrically conductive – high volumetric expansion – light weight



Construction:

Core Tube:
Polyamide

Pressure Reinforcement:
Two braided layers of high tensile synthetic fibre

Cover:
Polyurethane

Applications:
Mobile airless paintspray with electrically driven power units where high volumetric expansion is required.

Fittings:
Please refer to column "Fittings". For detailed information see section K.

Part No. #	DN size mm inch		mm	Max. Working Pressure MPa / psi		Min. Burst Pressure MPa / psi		Min. Bend Radius mm	Weight kg/m	Fittings		
CPX-3	5	-03	4.8	3/16	11.1	27	3,915	90	13,050	45	0.090	*
CPX-4	6	-04	6.4	1/4	13.0	27	3,915	90	13,050	60	0.104	PX/56
CPX-6	10	-06	9.5	3/8	17.8	24	3,480	82	11,890	75	0.200	*

Temperature range: -20°C up to +80°C

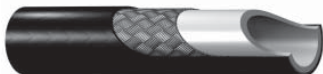
Change in length: +/-2% at working pressure

* Fittings on request

Assembly according to PFDE-CCPX Assembly Instructions

2040N – Medium Pressure Hose

Performance exceeds DIN 20 022 Part 1, DNV approved



Construction:

Core Tube:
Polyamide

Pressure Reinforcement:
One braided layer of high tensile steel wire

Cover:
Polyurethane, black

Applications:
Medium pressure paint spray applications. Also available with welded-on air tube (refer to section L, TPU tubing).

Fittings:
Please refer to column "Fittings". For detailed information see section K.

Note:
Sizes -03, -04 and -06 also available in blue colour, change Part No. to: 2040N-03V02, 2040N-04V02 or 2040N-06V02, resp.

Part No. #	DN size mm inch		mm	Max. Working Pressure MPa / psi		Min. Burst Pressure MPa / psi		Min. Bend Radius mm	Weight kg/m	Fittings		
2040N-02V00	3	-02	3.2	1/8	7.0	35.0	5,075	140	20,300	30	0.07	PX
2040N-03V00	5	-03	4.7	3/16	9.8	34.0	4,930	136	19,720	30	0.11	56/PX
2040N-04V00	6	-04	6.3	1/4	11.9	31.0	4,495	124	17,980	40	0.16	56/PX
2040N-05V00	8	-05	8.2	5/16	14.0	25.0	3,625	100	14,500	50	0.21	56/PX
2040N-06V00	10	-06	9.7	3/8	15.9	24.0	3,480	96	13,920	60	0.24	56/PX
2040N-08V00	12	-08	12.8	1/2	19.3	18.5	2,680	74	10,730	75	0.29	56/PX
2040N-10V00	16	-10	16.0	5/8	23.5	14.0	2,030	56	8,120	110	0.39	PX
2040N-12V00	20	-12	19.4	3/4	26.7	12.5	1,810	50	7,250	170	0.50	PX
2040N-16V00	25	-16	25.0	1	33.5	10.0	1,450	40	5,800	230	0.60	PX

Temperature range: -40°C up to +80°C

Change in length: +2% / -4 % at working pressure

Paint Spray Hose
2370N/2380N/2244N

2370N – High Pressure Hose

Performance exceeds DIN 20 022 Part 2



Construction:

Core Tube:
Polyamide

Pressure Reinforcement:
Two spiral layers of high tensile steel wire, two open spiral synthetic fibre

Cover:

Polyurethane, black.

Applications:

High pressure paint spray applications.

Fittings:

Please refer to column "Fittings". For detailed information see section K.

Part No. #	DN size mm inch				mm	Max. Working Pressure MPa / psi		Min. Burst Pressure MPa / psi		Min. Bend Radius mm	Weight kg/m	Fittings
	6	-04	6.3	1/4		12.4	46.5	6,740	186			
2370N-04V10	6	-04	6.3	1/4	12.4	46.5	6,740	186	26,970	70	0.19	NX
2370N-05V10	8	-05	8.2	5/16	14.3	44.0	6,380	176	25,520	100	0.25	NX
2370N-06V10	10	-06	9.7	3/8	16.4	42.0	6,090	168	24,360	120	0.33	NX
2370N-08V10	12	-08	12.8	1/2	20.0	35.0	5,075	140	20,300	150	0.42	NX

Temperature range: -40°C up to +80°C

Change in length: +2% / -4 % at working pressure

Note:

Sizes -04 and -06 also available in blue colour;

change Part No. to: 2370N-04V02

2370N-06V02

2380N/2244N – Ultra-High Pressure Hose

Performance exceeds SAE100R9 / SAE 100R10 / DIN 20 022 Part 2



Construction:

Core Tube:
Polyamide

Pressure Reinforcement:

2380N:

Two spiral layers and two open spiral layers of high tensile steel wire

2244N:

Two spiral layers of high tensile steel wire, one braided layer of steel wire

2244N:

Two spiral layers of high tensile steel wire, one braided layer of steel wire

2244N:

Two spiral layers of high tensile steel wire, one braided layer of steel wire

2244N:

Cover:
Polyurethane, black

Applications:

High pressure paint spray applications. High kink resistance combined with superior flexibility.

Fittings:

Please refer to column "Fittings". For detailed information see section K.

Part No. #	DN size mm inch				mm	Max. Working Pressure MPa / psi		Min. Burst Pressure MPa / psi		Min. Bend Radius mm	Weight kg/m	Fittings
	6	-04	6.3	1/4		13.3	70.0	10,150	280			
2380N-04V00	6	-04	6.3	1/4	13.3	70.0	10,150	280	40,600	70	0.27	8X
2244N-06V00	10	-06	9.7	3/8	18.0	53.5	7,755	215	31,175	120	0.50	8X
2244N-08V10	12	-08	12.8	1/2	22.7	55.0	7,975	220	31,900	150	0.80	8X

Temperature range: -40°C up to +80°C

2030T – PTFE Hose



Construction:

Core Tube:
Polytetrafluorethylene

Pressure Reinforcement:
One braided layer of stainless steel wire

Applications:
Medium pressure service for use at high temperatures as well as aggressive chemical fluids, surface treatment, 2-component compounds.

Fittings:
Please refer to column "Fittings". For detailed information see section K.

Part No.	DN size mm inch			mm	Max. Working Pressure MPa / psi		Min. Burst Pressure MPa / psi		Min. Bend Radius mm	Weight kg/m	Fittings	
#												
2030T-03V70	5	-03	4.7	3/16	7.8	27.5	3,985	110	15,950	50	0.09	YX
2030T-04V70	6	-04	6.3	1/4	9.5	24.0	3,480	96	13,920	75	0.13	YX
2030T-05V70	8	-05	8.2	5/16	11.5	20.0	2,900	80	11,600	100	0.17	YX
2030T-06V70	10	-06	9.7	3/8	13.0	17.5	2,535	70	10,150	120	0.19	YX
2030T-08V70	12	-08	12.8	1/2	16.7	15.0	2,175	60	8,700	135	0.29	YX
2030T-10V70	16	-10	16.0	5/8	20.0	12.5	1,810	50	7,250	160	0.34	YX
2030T-12V70	20	-12	19.4	3/4	23.5	10.0	1,450	40	5,800	200	0.41	YX
2030T-16V70	25	-16	25.0	1	29.0	8.0	1,160	32	4,640	250	0.51	YX

Temperature range: -50°C up to +150°C permanent temperature
+230°C for working pressures up to 2 MPa



2033T – PTFE Hose



Construction:

Core Tube:
Polytetrafluorethylene

Pressure Reinforcement:
Two braided layers of stainless steel wire

Applications:
Medium pressure service for use at high temperatures as well as aggressive chemical fluids, surface treatment, 2-component compounds.

Fittings:
Please refer to column "Fittings". For detailed information see section K.

Part No.	DN size mm inch			mm	Max. Working Pressure MPa / psi		Min. Burst Pressure MPa / psi		Min. Bend Radius mm	Weight kg/m	Fittings	
#												
2033T-04V70	6	-04	6.3	1/4	11.0	27.5	3,985	110	15,950	75	0.23	PX
2033T-05V70	8	-05	8.2	5/16	13.2	25.0	3,625	100	14,500	100	0.26	PX
2033T-06V70	10	-06	9.7	3/8	15.0	22.5	3,260	90	13,050	120	0.34	PX
2033T-08V70	12	-08	12.8	1/2	18.6	20.0	2,900	80	11,600	135	0.47	PX
2033T-10V70	16	-10	16.0	5/8	21.5	17.5	2,535	70	10,150	160	0.53	YX
2033T-12V70	20	-12	19.4	3/4	25.5	15.0	2,175	60	8,700	200	0.69	YX
2033T-16V70	25	-16	25.0	1	31.0	11.0	1,595	44	6,380	250	0.81	YX

Temperature range: -50°C up to +150°C permanent temperature
+230°C for working pressures up to 2 MPa

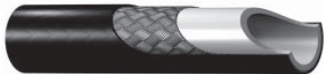
I – Gas Hose

2040N	– High Pressure Gas Dispensing Hose	12
8LPG	– Hose for Technical Gases	12
5CNG	– Compressed Natural Gas Dispense Hose	13



Gas Hose
2040N/8LPG

2040N – High Pressure Gas Dispensing Hose



Construction:

Core Tube:

Polyamide

Pressure Reinforcement:

One braided layer of high tensile steel wire

Cover:

Polyurethane, pinpricked
2040N-04V74: black
2040N-04V78: grey

Applications:

Gas dispensing hose

Fittings:

Please refer to column "Fittings". For detailed information see section K.

Part No.	DN size mm inch		mm	Max. Working Pressure MPa / psi		Min. Burst Pressure MPa / psi		Min. Bend Radius mm	Weight kg/m	Fittings		
#												
2040N-04V74	6	-04	6.3	1/4	11.9	31	4,495	124	17,980	40	0.16	PX
2040N-04V78	6	-04	6.3	1/4	11.9	31	4,495	124	17,980	40	0.16	PX

Temperature range: -40 °C up to +100 °C

Change in length: ≤3 %

8LPG – Hose for Technical Gases

Conforms to ECE R 67 Class 1



Construction:

Core Tube:

Polymer

Pressure Reinforcement:

One braided layers of high tensile synthetic fibre

Cover:

Polymer, black

Applications:

Highly resistant polymer core tube. Strong polymer cover for high wear and tear resistance, weatherproof, UV- and ozone-resistant.

Fittings:

Please refer to column "Fittings". For detailed information see section K.

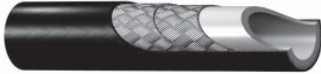
Part No.	DN size mm inch		mm	Max. Working Pressure MPa / psi		Min. Burst Pressure MPa / psi		Min. Bend Radius mm	Weight kg/m	Fittings		
#												
8LPG-3	5	-03	4.8	3/16	8.0	8.5	1,250	34.5	5,000	50	0.033	on request
8LPG-4	6	-04	6.3	1/4	9.8	8.5	1,250	34.5	5,000	75	0.047	on request
8LPG-5 *	8	-05	7.9	5/16	12.2	8.5	1,250	34.5	5,000	90	0.067	on request
8LPG-6 *	10	-06	9.5	3/8	13.7	8.5	1,250	34.5	5,000	100	0.075	on request

Temperature range: -35°C up to +120°C

* 8LPG-5 and -6 conforming to ECE R 67 Class 1 are available as of June 2005 (8LPG-3 and -4 available)

5CNG – Compressed Natural Gas Dispense Hose

Conforms to NFPA 52, AGA 1-93 and AGA/CGA, ANSI Standards 4.2/12.52



Construction:

Core Tube:
Electrically conductive polymer

Pressure Reinforcement:
Two or more braided layers of high tensile synthetic fibre

Cover:
Polyurethane, red, pinpricked

Applications:
Refuelling hose specially designed for conveying compressed natural gas. High-strength conductive polymer core tube formulated to dissipate static electrical buildup. Thick urethane cover for abrasion and wear resistance.

Fittings:

Please refer to column "Fittings". For detailed information see section K.

Part No. #	DN size mm inch		mm	Max. Working Pressure MPa / psi		Min. Burst Pressure MPa / psi		Min. Bend Radius mm	Weight kg/m	Fittings		
#												
5CNG-3	5	-03	4.8	3/16	10.9	34.5	5,000	137.9	20,000	38	0.07	55
5CNG-4	6	-04	6.3	1/4	15.7	34.5	5,000	137.9	20,000	51	0.16	58
5CNG-6	10	-06	9.5	3/8	19.6	34.5	5,000	137.9	20,000	76	0.25	58
5CNG-8	12	-08	12.7	1/2	22.6	34.5	5,000	137.9	20,000	102	0.31	58
5CNG-12	20	-12	19.1	3/4	29.2	34.5	5,000	137.9	20,000	191	0.36	58H
5CNG-16	25	-16	25.4	1	40.4	34.5	5,000	137.9	20,000	254	0.53	58H

Temperature range: -40°C up to +82°C

Notes:

All hose assemblies must be proof tested and electrically tested per NFPA 52. Each CNG kit includes a warning tag and thermoplastic hose guards. (Refer to CNG Hose Assembly Instructions (Bulletin No. 4660-CNG-PDF-2). Wire spring guards required for AGA certification in CNG dispenser applications except 5CNG-12, 5CNG-16. See section M – Accessories in this catalog for special PSG wire spring guards.

Not for use in airless paint spray applications.

Twin-line constructions for return lines available.

Available only ex factory or via CSA certified distributors.

Pre-finished Refuelling Hose Assemblies:

Part No. #	DN size mm inch		Layout	Fittings	Length		
#							
5CNG-4-3000	6	-04	6.3	1/4	both ends	JIC 7/16 x 20 UNF	3,000
5CNG-6-3000	10	-06	9.5	3/8	both ends	JIC 9/16 x 18 UNF	3,000
5CNG-8-3000	12	-08	12.7	1/2	both ends	JIC 7/8 x 14 UNF	3,000

Assembled with spring guard; caution label including test certificate.

For mobile applications we supply on request 5CNG-3 and -8 hoses conforming to ECE R 110 Class 0.

J – Twinline/Multiline Hose

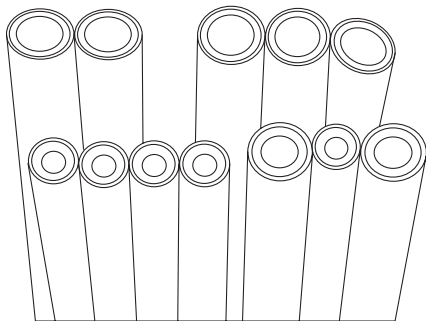
Twinline/Multiline Hose J2



Twinline/Multiline Hose
Twinline and Multiline Hose

Twinline and Multiline Hose

Twinline and multiline hose can be joined using various combinations of hose sizes and types. Twinline or multiline hose ensure easier installation in applications such as fork-lift trucks, aerial lifts and hydraulic cranes.



For separating multiline hose and the appropriate tools see page O22.

The following hose types are available in twinline or multiline configuration:

540N	2040H
550H	520N
1202LT	580N
55LT	2370N
	2370H

Other hose types on request.

Examples:

Part No. #	Part No. for Twin Hose #
2040H-04V10	2040H-04-04V10V10
2040H-05V10	2040H-05-05V10V10
2040H-06V10	2040H-06-06V10V10
2040H-08V10	2040H-08-08V10V10

Part No. #	Part No. for Twin Hose #
550H-4	550H-4-4
550H-5	550H-5-5
550H-6	550H-6-6
550H-8	550H-8-8

K – Hose Fittings

Fittings Overview	K2 - K7
Fittings Reference Table	K8 - K9
51 Series	K10 - K18
54 Series	K19 - K23
55 Series	K24 - K40
56 Series	K41 - K56
58 Series	K57 - K67
5X Series	K68 - K69
8X Series	K70 - K74
91N Series	K75 - K93
93N Series	K94 - K99
AB Series	K100 - K101
AF/BF Series	K102
EX Series	K103 - K108
HP Series	K109
LX Series	K110 - K113
NX Series	K114 - K126
PX Series	K127 - K145
RX Series	K146 - K153
YX Series	K154 - K164

K

How to find the desired fitting

1. Selection via end connection code:

On pages K2 to K7 there is an overview of the fittings in order of their connection standards. Each infobox contains the end connection code, the exact name, a drawing of the fitting, and the page number, where the fitting of the desired series can be found.

2. Selection via fitting series:

Please use the reference table on pages K8 and K9, if you are looking for a fitting from the desired series.

Note: the indicated page numbers refer to chapter K (e.g. 123 = K123)

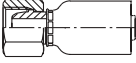
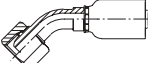
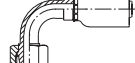
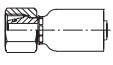
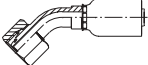
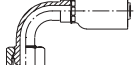
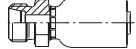

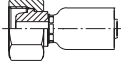
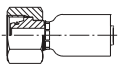
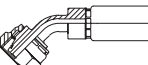
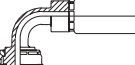


For Your Safety!

All fittings listed in this catalogue have been fully tested with the relevant hose types to ensure their safety.

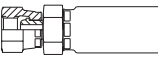
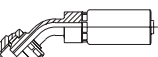
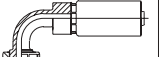
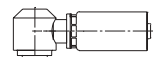
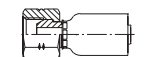
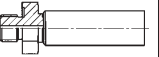

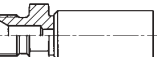
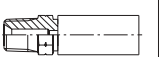
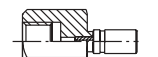
Hose Fittings
Fittings Overview

Fittings Overview

Metric DIN Fittings

<p>C3 Sealing Head</p> <p>Light Series Metric Swivel Nut</p>  <table border="1"> <tr><td>51</td><td>10</td><td>AB</td><td>100</td></tr> <tr><td>54</td><td>19</td><td>EX</td><td>-</td></tr> <tr><td>55</td><td>24</td><td>HP</td><td>-</td></tr> <tr><td>56</td><td>41</td><td>LX</td><td>110</td></tr> <tr><td>58</td><td>-</td><td>NX</td><td>114</td></tr> <tr><td>5X</td><td>68</td><td>PX</td><td>127</td></tr> <tr><td>8X</td><td>-</td><td>RX</td><td>-</td></tr> <tr><td>91N</td><td>75</td><td>YX</td><td>154</td></tr> <tr><td>93N</td><td>-</td><td>-</td><td>-</td></tr> </table>	51	10	AB	100	54	19	EX	-	55	24	HP	-	56	41	LX	110	58	-	NX	114	5X	68	PX	127	8X	-	RX	-	91N	75	YX	154	93N	-	-	-	<p>C4 Sealing Head 45° Elbow</p> <p>Light Series Metric Swivel Nut</p>  <table border="1"> <tr><td>51</td><td>10</td><td>AB</td><td>-</td></tr> <tr><td>54</td><td>19</td><td>EX</td><td>-</td></tr> <tr><td>55</td><td>24</td><td>HP</td><td>-</td></tr> <tr><td>56</td><td>41</td><td>LX</td><td>-</td></tr> <tr><td>58</td><td>-</td><td>NX</td><td>-</td></tr> <tr><td>5X</td><td>68</td><td>PX</td><td>-</td></tr> <tr><td>8X</td><td>-</td><td>RX</td><td>-</td></tr> <tr><td>91N</td><td>-</td><td>YX</td><td>-</td></tr> <tr><td>93N</td><td>-</td><td>-</td><td>-</td></tr> </table>	51	10	AB	-	54	19	EX	-	55	24	HP	-	56	41	LX	-	58	-	NX	-	5X	68	PX	-	8X	-	RX	-	91N	-	YX	-	93N	-	-	-	<p>C5 Sealing Head 90° Elbow</p> <p>Light Series Metric Swivel Nut</p>  <table border="1"> <tr><td>51</td><td>11</td><td>AB</td><td>-</td></tr> <tr><td>54</td><td>20</td><td>EX</td><td>-</td></tr> <tr><td>55</td><td>25</td><td>HP</td><td>-</td></tr> <tr><td>56</td><td>42</td><td>LX</td><td>-</td></tr> <tr><td>58</td><td>-</td><td>NX</td><td>-</td></tr> <tr><td>5X</td><td>68</td><td>PX</td><td>-</td></tr> <tr><td>8X</td><td>-</td><td>RX</td><td>-</td></tr> <tr><td>91N</td><td>-</td><td>YX</td><td>-</td></tr> <tr><td>93N</td><td>-</td><td>-</td><td>-</td></tr> </table>	51	11	AB	-	54	20	EX	-	55	25	HP	-	56	42	LX	-	58	-	NX	-	5X	68	PX	-	8X	-	RX	-	91N	-	YX	-	93N	-	-	-
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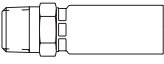
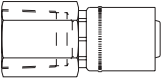
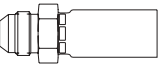
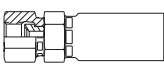
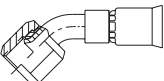

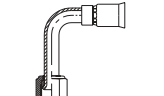
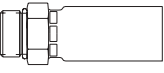
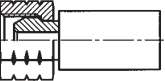
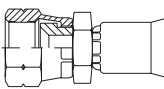
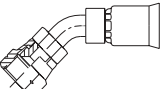
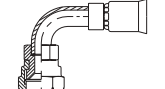
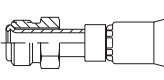
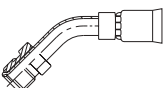
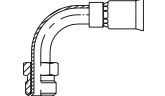
BSP Fittings

<p>92 Sealing Head (60°) BSP Swivel Nut</p>  <table border="1"> <tr><td>51</td><td>14</td><td>AB</td><td>-</td></tr> <tr><td>54</td><td>22</td><td>EX</td><td>105</td></tr> <tr><td>55</td><td>31</td><td>HP</td><td>-</td></tr> <tr><td>56</td><td>48</td><td>LX</td><td>111</td></tr> <tr><td>58</td><td>61</td><td>NX</td><td>117</td></tr> <tr><td>5X</td><td>-</td><td>PX</td><td>132</td></tr> <tr><td>8X</td><td>70</td><td>RX</td><td>147</td></tr> <tr><td>91N</td><td>79</td><td>YX</td><td>157</td></tr> <tr><td>93N</td><td>-</td><td>-</td><td>-</td></tr> </table>	51	14	AB	-	54	22	EX	105	55	31	HP	-	56	48	LX	111	58	61	NX	117	5X	-	PX	132	8X	70	RX	147	91N	79	YX	157	93N	-	-	-	<p>B1 Sealing Head (60°) BSP Swivel Nut</p> <p>45° Elbow</p>  <table border="1"> <tr><td>51</td><td>14</td><td>AB</td><td>-</td></tr> <tr><td>54</td><td>23</td><td>EX</td><td>-</td></tr> <tr><td>55</td><td>31</td><td>HP</td><td>-</td></tr> <tr><td>56</td><td>48</td><td>LX</td><td>-</td></tr> <tr><td>58</td><td>62</td><td>NX</td><td>-</td></tr> <tr><td>5X</td><td>-</td><td>PX</td><td>133</td></tr> <tr><td>8X</td><td>-</td><td>RX</td><td>148</td></tr> <tr><td>91N</td><td>-</td><td>YX</td><td>157</td></tr> <tr><td>93N</td><td>-</td><td>-</td><td>-</td></tr> </table>	51	14	AB	-	54	23	EX	-	55	31	HP	-	56	48	LX	-	58	62	NX	-	5X	-	PX	133	8X	-	RX	148	91N	-	YX	157	93N	-	-	-	<p>B2 Sealing Head (60°) BSP Swivel Nut</p> <p>90° Elbow</p>  <table border="1"> <tr><td>51</td><td>15</td><td>AB</td><td>-</td></tr> <tr><td>54</td><td>23</td><td>EX</td><td>-</td></tr> <tr><td>55</td><td>32</td><td>HP</td><td>-</td></tr> <tr><td>56</td><td>49</td><td>LX</td><td>-</td></tr> <tr><td>58</td><td>62</td><td>NX</td><td>-</td></tr> <tr><td>5X</td><td>-</td><td>PX</td><td>133</td></tr> <tr><td>8X</td><td>-</td><td>RX</td><td>148</td></tr> <tr><td>91N</td><td>-</td><td>YX</td><td>158</td></tr> <tr><td>93N</td><td>-</td><td>-</td><td>-</td></tr> </table>	51	15	AB	-	54	23	EX	-	55	32	HP	-	56	49	LX	-	58	62	NX	-	5X	-	PX	133	8X	-	RX	148	91N	-	YX	158	93N	-	-	-
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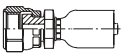
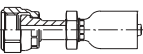
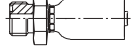
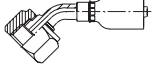
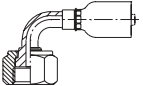
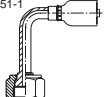
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Hose Fittings
Fittings Overview

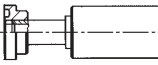
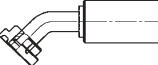

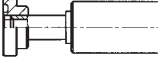
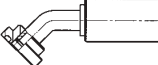
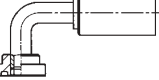
SAE and JIC Fittings

<p>01 NPTF Male - 60° Cone</p>  <table border="1"> <tr><td>51</td><td>16</td><td>AB</td></tr> <tr><td>54</td><td>EX</td><td>106</td></tr> <tr><td>55</td><td>33</td><td>HP</td></tr> <tr><td>56</td><td>50</td><td>LX</td></tr> <tr><td>58</td><td>63</td><td>NX</td></tr> <tr><td>5X</td><td>73</td><td>PX</td></tr> <tr><td>8X</td><td>72</td><td>RX</td></tr> <tr><td>91N</td><td>81</td><td>YX</td></tr> <tr><td>93N</td><td>94</td><td></td></tr> </table>	51	16	AB	54	EX	106	55	33	HP	56	50	LX	58	63	NX	5X	73	PX	8X	72	RX	91N	81	YX	93N	94		<p>02 NPTF Female - rigid</p>  <table border="1"> <tr><td>51</td><td>AB</td><td></td></tr> <tr><td>54</td><td>EX</td><td></td></tr> <tr><td>55</td><td>HP</td><td></td></tr> <tr><td>56</td><td>LX</td><td></td></tr> <tr><td>58</td><td>NX</td><td></td></tr> <tr><td>5X</td><td>PX</td><td></td></tr> <tr><td>8X</td><td>RX</td><td></td></tr> <tr><td>91N</td><td>YX</td><td></td></tr> <tr><td>93N</td><td>95</td><td></td></tr> </table>	51	AB		54	EX		55	HP		56	LX		58	NX		5X	PX		8X	RX		91N	YX		93N	95		<p>03 JIC Male - 37° Cone</p>  <table border="1"> <tr><td>51</td><td>16</td><td>AB</td></tr> <tr><td>54</td><td>EX</td><td></td></tr> <tr><td>55</td><td>34</td><td>HP</td></tr> <tr><td>56</td><td>51</td><td>LX</td></tr> <tr><td>58</td><td></td><td>NX 120</td></tr> <tr><td>5X</td><td></td><td>PX 139</td></tr> <tr><td>8X</td><td></td><td>RX</td></tr> <tr><td>91N</td><td>82</td><td>YX 161</td></tr> <tr><td>93N</td><td></td><td></td></tr> </table>	51	16	AB	54	EX		55	34	HP	56	51	LX	58		NX 120	5X		PX 139	8X		RX	91N	82	YX 161	93N		
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<p>06 JIC - 37° Cone</p> <p>UNF Swivel Nut</p>  <table border="1"> <tr><td>51</td><td>17</td><td>AB</td></tr> <tr><td>54</td><td>EX</td><td>106</td></tr> <tr><td>55</td><td>35</td><td>HP</td></tr> <tr><td>56</td><td>52</td><td>LX</td></tr> <tr><td>58</td><td>64</td><td>NX</td></tr> <tr><td>5X</td><td>73</td><td>PX</td></tr> <tr><td>8X</td><td>73</td><td>RX</td></tr> <tr><td>91N</td><td>82</td><td>YX</td></tr> <tr><td>93N</td><td>96</td><td></td></tr> </table>	51	17	AB	54	EX	106	55	35	HP	56	52	LX	58	64	NX	5X	73	PX	8X	73	RX	91N	82	YX	93N	96		<p>37 JIC - 37° Cone</p> <p>45° Elbow UNF Swivel Nut</p>  <table border="1"> <tr><td>51</td><td>AB</td><td></td></tr> <tr><td>54</td><td>EX</td><td></td></tr> <tr><td>55</td><td>36</td><td>HP</td></tr> <tr><td>56</td><td>52</td><td>LX</td></tr> <tr><td>58</td><td></td><td>NX</td></tr> <tr><td>5X</td><td></td><td>PX 141</td></tr> <tr><td>8X</td><td></td><td>RX</td></tr> <tr><td>91N</td><td>85</td><td>YX 164</td></tr> <tr><td>93N</td><td></td><td></td></tr> </table>	51	AB		54	EX		55	36	HP	56	52	LX	58		NX	5X		PX 141	8X		RX	91N	85	YX 164	93N			<p>39 JIC - 37° Cone</p> <p>90° Elbow UNF Swivel Nut</p>  <table border="1"> <tr><td>51</td><td>17</td><td>AB</td></tr> <tr><td>54</td><td>EX</td><td></td></tr> <tr><td>55</td><td>36</td><td>HP</td></tr> <tr><td>56</td><td>53</td><td>LX</td></tr> <tr><td>58</td><td>65</td><td>NX</td></tr> <tr><td>5X</td><td></td><td>PX 142</td></tr> <tr><td>8X</td><td></td><td>RX</td></tr> <tr><td>91N</td><td>85</td><td>YX 164</td></tr> <tr><td>93N</td><td></td><td></td></tr> </table>	51	17	AB	54	EX		55	36	HP	56	53	LX	58	65	NX	5X		PX 142	8X		RX	91N	85	YX 164	93N		
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<p>41 JIC - 37° Cone 90° Elbow</p> <p>(Long Drop Length) UNF Swivel Nut</p>  <table border="1"> <tr><td>51</td><td>AB</td><td></td></tr> <tr><td>54</td><td>EX</td><td></td></tr> <tr><td>55</td><td>HP</td><td></td></tr> <tr><td>56</td><td>LX</td><td></td></tr> <tr><td>58</td><td>NX</td><td></td></tr> <tr><td>5X</td><td>PX</td><td></td></tr> <tr><td>8X</td><td>RX</td><td></td></tr> <tr><td>91N</td><td>86</td><td>YX</td></tr> <tr><td>93N</td><td></td><td></td></tr> </table>	51	AB		54	EX		55	HP		56	LX		58	NX		5X	PX		8X	RX		91N	86	YX	93N			<p>05 UNF Male / O-Ring</p>  <table border="1"> <tr><td>51</td><td>AB</td><td></td></tr> <tr><td>54</td><td>EX</td><td></td></tr> <tr><td>55</td><td>34</td><td>HP</td></tr> <tr><td>56</td><td>51</td><td>LX</td></tr> <tr><td>58</td><td></td><td>NX</td></tr> <tr><td>5X</td><td></td><td>PX</td></tr> <tr><td>8X</td><td>73</td><td>RX</td></tr> <tr><td>91N</td><td></td><td>YX</td></tr> <tr><td>93N</td><td></td><td></td></tr> </table>	51	AB		54	EX		55	34	HP	56	51	LX	58		NX	5X		PX	8X	73	RX	91N		YX	93N			<p>07 60° Sealing Cone NPSM Swivel Nut</p>  <table border="1"> <tr><td>51</td><td>AB</td><td></td></tr> <tr><td>54</td><td>EX</td><td></td></tr> <tr><td>55</td><td>HP</td><td></td></tr> <tr><td>56</td><td>LX</td><td></td></tr> <tr><td>58</td><td></td><td>NX 121</td></tr> <tr><td>5X</td><td></td><td>PX 140</td></tr> <tr><td>8X</td><td>74</td><td>RX 151</td></tr> <tr><td>91N</td><td>84</td><td>YX 163</td></tr> <tr><td>93N</td><td></td><td></td></tr> </table>	51	AB		54	EX		55	HP		56	LX		58		NX 121	5X		PX 140	8X	74	RX 151	91N	84	YX 163	93N		
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ORFS Fittings

<p>JC O-Lok® ORFS</p> <p>(Short Version) UNF Swivel Nut ISO 12151-1</p>  <table border="1"> <tr><td>51</td><td>-</td><td>AB</td><td>-</td></tr> <tr><td>54</td><td>-</td><td>EX</td><td>107</td></tr> <tr><td>55</td><td>37</td><td>HP</td><td>-</td></tr> <tr><td>56</td><td>53</td><td>LX</td><td>-</td></tr> <tr><td>58</td><td>65</td><td>NX</td><td>-</td></tr> <tr><td>5X</td><td>-</td><td>PX</td><td>142</td></tr> <tr><td>8X</td><td>-</td><td>RX</td><td>-</td></tr> <tr><td>91N</td><td>90</td><td>YX</td><td>-</td></tr> <tr><td>93N</td><td>97</td><td>-</td><td>-</td></tr> </table>	51	-	AB	-	54	-	EX	107	55	37	HP	-	56	53	LX	-	58	65	NX	-	5X	-	PX	142	8X	-	RX	-	91N	90	YX	-	93N	97	-	-	<p>JS O-Lok® ORFS</p> <p>UNF Swivel Nut ISO 12151-1</p>  <table border="1"> <tr><td>51</td><td>-</td><td>AB</td><td>-</td></tr> <tr><td>54</td><td>-</td><td>EX</td><td>-</td></tr> <tr><td>55</td><td>37</td><td>HP</td><td>-</td></tr> <tr><td>56</td><td>54</td><td>LX</td><td>-</td></tr> <tr><td>58</td><td>66</td><td>NX</td><td>-</td></tr> <tr><td>5X</td><td>-</td><td>PX</td><td>143</td></tr> <tr><td>8X</td><td>-</td><td>RX</td><td>-</td></tr> <tr><td>91N</td><td>-</td><td>YX</td><td>-</td></tr> <tr><td>93N</td><td>-</td><td>-</td><td>-</td></tr> </table>	51	-	AB	-	54	-	EX	-	55	37	HP	-	56	54	LX	-	58	66	NX	-	5X	-	PX	143	8X	-	RX	-	91N	-	YX	-	93N	-	-	-	<p>JM O-Lok® ORFS Male</p> <p>ISO 12151-1</p>  <table border="1"> <tr><td>51</td><td>-</td><td>AB</td><td>-</td></tr> <tr><td>54</td><td>-</td><td>EX</td><td>-</td></tr> <tr><td>55</td><td>38</td><td>HP</td><td>-</td></tr> <tr><td>56</td><td>54</td><td>LX</td><td>-</td></tr> <tr><td>58</td><td>-</td><td>NX</td><td>-</td></tr> <tr><td>5X</td><td>-</td><td>PX</td><td>143</td></tr> <tr><td>8X</td><td>-</td><td>RX</td><td>-</td></tr> <tr><td>91N</td><td>-</td><td>YX</td><td>-</td></tr> <tr><td>93N</td><td>-</td><td>-</td><td>-</td></tr> </table>	51	-	AB	-	54	-	EX	-	55	38	HP	-	56	54	LX	-	58	-	NX	-	5X	-	PX	143	8X	-	RX	-	91N	-	YX	-	93N	-	-	-
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Flanges

<p>15 SAE Flange Head</p> <p>Standard Series ISO 12151-3</p>  <table border="1"> <tr><td>51</td><td>-</td><td>AB</td><td>-</td></tr> <tr><td>54</td><td>-</td><td>EX</td><td>-</td></tr> <tr><td>55</td><td>-</td><td>HP</td><td>-</td></tr> <tr><td>56</td><td>-</td><td>LX</td><td>-</td></tr> <tr><td>58</td><td>-</td><td>NX</td><td>122</td></tr> <tr><td>5X</td><td>-</td><td>PX</td><td>-</td></tr> <tr><td>8X</td><td>-</td><td>RX</td><td>-</td></tr> <tr><td>91N</td><td>-</td><td>YX</td><td>-</td></tr> <tr><td>93N</td><td>-</td><td>-</td><td>-</td></tr> </table>	51	-	AB	-	54	-	EX	-	55	-	HP	-	56	-	LX	-	58	-	NX	122	5X	-	PX	-	8X	-	RX	-	91N	-	YX	-	93N	-	-	-	<p>17 SAE Flange Head 45° Elbow</p> <p>Standard Series ISO 12151-3</p>  <table border="1"> <tr><td>51</td><td>-</td><td>AB</td><td>-</td></tr> <tr><td>54</td><td>-</td><td>EX</td><td>-</td></tr> <tr><td>55</td><td>-</td><td>HP</td><td>-</td></tr> <tr><td>56</td><td>-</td><td>LX</td><td>-</td></tr> <tr><td>58</td><td>-</td><td>NX</td><td>122</td></tr> <tr><td>5X</td><td>-</td><td>PX</td><td>-</td></tr> <tr><td>8X</td><td>-</td><td>RX</td><td>-</td></tr> <tr><td>91N</td><td>-</td><td>YX</td><td>-</td></tr> <tr><td>93N</td><td>-</td><td>-</td><td>-</td></tr> </table>	51	-	AB	-	54	-	EX	-	55	-	HP	-	56	-	LX	-	58	-	NX	122	5X	-	PX	-	8X	-	RX	-	91N	-	YX	-	93N	-	-	-	<p>19 SAE Flange Head 90° Elbow</p> <p>Standard Series ISO 12151-3</p>  <table border="1"> <tr><td>51</td><td>-</td><td>AB</td><td>-</td></tr> <tr><td>54</td><td>-</td><td>EX</td><td>-</td></tr> <tr><td>55</td><td>-</td><td>HP</td><td>-</td></tr> <tr><td>56</td><td>-</td><td>LX</td><td>-</td></tr> <tr><td>58</td><td>-</td><td>NX</td><td>123</td></tr> <tr><td>5X</td><td>-</td><td>PX</td><td>-</td></tr> <tr><td>8X</td><td>-</td><td>RX</td><td>-</td></tr> <tr><td>91N</td><td>-</td><td>YX</td><td>-</td></tr> <tr><td>93N</td><td>-</td><td>-</td><td>-</td></tr> </table>	51	-	AB	-	54	-	EX	-	55	-	HP	-	56	-	LX	-	58	-	NX	123	5X	-	PX	-	8X	-	RX	-	91N	-	YX	-	93N	-	-	-
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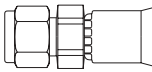
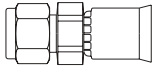
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Hose Fittings Fittings Overview

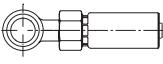
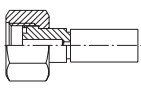
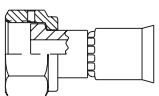
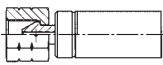
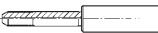
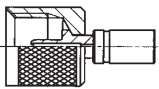
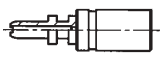
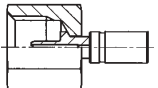
French Gas Series

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FG Metric Male 24° Cone French Gas Series  <table border="1"> <tr><td>51</td><td>-</td><td>AB</td><td>-</td></tr> <tr><td>54</td><td>-</td><td>EX</td><td>-</td></tr> <tr><td>55</td><td>-</td><td>HP</td><td>-</td></tr> <tr><td>56</td><td>-</td><td>LX</td><td>-</td></tr> <tr><td>58</td><td>-</td><td>NX</td><td>126</td></tr> <tr><td>5X</td><td>-</td><td>PX</td><td>-</td></tr> <tr><td>8X</td><td>-</td><td>RX</td><td>153</td></tr> <tr><td>91N</td><td>-</td><td>YX</td><td>-</td></tr> <tr><td>93N</td><td>-</td><td>-</td><td>-</td></tr> </table>		51	-	AB	-	54	-	EX	-	55	-	HP	-	56	-	LX	-	58	-	NX	126	5X	-	PX	-	8X	-	RX	153	91N	-	YX	-	93N	-	-	-																																																																												
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A-Lok and CPI Fittings

AL A-Lok® - Connector with Nut and Ferrule		P6 CPI® - Connector with Nut and Ferrule																																																																									
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<p>49 Banjo Union</p> <p>DIN 7642</p>  <table border="1"> <tr><td>51</td><td>-</td><td>AB</td><td>-</td></tr> <tr><td>54</td><td>-</td><td>EX</td><td>107</td></tr> <tr><td>55</td><td>40</td><td>HP</td><td>-</td></tr> <tr><td>56</td><td>56</td><td>LX</td><td>-</td></tr> <tr><td>58</td><td>-</td><td>NX</td><td>-</td></tr> <tr><td>5X</td><td>-</td><td>PX</td><td>-</td></tr> <tr><td>8X</td><td>-</td><td>RX</td><td>-</td></tr> <tr><td>91N</td><td>-</td><td>YX</td><td>-</td></tr> <tr><td>93N</td><td>-</td><td>-</td><td>-</td></tr> </table>	51	-	AB	-	54	-	EX	107	55	40	HP	-	56	56	LX	-	58	-	NX	-	5X	-	PX	-	8X	-	RX	-	91N	-	YX	-	93N	-	-	-	<p>GA Female Gas Joint</p>  <table border="1"> <tr><td>51</td><td>-</td><td>AB</td><td>-</td></tr> <tr><td>54</td><td>-</td><td>EX</td><td>-</td></tr> <tr><td>55</td><td>-</td><td>HP</td><td>-</td></tr> <tr><td>56</td><td>-</td><td>LX</td><td>-</td></tr> <tr><td>58</td><td>-</td><td>NX</td><td>-</td></tr> <tr><td>5X</td><td>-</td><td>PX</td><td>145</td></tr> <tr><td>8X</td><td>-</td><td>RX</td><td>-</td></tr> <tr><td>91N</td><td>-</td><td>YX</td><td>-</td></tr> <tr><td>93N</td><td>-</td><td>-</td><td>-</td></tr> </table>	51	-	AB	-	54	-	EX	-	55	-	HP	-	56	-	LX	-	58	-	NX	-	5X	-	PX	145	8X	-	RX	-	91N	-	YX	-	93N	-	-	-	<p>Q1 "Ultra Seal" - Connector</p> <p>UNF Swivel Nut</p>  <table border="1"> <tr><td>51</td><td>-</td><td>AB</td><td>-</td></tr> <tr><td>54</td><td>-</td><td>EX</td><td>-</td></tr> <tr><td>55</td><td>-</td><td>HP</td><td>-</td></tr> <tr><td>56</td><td>-</td><td>LX</td><td>-</td></tr> <tr><td>58</td><td>-</td><td>NX</td><td>-</td></tr> <tr><td>5X</td><td>-</td><td>PX</td><td>-</td></tr> <tr><td>8X</td><td>-</td><td>RX</td><td>-</td></tr> <tr><td>91N</td><td>93</td><td>YX</td><td>-</td></tr> <tr><td>93N</td><td>-</td><td>-</td><td>-</td></tr> </table>	51	-	AB	-	54	-	EX	-	55	-	HP	-	56	-	LX	-	58	-	NX	-	5X	-	PX	-	8X	-	RX	-	91N	93	YX	-	93N	-	-	-
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<p>AY 59° Sealing Cone UNF Swivel Nut</p>  <table border="1"> <tr><td>51</td><td>-</td><td>AB</td><td>-</td></tr> <tr><td>54</td><td>-</td><td>EX</td><td>-</td></tr> <tr><td>55</td><td>-</td><td>HP</td><td>-</td></tr> <tr><td>56</td><td>-</td><td>LX</td><td>113</td></tr> <tr><td>58</td><td>-</td><td>NX</td><td>-</td></tr> <tr><td>5X</td><td>69</td><td>PX</td><td>-</td></tr> <tr><td>8X</td><td>-</td><td>RX</td><td>-</td></tr> <tr><td>91N</td><td>-</td><td>YX</td><td>-</td></tr> <tr><td>93N</td><td>-</td><td>-</td><td>-</td></tr> </table>	51	-	AB	-	54	-	EX	-	55	-	HP	-	56	-	LX	113	58	-	NX	-	5X	69	PX	-	8X	-	RX	-	91N	-	YX	-	93N	-	-	-	<p>YA High Pressure Connector 59° Cone</p> <p>UNF - Left Hand Thread</p>  <table border="1"> <tr><td>51</td><td>-</td><td>AB</td><td>-</td></tr> <tr><td>54</td><td>-</td><td>EX</td><td>-</td></tr> <tr><td>55</td><td>-</td><td>HP</td><td>-</td></tr> <tr><td>56</td><td>-</td><td>LX</td><td>113</td></tr> <tr><td>58</td><td>-</td><td>NX</td><td>-</td></tr> <tr><td>5X</td><td>69</td><td>PX</td><td>-</td></tr> <tr><td>8X</td><td>-</td><td>RX</td><td>-</td></tr> <tr><td>91N</td><td>-</td><td>YX</td><td>-</td></tr> <tr><td>93N</td><td>-</td><td>-</td><td>-</td></tr> </table>	51	-	AB	-	54	-	EX	-	55	-	HP	-	56	-	LX	113	58	-	NX	-	5X	69	PX	-	8X	-	RX	-	91N	-	YX	-	93N	-	-	-	<p>R8 Quick Connect Fitting Metric Swivel Nut</p> <p>Knurled</p>  <table border="1"> <tr><td>51</td><td>-</td><td>AB</td><td>-</td></tr> <tr><td>54</td><td>-</td><td>EX</td><td>107</td></tr> <tr><td>55</td><td>-</td><td>HP</td><td>-</td></tr> <tr><td>56</td><td>-</td><td>LX</td><td>-</td></tr> <tr><td>58</td><td>-</td><td>NX</td><td>-</td></tr> <tr><td>5X</td><td>-</td><td>PX</td><td>-</td></tr> <tr><td>8X</td><td>-</td><td>RX</td><td>-</td></tr> <tr><td>91N</td><td>-</td><td>YX</td><td>-</td></tr> <tr><td>93N</td><td>-</td><td>-</td><td>-</td></tr> </table>	51	-	AB	-	54	-	EX	107	55	-	HP	-	56	-	LX	-	58	-	NX	-	5X	-	PX	-	8X	-	RX	-	91N	-	YX	-	93N	-	-	-
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Hose Fittings
Fittings Reference Table

Fittings Reference Table

Code	Fittings Series																
	51	54	55	56	58	5X	8X	91N	93N	AB	EX	HP	LX	NX	PX	RX	YX
01	16	-	33	50	63	-	72	81	94	-	106	109	-	119	138	150	161
02	-	-	-	-	-	-	-	-	95	-	-	-	-	-	-	-	-
03	16	-	34	51	-	-	-	82	-	-	-	-	-	120	139	-	161
05	-	-	34	51	-	-	73	-	-	-	-	-	-	-	-	-	-
06	17	-	35	52	64	-	73	82/83	96	-	106	109	-	120	139	151	162
07	-	-	-	-	-	-	74	84	-	-	-	-	-	121	140	151	163
08	18	-	-	-	-	-	-	86	-	-	-	-	-	-	-	-	-
0C	-	-	29	46	60	-	-	-	-	-	-	-	-	116	131	146	-
15	-	-	-	-	-	-	-	-	-	-	-	-	-	122	-	-	-
17	-	-	-	-	-	-	-	-	-	-	-	-	-	122	-	-	-
19	-	-	-	-	-	-	-	-	-	-	-	-	-	123	-	-	-
1C	-	-	29	46	60	-	-	-	-	-	-	-	-	116	131	147	-
1D	12	22	27	44	-	-	-	77	-	100	103	-	-	-	130	-	-
28	-	-	-	-	-	-	-	88	-	-	-	-	-	-	-	-	-
37	-	-	36	52	-	-	-	85	-	-	-	-	-	-	141	-	164
39	17	-	36	53	65	-	-	85	-	-	-	-	-	-	142	-	164
3B	-	-	-	-	-	-	72	-	-	-	-	-	-	119	137	150	160
3D	13	-	30	47	-	-	-	78	-	101	104	-	-	-	-	-	-
41	-	-	-	-	-	-	-	86	-	-	-	-	-	-	-	-	-
49	-	-	40	56	-	-	-	-	-	-	107	-	-	-	-	-	-
6A	-	-	-	-	-	-	-	-	-	-	-	-	-	123	-	-	-
6F	-	-	-	-	-	-	-	-	-	-	-	-	-	124	-	-	-
6N	-	-	-	-	-	-	-	-	-	-	-	-	-	124	-	-	-
67	-	-	-	-	-	-	-	88	-	-	-	-	-	-	-	-	-
69	-	-	-	-	-	-	-	89	-	-	-	-	-	-	-	-	-
77	-	-	-	-	-	-	-	87	-	-	-	-	-	-	-	-	-
79	-	-	-	-	-	-	-	87	-	-	-	-	-	-	-	-	-
91	-	-	-	-	-	-	-	-	-	-	-	-	-	-	138	-	-
92	14	22	31	48	61	-	70	79	-	-	105	-	111	117	132	147	157
AL	-	-	-	-	-	-	-	92	-	-	-	-	-	-	-	-	-
AY	-	-	-	-	-	69	-	-	-	-	-	-	113	-	-	-	-
B1	14	23	31	48	62	-	-	-	-	-	-	-	-	-	133	148	157
B2	15	23	32	49	62	-	-	-	-	-	-	-	-	-	133	148	158

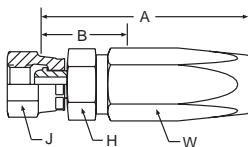
Hose Fittings
Fittings Reference Table

Code	Fittings Series																
	51	54	55	56	58	5X	8X	91N	93N	AB	EX	HP	LX	NX	PX	RX	YX
B4	-	-	32	49	-	-	-	-	-	-	-	-	-	-	134	149	158
BP	-	-	-	-	-	-	-	-	-	-	105	-	-	-	-	-	-
C3	10	19	24	41	-	68	-	75	-	100	-	-	110	114	127	-	154
C4	10	19	24	41	-	-	-	-	-	-	-	-	-	-	-	-	-
C5	11	20	25	42	-	-	-	-	-	-	-	-	-	-	-	-	-
C6	12	-	28	45	59	-	-	-	-	-	-	-	110	115	-	-	-
C9	-	-	28	45	59	68	70	-	-	-	104	-	111	115	130	146	156
CA	-	20	25	42	57	-	-	-	-	-	103	-	-	-	128	-	155
CE	-	21	26	43	57	-	-	-	-	-	-	-	-	-	128	-	-
CF	-	21	26	43	58	-	-	-	-	-	-	-	-	-	129	-	-
D0	11	-	27	44	58	-	-	76	-	100	-	-	-	-	129	-	155
D2	13	-	30	47	61	-	-	-	-	101	-	-	-	117	132	-	156
D9	15	-	33	50	63	-	71	80	-	-	105	-	112	-	136	149	160
F1	-	-	-	-	-	-	-	-	-	-	-	-	-	125	-	152	-
F2	-	-	-	-	-	-	-	-	-	-	-	-	-	126	-	153	-
F4	-	-	-	-	-	-	-	-	-	-	-	-	-	125	-	152	-
FG	-	-	-	-	-	-	-	-	-	-	-	-	-	126	-	153	-
GA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	145	-	-
J1	-	-	39	56	-	-	-	92	-	-	-	-	-	-	-	-	-
J7	-	-	38	55	66	-	-	91	98	-	-	-	-	-	144	-	-
J9	-	-	39	55	67	-	-	91	99	-	-	-	-	-	144	-	-
JC	-	-	37	53	65	-	-	90	97	-	107	-	-	-	142	-	-
JM	-	-	38	54	-	-	-	-	-	-	-	-	-	-	143	-	-
JS	-	-	37	54	66	-	-	-	-	-	-	-	-	-	143	-	-
P6	-	-	-	-	-	-	-	93	-	-	-	-	-	-	-	-	-
Q1	-	-	-	-	-	-	-	93	-	-	-	-	-	-	-	-	-
R8	-	-	-	-	-	-	-	-	-	-	107	-	-	-	-	-	-
U0	-	-	-	49	-	-	71	-	-	101	-	-	-	118	135	-	159
Y9	-	-	-	-	-	-	-	-	-	-	-	-	112	-	-	-	-
YA	-	-	-	-	-	69	-	-	-	-	-	-	113	-	-	-	-
YP	-	-	-	-	-	-	-	-	-	-	108	-	-	-	-	-	-
YR	-	-	-	-	-	-	-	-	-	-	108	-	-	-	-	-	-

K

Hose Fittings
51 Series

2C351 – Sealing Head Light Series – Metric Swivel Nut

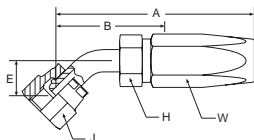


51 Series

Part No. #	DN size		mm		inch		Connection Type		A mm	B mm	H mm	J mm	W mm
	mm	inch	mm	inch	Thread Size	Thread Size							
2C351-6-3	5	-03	4.8	3/16	M12 x 1.5		43	24	–	14	17		
2C351-8-4	6	-04	6.4	1/4	M14 x 1.5		47	25	–	19	17		
2C351-10-5	8	-05	7.9	5/16	M16 x 1.5		48	22	–	19	22		
2C351-10-6	10	-06	9.5	3/8	M16 x 1.5		63	35	17	19	22		
2C351-12-6	10	-06	9.5	3/8	M18 x 1.5		63	34	19	22	22		
2C351-15-8	12	-08	12.7	1/2	M22 x 1.5		74	41	22	27	27		
2C351-18-12	20	-12	19.0	3/4	M26 x 1.5		78	37	27	32	36		
2C351-22-12	20	-12	19.0	3/4	M30 x 2		82	41	30	36	36		
2C351-28-16	25	-16	25.4	1	M36 x 2		98	52	36	46	43		

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

2C451 – Sealing Head 45° Elbow Light Series – Metric Swivel Nut



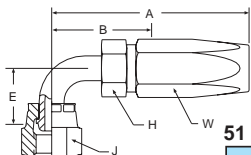
51 Series

Part No. #	DN size		mm		inch		Connection Type		A mm	B mm	E mm	H mm	J mm	W mm
	mm	inch	mm	inch	Thread Size	Thread Size								
2C451-6-3	5	-03	4.8	3/16	M12 x 1.5		60	32	13	14	17	17		
2C451-8-4	6	-04	6.4	1/4	M14 x 1.5		59	40	13	14	19	17		
2C451-10-5	8	-05	7.9	5/16	M16 x 1.5		70	41	16	17	19	22		
2C451-10-6	10	-06	9.5	3/8	M16 x 1.5		83	56	18	17	19	22		
2C451-12-6	10	-06	9.5	3/8	M18 x 1.5		89	58	19	17	22	22		
2C451-15-8	12	-08	12.7	1/2	M22 x 1.5		100	64	21	19	27	27		
2C451-18-12	20	-12	19.0	3/4	M26 x 1.5		116	75	26	27	36	36		
2C451-22-12	20	-12	19.0	3/4	M30 x 2		119	79	29	27	36	36		
2C451-28-16	25	-16	25.4	1	M36 x 2		127	82	31	32	46	43		

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

2C551 – Sealing Head 90° Elbow

Light Series – Metric Swivel Nut


51 Series

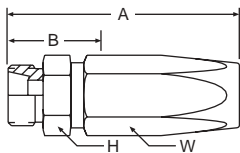
Part No. #	DN size mm inch				Connection Type	A mm	B mm	E mm	H mm	J mm	W mm
	mm	inch	mm	inch	Thread Size						
2C551-6-3	5	-03	4.8	3/16	M12 x 1.5	55	33	36	14	17	16
2C551-8-4	6	-04	6.4	1/4	M14 x 1.5	53	34	25	14	17	17
2C551-10-5	8	-05	7.9	5/16	M16 x 1.5	66	40	32	17	19	19
2C551-10-6	10	-06	9.5	3/8	M16 x 1.5	75	47	35	17	19	22
2C551-12-6	10	-06	9.5	3/8	M18 x 1.5	80	49	36	17	22	22
2C551-15-8	12	-08	12.7	1/2	M22 x 1.5	89	53	42	22	27	27
2C551-18-12	20	-12	19.0	3/4	M26 x 1.5	70	70	59	27	36	35
2C551-22-12	20	-12	19.0	3/4	M30 x 2	73	73	64	30	36	35
2C551-28-16	25	-16	25.4	1	M36 x 2	75	75	67	32	46	43

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

2D051 – Metric Male 24° Cone

Light Series

ISO 12151-2

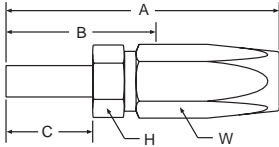

51 Series

Part No. #	DN size mm inch				Connection Type	A mm	B mm	H mm	W mm
	mm	inch	mm	inch	Thread Size				
2D051-6-3	5	-03	4.8	3/16	M12 x 1.5	43	24	14	16
2D051-8-4	6	-04	6.4	1/4	M14 x 1.5	46	25	17	17
2D051-10-5	8	-05	7.9	5/16	M16 x 1.5	52	26	17	19
2D051-10-6	10	-06	9.5	3/8	M16 x 1.5	59	30	17	22
2D051-12-6	10	-06	9.5	3/8	M18 x 1.5	59	30	19	22
2D051-15-8	12	-08	12.7	1/2	M22 x 1.5	66	34	22	27
2D051-18-12	20	-12	19.0	3/4	M26 x 1.5	72	32	27	35
2D051-22-12	20	-12	19.0	3/4	M30 x 1.5	75	35	30	35
2D051-28-16	25	-16	25.4	1	M36 x 2	84	38	36	43

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Hose Fittings
51 Series

21D51 – Metric Standpipe Light Series

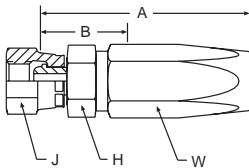


51 Series

Part No. #	DN size mm inch		A mm	B mm	C mm	H mm	W mm		
21D51-6-3	5	-03	4,8	3/16	55	35	22	14	16
21D51-6-6	10	-06	9,5	3/8	67	32	18	19	22
21D51-8-4	6	-04	6,4	1/4	58	36	22	14	17
21D51-10-5	8	-05	7,9	5/16	64	38	23	14	19
21D51-10-6	10	-06	9,5	3/8	71	42	23	17	22
21D51-12-6	10	-06	9,5	3/8	71	42	23	17	22
21D51-15-8	12	-08	12,7	1/2	80	48	25	19	27
21D51-18-12	20	-12	19,0	3/4	86	46	26	27	35
21D51-22-12	20	-12	19,0	3/4	88	48	28	27	35
21D51-28-16	25	-16	25,4	1	104	58	30	32	43

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

2C651 – Sealing Head Heavy Series Metric Swivel Nut

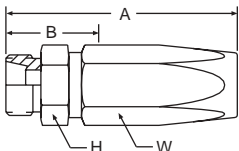


51 Series

Part No. #	DN size mm inch		Connection Type		A mm	B mm	H mm	J mm	W mm	
2C651-6-3	5	-03	4,8	3/16	M16 x 1,5	49	28	17	19	16
2C651-10-4	6	-04	6,4	1/4	M18 x 1,5	61	36	17	22	17
2C651-12-5	8	-05	7,9	5/16	M20 x 1,5	61	35	19	24	19
2C651-12-6	10	-06	9,5	3/8	M20 x 1,5	64	36	19	24	22
2C651-14-6	10	-06	9,5	3/8	M22 x 1,5	65	37	22	27	22
2C651-16-8	12	-08	12,7	1/2	M24 x 1,5	73	40	24	30	27
2C651-20-12	20	-12	19,0	3/4	M30 x 2	81	41	30	36	35
2C651-25-12	20	-12	19,0	3/4	M36 x 2	81	40	36	46	35
2C651-30-16	25	-16	25,4	1	M42 x 2	94	48	41	50	43

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

2D251 – Metric Male 24° Cone Heavy Series ISO 12151-2

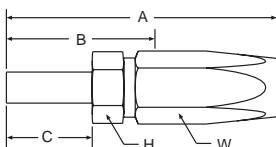


51 Series

Part No. #	DN size		mm		inch	Connection Type	A	B	H	W
	mm	inch	mm	inch		Thread Size	mm	mm	mm	mm
2D251-8-3	5	-03	4.8	3/16		M16 x 1.5	47	27	17	16
2D251-10-4	6	-04	6.4	1/4		M18 x 1.5	53	28	19	17
2D251-12-5	8	-05	7.9	5/16		M20 x 1.5	55	27	22	19
2D251-12-6	10	-06	9.5	3/8		M20 x 1.5	63	34	22	22
2D251-14-6	10	-06	9.5	3/8		M22 x 1.5	64	35	22	22
2D251-16-8	12	-08	12.7	1/2		M24 x 1.5	72	40	24	27
2D251-20-12	20	-12	19.0	3/4		M30 x 2	80	40	30	35
2D251-25-12	20	-12	19.0	3/4		M36 x 2	84	44	36	35
2D251-30-16	25	-16	25.4	1		M42 x 2	96	50	46	43

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

23D51 – Metric Standpipe Heavy Series



51 Series

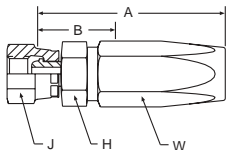
Part No. #	DN size		mm		inch	A	B	C	H	W
	mm	inch	mm	inch		mm	mm	mm	mm	mm
23D51-8-3	5	-03	4.8	3/16		56	36	24	14	16
23D51-10-4	6	-04	6.4	1/4		58	36	26	14	17
23D51-12-5	8	-05	7.9	5/16		65	39	26	14	19
23D51-12-6	10	-06	9.5	3/8		74	46	26	17	22
23D51-14-6	10	-06	9.5	3/8		77	48	29	17	22
23D51-16-8	12	-08	12.7	1/2		84	52	30	19	27
23D51-20-12	20	-12	19.0	3/4		99	58	36	27	35
23D51-25-12	20	-12	19.0	3/4		106	65	40	27	35
23D51-30-16	25	-16	25.4	1		118	72	44	32	43

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request



Hose Fittings
51 Series

29251 – Sealing Head (60°) BSP Swivel Nut

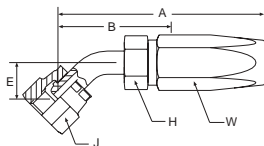


51 Series

Part No. #	DN size mm inch		Connection Type		A mm	B mm	H mm	J mm	W mm	
	mm	inch	Thread Size	Thread Size						
29251-4-3	5	-03	4.8	3/16	G 1/4	45	25	–	19	17
29251-4-4	6	-04	6.4	1/4	G 1/4	47	28	–	17	17
29251-6-5	8	-05	7.9	5/16	G 3/8	48	24	–	22	22
29251-6-6	10	-06	9.5	3/8	G 3/8	63	35	17	22	22
29251-8-8	12	-08	12.7	1/2	G 1/2	74	41	22	27	27
29251-10-8	12	-08	12.7	1/2	G 5/8	73	40	24	30	27
29251-12-12	20	-12	19.0	3/4	G 3/4	78	37	27	32	36

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

2B151 – Sealing Head (60°) 45° Elbow BSP Swivel Nut

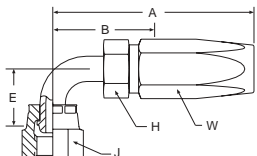


51 Series

Part No. #	DN size mm inch		Connection Type		A mm	B mm	E mm	H mm	J mm	W mm	
	mm	inch	Thread Size	Thread Size							
2B151-4-3	5	-03	4.8	3/16	G 1/4	58	38	14	14	17	16
2B151-4-4	6	-04	6.4	1/4	G 1/4	59	40	14	14	17	17
2B151-6-5	8	-05	7.9	5/16	G 3/8	70	44	14	14	19	19
2B151-6-6	10	-06	9.5	3/8	G 3/8	80	49	16	17	19	22
2B151-8-8	12	-08	12.7	1/2	G 1/2	95	59	18	22	27	27
2B151-12-12	20	-12	19.0	3/4	G 3/4	100	60	20	30	32	35
2B151-16-16	25	-16	25.4	1	G 1	122	76	26	32	41	43

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

2B251 – Sealing Head (60°) 90° Elbow BSP Swivel Nut

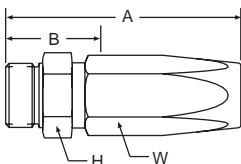


51 Series

Part No. #	DN size mm inch				Connection Type	A mm	B mm	E mm	H mm	J mm	W mm
	5	-03	4.8	3/16	Thread Size						
2B251-4-3	5	-03	4.8	3/16	G 1/4	58	33	14	14	17	16
2B251-4-4	6	-04	6.4	1/4	G 1/4	59	33	26	14	17	17
2B251-6-5	8	-05	7.9	5/16	G 3/8	66	40	34	14	19	19
2B251-6-6	10	-06	9.5	3/8	G 3/8	75	44	31	17	19	22
2B251-8-8	12	-08	12.7	1/2	G 1/2	89	53	38	22	27	27
2B251-12-12	20	-12	19.0	3/4	G 3/4	104	64	47	30	32	35
2B251-16-16	25	-16	25.4	1	G 1	120	74	62	32	41	43

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

2D951 – BSP Male DIN 3852 Shape A



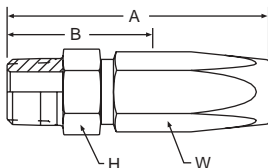
51 Series

Part No. #	DN size mm inch				Connection Type	A mm	B mm	H mm	W mm
	5	-03	4.8	3/16	Thread Size				
2D951-2-3	5	-03	4.8	3/16	G 1/8	44	24	14	16
2D951-4-3	5	-03	4.8	3/16	G 1/4	49	29	19	16
2D951-4-4	6	-04	6.4	1/4	G 1/4	54	29	19	17
2D951-6-5	8	-05	7.9	5/16	G 3/8	58	30	22	19
2D951-6-6	10	-06	9.5	3/8	G 3/8	62	34	22	22
2D951-8-8	12	-08	12.7	1/2	G 1/2	73	41	27	27
2D951-12-12	20	-12	19.0	3/4	G 3/4	81	41	32	35
2D951-16-16	25	-16	25.4	1	G 1	95	49	41	43

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Hose Fittings
51 Series

20151 – NPTF Male - 60° Cone

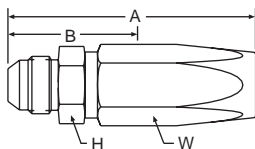


51 Series

Part No. #	DN size		mm		inch		Connection Type		A mm	B mm	H mm	W mm
	mm	inch	mm	inch	Thread Size	Thread Size						
20151-2-3	5	-03	4.8	3/16	1/8 - 27NPTF	43	25	11	17			
20151-4-3	5	-03	4.8	3/16	1/4 - 18NPTF	48	29	14	17			
20151-2-4	6	-04	6.4	1/4	1/8 - 27NPTF	48	25	13	17			
20151-4-4	6	-04	6.4	1/4	1/4 - 18NPTF	53	30	14	17			
20151-4-5	8	-05	7.9	5/16	1/4 - 18NPTF	55	37	17	22			
20151-6-5	8	-05	7.9	5/16	3/8 - 18NPTF	55	37	19	22			
20151-4-6	10	-06	9.5	3/8	1/4 - 18NPTF	66	37	14	22			
20151-6-6	10	-06	9.5	3/8	3/8 - 18NPTF	66	37	19	22			
20151-8-6	10	-06	9.5	3/8	1/2 - 14NPTF	71	40	22	22			
20151-6-8	12	-08	12.7	1/2	3/8 - 18NPTF	76	13	22	27			
20151-8-8	12	-08	12.7	1/2	1/2 - 14NPTF	81	43	22	27			
20151-12-12	20	-12	19.0	3/4	3/4 - 14NPTF	87	44	27	36			

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

20351 – JIC Male 37° Cone

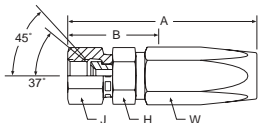


51 Series

Part No. #	DN size		mm		inch		Connection Type		A mm	B mm	H mm	W mm
	mm	inch	mm	inch	Thread Size	Tube OD						
20351-4-3	5	-03	4.8	3/16	7/16 - 20UNF	1/4	48	29	13	17		
20351-5-4	6	-04	6.4	1/4	1/2 - 20UNF	5/16	52	29	14	17		
20351-6-5	8	-05	7.9	5/16	9/16 - 18UNF	3/8	55	33	16	22		
20351-6-6	10	-06	9.5	3/8	9/16 - 18UNF	3/8	66	37	19	22		
20351-8-6	10	-06	9.5	3/8	3/4 - 16UNF	1/2	69	37	22	22		
20351-8-8	12	-08	12.7	1/2	3/4 - 16UNF	1/2	78	41	22	27		

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

20651 – JIC - 37° Cone UNF Swivel Nut

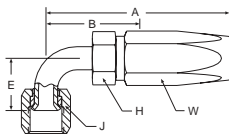


51 Series

Part No. #	DN size mm inch				Connection Type		A mm	B mm	H mm	W mm	J mm
	5	6	8	10	Thread Size	Tube OD					
20651-4-3	5	-03	4.8	3/16	7/16 - 20UNF	1/4	51	32	14	17	17
20651-4-4	6	-04	6.4	1/4	7/16 - 20UNF	1/4	55	32	14	17	17
20651-5-4	6	-04	6.4	1/4	1/2 - 20UNF	5/16	57	37	14	17	17
20651-6-4	6	-04	6.4	1/4	9/16 - 18UNF	3/8	59	37	14	17	19
20651-6-5	8	-05	7.9	5/16	9/16 - 18UNF	3/8	60	38	17	22	19
20651-6-6	10	-06	9.5	3/8	9/16 - 18UNF	3/8	70	37	19	22	19
20651-8-6	10	-06	9.5	3/8	3/4 - 16UNF	1/2	73	41	22	22	22
20651-8-8	12	-08	12.7	1/2	3/4 - 16UNF	1/2	83	44	22	27	22
20651-10-8	12	-08	12.7	1/2	7/8 - 14UNF	5/8	86	48	25	27	27
20651-12-12	20	-12	19.0	3/4	1 1/16 - 12UNF	3/4	95	54	27	36	32

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

23951 – JIC - 37° Cone 90° Elbow UNF Swivel Nut



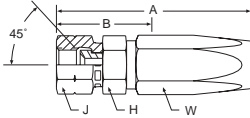
51 Series

Part No. #	DN size mm inch				Connection Type		A mm	B mm	E mm	H mm	J mm	W mm
	5	6	8	10	Thread Size	Tube OD						
23951-4-3	5	-03	4.8	3/16	7/16 - 20UNF	1/4	45	17	25	10	17	17
23951-6-6	10	-06	9.5	3/8	9/16 - 18UNF	3/8	69	22	37	14	19	22
23951-8-6	10	-06	9.5	3/8	3/4 - 16UNF	1/2	74	28	41	17	22	22







Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Hose Fittings
51 Series

20851 – SAE Male
45° Cone
UNF Swivel Nut



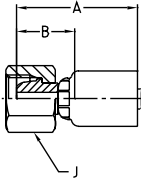
51 Series

Part No.	DN size mm inch		Connection Type								
			Thread Size	Tube OD	A mm	B mm	H mm	W mm	J mm		
#											
20851-6-6	10	-06	9.5	3/8	5/8 - 18UNF	3/8	72	40	19	22	19

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1C354 – Sealing Head

Light Series – Metric Swivel Nut

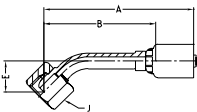

54 Series

Part No. #	DN size		mm		inch		Connection Type			
	mm	inch	mm	inch	Thread Size	Tube OD	A mm	B mm	J mm	
1C354-6-3	5	-03	4.8	3/16	M12x1.5	6	33	16	14	
1C354-8-4	6	-04	6.4	1/4	M14x1.5	8	36	17	17	
1C354-10-5	8	-05	7.9	5/16	M16x1.5	10	40	19	19	
1C354-12-6	10	-06	9.5	3/8	M18x1.5	12	43	20	22	

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1C454 – Sealing Head 45° Elbow

Light Series – Metric Swivel Nut

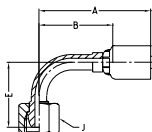

54 Series

Part No. #	DN size		mm		inch		Connection Type			
	mm	inch	mm	inch	Thread Size	Tube OD	A mm	B mm	E mm	J mm
1C454-6-3	5	-03	4.8	3/16	M12x1.5	6	70	53	16	14
1C454-8-4	6	-04	6.4	1/4	M14x1.5	8	73	54	16	17
1C454-12-6	10	-06	9.5	3/8	M18x1.5	12	81	58	18	22

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Hose Fittings
54 Series

1C554 – Sealing Head 90° Elbow Light Series – Metric Swivel Nut

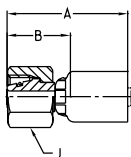


54 Series

Part No. #	DN size mm inch				Connection Type		A mm	B mm	E mm	J mm
	Thread Size	Tube OD								
1C554-6-3	5	-03	4.8	3/16	M12x1.5	6	51	34	32	14
1C554-8-4	6	-04	6.4	1/4	M14x1.5	8	54	36	32	17
1C554-12-6	10	-06	9.5	3/8	M18x1.5	12	60	37	35	22

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1CA54 – 24° Sealing Cone / O-Ring Light Series – Metric Swivel Nut ISO 12151-2



54 Series

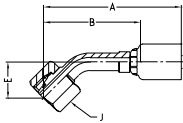
Part No. #	DN size mm inch				Connection Type		A mm	B mm	J mm
	Thread Size	Tube OD							
1CA54-6-3	5	-03	4.8	3/16	M12x1.5	6	35	18	14
1CA54-8-4	6	-04	6.3	1/4	M14x1.5	8	39	20	17
1CA54-10-5	8	-05	7.9	5/16	M16x1.5	10	42	21	19
1CA54-10-6	10	-06	9.5	3/8	M16x1.5	10	44	21	19
1CA54-12-6	10	-06	9.5	3/8	M18x1.5	12	44	21	22

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1CE54 – 24° Sealing Cone / O-Ring 45° Elbow

Light Series – Metric Swivel Nut

ISO 12151-2



54 Series

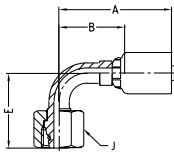
Part No. #	DN size mm inch	Connection Type				A mm	B mm	E mm	J mm
		Thread Size	Tube OD						
1CE54-6-3	5 -03 4.8 3/16	M12x1.5	6	65	48	17	14		
1CE54-8-4	6 -04 6.3 1/4	M14x1.5	8	63	44	17	17		
1CE54-10-5	8 -05 7.9 5/16	M16x1.5	10	81	60	19	19		
1CE54-10-6	10 -06 9.5 3/8	M16x1.5	10	82	59	19	19		
1CE54-12-6	10 -06 9.5 3/8	M18x1.5	12	82	59	19	22		

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1CF54 – Sealing Cone / O-Ring 90° Elbow

Light Series – Metric Swivel Nut

ISO 12151-2



54 Series

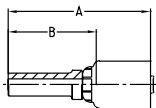
Part No. #	DN size mm inch	Connection Type				A mm	B mm	E mm	J mm
		Thread Size	Tube OD						
1CF54-6-3	5 -03 4.8 3/16	M12x1.5	6	45	28	31	14		
1CF54-10-6	10 -06 9.5 3/8	M16x1.5	10	59	36	37	19		

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request



Hose Fittings
54 Series

11D54 – Metric Standpipe Light Series



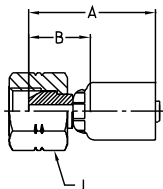
54 Series

Part No. #	DN size mm inch				Tube OD	A mm	B mm
11D54-6-4	6	-04	6.3	1/4	6	49	30
11D54-8-4	6	-04	6.3	1/4	8	49	30
11D54-12-6	10	-06	9.5	3/8	12	54	31

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Not recommended for new constructions. Please refer to end connections C3 or CA.

19254 – Sealing Head (60°) BSP Swivel Nut

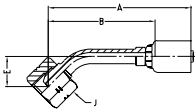


54 Series

Part No. #	DN size mm inch				Connection Type			
	Thread Size	Tube OD	A mm	B mm	H mm			
19255-4-4	G 1/4	1/4	36	17	19			

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1B154 – Sealing Head (60°) 45° Elbow BSP Swivel Nut

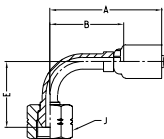


54 Series

Part No. #	DN size mm inch				Connection Type						
	mm		inch		Thread Size	Tube OD	A mm	B mm	E mm	J mm	
1B154-4-3	5	-03	4.8	3/16	G 1/4	1/4	70	53	16	19	
1B154-4-4	6	-04	6.3	1/4	G 1/4	1/4	73	55	16	19	
1B154-6-6	10	-06	9.5	3/8	G 3/8	3/8	81	58	18	22	

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1B254 – Sealing Head (60°) 90° Elbow BSP Swivel Nut



54 Series

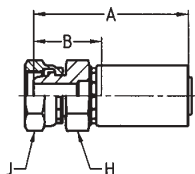
Part No. #	DN size mm inch				Connection Type						
	mm		inch		Thread Size	Tube OD	A mm	B mm	E mm	J mm	
1B254-4-3	5	-03	4.8	3/16	G 1/4	1/4	51	32	32	19	
1B254-4-4	6	-04	6.3	1/4	G 1/4	1/4	54	36	32	19	
1B254-6-5	8	-05	7.9	5/16	G 3/8	3/8	59	38	36	22	
1B254-6-6	10	-06	9.5	3/8	G 3/8	3/8	61	38	36	22	

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request



Hose Fittings
55 Series

1C355 – Sealing Head Light Series – Metric Swivel Nut



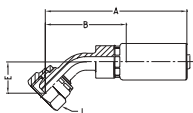
55 Series

Part No. #	DN size mm inch				Connection Type						
	mm	inch	mm	inch	Thread Size	Tube OD	A mm	B mm	H mm	J mm	
1C355-6-3	5	-03	4.8	3/16	M12x1.5	6	52	27	14	14	
1C355-8-4	6	-04	6.4	1/4	M14x1.5	8	59	27	17	19	
1C355-10-4	6	-04	6.4	1/4	M16x1.5	8	59	27	19	19	
1C355-10-5	8	-05	7.9	5/16	M16x1.5	10	59	27	19	19	
1C355-12-5	8	-05	7.9	5/16	M18x1.5	12	61	29	19	24	
1C355-10-6	10	-06	9.5	3/8	M16x1.5	10	66	29	19	22	
1C355-12-6	10	-06	9.5	3/8	M18x1.5	12	66	29	19	24	
1C355-15-8	12	-08	12.7	1/2	M22x1.5	15	72	31	24	27	
1C355-18-12	20	-12	19.0	3/4	M26x1.5	18	80	34	32	32	
1C355-22-12	20	-12	19.0	3/4	M30x2	22	84	38	32	36	
1C355-28-16	25	-16	25.4	1	M36x2	28	97	37	36	46	

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Note: 56 series is the recommended fitting type, as the availability of 55 series will be limited in the future.

1C455 – Sealing Head 45° Elbow Light Series – Metric Swivel Nut



55 Series

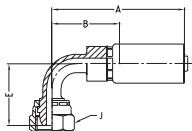
Part No. #	DN size mm inch				Connection Type						
	mm	inch	mm	inch	Thread Size	Tube OD	A mm	B mm	E mm	J mm	
1C455-6-3	5	-03	4.8	3/16	M12x1.5	6	67	42	16	14	
1C455-8-4	6	-04	6.4	1/4	M14x1.5	8	73	42	16	19	
1C455-10-5	8	-05	7.9	5/16	M16x1.5	10	74	43	17	19	
1C455-10-6	10	-06	9.5	3/8	M16x1.5	10	81	45	17	19	
1C455-12-6	10	-06	9.5	3/8	M18x1.5	12	82	45	18	22	
1C455-15-8	12	-08	12.7	1/2	M22x1.5	15	91	50	20	27	
1C455-22-12	20	-12	19.0	3/4	M30x2	22	107	61	24	36	

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Note: 56 series is the recommended fitting type, as the availability of 55 series will be limited in the future.

1C555 – Sealing Head 90° Elbow

Light Series – Metric Swivel Nut



55 Series

Part No. #	DN size		mm		inch		Connection Type			
	mm	inch	mm	inch	Thread Size	Tube OD	A mm	B mm	E mm	J mm
1C555-6-3	5	-03	4.8	3/16	M12x1.5	6	57	32	29	14
1C555-8-4	6	-04	6.4	1/4	M14x1.5	8	64	32	29	19
1C555-10-4	6	-04	6.4	1/4	M16x1.5	10	64	32	29	19
1C555-10-5	8	-05	7.9	5/16	M16x1.5	10	65	33	30	19
1C555-10-6	10	-06	9.5	3/8	M16x1.5	10	73	36	33	19
1C555-12-6	10	-06	9.5	3/8	M18x1.5	12	73	36	34	22
1C555-15-6	10	-06	9.5	3/8	M22x1.5	15	73	36	36	27
1C555-15-8	12	-08	12.7	1/2	M22x1.5	15	82	41	41	27
1C555-18-12	20	-12	19.0	3/4	M26x1.5	18	100	54	52	32
1C555-22-12	20	-12	19.0	3/4	M30x2	22	100	54	52	36
1C555-28-16	25	-16	25.4	1	M36x2	28	131	71	68	46

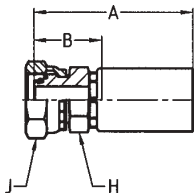
Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Note: 56 series is the recommended fitting type, as the availability of 55 series will be limited in the future.

1CA55 – 24° Sealing Cone / O-Ring

Light Series – Metric Swivel Nut

ISO 12151-2



55 Series

Part No. #	DN size		mm		inch		Connection Type			
	mm	inch	mm	inch	Thread Size	Tube OD	A mm	B mm	H mm	J mm
1CA55-6-3	5	-03	4.8	3/16	M12x1.5	6	54	29	14	14
1CA55-8-4	6	-04	6.4	1/4	M14x1.5	8	60	29	17	19
1CA55-10-5	8	-05	7.9	5/16	M16x1.5	10	62	30	19	19
1CA55-12-5	8	-05	7.9	5/16	M18x1.5	12	63	31	19	22
1CA55-10-6	10	-06	9.5	3/8	M16x1.5	10	67	31	19	19
1CA55-12-6	10	-06	9.5	3/8	M18x1.5	12	68	31	19	22
1CA55-15-8	12	-08	12.7	1/2	M22x1.5	15	74	33	24	27
1CA55-18-12	20	-12	19.0	3/4	M26x1.5	18	80	34	32	32
1CA55-22-12	20	-12	19.0	3/4	M30x2	22	80	34	32	36
1CA55-28-16	25	-16	25.4	1	M36x2	28	101	41	36	46

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Note: 56 series is the recommended fitting type, as the availability of 55 series will be limited in the future.

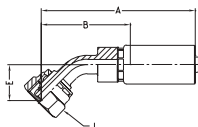
Hose Fittings
55 Series

1CE55 – 24° Sealing Cone / O-Ring 45° Elbow

Light Series – Metric Swivel Nut

ISO 12151-2

55 Series



Part No. #	DN size mm inch				Connection Type						
	mm	inch	mm	inch	Thread Size	Tube OD	A mm	B mm	E mm	J mm	
1CE55-6-3	5	-03	4.8	3/16	M12x1.5	6	67	42	16	14	
1CE55-8-4	6	-04	6.4	1/4	M14x1.5	8	75	43	18	19	
1CE55-10-4	6	-04	6.4	1/4	M16x1.5	10	75	43	17	19	
1CE55-10-5	8	-05	7.9	5/16	M16x1.5	10	75	44	18	19	
1CE55-10-6	10	-06	9.5	3/8	M16x1.5	10	83	46	19	19	
1CE55-12-6	10	-06	9.5	3/8	M18x1.5	12	83	46	19	22	
1CE55-15-8	12	-08	12.7	1/2	M22x1.5	15	92	51	21	27	
1CE55-18-12	20	-12	19.0	3/4	M26x1.5	18	108	62	25	32	
1CE55-22-12	20	-12	19.0	3/4	M30x2	22	108	62	26	36	

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

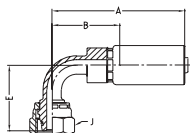
Note: 56 series is the recommended fitting type, as the availability of 55 series will be limited in the future.

1CF55 – Sealing Cone / O-Ring 90° Elbow

Light Series – Metric Swivel Nut

ISO 12151-2

55 Series



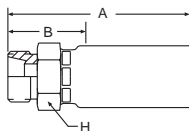
Part No. #	DN size mm inch				Connection Type						
	mm	inch	mm	inch	Thread Size	Tube OD	A mm	B mm	E mm	J mm	
1CF55-6-3	5	-03	4.8	3/16	M12x1.5	6	55	30	29	14	
1CF55-8-4	6	-04	6.4	1/6	M14x1.5	8	64	32	32	19	
1CF55-10-4	6	-04	6.4	1/6	M16x1.5	10	64	32	31	19	
1CF55-10-5	8	-05	7.9	5/16	M16x1.5	10	65	33	32	19	
1CF55-12-5	8	-05	7.9	5/16	M18x1.5	12	65	33	32	22	
1CF55-10-6	10	-06	9.5	3/8	M16x1.5	10	73	36	35	19	
1CF55-12-6	10	-06	9.5	3/8	M18x1.5	12	73	36	35	22	
1CF55-15-8	12	-08	12.7	1/2	M22x1.5	15	82	41	42	27	
1CF55-18-12	20	-12	19.0	3/4	M26x1.5	18	100	54	54	32	
1CF55-22-12	20	-12	19.0	3/4	M30x2	22	100	54	52	36	
1CF55-28-16	25	-16	25.4	1	M36x2	28	122	62	65	46	

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Note: 56 series is the recommended fitting type, as the availability of 55 series will be limited in the future.

1D055 – Metric Male 24° Cone

Light Series ISO 12151-2



55 Series

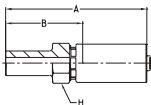
Part No. #	DN size mm inch				Connection Type				
	Thread Size	Tube OD	A mm	B mm	H mm				
1D055-6-3	5	-03	4.8	3/16	M12x1.5	6	49	23	17
1D055-8-4	6	-04	6.4	1/4	M14x1.5	8	55	23	19
1D055-10-5	8	-05	7.9	5/16	M16x1.5	10	58	26	19
1D055-12-5	8	-05	7.9	5/16	M18x1.5	12	59	27	19
1D055-10-6	10	-06	9.5	3/8	M16x1.5	10	63	26	22
1D055-12-6	10	-06	9.5	3/8	M18x1.5	12	64	27	22
1D055-15-6	10	-06	9.5	3/8	M22x1.5	15	67	30	27
1D055-15-8	12	-08	12.7	1/2	M22x1.5	15	71	30	27
1D055-18-12	20	-12	19.0	3/4	M26x1.5	18	76	30	32
1D055-22-12	20	-12	19.0	3/4	M30x2	22	77	31	36
1D055-28-16	25	-16	25.4	1	M36x2	28	91	31	41

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Note: 56 series is the recommended fitting type, as the availability of 55 series will be limited in the future.

11D55 – Metric Standpipe

Light Series



55 Series

Part No. #	DN size mm inch				Tube OD	A mm	B mm	H mm
	11D55-6-2	3	-02	3.2	1/8	6	49	32
11D55-6-3	5	-03	4.8	3/16	6	59	33	14
11D55-6-4	6	-04	6.4	1/4	6	68	36	17
11D55-8-4	6	-04	6.4	1/4	8	68	37	17
11D55-10-5	8	-05	7.9	5/16	10	69	37	17
11D55-10-6	10	-06	9.5	3/8	10	74	37	19
11D55-12-6	10	-06	9.5	3/8	12	75	38	19
11D55-15-8	12	-08	12.7	1/2	15	82	41	22
11D55-18-8	12	-08	12.7	1/2	18	83	41	22
11D55-18-12	20	-12	19.0	3/4	18	89	43	30
11D55-22-12	20	-12	19.0	3/4	22	91	45	30
11D55-28-16	25	-16	25.4	1	28	107	47	41

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Note: 56 series is the recommended fitting type, as the availability of 55 series will be limited in the future.

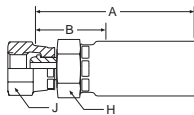
Not recommended for new constructions. Please refer to end connections C3 or CA.

Hose Fittings
55 Series

1C655 – Sealing Head

Heavy Series

Metric Swivel Nut



55 Series

Part No. #	DN size mm inch				Connection Type		A mm	B mm	H mm	J mm
	Thread Size	Tube OD								
1C655-8-3	5	-03	4.8	3/16	M16x1.5	8	53	28	17	19
1C655-10-4	6	-04	6.4	1/4	M18x1.5	10	60	28	19	22
1C655-12-5	8	-05	7.9	5/16	M20x1.5	12	64	32	22	24
1C655-14-6	10	-06	9.5	3/8	M22x1.5	14	66	30	24	27
1C655-16-8	12	-08	12.7	1/2	M24x1.5	16	72	31	27	30
1C655-20-12	20	-12	19.0	3/4	M30x2	20	84	38	32	36
1C655-25-12	20	-12	19.0	3/4	M36x2	25	82	36	36	46
1C655-30-16	25	-16	25.4	1	M42x2	30	102	42	38	50

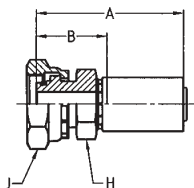
Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Note: 56 series is the recommended fitting type, as the availability of 55 series will be limited in the future.

1C955 – 24° Sealing Cone / O-Ring

Heavy Series – Metric Swivel Nut

ISO 12151-2



55 Series

Part No. #	DN size mm inch				Connection Type		A mm	B mm	H mm	J mm
	Thread Size	Tube OD								
1C955-8-3	5	-03	4.8	3/16	M16x1.5	8	54	29	17	19
1C955-8-4	6	-04	6.4	1/4	M18x1.5	8	70	38	17	19
1C955-10-4	6	-04	6.4	1/4	M18x1.5	10	67	36	19	22
1C955-12-4	6	-04	6.4	1/4	M20x1.5	12	64	32	19	24
1C955-10-5	8	-05	7.9	5/16	M18x1.5	10	63	32	19	22
1C955-12-5	8	-05	7.9	5/16	M20x1.5	12	63	32	19	24
1C955-12-6	10	-06	9.5	3/8	M20x1.5	12	68	32	19	24
1C955-14-6	10	-06	9.5	3/8	M22x1.5	14	70	33	24	27
1C955-16-8	12	-08	12.7	1/2	M24x1.5	16	77	36	24	30
1C955-20-12	20	-12	19.0	3/4	M30x2	20	84	38	30	36
1C955-25-12	20	-12	19.0	3/4	M36x2	25	88	42	36	46
1C955-30-16	25	-16	25.4	1	M42x2	30	104	44	41	50

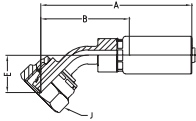
Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Note: 56 series is the recommended fitting type, as the availability of 55 series will be limited in the future.

10C55 – 24° Sealing Cone / O-Ring 45° Elbow

Heavy Series – Metric Swivel Nut

ISO 12151-2



55 Series

Part No. #	DN size mm inch				Connection Type					
	mm	inch	mm	inch	Thread Size	Tube OD	A mm	B mm	E mm	J mm
10C55-8-3	5	-03	4.8	3/16	M16x1.5	8	68	43	18	19
10C55-16-8	12	-08	12.7	1/2	M24x1.5	16	93	52	23	30

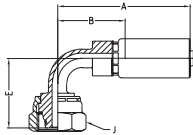
Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Note: 56 series is the recommended fitting type, as the availability of 55 series will be limited in the future.

11C55 – 24° Sealing Cone / O-Ring 90° Elbow

Heavy Series – Metric Swivel Nut

ISO 12151-2



55 Series

Part No. #	DN size mm inch				Connection Type					
	mm	inch	mm	inch	Thread Size	Tube OD	A mm	B mm	E mm	J mm
11C55-10-4	6	-04	6.4	1/4	M18x1.5	10	64	32	31	22
11C55-12-5	8	-05	7.9	5/16	M20x1.5	12	65	33	34	24
11C55-12-6	10	-06	9.5	3/8	M20x1.5	12	73	36	37	24
11C55-16-8	12	-08	12.7	1/2	M24x1.5	16	82	41	44	30

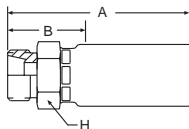
Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Note: 56 series is the recommended fitting type, as the availability of 55 series will be limited in the future.

Hose Fittings
55 Series

1D255 – Metric Male 24° Cone

Heavy Series ISO 12151-2



55 Series

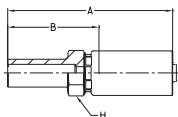
Part No. #	DN size mm inch				Connection Type				
	mm		inch		Thread Size	Tube OD	A mm	B mm	H mm
1D255-8-3	5	-03	4.8	3/16	M16x1.5	8	52	27	19
1D255-10-4	6	-04	6.4	1/4	M18x1.5	10	58	26	22
1D255-12-5	8	-05	7.9	5/16	M20x1.5	12	62	30	24
1D255-14-6	10	-06	9.5	3/8	M22x1.5	14	69	32	27
1D255-16-6	10	-06	9.5	3/8	M24x1.5	16	67	30	27
1D255-16-8	12	-08	12.7	1/2	M24x1.5	16	73	32	27
1D255-20-12	20	-12	19.0	3/4	M30x2	20	79	33	36
1D255-25-12	20	-12	19.0	3/4	M36x2	25	81	35	41
1D255-30-16	25	-16	25.4	1	M42x2	30	95	35	46

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Note: 56 series is the recommended fitting type, as the availability of 55 series will be limited in the future.

13D55 – Metric Standpipe

Heavy Series



55 Series

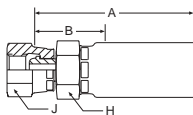
Part No. #	DN size mm inch				Tube OD	A mm	B mm	H mm
	mm		inch					
13D55-8-3	5	-03	4.8	3/16	8	61	35	14
13D55-8-4	6	-04	6.4	1/4	8	71	39	17
13D55-10-4	6	-04	6.4	1/4	10	70	38	17
13D55-12-5	8	-05	7.9	5/16	12	71	39	17
13D55-12-6	10	-06	9.5	3/8	12	76	39	19
13D55-14-6	10	-06	9.5	3/8	14	81	44	19
13D55-16-8	12	-08	12.7	1/2	16	87	46	22
13D55-20-12	20	-12	19.0	3/4	20	98	52	30
13D55-25-12	20	-12	19.0	3/4	25	103	57	30
13D55-30-16	25	-16	25.4	1	30	116	56	41

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Note: 56 series is the recommended fitting type, as the availability of 55 series will be limited in the future.

Not recommended for new constructions. Please refer to end connections C9.

19255 – Sealing Head (60°) BSP Swivel Nut



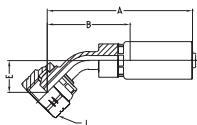
55 Series

Part No. #	DN size mm inch				Connection Type					
	Thread Size	Tube OD	A mm	B mm	H mm	J mm				
19255-4-3	5	-03	4.8	3/16	G 1/4	1/4	53	28	17	19
19255-2-4	6	-04	6.4	1/4	G 1/8	1/8	57	25	17	14
19255-4-4	6	-04	6.4	1/4	G 1/4	1/4	58	26	17	19
19255-6-4	6	-04	6.4	1/4	G 3/8	3/8	59	27	17	22
19255-4-5	8	-05	7.9	5/16	G 1/4	1/4	59	27	19	19
19255-6-5	8	-05	7.9	5/16	G 3/8	3/8	59	27	19	22
19255-6-6	10	-06	9.5	3/8	G 3/8	3/8	64	27	19	22
19255-8-6	12	-08	12.7	1/2	G 1/2	1/2	67	30	24	27
19255-10-8	12	-08	12.7	1/2	G 5/8	5/8	75	34	27	30
19255-12-12	20	-12	19.0	3/4	G 3/4	3/4	81	35	32	32
19255-16-16	25	-16	25.4	1	G 1	1	99	39	36	41

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Note: 56 series is the recommended fitting type, as the availability of 55 series will be limited in the future.

1B155 – Sealing Head (60°) 45° Elbow BSP Swivel Nut



55 Series

Part No. #	DN size mm inch				Connection Type					
	Thread Size	Tube OD	A mm	B mm	E mm	J mm				
1B155-4-4	6	-04	6.4	1/4	G 1/4	1/4	73	41	16	19
1B155-6-5	8	-05	7.9	5/16	G 3/8	3/8	74	42	16	22
1B155-6-6	10	-06	9.5	3/8	G 3/8	3/8	81	45	17	22
1B155-8-8	12	-08	12.7	1/2	G 1/2	1/2	91	49	20	27
1B155-10-8	12	-08	12.7	1/2	G 5/8	5/8	89	48	19	30
1B155-12-12	20	-12	19.0	3/4	G 3/4	3/4	107	61	25	32
1B155-16-16	25	-16	25.4	1	G 1	1	131	71	29	41

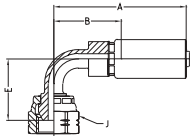
Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Note: 56 series is the recommended fitting type, as the availability of 55 series will be limited in the future.






Hose Fittings
55 Series

1B255 – Sealing Head (60°) 90° Elbow BSP Swivel Nut



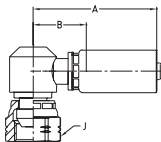
55 Series

Part No. #	DN size mm inch				Connection Type						
							A mm	B mm	E mm	J mm	
1B255-4-3	5	-03	4.8	3/16	G 1/4	1/4	57	32	28	19	
1B255-4-4	6	-04	6.4	1/4	G 1/4	1/4	64	32	28	19	
1B255-6-5	8	-05	7.9	5/16	G 3/8	3/8	65	33	30	22	
1B255-6-6	10	-06	9.5	3/8	G 3/8	3/8	73	36	33	22	
1B255-8-8	12	-08	12.7	1/2	G 1/2	1/2	82	41	40	27	
1B255-10-8	12	-08	12.7	1/2	G 5/8	5/8	82	41	38	30	
1B255-12-12	20	-12	19.0	3/4	G 3/4	3/4	100	54	53	32	
1B255-16-16	25	-16	25.4	1	G 1	1	127	67	65	41	



Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Note: 56 series is the recommended fitting type, as the availability of 55 series will be limited in the future.

1B455 – BSP – Swivel Female 90° Compact Elbow



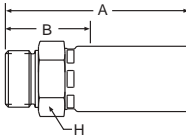
55 Series

Part No. #	DN size mm inch				Connection Type			
						A mm	B mm	J mm
1B455-4-4	6	-04	6.4	1/4	G 1/4	53	21	19
1B455-6-6	10	-06	9.5	3/8	G 3/8	61	25	22
1B455-8-8	12	-08	12.7	1/2	G 1/2	68	27	27

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Note: 56 series is the recommended fitting type, as the availability of 55 series will be limited in the future.

1D955 – BSP Male DIN 3852 Shape A



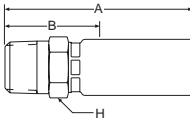
55 Series

Part No. #	DN size mm inch				Connection Type			A mm	B mm	H mm
	Thread Size	Tube OD								
1D955-4-4	6	-04	6.4	1/4	G 1/4	1/4	58	26	19	
1D955-6-5	8	-05	7.9	5/16	G 3/8	3/8	59	27	22	
1D955-6-6	10	-06	9.5	3/8	G 3/8	3/8	64	27	22	
1D955-8-8	12	-08	12.7	1/2	G 1/2	1/2	72	31	27	
1D955-12-12	20	-12	19.0	3/4	G 3/4	3/4	80	34	32	
1D955-16-16	25	-16	25.4	1	G 1	1	95	35	41	

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Note: 56 series is the recommended fitting type, as the availability of 55 series will be limited in the future.

10155 – NPTF Male - 60° Cone



55 Series

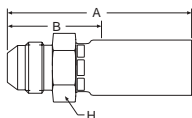
Part No. #	DN size mm inch				Connection Type			A mm	B mm	H mm
	Thread Size	Tube OD								
10155-2-3	5	-03	4.8	3/16	1/8 - 27NPTF	1/8	51	26	14	
10155-4-3	5	-03	4.8	3/16	1/4 - 18NPTF	1/4	55	30	17	
10155-6-3	5	-03	4.8	3/16	3/8 - 18NPTF	3/8	54	29	19	
10155-2-4	6	-04	6.4	1/4	1/8 - 27NPTF	1/8	54	22	17	
10155-4-4	6	-04	6.4	1/4	1/4 - 18NPTF	1/4	62	30	17	
10155-6-4	6	-04	6.4	1/4	3/8 - 18NPTF	3/8	61	29	19	
10155-4-5	8	-05	7.9	5/16	1/4 - 18NPTF	1/4	59	27	17	
10155-6-5	8	-05	7.9	5/16	3/8 - 18NPTF	3/8	61	29	19	
10155-4-6	10	-06	9.5	3/8	1/4 - 18NPTF	1/4	66	30	19	
10155-6-6	10	-06	9.5	3/8	3/8 - 18NPTF	3/8	70	33	19	
10155-8-6	10	-06	9.5	3/8	1/2 - 14NPTF	1/2	77	40	27	
10155-6-8	12	-08	12.7	1/2	3/8 - 18NPTF	3/8	71	30	22	
10155-8-8	12	-08	12.7	1/2	1/2 - 14NPTF	1/2	77	36	27	
10155-12-12	20	-12	19.0	3/4	3/4 - 14NPTF	3/4	82	36	30	
10155-16-16	25	-06	25.4	1	1 - 11 1/2NPTF	1	104	44	41	

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Note: 56 series is the recommended fitting type, as the availability of 55 series will be limited in the future.

Hose Fittings
55 Series

10355 – JIC Male 37° Cone



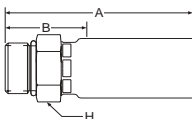
55 Series

Part No. #	DN size mm inch			Connection Type					
	mm	inch		Thread Size	Tube OD	A mm	B mm	H mm	
10355-4-3	5	-03	4.8	3/16	7/16 - 20UNF	1/4	52	27	14
10355-4-4	6	-04	6.4	1/4	7/16 - 20UNF	1/4	58	27	17
10355-5-4	6	-04	6.4	1/4	1/2 - 20UNF	5/16	58	27	17
10355-6-4	6	-04	6.4	1/4	1/2 - 20UNF	5/16	59	27	17
10355-5-5	8	-05	7.9	5/16	9/16 - 18UNF	3/8	62	30	17
10355-6-5	8	-05	7.9	5/16	9/16 - 18UNF	3/8	62	30	17
10355-6-6	10	-06	9.5	3/8	9/16 - 18UNF	3/8	70	33	19
10355-8-6	10	-06	9.5	3/8	3/4 - 16UNF	1/2	68	32	22
10355-8-8	12	-08	12.7	1/2	3/4 - 16UNF	1/2	73	32	22
10355-10-8	12	-08	12.7	1/2	7/8 - 14UNF	5/8	81	40	27
10355-12-12	20	-12	19.0	3/4	1 1/16 - 12UNF	3/4	84	38	30
10355-16-16	25	-06	25.4	1	1 5/16 - 12UNF	1	104	44	36

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Note: 56 series is the recommended fitting type, as the availability of 55 series will be limited in the future.

10555 – UNF Male / O-Ring



55 Series

Part No. #	DN size mm inch			Connection Type					
	mm	inch		Thread Size	Tube OD	A mm	B mm	H mm	
10555-4-3	5	-03	4.8	3/16	7/16 - 20UNF	1/4	47	22	14
10555-4-4	6	-04	6.4	1/4	7/16 - 20UNF	1/4	57	25	17
10555-5-4	6	-04	6.4	1/4	1/2 - 20UNF	5/16	54	22	17
10555-6-4	6	-04	6.4	1/4	9/16 - 18UNF	3/8	58	26	19
10555-4-5	8	-05	7.9	5/16	7/16 - 20UNF	1/4	53	22	17
10555-5-5	8	-05	7.9	5/16	1/2 - 20UNF	5/16	53	22	17
10555-6-6	10	-06	9.5	3/8	9/16 - 18UNF	3/8	61	25	19
10555-8-6	10	-06	9.5	3/8	3/4 - 16UNF	1/2	63	26	22
10555-8-8	12	-08	12.7	1/2	3/4 - 16UNF	1/2	67	26	22
10555-10-8	12	-08	12.7	1/2	7/8 - 14UNF	5/8	70	29	24

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

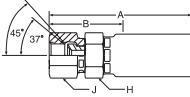
Note: 56 series is the recommended fitting type, as the availability of 55 series will be limited in the future.

10655 – JIC - 37° Cone

UNF Swivel Nut

Material: Steel

55 Series



Part No. #	DN size		mm		inch		Connection Type			
	mm	inch	mm	inch	Thread Size	Tube OD	A mm	B mm	H mm	J mm
10655-4-2	3	-02	3.2	1/8	7/16 - 20UNF	1/4	44	27	13	16
10655-4-3	5	-03	4.8	3/16	7/16 - 20UNF	1/4	55	30	16	17
10655-5-3	5	-03	4.8	3/16	1/2 - 20UNF	5/16	57	32	16	17
10655-4-4	6	-04	6.4	1/4	7/16 - 20UNF	1/4	65	33	17	17
10655-5-4	6	-04	6.4	1/4	1/2 - 20UNF	5/16	65	33	16	17
10655-6-4	6	-04	6.4	1/4	9/16 - 18UNF	3/8	67	35	17	19
10655-5-5	8	-05	7.9	5/16	1/2 - 20UNF	5/16	65	33	16	17
10655-6-5	8	-05	7.9	5/16	9/16 - 18UNF	3/8	65	33	16	19
10655-8-5	8	-05	7.9	5/16	3/4 - 16UNF	1/2	68	37	19	22
10655-6-6	10	-06	9.5	3/8	9/16 - 18UNF	3/8	69	33	19	19
10655-8-6	10	-06	9.5	3/8	3/4 - 16UNF	1/2	72	35	19	24
10655-6-8	12	-08	12.7	1/2	9/16 - 18UNF	3/8	76	35	22	19
10655-8-8	12	-08	12.7	1/2	3/4 - 16UNF	1/2	79	38	22	22
10655-10-8	12	-08	12.7	1/2	7/8 - 14UNF	5/8	82	41	22	27
10655-12-8	12	-08	12.7	1/2	1 1/16 - 12UNF	3/4	83	42	27	32
10655-12-12	20	-12	19.0	3/4	1 1/16 - 12UNF	3/4	88	42	30	32
10655-16-16	25	-16	25.4	1	1 5/16 - 12UNF	1	104	44	36	38

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Note: 56 series is the recommended fitting type, as the availability of 55 series will be limited in the future.

Material: Stainless Steel (AISI 316)



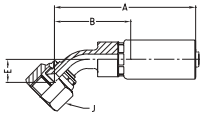
Part No. #	DN size		mm		inch		Connection Type			
	mm	inch	mm	inch	Thread Size	Tube OD	A mm	B mm	H mm	J mm
10655-4-3C	5	-03	4.8	3/16	7/16 - 20UNF	1/4	55	30	16	17
10655-4-4C	6	-04	6.4	1/4	7/16 - 20UNF	1/4	65	33	17	17
10655-5-4C	6	-04	6.4	1/4	1/2 - 20UNF	5/16	65	33	16	17
10655-6-4C	6	-04	6.4	1/4	9/16 - 18UNF	3/8	67	35	17	19
10655-6-5C	8	-05	7.9	5/16	9/16 - 18UNF	3/8	65	33	16	19
10655-6-6C	10	-06	9.5	3/8	9/16 - 18UNF	3/8	69	33	19	19
10655-8-6C	10	-06	9.5	3/8	3/4 - 16UNF	1/2	72	35	19	24
10655-8-8C	12	-08	12.7	1/2	3/4 - 16UNF	1/2	79	38	22	22
10655-10-8C	12	-08	12.7	1/2	7/8 - 14UNF	5/8	82	41	22	27
10655-12-12C	20	-12	19.0	3/4	1 1/16 - 12UNF	3/4	88	42	30	32
10655-16-16C	25	-16	25.4	1	1 5/16 - 12UNF	1	104	44	36	38

Material: Stainless steel (AISI 316)

Note: 56 series is the recommended fitting type, as the availability of 55 series will be limited in the future.

Hose Fittings
55 Series

13755 – JIC - 37° Cone 45° Elbow UNF Swivel Nut



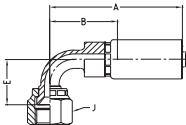
55 Series

Part No. #	DN size		mm		inch		Connection Type				
	mm	inch	mm	inch	Thread Size	Tube OD	A mm	B mm	E mm	J mm	
13755-4-3-SM	5	-03	4.8	3/16	7/16 - 20UNF	1/4	61	30	11	17	
13755-4-4-SM	6	-04	6.4	1/4	7/16 - 20UNF	1/4	68	36	10	17	
13755-5-4-SM	6	-04	6.4	1/4	1/2 - 20UNF	5/16	70	38	13	17	
13755-6-5-SM	8	-05	7.9	5/16	9/16 - 18UNF	3/8	69	37	11	19	
13755-6-6-SM	10	-06	9.5	3/8	9/16 - 18UNF	3/8	77	40	14	19	
13755-8-6-SM	10	-06	9.5	3/8	3/4 - 16UNF	1/2	78	42	15	22	
13755-8-8-SM	12	-08	12.7	1/2	3/4 - 16UNF	1/2	83	42	14	22	
13755-10-8-SM	12	-08	12.7	1/2	7/8 - 14UNF	5/8	85	44	16	27	
13755-12-12-SM	20	-12	19.0	3/4	1 1/16 - 12UNF	3/4	100	54	20	32	
13755-16-16-SM	25	-16	25.4	1	1 5/16 - 12UNF	1	124	64	24	41	

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Note: 56 series is the recommended fitting type, as the availability of 55 series will be limited in the future.

13955 – JIC - 37° Cone 90° Elbow UNF Swivel Nut



55 Series

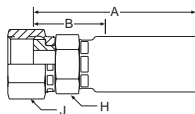
Part No. #	DN size		mm		inch		Connection Type				
	mm	inch	mm	inch	Thread Size	Tube OD	A mm	B mm	E mm	J mm	
13955-4-3-SM	5	-03	4.8	3/16	7/16 - 20UNF	1/4	55	30	21	17	
13955-4-4-SM	6	-04	6.4	1/4	7/16 - 20UNF	1/4	64	32	21	17	
13955-5-4-SM	6	-04	6.4	1/4	1/2 - 20UNF	5/16	64	32	25	17	
13955-6-4-SM	6	-04	6.4	1/4	9/16 - 18UNF	3/8	64	32	22	19	
13955-6-5-SM	8	-05	7.9	5/16	9/16 - 18UNF	3/8	65	33	22	19	
13955-6-6-SM	10	-06	9.5	3/8	9/16 - 18UNF	3/8	73	36	28	19	
13955-8-6-SM	10	-06	9.5	3/8	3/4 - 16UNF	1/2	71	34	29	22	
13955-8-8-SM	12	-08	12.7	1/2	3/4 - 16UNF	1/2	77	36	29	22	
13955-10-8-SM	12	-08	12.7	1/2	7/8 - 14UNF	5/8	77	36	32	27	
13955-12-12-SM	20	-12	19.0	3/4	1 1/16 - 12UNF	3/4	97	51	46	32	
13955-16-16-SM	25	-16	25.4	1	1 5/16 - 12UNF	1	121	61	55	41	

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Note: 56 series is the recommended fitting type, as the availability of 55 series will be limited in the future.

1JC55 – O-Lok® ORFS (Short Version) UNF Swivel Nut ISO 12151-1

55 Series



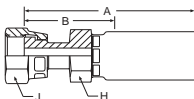
Part No. #	DN size		mm		inch		Connection Type				
	mm	inch	mm	inch	Thread Size	Tube OD	A mm	B mm	H mm	J mm	
1JC55-4-3-SM	5	-03	4.8	3/16	9/16 - 18UNF	1/4	47	22	17	17	
1JC55-4-4-SM	6	-04	6.4	1/4	9/16 - 18UNF	1/4	53	22	17	17	
1JC55-6-4-SM	6	-04	6.4	1/4	11/16 - 16UNF	3/8	59	27	19	22	
1JC55-4-5-SM	8	-05	7.9	5/16	9/16 - 16UNF	1/4	53	22	17	17	
1JC55-6-5-SM	8	-05	7.9	5/16	11/16 - 16UNF	3/8	56	25	19	22	
1JC55-6-6-SM	10	-06	9.5	3/8	11/16 - 16UNF	3/8	61	25	19	22	
1JC55-8-6-SM	10	-06	9.5	3/8	13/16 - 16UNF	1/2	63	27	22	24	
1JC55-8-8-SM	12	-08	12.7	1/2	13/16 - 16UNF	1/2	69	27	24	24	
1JC55-10-8-SM	12	-08	12.7	1/2	1 - 14UNF	5/8	73	32	30	30	
1JC55-12-12-SM	20	-12	19.0	3/4	1 3/16 - 12UNF	3/4	79	33	32	36	
1JC55-16-16-SM	25	-16	25.4	1	1 7/16 - 12UNF	1	96	36	36	41	

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Note: 56 series is the recommended fitting type, as the availability of 55 series will be limited in the future.

1JS55 – O-Lok® ORFS UNF Swivel Nut ISO 12151-1

55 Series



Part No. #	DN size		mm		inch		Connection Type				
	mm	inch	mm	inch	Thread Size	Tube OD	A mm	B mm	H mm	J mm	
1JS55-4-3-SM	5	-03	4.8	3/16	9/16 - 18UNF	1/4	60	35	17	17	
1JS55-4-4-SM	6	-04	6.4	1/4	9/16 - 18UNF	1/4	67	35	17	17	
1JS55-6-4-SM	6	-04	6.4	1/4	11/16 - 16UNF	3/8	66	35	19	22	
1JS55-4-5-SM	8	-06	7.9	5/16	9/16 - 16UNF	1/4	67	35	17	17	
1JS55-6-5-SM	8	-05	7.9	5/16	11/16 - 16UNF	3/8	66	35	19	22	
1JS55-6-6-SM	10	-06	9.5	3/8	11/16 - 16UNF	3/8	71	35	19	22	
1JS55-8-6-SM	10	-06	9.5	3/8	13/16 - 16UNF	1/2	75	38	22	24	
1JS55-8-8-SM	12	-08	12.7	1/2	13/16 - 16UNF	1/2	80	38	22	24	
1JS55-10-10-SM	16	-10	15.9	5/8	1 - 14UNF	5/8	90	44	30	30	
1JS55-12-12-SM	20	-12	19.0	3/4	1 3/16 - 12UNF	3/4	94	48	32	36	
1JS55-16-16-SM	25	-16	25.4	1	1 7/16 - 12UNF	1	112	52	36	41	

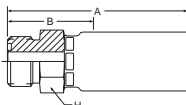
Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Note: 56 series is the recommended fitting type, as the availability of 55 series will be limited in the future.

Hose Fittings
55 Series

1JM55 – O-Lok® ORFS Male ISO 12151-1

55 Series



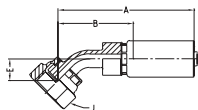
Part No. #	DN size mm inch		Connection Type						
			Thread Size	Tube OD	A mm	B mm	H mm		
1JM55-4-4-SM	6	-04	6.4	1/4	9/16 - 18UNF	1/4	56	24	19
1JM55-6-6-SM	10	-06	9.5	3/8	11/16 - 16UNF	3/8	63	26	19
1JM55-8-6-SM	10	-06	9.5	3/8	13/16 - 16UNF	1/2	65	28	22

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Note: 56 series is the recommended fitting type, as the availability of 55 series will be limited in the future.

1J755 – O-Lok® ORFS 45° Elbow UNF Swivel Nut ISO 12151-1

55 Series



Part No. #	DN size mm inch		Connection Type							
			Thread Size	Tube OD	A mm	B mm	E mm	H mm		
1J755-4-4	6	-04	6.4	1/4	9/16 - 18UNF	5/16	71	39	10	17
1J755-6-4	6	-04	6.4	1/4	11/16 - 16UNF	3/8	73	41	12	22
1J755-6-6	10	-06	9.5	3/8	11/16 - 16UNF	3/8	78	41	14	22
1J755-8-6	10	-06	9.5	3/8	13/16 - 16UNF	1/2	78	42	14	24
1J755-8-8	12	-08	12.7	1/2	13/16 - 16UNF	1/2	83	42	12	24
1J755-12-12	20	-12	19.0	3/4	1 3/16 - 12UNF	3/4	103	57	21	36
1J755-16-16	25	-16	25.4	1	1 7/16 - 12UNF	1	130	70	26	41

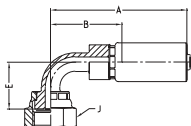
Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Note: 56 series is the recommended fitting type, as the availability of 55 series will be limited in the future.

1J955 – O-Lok® ORFS 90° Elbow

UNF Swivel Nut

ISO 12151-1



55 Series

Part No. #	DN size		mm		inch		Connection Type				
	mm	inch	mm	inch	Thread Size	Tube OD	A mm	B mm	E mm	J mm	
1J955-4-4	6	-04	6.4	1/4	9/16 - 18UNF	5/16	67	35	21	17	
1J955-6-4	6	-04	6.4	1/4	11/16 - 16UNF	3/8	68	36	23	22	
1J955-6-5	8	-05	7.9	5/16	11/16 - 16UNF	3/8	67	35	23	22	
1J955-6-6	10	-06	9.5	3/8	11/16 - 16UNF	3/8	72	36	29	22	
1J955-8-8	12	-08	12.7	1/2	13/16 - 16UNF	1/2	82	41	29	24	
1J955-12-12	20	-12	19.0	3/4	1 3/16 - 12UNF	3/4	100	54	47	36	
1J955-16-16	25	-16	25.4	1	1 7/16 - 12UNF	1	128	68	64	41	

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

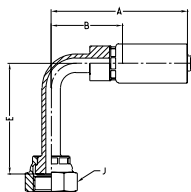
Note: 56 series is the recommended fitting type, as the availability of 55 series will be limited in the future.

1J155 – O-Lok® ORFS 90° Elbow

(Long Drop Length)

UNF Swivel Nut

ISO 12151-1



55 Series

Part No. #	DN size		mm		inch		Connection Type				
	mm	inch	mm	inch	Thread Size	Tube OD	A mm	B mm	E mm	J mm	
1J155-4-4	6	-04	6.4	1/4	9/16 - 18UNF	5/16	67	35	46	17	
1J155-6-6	10	-06	9.5	3/8	11/16 - 16UNF	3/8	72	36	54	22	
1J155-8-6	10	-06	9.5	3/8	13/16 - 16UNF	1/2	72	36	64	24	
1J155-8-8	12	-08	12.7	1/2	13/16 - 16UNF	1/2	82	41	64	24	
1J155-12-12	20	-12	19.0	3/4	1 3/16 - 12UNF	3/4	100	54	96	36	
1J155-16-16	25	-16	25.4	1	1 7/16 - 12UNF	1	128	68	114	41	

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

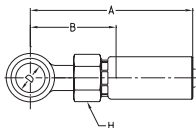
Note: 56 series is the recommended fitting type, as the availability of 55 series will be limited in the future.



Hose Fittings
55 Series

14955 – Banjo Union

DIN 7642



55 Series

Part No. #	DN	size	mm	inch	Tube OD	A mm	B mm	H mm
14955-10-4	6	-04	6.4	1/4	10	65	34	17
14955-12-4	6	-04	6.4	1/4	12	67	36	—
14955-14-4	6	-04	6.4	1/4	14	72	40	17
14955-12-5	8	-05	7.9	5/16	12	61	30	—
14955-14-5	8	-05	7.9	5/16	14	72	40	17
14955-12-6	10	-06	9.5	3/8	12	66	29	—

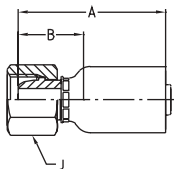
Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Note:

56 series is the recommended fitting type, as the availability of 55 series will be limited in the future.

1C356 – Sealing Head

Light Series – Metric Swivel Nut



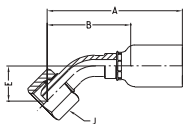
56 Series

Part No. #	DN size		mm		inch		Connection Type			
	mm	inch	mm	inch	Thread Size	Tube OD	A mm	B mm	H mm	
1C356-6-3	5	-03	4.8	3/16	M12x1.5	6	37	20	14	
1C356-8-4	6	-04	6.4	1/4	M14x1.5	8	44	20	17	
1C356-10-4	6	-04	6.4	1/4	M16x1.5	10	45	21	19	
1C356-10-5	8	-05	7.9	5/16	M16x1.5	10	46	20	19	
1C356-12-5	8	-05	7.9	5/16	M18x1.5	12	47	21	22	
1C356-10-6	10	-06	9.5	3/8	M16x1.5	10	46	20	19	
1C356-12-6	10	-06	9.5	3/8	M18x1.5	12	47	22	22	
1C356-15-8	12	-08	12.7	1/2	M22x1.5	15	50	23	27	
1C356-18-12	20	-12	19.0	3/4	M26x1.5	18	58	24	32	
1C356-22-12	20	-12	19.0	3/4	M30x2	22	57	24	36	
1C356-28-16	25	-16	25.4	1	M36x2	28	76	28	41	

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1C456 – Sealing Head 45° Elbow

Light Series – Metric Swivel Nut



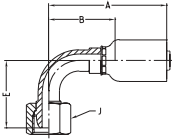
56 Series

Part No. #	DN size		mm		inch		Connection Type			
	mm	inch	mm	inch	Thread Size	Tube OD	A mm	B mm	E mm	J mm
1C456-6-3	5	-03	4.8	3/16	M12x1.5	6	57	39	16	14
1C456-8-4	6	-04	6.4	1/4	M14x1.5	8	62	38	16	17
1C456-10-5	8	-05	7.9	5/16	M16x1.5	10	67	41	17	19
1C456-10-6	10	-06	9.5	3/8	M16x1.5	10	67	41	17	19
1C456-12-6	10	-06	9.5	3/8	M18x1.5	12	68	43	18	22
1C456-15-8	12	-08	12.7	1/2	M22x1.5	15	76	47	19	27

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Hose Fittings
56 Series

1C556 – Sealing Head 90° Elbow Light Series – Metric Swivel Nut

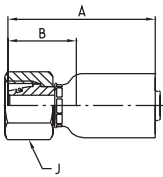


56 Series

Part No. #	DN size mm inch		Connection Type				A mm	B mm	E mm	J mm
			Thread Size	Tube OD						
1C556-6-3	5	-03	4.8	3/16	M12x1.5	6	46	28	28	14
1C556-8-4	6	-04	6.4	1/4	M14x1.5	8	53	29	28	17
1C556-10-4	6	-04	6.4	1/4	M16x1.5	10	53	29	29	19
1C556-10-5	8	-05	7.9	5/16	M16x1.5	10	58	33	33	19
1C556-10-6	10	-06	9.5	3/8	M16x1.5	10	58	33	33	19
1C556-12-6	10	-06	9.5	3/8	M18x1.5	12	58	33	34	22
1C556-15-6	10	-06	9.5	3/8	M22x1.5	15	58	33	34	27
1C556-15-8	12	-08	12.7	1/2	M22x1.5	15	68	40	39	27
1C556-18-12	20	-12	19.0	3/4	M26x1.5	18	87	53	52	32

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1CA56 – 24° Sealing Cone / O-Ring Light Series – Metric Swivel Nut ISO 12151-2



56 Series

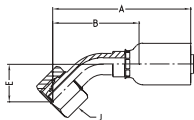
Part No. #	DN size mm inch		Connection Type				A mm	B mm	J mm
			Thread Size	Tube OD					
1CA56-6-3	5	-03	4.8	3/16	M12x1.5	6	39	22	14
1CA56-8-4	6	-04	6.4	1/4	M14x1.5	8	47	23	17
1CA56-10-5	8	-05	7.9	5/16	M16x1.5	10	48	22	19
1CA56-12-5	8	-05	7.9	5/16	M18x1.5	12	48	23	22
1CA56-10-6	10	-06	9.5	3/8	M16x1.5	10	48	23	19
1CA56-12-6	10	-06	9.5	3/8	M18x1.5	12	48	23	22
1CA56-15-8	12	-08	12.7	1/2	M22x1.5	15	52	24	27
1CA56-18-12	20	-12	19.0	3/4	M26x1.5	18	60	26	32
1CA56-22-12	20	-12	19.0	3/4	M30x2	22	62	28	36
1CA56-28-16	25	-16	25.4	1	M36x2	28	78	30	46

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1CE56 – 24° Sealing Cone / O-Ring 45° Elbow

Light Series – Metric Swivel Nut

ISO 12151-2



56 Series

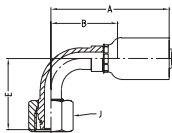
Part No. #	DN size mm inch				Connection Type		A mm	B mm	E mm	J mm
	mm	inch	Thread Size	Tube OD						
1CE56-6-3	5	-03	4.8	3/16	M12x1.5	6	58	40	17	14
1CE56-8-4	6	-04	6.4	1/4	M14x1.5	8	65	40	18	17
1CE56-10-4	6	-04	6.4	1/4	M16x1.5	10	64	40	17	19
1CE56-10-5	8	-05	7.9	5/16	M16x1.5	10	66	40	18	19
1CE56-10-6	10	-06	9.5	3/8	M16x1.5	10	68	43	19	19
1CE56-12-6	10	-06	9.5	3/8	M18x1.5	12	69	44	19	22
1CE56-15-8	12	-08	12.7	1/2	M22x1.5	15	77	49	21	27
1CE56-18-12	20	-12	19.0	3/4	M26x1.5	18	95	61	25	32
1CE56-22-12	20	-12	19.0	3/4	M30x2	22	96	62	26	36

Material: Steel, surface protection according to DIN 50 961 Fe/Zn,
special materials available upon request

1CF56 – Sealing Cone / O-Ring 90° Elbow

Light Series – Metric Swivel Nut

ISO 12151-2



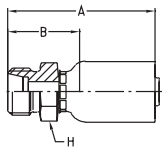
56 Series

Part No. #	DN size mm inch				Connection Type		A mm	B mm	E mm	J mm
	mm	inch	Thread Size	Tube OD						
1CF56-6-3	5	-03	4.8	3/16	M12x1.5	6	46	28	30	14
1CF56-8-4	6	-04	6.4	1/6	M14x1.5	8	53	29	32	17
1CF56-10-4	6	-04	6.4	1/6	M16x1.5	10	53	29	31	19
1CF56-10-5	8	-05	7.9	5/16	M16x1.5	10	55	30	32	19
1CF56-12-5	8	-05	7.9	5/16	M18x1.5	12	56	30	33	22
1CF56-10-6	10	-06	9.5	3/8	M16x1.5	10	58	33	35	19
1CF56-12-6	10	-06	9.5	3/8	M18x1.5	12	58	36	33	22
1CF56-15-8	12	-08	12.7	1/2	M22x1.5	15	68	40	41	27
1CF56-18-12	20	-12	19.0	3/4	M26x1.5	18	87	54	53	32
1CF56-22-12	20	-12	19.0	3/4	M30x2	22	87	54	65	36
1CF56-28-16	25	-16	25.4	1	M36x2	28	115	67	69	41

Material: Steel, surface protection according to DIN 50 961 Fe/Zn,
special materials available upon request

Hose Fittings
56 Series

1D056 – Metric Male 24° Cone Light Series ISO 12151-2

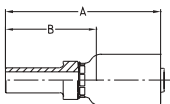


56 Series

Part No. #	DN size mm inch				Connection Type				
	mm	inch	mm	inch	Thread Size	Tube OD	A mm	B mm	H mm
1D056-6-3	5	-03	4.8	3/16	M12x1.5	6	41	23	12
1D056-8-4	6	-04	6.4	1/4	M14x1.5	8	48	23	14
1D056-10-5	8	-05	7.9	5/16	M16x1.5	10	50	24	17
1D056-12-5	8	-05	7.9	5/16	M18x1.5	12	52	26	19
1D056-10-6	10	-06	9.5	3/8	M16x1.5	10	50	25	17
1D056-12-6	10	-06	9.5	3/8	M18x1.5	12	52	26	19
1D056-15-6	10	-06	9.5	3/8	M22x1.5	15	53	27	22
1D056-15-8	12	-08	12.7	1/2	M22x1.5	15	56	28	24
1D056-18-12	20	-12	19.0	3/4	M26x1.5	18	66	33	27
1D056-22-12	20	-12	19.0	3/4	M30x2	22	67	33	32
1D056-28-16	25	-16	25.4	1	M36x2	28	84	36	36

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

11D56 – Metric Standpipe Light Series



56 Series

Part No. #	DN size mm inch				Tube OD	A mm	B mm
11D56-6-3	5	-03	4.8	3/16	6	50	32
11D56-6-4	6	-04	6.4	1/4	6	57	32
11D56-8-4	6	-04	6.4	1/4	8	57	32
11D56-10-5	8	-05	7.9	5/16	10	60	34
11D56-10-6	10	-06	9.5	3/8	10	60	34
11D56-12-6	10	-06	9.5	3/8	12	61	35
11D56-15-8	12	-08	12.7	1/2	15	66	39
11D56-18-8	12	-08	12.7	1/2	18	68	41
11D56-18-12	20	-12	19.0	3/4	18	74	40
11D56-22-12	20	-12	19.0	3/4	22	76	42
11D56-28-16	25	-16	25.4	1	28	94	46

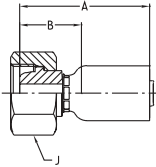
Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Not recommended for new constructions. Please refer to end connections C3 or CA.

1C656 – Sealing Head

Heavy Series

Metric Swivel Nut



56 Series

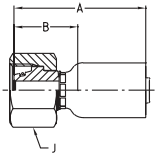
Part No. #	DN size mm inch				Connection Type			
	mm	inch	Thread Size	Tube OD	A mm	B mm	J mm	
1C656-8-3	5	-03	4.8 3/16	M16x1.5	8	37	20	19
1C656-10-4	6	-04	6.4 1/4	M18x1.5	10	46	22	22
1C656-12-5	8	-05	7.9 5/16	M20x1.5	12	50	24	24
1C656-14-6	10	-06	9.5 3/8	M22x1.5	14	49	24	27
1C656-16-8	12	-08	12.7 1/2	M24x1.5	16	53	27	30
1C656-20-12	20	-12	19.0 3/4	M30x2	20	61	27	36

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1C956 – 24° Sealing Cone / O-Ring

Heavy Series – Metric Swivel Nut

ISO 12151-2



56 Series

Part No. #	DN size mm inch				Connection Type			
	mm	inch	Thread Size	Tube OD	A mm	B mm	J mm	
1C956-8-3	5	-03	4.8 3/16	M16x1.5	8	41	23	19
1C956-8-4	6	-04	6.4 1/4	M16x1.5	8	48	23	19
1C956-10-4	6	-04	6.4 1/4	M18x1.5	10	48	23	22
1C956-12-4	6	-04	6.4 1/4	M20x1.5	12	49	24	24
1C956-10-5	8	-05	7.9 5/16	M18x1.5	10	49	23	22
1C956-12-5	8	-05	7.9 5/16	M20x1.5	12	50	24	24
1C956-12-6	10	-06	9.5 3/8	M20x1.5	12	49	24	24
1C956-14-6	10	-06	9.5 3/8	M22x1.5	14	49	24	27
1C956-16-8	12	-08	12.7 1/2	M24x1.5	16	55	27	30
1C956-20-12	20	-12	19.0 3/4	M30x2	20	65	31	36
1C956-25-12	20	-12	19.0 3/4	M36x2	25	66	33	46

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

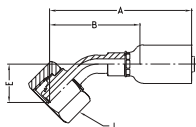


Hose Fittings
56 Series

10C56 – 24° Sealing Cone / O-Ring 45° Elbow

Heavy Series – Metric Swivel Nut

ISO 12151-2



56 Series

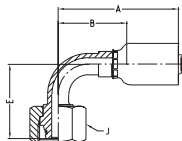
Part No. #	DN size mm inch				Connection Type						
	mm		inch		Thread Size	Tube OD	A mm	B mm	E mm	J mm	
10C56-10-4	6	-04	6.4	1/4	M18x1.5	10	65	40	18	22	
10C56-12-5	8	-05	7.9	5/16	M20x1.5	12	70	45	19	24	
10C56-12-6	10	-06	9.5	3/8	M20x1.5	12	70	45	20	24	
10C56-16-8	12	-08	12.7	1/2	M24x1.5	16	80	51	23	30	

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

11C56 – 24° Sealing Cone / O-Ring 90° Elbow

Heavy Series – Metric Swivel Nut

ISO 12151-2



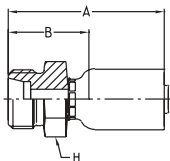
56 Series

Part No. #	DN size mm inch				Connection Type						
	mm		inch		Thread Size	Tube OD	A mm	B mm	E mm	J mm	
11C56-10-4	6	-04	6.4	1/4	M18x1.5	10	53	29	32	22	
11C56-12-5	8	-05	7.9	5/16	M20x1.5	12	58	33	34	24	
11C56-12-6	10	-06	9.5	3/8	M20x1.5	12	59	34	37	24	
11C56-16-8	12	-08	12.7	1/2	M24x1.5	16	68	40	45	30	

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1D256 – Metric Male 24° Cone

Heavy Series ISO 12151-2



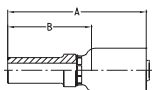
56 Series

Part No. #	DN size mm inch				Connection Type		A mm	B mm	H mm
	mm	inch	Thread Size	Tube OD					
1D256-8-3	5	-03	4.8	3/16	M16x1.5	8	43	25	17
1D256-10-4	6	-04	6.4	1/4	M18x1.5	10	52	27	19
1D256-12-5	8	-05	7.9	5/16	M20x1.5	12	53	27	22
1D256-14-6	10	-06	9.5	3/8	M22x1.5	14	57	31	24
1D256-16-6	10	-06	9.5	3/8	M24x1.5	16	57	31	24
1D256-16-8	12	-08	12.7	1/2	M24x1.5	16	60	32	24
1D256-20-12	20	-12	19.0	3/4	M30x2	20	72	39	32

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

13D56 – Metric Standpipe

Heavy Series



56 Series

Part No. #	DN size mm inch				Tube OD	A mm	B mm
	mm	inch	Thread Size	Tube OD			
13D56-8-3	5	-03	4.8	3/16	8	52	34
13D56-8-4	6	-04	6.4	1/4	8	59	34
13D56-10-4	6	-04	6.4	1/4	10	61	36
13D56-12-5	8	-05	7.9	5/16	12	63	37
13D56-12-6	10	-06	9.5	3/8	12	64	38
13D56-14-6	10	-06	9.5	3/8	14	67	41
13D56-16-8	12	-08	12.7	1/2	16	71	44
13D56-20-12	20	-12	19.0	3/4	20	84	50
13D56-25-12	20	-12	19.0	3/4	25	88	54

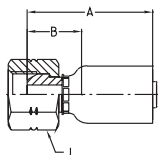
Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Not recommended for new constructions. Please refer to end connections C9.



Hose Fittings
56 Series

19256 – Sealing Head (60°) BSP Swivel Nut

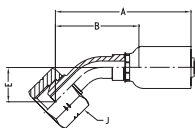


56 Series

Part No. #	DN size mm inch				Connection Type				
	5	6	8	10	Thread Size	Tube OD	A mm	B mm	J mm
19256-4-3	5	-03	4.8	3/16	G 1/4	1/4	37	19	19
19256-2-4	6	-04	6.4	1/4	G 1/8	1/8	43	18	14
19256-4-4	6	-04	6.4	1/4	G 1/4	1/4	44	20	19
19256-6-4	6	-04	6.4	1/4	G 3/8	3/8	44	20	22
19256-4-5	8	-05	7.9	5/16	G 1/4	1/4	45	20	19
19256-6-5	8	-05	7.9	5/16	G 3/8	3/8	45	20	22
19256-6-6	10	-06	9.5	3/8	G 3/8	3/8	45	20	22
19256-8-6	12	-08	12.7	1/2	G 1/2	1/2	47	22	27
19256-8-8	12	-08	12.7	1/2	G 1/2	1/2	51	22	27
19256-10-8	12	-08	12.7	1/2	G 5/8	5/8	49	22	30
19256-12-12	20	-12	19.0	3/4	G 3/4	3/4	58	24	32
19256-16-16	25	-16	25.4	1	G 1	1	73	26	41

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1B156 – Sealing Head (60°) 45° Elbow BSP Swivel Nut

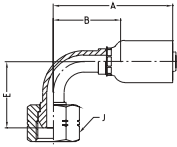


56 Series

Part No. #	DN size mm inch				Connection Type					
	6	8	10	12	Thread Size	Tube OD	A mm	B mm	E mm	J mm
1B156-4-4	6	-04	6.4	1/4	G 1/4	1/4	62	38	16	19
1B156-6-5	8	-05	7.9	5/16	G 3/8	3/8	64	39	16	22
1B156-6-6	10	-06	9.5	3/8	G 3/8	3/8	66	41	17	22
1B156-8-8	12	-08	12.7	1/2	G 1/2	1/2	76	48	20	27
1B156-10-8	12	-08	12.7	1/2	G 5/8	5/8	75	48	19	30

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1B256 – Sealing Head (60°) 90° Elbow BSP Swivel Nut

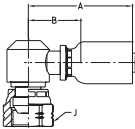


56 Series

Part No. #	DN size mm inch				Connection Type		A mm	B mm	E mm	J mm
	5	-03	4.8	3/16	Thread Size	Tube OD				
1B256-4-3	5	-03	4.8	3/16	G 1/4	1/4	46	28	28	19
1B256-4-4	6	-04	6.4	1/4	G 1/4	1/4	53	29	28	19
1B256-6-5	8	-05	7.9	5/16	G 3/8	3/8	55	30	30	22
1B256-6-6	10	-06	9.5	3/8	G 3/8	3/8	58	33	33	22
1B256-8-8	12	-08	12.7	1/2	G 1/2	1/2	68	40	40	27
1B256-10-8	12	-08	12.7	1/2	G 5/8	5/8	68	41	38	30
1B256-12-12	20	-12	19.0	3/4	G 3/4	3/4	87	53	51	32
1B256-16-16	25	-16	25.4	1	G 1	1	115	67	63	41

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1B456 – BSP – Swivel Female 90° Compact Elbow

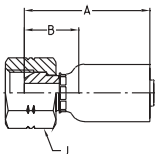


56 Series

Part No. #	DN size mm inch				Connection Type	A mm	B mm	J mm
	6	-04	6.4	1/4				
1B456-4-4	6	-04	6.4	1/4	G 1/4	47	23	19
1B456-6-6	10	-06	9.5	3/8	G 3/8	52	27	22
1B456-8-8	12	-08	12.7	1/2	G 1/2	58	31	27

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1U056 – Sealing Head (60°) BSP Swivel Nut



56 Series

Part No. #	Part No. #	DN size mm inch				Connection Type		A mm	B mm	J mm
		6	-04	6.4	1/4	Thread Size	Tube OD			
1U056-4-4	1U056-4-4 C2W	6	-04	6.4	1/4	G 1/4	44	20.0	19	
1U056-6-4	1U056-6-4 C2W	6	-04	6.4	1/4	G 3/8	45	20.5	22	

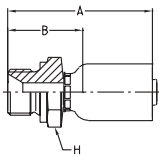
Material: Steel, surface protection according to DIN 50 961 Fe/Zn, C2W includes stainless steel nipple (material 1.4301)

Hose Fittings

56 Series

1D956 – BSP Male

DIN 3852 Shape A

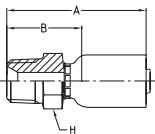


56 Series

Part No. #	DN size mm inch				Connection Type				
	mm	inch	mm	inch	Thread Size	Tube OD	A mm	B mm	H mm
1D956-4-4	6	-04	6,4	1/4	G 1/4	1/4	52	27	19
1D956-6-5	8	-05	7,9	5/16	G 3/8	3/8	53	27	22
1D956-6-6	10	-06	9,5	3/8	G 3/8	3/8	53	28	22
1D956-8-8	12	-08	12,7	1/2	G 1/2	1/2	60	32	27
1D956-12-12	20	-12	19,0	3/4	G 3/4	3/4	75	42	32

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

10156 – NPTF Male - 60° Cone



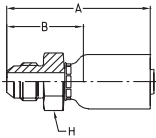
56 Series

Part No. #	DN size mm inch				Connection Type				
	mm	inch	mm	inch	Thread Size	Tube OD	A mm	B mm	H mm
10156-2-3	5	-03	4,8	3/16	1/8 - 27NPTF	1/8	41	23	14
10156-4-3	5	-03	4,8	3/16	1/4 - 18NPTF	1/4	45	27	16
10156-6-3	5	-03	4,8	3/16	3/8 - 18NPTF	3/8	48	30	19
10156-2-4	6	-04	6,4	1/4	1/8 - 27NPTF	1/8	49	24	14
10156-4-4	6	-04	6,4	1/4	1/4 - 18NPTF	1/4	52	28	16
10156-6-4	6	-04	6,4	1/4	3/8 - 18NPTF	3/8	54	30	19
10156-4-5	8	-05	7,9	5/16	1/4 - 18NPTF	1/4	54	28	16
10156-6-5	8	-05	7,9	5/16	3/8 - 18NPTF	3/8	56	30	19
10156-4-6	10	-06	9,5	3/8	1/4 - 18NPTF	1/4	55	30	19
10156-6-6	10	-06	9,5	3/8	3/8 - 18NPTF	3/8	55	30	19
10156-8-6	10	-06	9,5	3/8	1/2 - 14NPTF	1/2	60	35	22
10156-6-8	12	-08	12,7	1/2	3/8 - 18NPTF	3/8	58	31	19
10156-8-8	12	-08	12,7	1/2	1/2 - 14NPTF	1/2	63	35	22
10156-12-12	20	-12	19,0	3/4	3/4 - 14NPTF	3/4	76	42	32

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

10356 – JIC Male

37° Cone

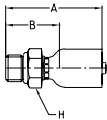


56 Series

Part No. #	DN size mm inch				Connection Type				
	mm	inch	mm	inch	Thread Size	Tube OD	A mm	B mm	H mm
10356-4-3	5	-03	4.8	3/16	3/8 - 24UNF	1/4	45	27	14
10356-4-4	6	-04	6.4	1/4	7/16 - 20UNF	1/4	52	27	14
10356-5-4	6	-04	6.4	1/4	1/2 - 20UNF	5/16	52	27	14
10356-6-4	6	-04	6.4	1/4	1/2 - 20UNF	5/16	54	30	19
10356-5-5	8	-05	7.9	5/16	9/16 - 18UNF	3/8	53	27	14
10356-6-5	8	-05	7.9	5/16	9/16 - 18UNF	3/8	55	29	19
10356-6-6	10	-06	9.5	3/8	9/16 - 18UNF	3/8	55	30	19
10356-8-6	10	-06	9.5	3/8	3/4 - 16UNF	1/2	57	32	22
10356-8-8	12	-08	12.7	1/2	3/4 - 16UNF	1/2	61	32	22
10356-10-8	12	-08	12.7	1/2	7/8 - 14UNF	5/8	65	37	22

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

10556 – UNF Male / O-Ring



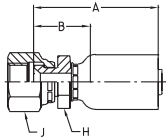
56 Series

Part No. #	DN size mm inch				Connection Type				
	mm	inch	mm	inch	Thread Size	Tube OD	A mm	B mm	H mm
10556-4-3	5	-03	4.8	3/16	7/16 - 20UNF	1/4	40	22	14
10556-4-4	6	-04	6.4	1/4	7/16 - 20UNF	1/4	47	22	14
10556-5-4	6	-04	6.4	1/4	1/2 - 20UNF	5/16	47	23	17
10556-6-4	6	-04	6.4	1/4	9/16 - 18UNF	3/8	51	27	19
10556-4-5	8	-05	7.9	5/16	7/16 - 20UNF	1/4	48	22	14
10556-5-5	8	-05	7.9	5/16	1/2 - 20UNF	5/16	49	23	17
10556-6-6	10	-06	9.5	3/8	9/16 - 18UNF	3/8	52	26	19
10556-8-6	10	-06	9.5	3/8	3/4 - 16UNF	1/2	52	27	22
10556-8-8	12	-08	12.7	1/2	3/4 - 16UNF	1/2	55	28	22
10556-10-8	12	-08	12.7	1/2	7/8 - 14UNF	5/8	57	30	27

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Hose Fittings
56 Series

10656 – JIC - 37° Cone UNF Swivel Nut

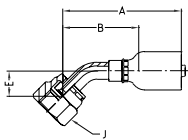


56 Series

Part No. #	DN size mm inch		Connection Type						
	mm	inch	Thread Size	Tube OD	A mm	B mm	H mm	J mm	
10656-4-3	5	-03	4.8 3/16	7/16 - 20UNF	1/4	36	19	12	17
10656-5-3	5	-03	4.8 3/16	1/2 - 20UNF	5/16	37	20	12	17
10656-4-4	6	-04	6.4 1/4	7/16 - 20UNF	1/4	44	19	14	17
10656-5-4	6	-04	6.4 1/4	1/2 - 20UNF	5/16	44	20	14	17
10656-6-4	6	-04	6.4 1/4	9/16 - 18UNF	3/8	45	20	14	19
10656-5-5	8	-05	7.9 5/16	1/2 - 20UNF	5/16	46	21	14	17
10656-6-5	8	-05	7.9 5/16	9/16 - 18UNF	3/8	47	21	17	19
10656-8-5	8	-05	7.9 5/16	3/4 - 16UNF	1/2	49	23	17	22
10656-6-6	10	-06	9.5 3/8	9/16 - 18UNF	3/8	47	22	17	19
10656-8-6	10	-06	9.5 3/8	3/4 - 16UNF	1/2	49	24	19	22
10656-6-8	12	-08	12.7 1/2	9/16 - 18UNF	3/8	52	25	22	19
10656-8-8	12	-08	12.7 1/2	3/4 - 16UNF	1/2	54	27	22	22
10656-10-8	12	-08	12.7 1/2	7/8 - 14UNF	5/8	54	26	24	27
10656-12-8	12	-08	12.7 1/2	1 1/16 - 12UNF	3/4	54	27	24	32
10656-12-10	16	-10	15.9 5/8	1 1/16 - 12UNF	3/4	63	31	27	32
10656-12-12	20	-12	19.0 3/4	1 1/16 - 12UNF	3/4	63	30	27	32
10656-16-16	25	-16	25.4 1	1 5/16 - 12UNF	1	82	34	32	41

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

13756 – JIC - 37° Cone 45° Elbow UNF Swivel Nut

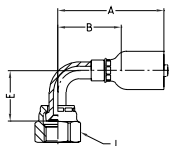


56 Series

Part No. #	DN size mm inch		Connection Type						
	mm	inch	Thread Size	Tube OD	A mm	B mm	E mm	J mm	
13756-4-3	5	-03	4.8 3/16	7/16 - 20UNF	1/4	49	32	11	17
13756-4-4	6	-04	6.4 1/4	7/16 - 20UNF	1/4	57	33	11	17
13756-5-4	6	-04	6.4 1/4	1/2 - 20UNF	5/16	58	33	11	17
13756-6-5	8	-05	7.9 5/16	9/16 - 18UNF	3/8	59	34	11	19
13756-6-6	10	-06	9.5 3/8	9/16 - 18UNF	3/8	60	36	11	19
13756-8-6	10	-06	9.5 3/8	3/4 - 16UNF	1/2	64	39	15	22
13756-8-8	12	-08	12.7 1/2	3/4 - 16UNF	1/2	69	42	14	22
13756-10-8	12	-08	12.7 1/2	7/8 - 14UNF	5/8	70	43	16	27

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

13956 – JIC - 37° Cone 90° Elbow UNF Swivel Nut

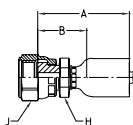


56 Series

Part No. #	DN size		inch		Connection Type					
	mm	inch	Thread Size	Tube OD	A mm	B mm	E mm	J mm		
13956-4-3	5	-03	4.8	3/16	7/16 - 20UNF	1/4	44	26	21.0	17
13956-4-4	6	-04	6.4	1/4	7/16 - 20UNF	1/4	53	29	21.0	17
13956-5-4	6	-04	6.4	1/4	1/2 - 20UNF	5/16	53	29	21.5	17
13956-6-4	6	-04	6.4	1/4	9/16 - 18UNF	3/8	53	29	22.0	19
13956-6-5	8	-05	7.9	5/16	9/16 - 18UNF	3/8	55	30	23.0	19
13956-6-6	10	-06	9.5	3/8	9/16 - 18UNF	3/8	56	31	23.0	19
13956-8-6	10	-06	9.5	3/8	3/4 - 16UNF	1/2	56	31	29.0	22
13956-8-8	12	-08	12.7	1/2	3/4 - 16UNF	1/2	63	37	29.0	22
13956-10-8	12	-08	12.7	1/2	7/8 - 14UNF	5/8	63	37	31.5	27
13956-12-12	20	-12	19.0	3/4	1 1/16 - 12UNF	3/4	87	53	46.0	32

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1JC56 – O-Lok® ORFS (Short Version) UNF Swivel Nut ISO 12151-1



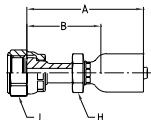
56 Series

Part No. #	DN size		inch		Connection Type					
	mm	inch	Thread Size	Tube OD	A mm	B mm	H mm	J mm		
1JC56-4-3	5	-03	4.8	3/16	9/16 - 18UNF	1/4	38	22	14	17
1JC56-4-4	6	-04	6.4	1/4	9/16 - 18UNF	1/4	45	22	14	17
1JC56-6-4	6	-04	6.4	1/4	11/16 - 16UNF	3/8	47	23	17	22
1JC56-4-5	8	-05	7.9	5/16	9/16 - 16UNF	1/4	46	22	14	17
1JC56-6-5	8	-05	7.9	5/16	11/16 - 16UNF	3/8	48	25	17	22
1JC56-6-6	10	-06	9.5	3/8	11/16 - 16UNF	3/8	48	25	17	22
1JC56-8-6	10	-06	9.5	3/8	13/16 - 16UNF	1/2	51	26	22	24
1JC56-8-8	12	-08	12.7	1/2	13/16 - 16UNF	1/2	54	28	22	24
1JC56-10-8	12	-08	12.7	1/2	1 - 14UNF	5/8	59	32	27	30

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Hose Fittings
56 Series

1JS56 – O-Lok® ORFS UNF Swivel Nut ISO 12151-1

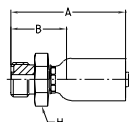


56 Series

Part No. #	DN size mm inch		Connection Type				A mm	B mm	H mm	J mm
			Thread Size	Tube OD						
1JS56-4-3	5	-03	4.8	3/16	9/16 - 18UNF	1/4	49	31	14	17
1JS56-4-4	6	-04	6.4	1/4	9/16 - 18UNF	1/4	56	31	14	17
1JS56-6-4	6	-04	6.4	1/4	11/16 - 16UNF	3/8	58	33	17	22
1JS56-4-5	8	-05	7.9	5/16	9/16 - 16UNF	1/4	57	31	14	17
1JS56-6-5	8	-05	7.9	5/16	11/16 - 16UNF	3/8	59	33	17	22
1JS56-6-6	10	-06	9.5	3/8	11/16 - 16UNF	3/8	59	33	17	22
1JS56-8-6	10	-06	9.5	3/8	13/16 - 16UNF	1/2	63	38	22	24
1JS56-8-8	12	-08	12.7	1/2	13/16 - 16UNF	1/2	66	39	22	24

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1JM56 – O-Lok® ORFS Male ISO 12151-1



56 Series

Part No. #	DN size mm inch		Connection Type			A mm	B mm	H mm	
			Thread Size	Tube OD					
1JM56-4-4	6	-04	6.4	1/4	9/16 - 18UNF	1/4	48	23	19
1JM56-6-6	10	-06	9.5	3/8	11/16 - 16UNF	3/8	51	25	22
1JM56-8-6	10	-06	9.5	3/8	13/16 - 16UNF	1/2	53	27	22

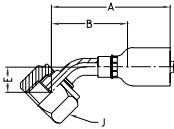
Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1J756 – O-Lok® ORFS 45° Elbow

UNF Swivel Nut

ISO 12151-1

56 Series



Part No. #	DN size mm inch				Connection Type		A mm	B mm	E mm	J mm
	mm	inch	mm	inch	Thread Size	Tube OD				
1J756-4-4	6	-04	6.4	1/4	9/16 - 18UNF	1/4	57	33	11	17
1J756-6-4	6	-04	6.4	1/4	11/16 - 16UNF	3/8	59	34	12	22
1J756-6-6	10	-06	9.5	3/8	11/16 - 16UNF	3/8	60	35	11	22
1J756-8-6	10	-06	9.5	3/8	13/16 - 16UNF	1/2	60	35	11	24
1J756-8-8	12	-08	12.7	1/2	13/16 - 16UNF	1/2	69	41	15	24

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

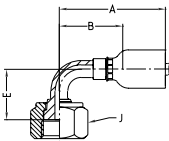
1J956 – O-Lok® ORFS 90° Elbow

UNF Swivel Nut

ISO 12151-1



56 Series

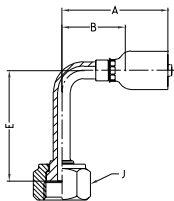


Part No. #	DN size mm inch				Connection Type		A mm	B mm	E mm	J mm
	mm	inch	mm	inch	Thread Size	Tube OD				
1J956-4-4	6	-04	6.4	1/4	9/16 - 18UNF	1/4	53	29	21	17
1J956-6-4	6	-04	6.4	1/4	11/16 - 16UNF	3/8	53	29	23	22
1J956-6-5	8	-05	7.9	5/16	11/16 - 16UNF	3/8	55	30	23	22
1J956-6-6	10	-06	9.5	3/8	11/16 - 16UNF	3/8	56	31	23	22
1J956-8-8	12	-08	12.7	1/2	13/16 - 16UNF	1/2	63	35	29	24

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Hose Fittings
56 Series

1J156 – O-Lok® ORFS 90° Elbow (Long Drop Length) UNF Swivel Nut ISO 12151-1

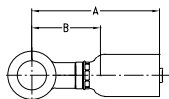


56 Series

Part No. #	DN size mm inch		Connection Type				A mm	B mm	E mm	J mm
			Thread Size	Tube OD						
1J156-4-4	6	-04	6.4	1/4	9/16 - 18UNF	1/4	53	29	46	17
1J156-6-6	10	-06	9.5	3/8	11/16 - 16UNF	3/8	56	31	54	22
1J156-8-6	10	-06	9.5	3/8	13/16 - 16UNF	1/2	56	31	64	24
1J156-8-8	12	-08	12.7	1/2	13/16 - 16UNF	1/2	63	35	64	24

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

14956 – Banjo Union DIN 7642

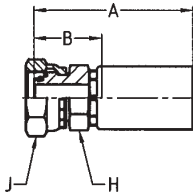


56 Series

Part No. #	DN size mm inch		Tube OD	A mm	B mm	
14956-10-4	6	-04	6.4 1/4	10	51	27
14956-12-4	6	-04	6.4 1/4	12	53	29
14956-14-4	6	-04	6.4 1/4	14	56	32
14956-12-5	8	-05	7.9 5/16	12	55	30
14956-14-5	8	-05	7.9 5/16	14	57	32
14956-12-6	10	-06	9.5 3/8	12	55	31

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1CA58 – 24° Sealing Cone / O-Ring Light Series – Metric Swivel Nut ISO 12151-2

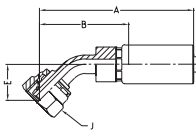


58 Series

Part No. #	DN size mm inch			Connection Type								
	Thread Size	Tube OD	A mm	B mm	H mm	J mm						
1CA58-6-3	5	-03	4.8	3/16	M12x1.5	6	54	29	14	14		
1CA58-8-4	6	-04	6.4	1/4	M14x1.5	8	60	29	17	19		
1CA58-10-5	8	-05	7.9	5/16	M16x1.5	10	62	30	19	19		
1CA58-12-5	8	-05	7.9	5/16	M18x1.5	12	63	31	19	22		
1CA58-10-6	10	-06	9.5	3/8	M16x1.5	10	67	31	19	19		
1CA58-12-6	10	-06	9.5	3/8	M18x1.5	12	68	31	19	22		
1CA58-15-8	12	-08	12.7	1/2	M22x1.5	15	74	33	24	27		
1CA58-18-10	16	-10	15.9	5/8	M26x1.5	18	80	35	27	32		
1CA58-18-12	20	-12	19.0	3/4	M26x1.5	18	80	34	32	32		
1CA58-22-12	20	-12	19.0	3/4	M30x2	22	80	34	32	36		
1CA58-28-16	25	-16	25.4	1	M36x2	28	101	41	36	46		

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1CE58 – 24° Sealing Cone / O-Ring 45° Elbow Light Series – Metric Swivel Nut ISO 12151-2



58 Series

Part No. #	DN size mm inch			Connection Type								
	Thread Size	Tube OD	A mm	B mm	E mm	H mm						
1CE58-6-3	5	-03	4.8	3/16	M12x1.5	6	67	42	16	14		
1CE58-8-4	6	-04	6.4	1/4	M14x1.5	8	75	43	18	19		
1CE58-10-5	8	-05	7.9	5/16	M16x1.5	10	75	44	18	19		
1CE58-10-6	10	-06	9.5	3/8	M16x1.5	10	83	46	19	19		
1CE58-12-6	10	-06	9.5	3/8	M18x1.5	12	83	46	19	22		
1CE58-15-8	12	-08	12.7	1/2	M22x1.5	15	92	51	21	27		
1CE58-18-10	16	-10	15.9	5/8	M26x1.5	18	101	56	23	32		
1CE58-18-12	20	-12	19.0	3/4	M26x1.5	18	108	62	25	32		
1CE58-22-12	20	-12	19.0	3/4	M30x2	22	108	62	26	36		

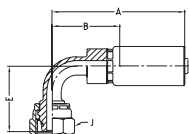
Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Hose Fittings
58 Series

1CF58 – Sealing Cone / O-Ring 90° Elbow

Light Series – Metric Swivel Nut

ISO 12151-2



58 Series

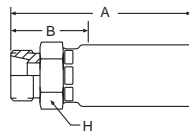
Part No. #	DN size mm inch				Connection Type					
	5	6	8	10	Thread Size	Tube OD	A mm	B mm	E mm	H mm
1CF58-6-3	5	-03	4.8	3/16	M12x1.5	6	55	30	29	14
1CF58-8-4	6	-04	6.4	1/6	M14x1.5	8	64	32	32	19
1CF58-10-5	8	-05	7.9	5/16	M16x1.5	10	65	33	32	19
1CF58-10-6	10	-06	9.5	3/8	M16x1.5	10	73	36	35	19
1CF58-12-6	10	-06	9.5	3/8	M18x1.5	12	73	36	35	22
1CF58-15-8	12	-08	12.7	1/2	M22x1.5	15	82	41	42	27
1CF58-18-10	16	-10	15.9	5/8	M26x1.5	18	91	46	46	32
1CF58-18-12	20	-12	19.0	3/4	M26x1.5	18	100	54	54	32
1CF58-22-12	20	-12	19.0	3/4	M30x2	22	100	54	52	36
1CF58-28-16	25	-16	25.4	1	M36x2	28	122	62	65	46

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1D058 – Metric Male 24° Cone

Light Series

ISO 12151-2



58 Series

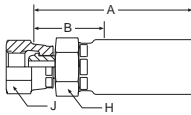
Part No. #	DN size mm inch				Connection Type				
	5	6	8	10	Thread Size	Tube OD	A mm	B mm	H mm
1D058-6-3	5	-03	4.8	3/16	M12x1.5	6	49	23	17
1D058-8-4	6	-04	6.4	1/4	M14x1.5	8	55	23	19
1D058-10-5	8	-05	7.9	5/16	M16x1.5	10	58	26	19
1D058-12-5	8	-05	7.9	5/16	M18x1.5	12	59	27	19
1D058-10-6	10	-06	9.5	3/8	M16x1.5	10	63	26	22
1D058-12-6	10	-06	9.5	3/8	M18x1.5	12	64	27	22
1D058-15-6	10	-06	9.5	3/8	M22x1.5	15	67	30	27
1D058-15-8	12	-08	12.7	1/2	M22x1.5	15	71	30	27
1D058-18-12	20	-12	19.0	3/4	M26x1.5	18	76	30	32
1D058-22-12	20	-12	19.0	3/4	M30x2	22	77	31	36
1D058-28-16	25	-16	25.4	1	M36x2	28	91	31	41

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1C658 – Sealing Head

Heavy Series

Metric Swivel Nut


58 Series

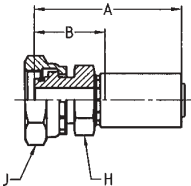
Part No. #	DN size				Connection Type		A mm	B mm	H mm	J mm
	mm	inch	Thread Size	Tube OD						
1C658-8-3	5	-03	4.8	3/16	M16x1.5	8	53	28	17	19
1C658-10-4	6	-04	6.4	1/4	M18x1.5	10	60	28	19	22
1C658-12-5	8	-05	7.9	5/16	M20x1.5	12	64	32	22	24
1C658-12-6	10	-06	9.5	3/8	M20x1.5	12	69	32	22	24
1C658-14-6	10	-06	9.5	3/8	M22x1.5	14	66	30	24	27
1C658-14-8	12	-08	12.7	1/2	M22x1.5	14	71	30	24	27
1C658-16-8	12	-08	12.7	1/2	M24x1.5	16	72	31	27	30
1C658-20-12	20	-12	19.0	3/4	M30x2	20	84	38	32	36
1C658-25-12	20	-12	19.0	3/4	M36x2	25	82	36	36	46
1C658-30-16	25	-16	25.4	1	M42x2	30	102	42	38	50

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1C958 – 24° Sealing Cone / O-Ring

Heavy Series – Metric Swivel Nut

ISO 12151-2


58 Series

Part No. #	DN size				Connection Type		A mm	B mm	H mm	J mm
	mm	inch	Thread Size	Tube OD						
1C958-8-3	5	-03	4.8	3/16	M16x1.5	8	54	29	17	19
1C958-10-4	6	-04	6.4	1/4	M18x1.5	10	67	36	17	22
1C958-12-5	8	-05	7.9	5/16	M20x1.5	12	63	32	19	24
1C958-12-6	10	-06	9.5	3/8	M20x1.5	12	68	32	19	24
1C958-14-6	10	-06	9.5	3/8	M22x1.5	14	70	33	24	27
1C958-16-8	12	-08	12.7	1/2	M24x1.5	16	77	36	24	30
1C958-20-10	16	-10	15.9	5/8	M30x2	20	83	38	30	36
1C958-20-12	20	-12	19.0	3/4	M30x2	20	84	38	30	36
1C958-25-12	20	-12	19.0	3/4	M36x2	25	88	42	36	46
1C958-30-16	25	-16	25.4	1	M42x2	30	104	44	41	50

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

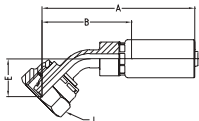


Hose Fittings
58 Series

10C58 – 24° Sealing Cone / O-Ring 45° Elbow

Heavy Series – Metric Swivel Nut

ISO 12151-2



58 Series

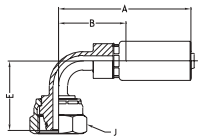
Part No. #	DN size mm inch				Connection Type					
	mm		inch		Thread Size	Tube OD	A mm	B mm	E mm	J mm
10C58-8-3	5	-03	4.8	3/16	M16x1.5	8	68	43	18	19
10C58-16-8	12	-08	12.7	1/2	M24x1.5	16	93	52	23	30

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

11C58 – 24° Sealing Cone / O-Ring 90° Elbow

Heavy Series – Metric Swivel Nut

ISO 12151-2



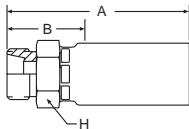
58 Series

Part No. #	DN size mm inch				Connection Type					
	mm		inch		Thread Size	Tube OD	A mm	B mm	E mm	J mm
11C58-12-5	8	-05	7.9	5/16	M20x1.5	12	65	33	34	24
11C58-12-6	10	-06	9.5	3/8	M20x1.5	12	73	36	37	24
11C58-16-8	12	-08	12.7	1/2	M24x1.5	16	82	41	44	30

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1D258 – Metric Male 24° Cone Heavy Series ISO 12151-2

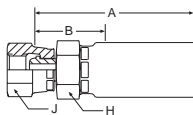
58 Series



Part No. #	DN size mm inch				Connection Type			A mm	B mm	H mm
	mm	inch	Thread Size	Tube OD	Thread Size	Tube OD	H mm			
1D258-8-3	5	-03	4.8	3/16	M16x1.5	8	52	27	19	
1D258-10-4	6	-04	6.4	1/4	M18x1.5	10	58	26	22	
1D258-12-5	8	-05	7.9	5/16	M20x1.5	12	62	30	24	
1D258-14-6	10	-06	9.5	3/8	M22x1.5	14	69	32	27	
1D258-16-8	12	-08	12.7	1/2	M24x1.5	16	73	32	27	
1D258-20-12	20	-12	19.0	3/4	M30x2	20	79	33	36	
1D258-25-12	20	-12	19.0	3/4	M36x2	25	81	35	41	
1D258-30-16	25	-16	25.4	1	M42x2	30	95	35	46	

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

19258 – Sealing Head (60°) BSP Swivel Nut



58 Series

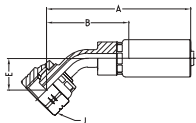
Part No. #	DN size mm inch				Connection Type			A mm	B mm	H mm	J mm
	mm	inch	Thread Size	Tube OD	Thread Size	Tube OD	H mm				
19258-4-3	5	-03	4.8	3/16	G 1/4	1/4	53	28	17	19	
19258-4-4	6	-04	6.4	1/4	G 1/4	1/4	58	26	17	19	
19258-6-5	8	-05	7.9	5/16	G 3/8	3/8	59	27	19	22	
19258-6-6	10	-06	9.5	3/8	G 3/8	3/8	64	27	19	22	
19258-8-8	12	-08	12.7	1/2	G 1/2	1/2	72	31	24	27	
19258-10-8	12	-08	12.7	1/2	G 5/8	5/8	75	34	27	30	
19258-12-12	20	-12	19.0	3/4	G 3/4	3/4	81	35	32	32	
19258-16-16	25	-16	25.4	1	G 1	1	99	39	36	41	

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Hose Fittings
58 Series

1B158 – Sealing Head (60°) 45° Elbow BSP Swivel Nut

58 Series

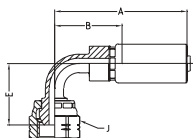


Part No. #	DN size mm inch				Connection Type		A mm	B mm	E mm	J mm
	Thread Size	Tube OD								
1B158-4-4	6	-04	6.4	1/4	G 1/4	1/4	73	41	16	19
1B158-6-5	8	-05	7.9	5/16	G 3/8	3/8	74	42	16	22
1B158-6-6	10	-06	9.5	3/8	G 3/8	3/8	81	45	17	22
1B158-8-8	12	-08	12.7	1/2	G 1/2	1/2	91	49	20	27
1B158-10-8	12	-08	12.7	1/2	G 5/8	5/8	89	48	19	30
1B158-12-12	20	-12	19.0	3/4	G 3/4	3/4	107	61	25	32
1B158-16-16	25	-16	25.4	1	G 1	1	131	71	29	41

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1B258 – Sealing Head (60°) 90° Elbow BSP Swivel Nut

58 Series

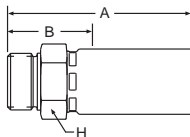


Part No. #	DN size mm inch				Connection Type		A mm	B mm	E mm	J mm
	Thread Size	Tube OD								
1B258-4-4	6	-04	6.4	1/4	G 1/4	1/4	64	32	28	19
1B258-6-5	8	-05	7.9	5/16	G 3/8	3/8	65	33	30	22
1B258-6-6	10	-06	9.5	3/8	G 3/8	3/8	73	36	33	22
1B258-8-8	12	-08	12.7	1/2	G 1/2	1/2	82	41	40	27
1B258-10-8	12	-08	12.7	1/2	G 5/8	5/8	82	41	38	30
1B258-12-12	20	-12	19.0	3/4	G 3/4	3/4	100	54	53	32
1B258-16-16	25	-16	25.4	1	G 1	1	127	67	65	41

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1D958 – BSP Male DIN 3852 Shape A

58 Series

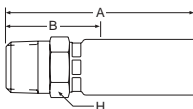


Part No. #	DN size mm inch		Connection Type					
	mm	inch	Thread Size	Tube OD	A mm	B mm	H mm	
1D958-4-4	6	-04	6.4 1/4	G 1/4	1/4	58	26	19
1D958-6-5	8	-05	7.9 5/16	G 3/8	3/8	59	27	22
1D958-6-6	10	-06	9.5 3/8	G 3/8	3/8	64	27	22
1D958-8-8	12	-08	12.7 1/2	G 1/2	1/2	72	31	27
1D958-12-12	20	-12	19.0 3/4	G 3/4	3/4	80	34	32
1D958-16-16	25	-16	25.4 1	G 1	1	95	35	41

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

10158 – NPTF Male - 60° Cone

58 Series

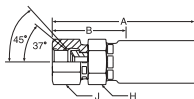


Part No. #	DN size mm inch		Connection Type					
	mm	inch	Thread Size	Tube OD	A mm	B mm	H mm	
10158-2-2	3	-02	3.2 1/8	1/8 - 27NPTF	1/8	35	18	13
10158-2-3	5	-03	4.8 3/16	1/8 - 27NPTF	1/8	51	26	14
10158-4-3	5	-03	4.8 3/16	1/4 - 18NPTF	1/4	55	30	17
10158-6-3	5	-03	4.8 3/16	3/8 - 18NPTF	3/8	54	29	19
10158-2-4	6	-04	6.4 1/4	1/8 - 27NPTF	1/8	54	22	17
10158-4-4	6	-04	6.4 1/4	1/4 - 18NPTF	1/4	62	30	17
10158-6-4	6	-04	6.4 1/4	3/8 - 18NPTF	3/8	61	29	19
10158-4-5	8	-05	7.9 5/16	1/4 - 18NPTF	1/4	59	27	17
10158-6-5	8	-05	7.9 5/16	3/8 - 18NPTF	3/8	61	29	19
10158-4-6	10	-06	9.5 3/8	1/4 - 18NPTF	1/4	66	30	19
10158-6-6	10	-06	9.5 3/8	3/8 - 18NPTF	3/8	70	33	19
10158-8-6	10	-06	9.5 3/8	1/2 - 14NPTF	1/2	77	40	27
10158-6-8	12	-08	12.7 1/2	3/8 - 18NPTF	3/8	71	30	22
10158-8-8	12	-08	12.7 1/2	1/2 - 14NPTF	1/2	77	36	27
10158-12-12	20	-12	19.0 3/4	3/4 - 14NPTF	3/4	82	36	30
10158-16-16	25	-16	25.4 1	1 - 11 1/2NPTF	1	104	44	41

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Hose Fittings
58 Series

10658 – JIC - 37° Cone UNF Swivel Nut Material: Steel



58 Series

Part No. #	DN size		inch		Connection Type					
	mm	inch	Thread Size	Tube OD	A mm	B mm	H mm	J mm		
10658-3-2	3	-02	3.2	1/8	3/8 - 24UNF	3/16	33	16	13	14
10658-4-2	3	-02	3.2	1/8	7/16 - 20UNF	1/4	33	16	13	17
10658-4-3	5	-03	4.8	3/16	7/16 - 20UNF	1/4	55	30	16	17
10658-5-3	5	-03	4.8	3/16	1/2 - 20UNF	5/16	57	32	16	17
10658-4-4	6	-04	6.4	1/4	7/16 - 20UNF	1/4	65	33	17	17
10658-5-4	6	-04	6.4	1/4	1/2 - 20UNF	5/16	65	33	16	17
10658-6-4	6	-04	6.4	1/4	9/16 - 18UNF	3/8	67	35	17	19
10658-5-5	8	-05	7.9	5/16	1/2 - 20UNF	5/16	65	33	16	17
10658-6-5	8	-05	7.9	5/16	9/16 - 18UNF	3/8	65	33	16	19
10658-6-6	10	-06	9.5	3/8	9/16 - 18UNF	3/8	69	33	19	19
10658-8-6	10	-06	9.5	3/8	3/4 - 16UNF	1/2	72	35	19	24
10658-6-8	12	-08	12.7	1/2	9/16 - 18UNF	3/8	76	35	22	19
10658-8-8	12	-08	12.7	1/2	3/4 - 16UNF	1/2	79	38	22	22
10658-10-8	12	-08	12.7	1/2	7/8 - 14UNF	5/8	82	41	22	27
10658-12-8	12	-08	12.7	1/2	1 1/16 - 12UNF	3/4	83	42	27	32
10658-12-12	20	-12	19.0	3/4	1 1/16 - 12UNF	3/4	88	42	30	32
10658-16-12	20	-12	19.0	3/4	1 5/16 - 12UNF	1	90	44	36	38
10658-16-16	25	-16	25.4	1	1 5/16 - 12UNF	1	104	44	36	38

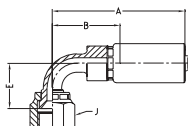
Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Material: Stainless Steel

Part No. #	DN size		inch		Connection Type					
	mm	inch	Thread Size	Tube OD	A mm	B mm	H mm	J mm		
10658-4-3C	5	-03	4.8	3/16	7/16 - 20UNF	1/4	55	30	16	17
10658-4-4C	6	-04	6.4	1/4	7/16 - 20UNF	1/4	65	33	17	17
10658-6-5C	8	-05	7.9	5/16	9/16 - 18UNF	3/8	65	33	16	19
10658-6-6C	10	-06	9.5	3/8	9/16 - 18UNF	3/8	69	33	19	19
10658-8-6C	10	-06	9.5	3/8	3/4 - 16UNF	1/2	72	35	19	24
10658-8-8C	12	-08	12.7	1/2	3/4 - 16UNF	1/2	79	38	22	22
10658-10-8C	12	-08	12.7	1/2	7/8 - 14UNF	5/8	82	41	22	27
10658-12-12C	20	-12	19.0	3/4	1 1/16 - 12UNF	3/4	88	42	30	32
10658-16-16C	25	-16	25.4	1	1 5/16 - 12UNF	1	104	44	36	38

Material: Stainless Steel (AISI 316)

13958 – JIC - 37° Cone 90° Elbow UNF Swivel Nut

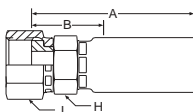


58 Series

Part No. #	DN size		mm		inch		Connection Type					
	mm	inch	mm	inch	Thread Size	Tube OD	A mm	B mm	E mm	H mm		
13958-4-3-SM	5	-03	4.8	3/16	7/16 - 20UNF	1/4	55	30	21	17		
13958-4-4-SM	6	-04	6.4	1/4	7/16 - 20UNF	1/4	64	32	21	17		
13958-5-4-SM	6	-04	6.4	1/4	1/2 - 20UNF	5/16	64	32	25	17		
13958-6-4-SM	6	-04	6.4	1/4	9/16 - 18UNF	3/8	64	32	22	19		
13958-6-5-SM	8	-05	7.9	5/16	9/16 - 18UNF	3/8	65	33	22	19		
13958-6-6-SM	10	-06	9.5	3/8	9/16 - 18UNF	3/8	73	36	28	19		
13958-8-6-SM	10	-06	9.5	3/8	3/4 - 16UNF	1/2	71	34	29	22		
13958-8-8-SM	12	-08	12.7	1/2	3/4 - 16UNF	1/2	77	36	29	22		
13958-10-8-SM	12	-08	12.7	1/2	7/8 - 14UNF	5/8	77	36	32	27		
13958-12-12-SM	20	-12	19.0	3/4	1 1/16 - 12UNF	3/4	97	51	46	32		
13958-16-16-SM	25	-16	25.4	1	1 5/16 - 12UNF	1	121	61	55	41		

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1JC58 – O-Lok® ORFS (Short Version) UNF Swivel Nut ISO 12151-1



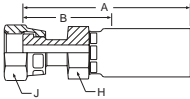
58 Series

Part No. #	DN size		mm		inch		Connection Type					
	mm	inch	mm	inch	Thread Size	Tube OD	A mm	B mm	H mm	J mm		
1JC58-4-3-SM	5	-03	4.8	3/16	9/16 - 18UNF	1/4	47	22	17	17		
1JC58-4-4-SM	6	-04	6.4	1/4	9/16 - 18UNF	1/4	53	22	17	17		
1JC58-6-4-SM	6	-04	6.4	1/4	11/16 - 16UNF	3/8	59	27	19	22		
1JC58-4-5-SM	8	-05	7.9	5/16	9/16 - 18UNF	1/4	53	22	17	17		
1JC58-6-5-SM	8	-05	7.9	5/16	11/16 - 16UNF	3/8	56	25	19	22		
1JC58-6-6-SM	10	-06	9.5	3/8	11/16 - 16UNF	3/8	61	25	19	22		
1JC58-8-6-SM	10	-06	9.5	3/8	13/16 - 16UNF	1/2	63	27	22	24		
1JC58-8-8-SM	12	-08	12.7	1/2	13/16 - 16UNF	1/2	69	27	24	24		
1JC58-10-8-SM	12	-08	12.7	1/2	1 - 14UNF	5/8	73	32	30	30		
1JC58-12-12-SM	20	-12	19.0	3/4	1 3/16 - 12UNF	3/4	79	33	32	36		
1JC58-16-16-SM	25	-16	25.4	1	1 7/16 - 12UNF	1	96	36	36	41		

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Hose Fittings
58 Series

1JS58 – O-Lok® ORFS
UNF Swivel Nut
ISO 12151-1

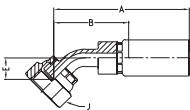


58 Series

Part No. #	DN size mm inch		Connection Type		A mm	B mm	H mm	J mm		
	mm	inch	Thread Size	Tube OD						
1JS58-4-3-SM	5	-03	4.8	3/16	9/16 - 18UNF	1/4	60	35	17	17
1JS58-4-4-SM	6	-04	6.4	1/4	9/16 - 18UNF	1/4	67	35	17	17
1JS58-6-4-SM	6	-04	6.4	1/4	11/16 - 16UNF	3/8	66	35	19	22
1JS58-4-5-SM	8	-05	7.9	5/16	9/16 - 18UNF	1/4	67	35	17	17
1JS58-6-5-SM	8	-05	7.9	5/16	11/16 - 16UNF	3/8	66	35	19	22
1JS58-6-6-SM	10	-06	9.5	3/8	11/16 - 16UNF	3/8	71	35	19	22
1JS58-8-6-SM	10	-06	9.5	3/8	13/16 - 16UNF	1/2	75	38	22	24
1JS58-8-8-SM	12	-08	12.7	1/2	13/16 - 16UNF	1/2	80	38	22	24
1JS58-10-10-SM	16	-10	15.9	5/8	1 - 14UNF	5/8	90	44	30	30
1JS58-12-12-SM	20	-12	19.0	3/4	1 3/16 - 12UNF	3/4	94	48	32	36
1JS58-16-16-SM	25	-16	25.4	1	1 7/16 - 12UNF	1	112	52	36	41

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1J758 – O-Lok® ORFS 45° Elbow
UNF Swivel Nut
ISO 12151-1



58 Series

Part No. #	DN size mm inch		Connection Type		A mm	B mm	E mm	J mm		
	mm	inch	Thread Size	Tube OD						
1J758-4-4	6	-04	6.4	1/4	9/16 - 18UNF	5/16	71	39	10	17
1J758-6-4	6	-04	6.4	1/4	11/16 - 16UNF	3/8	73	41	12	22
1J758-6-6	10	-06	9.5	3/8	11/16 - 16UNF	3/8	78	41	14	22
1J758-8-6	10	-06	9.5	3/8	13/16 - 16UNF	1/2	78	42	14	24
1J758-8-8	12	-08	12.7	1/2	13/16 - 16UNF	1/2	83	42	12	24
1J758-12-12	20	-12	19.0	3/4	1 3/16 - 12UNF	3/4	103	57	21	36
1J758-16-16	25	-16	25.4	1	1 7/16 - 12UNF	1	130	70	26	41

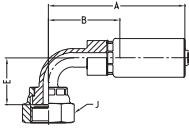
Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1J958 – O-Lok® ORFS 90° Elbow

UNF Swivel Nut

ISO 12151-1

58 Series



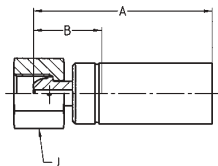
Part No. #	DN size		mm		inch		Connection Type			
	mm	inch	mm	inch	Thread Size	Tube OD	A mm	B mm	E mm	J mm
1J958-4-4	6	-04	6.4	1/4	9/16 - 18UNF	5/16	67	35	21	17
1J958-6-4	6	-04	6.4	1/4	11/16 - 16UNF	3/8	68	36	23	22
1J958-6-5	8	-05	7.9	5/16	11/16 - 16UNF	3/8	67	35	23	22
1J958-6-6	10	-06	9.5	3/8	11/16 - 16UNF	3/8	72	36	29	22
1J958-8-8	12	-08	12.7	1/2	13/16 - 16UNF	1/2	82	41	29	24
1J958-12-12	20	-12	19.0	3/4	1 3/16 - 12UNF	3/4	100	54	47	36
1J958-16-16	25	-16	25.4	1	1 7/16 - 12UNF	1	128	68	64	41

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request





Hose Fittings
5X Series

1C35X – Sealing Head Light Series – Metric Swivel Nut

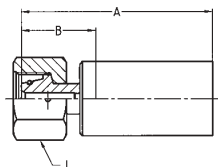


5X Series



Part No.	DN size mm inch				Connection Type	A mm	B mm	J mm
								
1C35X-8-03	5	-03	4.8	3/16	M14x1.5	64	25	22

Material: Special steel, other special materials available upon request

1C95X – 24° Sealing Cone / O-Ring Heavy Series – Metric Swivel Nut ISO 12151-2

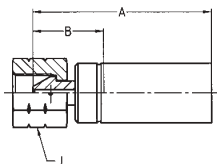


5X Series

Part No.	DN size mm inch				Connection Type	A mm	B mm	J mm
								
1C95X-12-05	8	-05	7.9	5/16	M20x1.5	72.0	28	27
1C95X-16-08	12	-08	12.7	1/2	M24x1.5	87.5	34	32
1C95X-25-12	20	-012	19.0	3/4	M36x2	92.0	39	46

Material: Special steel, other special materials available upon request

1AY5X – 59° Sealing Cone UNF Swivel Nut

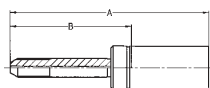


5X Series

Part No. #	DN size mm inch				Connection Type Thread Size	A mm	B mm	J mm
1AY5X-6-03	5	-03	4.8	3/16	9/16 - 18UNF	66	26	22
1AY5X-8-05	8	-05	7.9	5/16	3/4 - 16UNF	69	25	27
1AY5X-11-08	12	-08	12.7	1/2	1 - 12UNF	80	27	32
1AY5X-16-12	20	-012	19.0	3/4	1 5/16 - 12UNF	82	29	41

Material: Special steel, other special materials available upon request

1YA5X – High Pressure Connector 59° Cone UNF - Left Hand Thread



5X Series

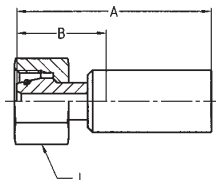
Part No. #	DN size mm inch				Connection Type Thread Size	A mm	B mm
1YA5X-1-025	4	-025	4.0	5/32	1/4 - 28UNF-LH	82	50
1YA5X-1-03	5	-03	4.8	3/16	1/4 - 28UNF-LH	92	53
1YA5X-3-03	5	-03	4.8	3/16	3/8 - 24UNF-LH	97	58
1YA5X-6-05	8	-05	7.9	5/16	9/16 - 18UNF-LH	104	60

Material: Special steel, other special materials available upon request



Hose Fittings
8X Series

1C98X – 24° Sealing Cone / O-Ring Heavy Series – Metric Swivel Nut ISO 12151-2

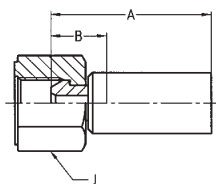


8X Series

Part No. #	DN size mm inch				Connection Type		A mm	B mm	J mm
	Thread Size	Tube OD							
1C98X-8-025	4	-025	4.0	5/32	M16x1.5	8	54	27	19
1C98X-8-04	6	-04	6.4	1/4	M16x1.5	8	59	27	19
1C98X-10-04	6	-04	6.4	1/4	M18x1.5	10	65	33	22
1C98X-12-06	10	-06	9.5	3/8	M20x1.5	12	70	30	24
1C98X-14-06	10	-06	9.5	3/8	M22x1.5	14	70	30	27
1C98X-16-08	12	-08	12.7	1/2	M24x1.5	16	78	35	30

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1928X – Sealing Head (60°) BSP Swivel Nut



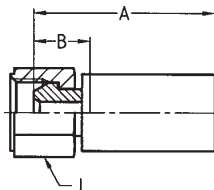
8X Series

Part No. #	DN size mm inch				Connection Type		A mm	B mm	J mm
	Thread Size	Tube OD							
1928X-4-025	4	-025	4.0	5/32	G 1/4	4	48	20	19
1928X-4-04	6	-04	6.4	1/4	G 1/4	4	56	25	19
1928X-6-06	10	-06	9.5	3/8	G 3/8	6	59	19	22
1928X-8-06	10	-06	9.5	3/8	G 1/2	8	60	20	27
1928X-8-08	12	-08	12.7	1/2	G 1/2	8	63	20	27

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1U08X – Sealing Head (60°)

BSP Swivel Nut
 Nipple: Steel



8X Series

Part No. #	DN size mm inch		Connection Type		A mm	B mm	J mm	
			Thread Size					
1U08X-4-04	6	-04	6.4	1/4	G 1/4	58	27	19
1U08X-6-04	6	-04	6.4	1/4	G 3/8	58	27	27
1U08X-6-05	8	-05	7.9	5/16	G 3/8	59	19	19
1U08X-6-06	10	-06	9.5	3/8	G 3/8	61	20	22
1U08X-8-06	10	-06	9.5	3/8	G 1/2	61	20	27
1U08X-8-08	12	-08	12.7	1/2	G 1/2	63	22	27

Material: Steel, surface protection according to DIN 50 961 Fe/Zn

Nipple: Stainless Steel

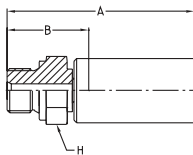
Part No. #	DN size mm inch		Connection Type		A mm	B mm	J mm	
			Thread Size					
1U08X-4-04 C2W	6	-04	6.4	1/4	G 1/4	58	27	19
1U08X-6-04 C2W	6	-04	6.4	1/4	G 3/8	58	27	27
1U08X-6-05 C2W	8	-05	7.9	5/16	G 3/8	59	19	19
1U08X-6-06 C2W	10	-06	9.5	3/8	G 3/8	61	20	22
1U08X-8-06 C2W	10	-06	9.5	3/8	G 1/2	61	20	27
1U08X-8-08 C2W	12	-08	12.7	1/2	G 1/2	63	22	27

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, stainless steel nipple (material 1.4301)



1D98X – BSP Male

DIN 3852 Shape A



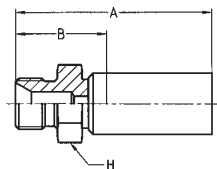
8X Series

Part No. #	DN size mm inch		Connection Type		A mm	B mm	J mm	
			Thread Size					
1D98X-4-04	6	-04	6.4	1/4	G 1/4	67	35	19
1D98X-6-05	8	-05	7.9	5/16	G 3/8	70	31	22

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Hose Fittings
8X Series

13B8X – BSP Male - 60° Cone

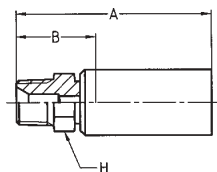


8X Series

Part No. #	DN size		mm		inch		Connection Type		A mm	B mm	J mm
	mm	inch	mm	inch	Thread Size	Thread Size					
13B8X-4-025	4	-025	4.0	5/32	G 1/4				57	30	17
13B8X-4-04	6	-04	6.4	1/4	G 1/4				64	32	17
13B8X-6-04	6	-04	6.4	1/4	G 3/8				67	35	19
13B8X-6-05	8	-05	7.9	5/16	G 3/8				69	30	22
13B8X-6-06	10	-06	9.5	3/8	G 3/8				70	30	22
13B8X-8-06	10	-06	9.5	3/8	G 1/2				75	35	22
13B8X-8-08	12	-08	12.7	1/2	G 1/2				79	36	24

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1018X – NPTF Male - 60° Cone

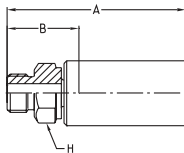


8X Series

Part No. #	DN size		mm		inch		Connection Type			
	mm	inch	mm	inch	Thread Size	Tube OD	A mm	B mm	H mm	
1018X-2-025	4	-025	4.0	5/32	1/8 - 27NPTF	2	51	24	8	
1018X-4-025	4	-025	4.0	5/32	1/4 - 18NPTF	4	59	32	13	
1018X-4-04	6	-04	6.4	1/4	1/4 - 18NPTF	4	65	33	14	
1018X-6-04	6	-04	6.4	1/4	3/8 - 18NPTF	6	67	35	19	
1018X-6-05	8	-05	7.9	5/16	3/8 - 18NPTF	6	70	30	19	
1018X-6-06	10	-06	9.5	3/8	3/8 - 18NPTF	6	71	31	19	
1018X-8-06	10	-06	9.5	3/8	1/2 - 14NPTF	8	76	36	22	
1018X-8-08	12	-08	12.7	1/2	1/2 - 14NPTF	8	79	36	22	

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1058X – UNF Male / O-Ring

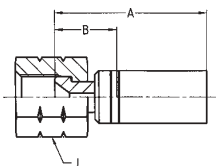


8X Series

Part No. #	DN size mm inch				Connection Type		A mm	B mm	J mm
	6	-04	6.4	1/4	Thread Size	Tube OD			
1058X-4-04	6	-04	6.4	1/4	7/16 - 20 UNF	1/4	61	29	14
1058X-6-04	6	-04	6.4	1/4	9/16 - 18 UNF	3/8	62	30	17

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1068X – JIC - 37° Cone UNF Swivel Nut



8X Series

Part No. #	DN size mm inch				Connection Type		A mm	B mm	J mm
	6	-04	6.4	1/4	Thread Size	Tube OD			
1068X-4-04	6	-04	6.4	1/4	7/16 - 20UNF	57	26	19	
1068X-5-04	6	-04	6.4	1/4	1/2 - 20UNF	55	24	19	
1068X-6-04	6	-04	6.4	1/4	9/16 - 18UNF	55	24	19	
1068X-6-05	8	-05	7.9	5/16	9/16 - 18UNF	56	16	19	
1068X-8-05	8	-05	7.9	5/16	3/4 - 16UNF	58	18	24	
1068X-10-08	12	-08	12.7	1/2	7/8 - 16UNF	63	19	27	

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

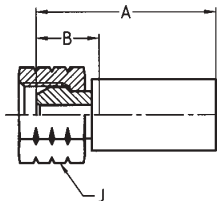


Hose Fittings
8X Series



1078X – 60° Sealing Cone

NPSM Swivel Nut

Nipple: Steel





8X Series

Part No. #	DN size mm inch				Connection Type	A mm	B mm	J mm
					Thread Size 			
1078X-4-04	6	-04	6.4	1/4	1/4 - 18NPSM	59	28	19
1078X-6-05	8	-05	7.9	5/16	3/8 - 18NPSM	60	21	22
1078X-6-06	10	-06	9.5	3/8	3/8 - 18NPSM	62	21	22
1078X-8-08	12	-08	12.7	1/2	1/2 - 14NPSM	64	20	27

Material: Steel, surface protection according to DIN 50 961 Fe/Zn

Nipple: Stainless Steel

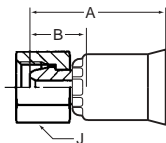
Part No. #	DN size mm inch				Connection Type	A mm	B mm	J mm
					Thread Size 			
1078X-4-04 C2W	6	-04	6.4	1/4	1/4 - 18NPSM	59	28	19
1078X-6-05 C2W	8	-05	7.9	5/16	3/8 - 18NPSM	60	21	22
1078X-6-06 C2W	10	-06	9.5	3/8	3/8 - 18NPSM	62	21	22
1078X-8-08 C2W	12	-08	12.7	1/2	1/2 - 14NPSM	64	20	27

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, stainless steel nipple (material 1.4301)

1C391N – Sealing Head

Light Series – Metric Swivel Nut

Material: Steel



91N Series

Part No. #	DN size			Connection Type					
	mm	inch		Thread Size	Tube OD	A mm	B mm	J mm	
1C391N-6-4-RD	5	-04	4.8	3/16	M12x1.5	6	29	14	14
1C391N-6-5-RD	6	-05	6.4	1/4	M12x1.5	6	30	14	14
1C391N-8-5-RD	6	-05	6.4	1/4	M14x1.5	8	31	14	17
1C391N-8-6-RD	8	-06	7.9	5/16	M14x1.5	8	32	14	17
1C391N-10-6-RD	8	-06	7.9	5/16	M16x1.5	10	34	16	19
1C391N-10-8-RD	10	-08	10.3	13/32	M16x1.5	10	36	17	19
1C391N-12-8-RD	10	-08	10.3	13/32	M18x1.5	12	35	15	22
1C391N-12-10-RD	12	-10	12.7	1/2	M18x1.5	12	38	18	22
1C391N-15-10-RD	12	-10	12.7	1/2	M22x1.5	15	37	17	27
1C391N-18-10-RD	12	-10	12.7	1/2	M26x1.5	18	37	17	32
1C391N-18-12-RD	16	-12	15.9	5/8	M26x1.5	18	40	17	32
1C391N-22-16-RD	22	-16	22.2	7/8	M30x2	22	49	22	36
1C391-28-20-RD	28	-20	28.6	1 1/8	M36x2	28	54	29	41

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Material: Stainless Steel



Part No. #	DN size			Connection Type					
	mm	inch		Thread Size	Tube OD	A mm	B mm	J mm	
1C391N-6-4C-RD	5	-04	4.8	3/16	M12x1.5	6	29	14	14
1C391N-6-5C-RD	6	-05	6.4	1/4	M12x1.5	6	30	14	14
1C391N-8-5C-RD	6	-05	6.4	1/4	M14x1.5	8	31	14	17
1C391N-8-6C-RD	8	-06	7.9	5/16	M14x1.5	8	32	14	17
1C391N-10-6C-RD	8	-06	7.9	5/16	M16x1.5	10	34	16	19
1C391N-10-8C-RD	10	-08	10.3	13/32	M16x1.5	10	36	17	19
1C391N-12-8C-RD	10	-08	10.3	13/32	M18x1.5	12	35	15	22
1C391N-12-10C-RD	12	-10	12.7	1/2	M18x1.5	12	38	18	22
1C391N-15-10C-RD	12	-10	12.7	1/2	M22x1.5	15	37	17	27
1C391N-18-10C-RD	12	-10	12.7	1/2	M26x1.5	18	37	17	32
1C391N-18-12C-RD	16	-12	15.9	5/8	M26x1.5	18	40	17	32
1C391N-22-16C-RD	22	-16	22.2	7/8	M30x2	22	49	22	36
1C391-28-20C-RD	28	-20	28.6	1 1/8	M36x2	28	54	29	41

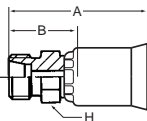
Material: Stainless Steel

1D091N – Metric Male 24° Cone

Light Series

ISO 12151-2

Material: Steel



91N Series

Part No. #	DN size		mm		inch		Connection Type			
	mm	inch	mm	inch	Thread Size	Tube OD	A mm	B mm	H mm	
1D091N-6-4	5	-04	4.8	3/16	M12x1.5	6	31	16	12	
1D091N-8-5	6	-05	6.4	1/4	M14x1.5	8	33	16	14	
1D091N-8-6	8	-06	7.9	5/16	M14x1.5	8	34	16	14	
1D091N-10-6	8	-06	7.9	5/16	M16x1.5	10	35	17	17	
1D091N-10-8	10	-08	10.3	13/32	M16x1.5	10	39	19	17	
1D091N-12-8	10	-08	10.3	13/32	M18x1.5	12	39	19	19	
1D091N-12-10	12	-10	12.7	1/2	M18x1.5	12	41	20	19	
1D091N-15-10	12	-10	12.7	1/2	M22x1.5	15	42	21	22	
1D091N-18-12	16	-12	15.9	5/8	M26x1.5	18	46	23	27	
1D091N-22-16	22	-16	22.2	7/8	M30x2	22	54	27	30	
1D091N-28-20	28	-20	28.6	1 1/8	M36x2	28	57	32	36	

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Material: Stainless Steel

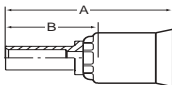
Part No. #	DN size		mm		inch		Connection Type			
	mm	inch	mm	inch	Thread Size	Tube OD	A mm	B mm	H mm	
1D091N-6-4C	5	-04	4.8	3/16	M12x1.5	6	31	16	12	
1D091N-8-5C	6	-05	6.4	1/4	M14x1.5	8	33	16	14	
1D091N-8-6C	8	-06	7.9	5/16	M14x1.5	8	34	16	14	
1D091N-10-6C	8	-06	7.9	5/16	M16x1.5	10	35	17	17	
1D091N-10-8C	10	-08	10.3	13/32	M16x1.5	10	39	19	17	
1D091N-12-8C	10	-08	10.3	13/32	M18x1.5	12	39	19	19	
1D091N-12-10C	12	-10	12.7	1/2	M18x1.5	12	41	20	19	
1D091N-15-10C	12	-10	12.7	1/2	M22x1.5	15	42	21	22	
1D091N-18-12C	16	-12	15.9	5/8	M26x1.5	18	46	23	27	
1D091N-22-16C	22	-16	22.2	7/8	M30x2	22	54	27	30	
1D091N-28-20C	28	-20	28.6	1 1/8	M36x2	28	57	32	36	

Material: Stainless Steel

11D91N – Metric Standpipe

Light Series

Material: Steel



91N Series

Part No. #	DN size mm inch				Tube OD	A mm	B mm
11D91N-6-4	5	-04	4.8	3/16	6	44	29
11D91N-6-5	6	-05	6.4	1/4	6	43	26
11D91N-8-5	6	-05	6.4	1/4	8	47	30
11D91N-8-6	8	-06	7.9	5/16	8	46	28
11D91N-10-6	8	-06	7.9	5/16	10	45	27
11D91N-10-8	10	-08	10.3	13/32	10	47	27
11D91N-12-8	10	-08	10.3	13/32	12	53	34
11D91N-12-10	12	-10	12.7	1/2	12	47	27
11D91N-15-10	12	-10	12.7	1/2	15	49	29
11D91N-18-10	12	-10	12.7	1/2	18	50	30
11D91N-18-12	16	-12	15.9	5/8	18	53	30
11D91N-22-16	22	-16	22.2	7/8	22	60	33
11D91N-28-20	28	-20	28.6	1 1/8	28	67	42

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Material: Stainless Steel



Part No. #	DN size mm inch				Tube OD	A mm	B mm
11D91N-6-4C	5	-04	4.8	3/16	6	44	29
11D91N-6-5C	6	-05	6.4	1/4	6	43	26
11D91N-8-5C	6	-05	6.4	1/4	8	47	30
11D91N-8-6C	8	-06	7.9	5/16	8	46	28
11D91N-10-6C	8	-06	7.9	5/16	10	45	27
11D91N-10-8C	10	-08	10.3	13/32	10	47	27
11D91N-12-8C	10	-08	10.3	13/32	12	53	34
11D91N-12-10C	12	-10	12.7	1/2	12	47	27
11D91N-15-10C	12	-10	12.7	1/2	15	49	29
11D91N-18-10C	12	-10	12.7	1/2	18	50	30
11D91N-18-12C	16	-12	15.9	5/8	18	53	30
11D91N-22-16C	22	-16	22.2	7/8	22	60	33
11D91N-28-20C	28	-20	28.6	1 1/8	28	67	42

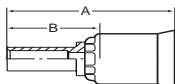
Material: Stainless Steel

Hose Fittings
91N Series

13D91N – Metric Standpipe

Heavy Series

Material: Steel



91N Series

Part No. #	DN size mm inch				Tube OD	A mm	B mm
13D91-6-3	3	-03	3.2	1/8	6	41	30
13D91N-8-4	5	-04	4.8	3/16	8	43	27
13D91N-10-5	6	-05	6.4	1/4	10	46	29
13D91N-12-6	8	-06	7.9	5/16	12	48	30
13D91N-14-8	10	-08	10.3	13/32	14	53	33
13D91N-16-10	12	-06	12.7	1/2	16	55	35
13D91N-20-12	16	-10	15.9	5/8	20	63	40
13D91N-25-16	22	-12	22.2	7/8	25	71	44
13D91N-30-16	22	-16	22.2	7/8	30	75	48

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Material: Stainless Steel

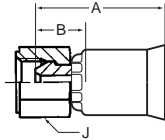
Part No. #	DN size mm inch				Tube OD	A mm	B mm
13D91-6-3C	3	-03	3.2	1/8	6	41	30
13D91N-8-4C	5	-04	4.8	3/16	8	43	27
13D91N-10-5C	6	-05	6.4	1/4	10	46	29
13D91N-12-6C	8	-06	7.9	5/16	12	48	30
13D91N-14-8C	10	-08	10.3	13/32	14	53	33
13D91N-16-10C	12	-06	12.7	1/2	16	55	35
13D91N-20-12C	16	-10	15.9	5/8	20	63	40
13D91N-25-16C	22	-12	22.2	7/8	25	71	44
13D91N-30-16C	22	-16	22.2	7/8	30	75	48

Material: Stainless Steel

19291N – Sealing Head (60°)

BSP Swivel Nut

Material: Steel



91N Series

Part No. #	DN size mm inch		Connection Type						
			Thread Size	Tube OD	A mm	B mm	J mm		
19291N-4-4-RD	5	-04	4.8	3/16	G 1/4	1/4	27	11	19
19291N-4-5-RD	6	-05	6.4	1/4	G 1/4	1/4	28	11	19
19291N-6-6-RD	8	-06	7.9	5/16	G 3/8	3/8	33	15	22
19291N-6-8-RD	10	-08	10.3	13/32	G 3/8	3/8	34	15	22
19291N-8-10-RD	12	-10	12.7	1/2	G 1/2	1/2	37	17	27
19291N-12-12-RD	16	-12	15.9	5/8	G 3/4	3/4	40	17	32
19291N-12-16-RD	22	-16	22.2	7/8	G 3/4	3/4	46	19	32

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Material: Stainless Steel

Part No. #	DN size mm inch		Connection Type						
			Thread Size	Tube OD	A mm	B mm	J mm		
19291N-4-4C-RD	5	-04	4.8	3/16	G 1/4	1/4	27	11	19
19291N-4-5C-RD	6	-05	6.4	1/4	G 1/4	1/4	28	11	19
19291N-6-6C-RD	8	-06	7.9	5/16	G 3/8	3/8	33	15	22
19291N-6-8C-RD	10	-08	10.3	13/32	G 3/8	3/8	34	15	22
19291N-8-10C-RD	12	-10	12.7	1/2	G 1/2	1/2	37	17	27
19291N-12-12C-RD	16	-12	15.9	5/8	G 3/4	3/4	40	17	32
19291N-12-16C-RD	22	-16	22.2	7/8	G 3/4	3/4	46	19	32

Material: Stainless Steel

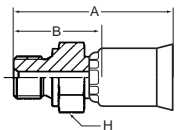


Hose Fittings
91N Series

1D991N – BSP Male

DIN 3852 Shape A

Material: Steel



91N Series

Part No. #	DN size mm inch		Connection Type						
			Thread Size	Tube OD	A mm	B mm	H mm		
1D991N-4-4	5	-04	4.8	3/16	G 1/4	1/4	38	23	19
1D991N-4-5	6	-05	6.4	1/4	G 1/4	1/4	38	22	19
1D991N-6-6	8	-06	7.9	5/16	G 3/8	3/8	40	22	22
1D991N-6-8	10	-08	10.3	13/32	G 3/8	3/8	41	21	22
1D991N-8-10	12	-10	12.7	1/2	G 1/2	1/2	47	27	27
1D991N-12-12	16	-12	15.9	5/8	G 3/4	3/4	51	28	32
1D991N-12-16	22	-16	22.2	7/8	G 3/4	3/4	57	30	32

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

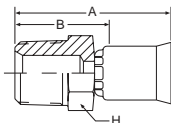
Material: Stainless Steel

Part No. #	DN size mm inch		Connection Type						
			Thread Size	Tube OD	A mm	B mm	H mm		
1D991N-4-4C	5	-04	4.8	3/16	G 1/4	1/4	38	23	19
1D991N-4-5C	6	-05	6.4	1/4	G 1/4	1/4	38	22	19
1D991N-6-6C	8	-06	7.9	5/16	G 3/8	3/8	40	22	22
1D991N-6-8C	10	-08	10.3	13/32	G 3/8	3/8	41	21	22
1D991N-8-10C	12	-10	12.7	1/2	G 1/2	1/2	47	27	27
1D991N-12-12C	16	-12	15.9	5/8	G 3/4	3/4	51	28	32
1D991N-12-16C	22	-16	22.2	7/8	G 3/4	3/4	57	30	32

Material: Stainless Steel

10191N – NPTF Male - 60° Cone

Nipple: Brass



91N Series

Part No. #	size 	Connection Type Thread Size 	A mm	B mm	H inch
10191N-2-4	-04	1/8 - 27NPTF	32	19	1/2
10191N-4-4	-04	1/4 - 18NPTF	38	24	1/2
10191N-4-5	-05	1/4 - 18NPTF	39	25	9/16
10191N-4-6	-06	1/4 - 18NPTF	41	24	5/8
10191N-6-6	-06	3/8 - 18NPTF	42	25	5/8
10191N-4-8	-08	1/4 - 18NPTF	50	30	7/8
10191N-6-8	-08	3/8 - 18NPTF	43	25	3/4
10191N-8-8	-08	1/2 - 14NPTF	49	32	3/4
10191N-8-10	-10	1/2 - 14NPTF	50	32	7/8
10191N-8-12	-12	1/2 - 14NPTF	61	38	1 1/8
10191N-12-12	-12	3/4 - 14NPTF	56	35	1
10191N-16-16	-16	1 - 11 1/2NPTF	60	38	1 3/8
10191N-20-20	-20	1 1/4 - 11 1/2NPTF	77	52	1 5/8

Material: Brass nipple, steel ferrule

Material: Stainless Steel

91N Series

Part No. #	size 	Connection Type Thread Size 	A mm	B mm	H inch
10191N-2-4C	-04	1/8 - 27NPTF	32	19	1/2
10191N-4-4C	-04	1/4 - 18NPTF	38	24	1/2
10191N-4-5C	-05	1/4 - 18NPTF	39	25	9/16
10191N-4-6C	-06	1/4 - 18NPTF	41	24	5/8
10191N-6-6C	-06	3/8 - 18NPTF	42	25	5/8
10191N-4-8C	-08	1/4 - 18NPTF	50	30	7/8
10191N-6-8C	-08	3/8 - 18NPTF	43	25	3/4
10191N-8-8C	-08	1/2 - 14NPTF	49	32	3/4
10191N-8-10C	-10	1/2 - 14NPTF	50	32	7/8
10191N-8-12C	-12	1/2 - 14NPTF	61	38	1 1/8
10191N-12-12C	-12	3/4 - 14NPTF	56	35	1
10191N-16-16C	-16	1 - 11 1/2NPTF	60	38	1 3/8
10191N-20-20C	-20	1 1/4 - 11 1/2NPTF	77	52	1 5/8

Material: Stainless steel (AISI 300 series)

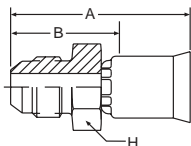


Hose Fittings
91N Series

10391N – JIC Male

37° Cone

91N Series



Part No. #	size	Connection Type		A mm	B mm	H inch
		Thread Size				
10391N-6-6	-06	9/16 - 18UNF		42	25	11/16
10391N-8-6	-06	3/4 - 16UNF		44	27	7/8

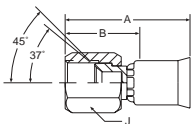
Werkstoff: Nippel aus Messing, Hülse aus Edelstahl

10691N-RD – JIC - 37° Cone

UNF Swivel Nut

Nipple: Brass

91N Series



Part No. #	size	Connection Type				
		Thread Size	Tube OD	A mm	B mm	J inch
10691N-4-4-RD	-04	7/16 - 20UNF	1/4	34	21	9/16
10691N-5-5-RD	-05	1/2 - 20UNF	5/16	38	22	5/8
10691N-6-6-RD	-06	9/16 - 18UNF	3/8	41	24	11/16
10691N-8-8-RD	-08	3/4 - 16UNF	1/2	45	27	7/8
10691N-10-10-RD	-10	7/8 - 14UNF	5/8	49	30	1
10691N-12-12-RD	-12	1 1/16 - 12UNF	3/4	53	33	1 1/4
10691N-16-16-RD	-16	1 5/16 - 12UNF	1	58	33	1 1/2

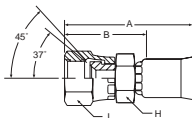
Material: Brass nipple, steel ferrule and swivel nut
RD series without hexagonal ferrule

Material: Stainless Steel

Part No. #	size	Connection Type				
		Thread Size	Tube OD	A mm	B mm	J inch
10691N-4-4C-RD	-04	7/16 - 20UNF	1/4	34	21	9/16
10691N-5-5C-RD	-05	1/2 - 20UNF	5/16	38	22	5/8
10691N-6-6C-RD	-06	9/16 - 18UNF	3/8	41	24	11/16
10691N-8-8C-RD	-08	3/4 - 16UNF	1/2	45	27	7/8
10691N-10-10C-RD	-10	7/8 - 14UNF	5/8	49	30	1
10691N-12-12C-RD	-12	1 1/16 - 12UNF	3/4	53	33	1 1/4
10691N-16-16C-RD	-16	1 5/16 - 12UNF	1	58	33	1 1/2

Material: Stainless steel (AISI 300 series)
RD Series without hexagonal ferrule

10691N – JIC - 37° Cone UNF Swivel Nut Nipple: Brass



91N Series

Part No. #	size	Connection Type		A mm	B mm	H inch	J inch
		Thread Size	Tube OD				
10691N-4-4	-04	7/16 - 20UNF	1/4	36	22	3/8	9/16
10691N-5-5	-05	1/2 - 20UNF	5/16	40	24	7/16	5/8
10691N-6-6	-06	9/16 - 18UNF	3/8	41	25	1/2	11/16
10691N-8-8	-08	3/4 - 16UNF	1/2	48	30	11/16	7/8
10691N-10-10	-10	7/8 - 14UNF	5/8	52	33	13/16	1
10691N-12-12	-12	1 1/16 - 12UNF	3/4	54	33	1	1 1/4
10691N-16-16	-16	1 5/16 - 12UNF	1	62	40	1 1/4	1 1/2
10691N-20-20	-20	1 5/8 - 12UNF	1 1/4	76	46	1 5/8	2

Material: Brass nipple, steel ferrule and swivel nut

Material: Stainless Steel

Part No. #	size	Connection Type		A mm	B mm	H inch	J inch
		Thread Size	Tube OD				
10691N-4-4C	-04	7/16 - 20UNF	1/4	36	22	3/8	9/16
10691N-5-5C	-05	1/2 - 20UNF	5/16	40	24	7/16	5/8
10691N-6-6C	-06	9/16 - 18UNF	3/8	41	25	1/2	11/16
10691N-8-8C	-08	3/4 - 16UNF	1/2	48	30	11/16	7/8
10691N-10-10C	-10	7/8 - 14UNF	5/8	52	33	13/16	1
10691N-12-12C	-12	1 1/16 - 12UNF	3/4	54	33	1	1 1/4
10691N-16-16C	-16	1 5/16 - 12UNF	1	62	40	1 1/4	1 1/2
10691N-20-20C	-20	1 5/8 - 12UNF	1 1/4	76	46	1 5/8	2

Material: Stainless Steel (Serie AISI 300)

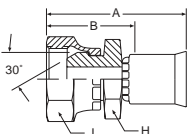


Hose Fittings
91N Series

10791N – 60° Sealing Cone

NPSM Swivel Nut

Nipple: Brass



91N Series

Part No. #	size	Connection Type					
		Thread Size	Tube OD	A mm	B mm	H inch	J inch
10791N-4-4	-04	1/4 - 18NPSM	1/4	38	24	9/16	3/4
10791N-6-6	-06	3/8 - 18NPSM	3/8	42	25	5/8	7/8
10791N-8-8	-08	1/2 - 14NPSM	1/2	46	29	3/4	1
10791N-12-12	-12	3/4 - 14NPSM	3/4	53	33	1	1 1/4
10791N-16-16	-16	1 - 11 1/2NPSM	1	57	33	1 3/16	1 3/8

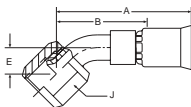
Material: Brass nipple, steel ferrule and swivel nut

Material: Stainless Steel

Part No. #	size	Connection Type					
		Thread Size	Tube OD	A mm	B mm	H inch	J inch
10791N-4-4C	-04	1/4 - 18NPSM	1/4	38	24	9/16	3/4
10791N-6-6C	-06	3/8 - 18NPSM	3/8	42	25	5/8	7/8
10791N-8-8C	-08	1/2 - 14NPSM	1/2	46	29	3/4	1
10791N-12-12C	-12	3/4 - 14NPSM	3/4	53	33	1	1 1/4
10791N-16-16C	-16	1 - 11 1/2NPSM	1	57	33	1 3/16	1 3/8

Material: All components stainless steel (AISI 300 series)

13791N – JIC - 37° Cone 45° Elbow UNF Swivel Nut

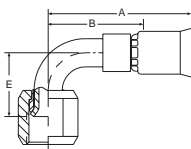


91N Series

Part No. #	size	Connection Type					
		Thread Size	Tube OD	A mm	B mm	E mm	J inch
13791N-4-4	-04	7/16 - 20UNF	1/4	44	29	8	9/16
13791N-5-5	-05	1/2 - 20UNF	5/16	50	30	9	5/8
13791N-6-6	-06	9/16 - 18UNF	3/8	51	32	14	11/16
13791N-8-8	-08	3/4 - 16UNF	1/2	59	41	14	7/8
13791N-10-10	-10	7/8 - 14UNF	5/8	65	49	16	1
13791N-12-12	-12	1 1/16 - 12UNF	3/4	72	52	20	1 1/4
13791N-16-16	-16	1 5/16 - 12UNF	1	80	57	23	1 1/2
13791N-20-20	-20	1 5/8 - 12UNF	1 1/4	87	64	28	2

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

13991N – JIC - 37° Cone 90° Elbow UNF Swivel Nut



91N Series

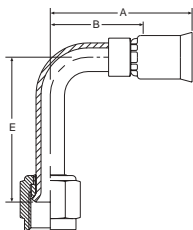
Part No. #	size	Connection Type					
		Thread Size	Tube OD	A mm	B mm	E mm	J inch
13991N-4-4	-04	7/16 - 20UNF	1/4	41	27	24	9/16
13991N-5-5	-05	1/2 - 20UNF	5/16	43	29	20	5/8
13991N-6-6	-06	9/16 - 18UNF	3/8	49	32	22	11/16
13991N-8-8	-08	3/8 - 16UNF	1/2	52	30	28	7/8
13991N-10-10	-10	7/8 - 14UNF	5/8	61	43	31	1
13991N-12-12	-12	1 1/16 - 12UNF	3/4	76	54	46	1 1/2
13991N-16-16	-16	1 5/16 - 12UNF	1	80	56	54	1 1/2

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request



Hose Fittings
91N Series

14191N – JIC - 37° Cone 90° Elbow (Long Drop Length) UNF Swivel Nut

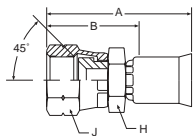


91N Series

Part No. #	size	Connection Type					
		Thread Size	Tube OD	A mm	B mm	E mm	J inch
14191N-4-4	-04	7/16 - 20UNF	1/4	39	25	46	9/16
14191N-5-5	-05	1/2 - 20UNF	5/16	42	25	45	5/8
14191N-6-6	-06	9/16 - 18UNF	3/8	50	32	55	11/16
14191N-8-8	-08	3/4 - 16UNF	1/2	54	37	62	7/8
14191N-10-10	-10	7/8 - 14UNF	5/8	75	44	65	1
14191N-12-12	-12	1 1/16 - 12UNF	3/4	78	56	95	1 1/4
14191N-16-16	-16	1 5/16 - 12UNF	1	92	67	110	1 1/2
14191N-20-20	-20	1 5/8 - 12UNF	1 1/4	102	75	134	2

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

10891N – SAE Male 45° Cone UNF Swivel Nut



91N Series

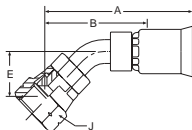
Part No. #	size	Connection Type					
		Thread Size	Tube OD	A mm	B mm	H inch	J inch
10891N-6-6	-06	5/8 - 18UNF	3/8	43	27	5/8	3/4
10891N-12-12	-12	1 1/16 - 14UNF	3/4	54	33	1	1 1/4

Material: Brass nipple, steel ferrule and swivel nut

17791N – SAE 45° Elbow

45° Cone

UNF Swivel Nut


91N Series

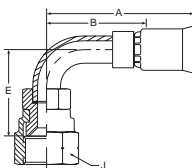
Part No.	size	Connection Type					
		Thread Size	Tube OD	A mm	B mm	E mm	J inch
#							
17791N-6-6	-06	5/8 - 18UNF	3/8	52	33	10	3/4
17791N-12-12	-12	1 1/16 - 14UNF	3/4	78	62	20	1 1/4

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

17991N – SAE 90° Elbow

45° Cone

UNF Swivel Nut


91N Series

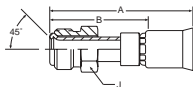
Part No.	size	Connection Type					
		Thread Size	Tube OD	A mm	B mm	E mm	J inch
#							
17991N-6-6	-06	5/8 - 18UNF	3/8	52	49	30	3/4
17991N-12-12	-12	1 1/16 - 14UNF	3/4	74	54	46	1 1/4

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request



Hose Fittings
91N Series

12891N – SAE 45° Cone UNF Male Swivel

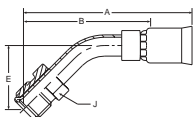


91N Series

Part No. #	size	Connection Type		A mm	B mm	J inch
		Thread Size	Tube OD			
12891N-4-4	-04	7/16 - 24UNF	1/4	53	38	7/16
12891N-5-5	-05	1/2 - 20UNF	5/16	55	40	1/2
12891N-5-6	-06	1/2 - 20UNF	3/8	57	40	1/2
12891N-6-6	-06	5/8 - 18UNF	3/8	57	40	5/8
12891N-8-8	-08	3/4 - 18UNF	1/2	59	41	3/4
12891N-10-10	-10	7/8 - 18UNF	5/8	62	44	7/8
12891N-12-12	-12	1 1/6 - 16UNF	3/4	64	43	1 1/16

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

16791N – SAE 45° Elbow 45° Cone UNF Male Swivel



91N Series

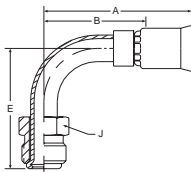
Part No. #	size	Connection Type		A mm	B mm	E mm	J inch
		Thread Size	Tube OD				
16791N-4-4	-04	7/16 - 24UNF	1/4	47	33	16	7/16
16791N-5-5	-05	1/2 - 20UNF	5/16	64	44	18	1/2
16791N-6-6	-06	5/8 - 18UNF	3/8	66	49	24	5/8
16791N-8-8	-08	3/4 - 18UNF	1/2	67	49	23	3/4
16791N-10-10	-10	7/8 - 18UNF	5/8	69	54	26	7/8
16791N-12-12	-12	1 1/16 - 16UNF	3/4	80	64	29	1 1/16





Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

16991N – SAE 90° Elbow

45° Cone

UNF Male Swivel


91N Series

Part No. #	size 	Connection Type		A mm	B mm	E mm	J inch 
		Thread Size 	Tube OD 				
16991N-4-4	-04	7/16 - 24UNF	1/4	39	24	30	7/16
16991N-5-5	-05	1/2 - 20UNF	5/16	49	33	42	1/2
16991N-5-6	-06	1/2 - 20UNF	3/8	51	35	42	1/2
16991N-6-6	-06	5/8 - 18UNF	3/8	53	37	43	5/8
16991N-8-8	-08	3/4 - 18UNF	1/2	56	40	47	3/4
16991N-10-10	-10	7/8 - 18UNF	5/8	60	46	55	7/8
16991N-12-12	-12	1 1/16 - 16UNF	3/4	73	52	64	1 1/16

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request



Hose Fittings
91N Series

1JC91N – O-Lok® ORFS

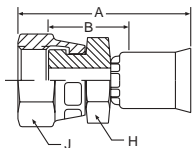
(Short Version)





UNF Swivel Nut

ISO 12151-1

Material: Steel





91N Series



Part No.	size	Connection Type Thread Size	A mm	B mm	H inch	J inch
#						
1JC91N-4-4	-04	9/16 - 18UNF	37	16	9/16	11/16
1JC91N-6-6	-06	11/16 - 16UNF	39	14	5/8	13/16
1JC91N-8-8	-08	13/16 - 16UNF	49	21	3/4	15/16
1JC91N-10-10	-10	1 - 14UNF	48	30	7/8	1 1/8
1JC91N-12-10	-10	1 3/16 - 12UNF	50	32	15/16	1 1/4
1JC91N-12-12	-12	1 3/16 - 12UNF	52	32	15/16	1 3/8
1JC91N-16-16	-16	1 7/16 - 12UNF	65	40	1.1	1 5/8
1JC91N-20-16	-16	1 11/16 - 12UNF	58	35	1 5/8	1 7/8
1JC91N-20-20	-20	1 11/16 - 12UNF	68	43	1 5/8	1 7/8

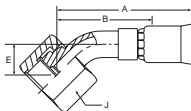
Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Material: Stainless Steel

Part No.	size	Connection Type Thread Size	A mm	B mm	H inch	J inch
#						
1JC91N-4-4C	-04	9/16 - 18UNF	37	16	9/16	11/16
1JC91N-6-6C	-06	11/16 - 16UNF	39	14	5/8	13/16
1JC91N-8-8C	-08	13/16 - 16UNF	49	21	3/4	15/16
1JC91N-10-10C	-10	1 - 14UNF	48	30	7/8	1 1/8
1JC91N-12-10C	-10	1 3/16 - 12UNF	50	32	15/16	1 1/4
1JC91N-12-12C	-12	1 3/16 - 12UNF	52	32	15/16	1 3/8
1JC91N-16-16C	-16	1 7/16 - 12UNF	65	40	1.1	1 5/8
1JC91N-20-16C	-16	1 11/16 - 12UNF	58	35	1 5/8	1 7/8
1JC91N-20-20C	-20	1 11/16 - 12UNF	68	43	1 5/8	1 7/8

Material: All components stainless steel (AISI 300 series)

1J791N – O-Lok® ORFS 45° Elbow UNF Swivel Nut – ISO 12151-1

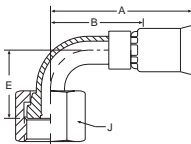


91N Series

Part No. #	size	Connection Type					
		Thread Size	Tube OD	A mm	B mm	E mm	J inch
1J791N-4-4	-04	9/16 - 18UNF	1/4	44	32	10	11/16
1J791N-4-6	-06	9/16 - 18UNF	3/8	49	33	10	11/16
1J791N-6-6	-06	11/16 - 16UNF	3/8	51	35	11	13/16
1J791N-8-8	-08	13/16 - 16UNF	1/2	55	38	15	15/16
1J791N-10-10	-10	1 - 14UNF	5/8	63	44	15	1 1/8
1J791N-12-12	-12	1 3/16 - 12UNF	3/4	70	49	21	1 3/8
1J791N-16-16	-16	1 7/16 - 12UNF	1	89	64	24	1 5/8

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1J991N – O-Lok® ORFS 90° Elbow UNF Swivel Nut – ISO 12151-1



91N Series

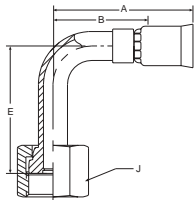
Part No. #	size	Connection Type					
		Thread Size	Tube OD	A mm	B mm	E mm	J inch
1J991N-4-4	-04	9/16 - 18UNF	1/4	45	32	21	11/16
1J991N-6-6	-06	11/16 - 16UNF	3/8	47	32	23	13/16
1J991N-8-8	-08	13/16 - 16UNF	1/2	53	35	29	15/16
1J991N-10-10	-10	1 - 14UNF	5/8	57	38	32	1 1/8
1J991N-12-12	-12	1 3/16 - 12UNF	3/4	67	48	47	1 3/8
1J991N-16-16	-16	1 7/16 - 12UNF	1	88	65	56	1 5/8
1J991N-20-20	-20	1 11/16 - 12UNF	1 1/4	99	73	64	1 7/8

Material: Nipple and ferrule: steel



Hose Fittings
91N Series

1J191N – O-Lok® ORFS 90° Elbow (Long Drop Length) – UNF Swivel Nut ISO 12151-1

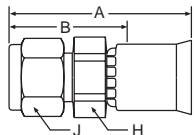


91N Series

Part No. #	size	Connection Type		A mm	B mm	E mm	J inch
		Thread Size	Tube OD				
1J191N-4-4	-04	9/16 - 18UNF	1/4	42	27	46	1 1/16
1J191N-4-5	-05	9/16 - 18UNF	5/16	45	27	46	1 1/16
1J191N-6-5	-05	11/16 - 16UNF	5/16	49	30	54	13/16
1J191N-6-6	-06	11/16 - 16UNF	3/8	49	30	54	13/16
1J191N-8-6	-06	13/16 - 16UNF	3/8	51	40	64	15/16
1J191N-8-8	-08	13/16 - 16UNF	1/2	55	37	64	15/16
1J191N-10-10	-10	1 - 14UNF	5/8	32	40	70	1 1/16
1J191N-12-12	-12	1 3/16 - 12UNF	3/4	67	46	96	1 3/8
1J191N-16-16	-16	1 7/16 - 12UNF	1	80	57	114	1 1/2

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1AL91N – A-Lok® - Connector with Nut and Ferrule



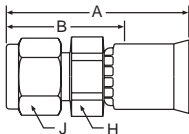
91N Series

Part No. #	size	Tube OD	A mm	B mm	H inch	J inch
1AL91N-4-4C	-04	1/4	33	11	1/2	9/16
1AL91N-4-5C	-05	5/16	25	11	1/2	9/16
1AL91N-6-6C	-06	3/8	39	13	5/8	1 1/16
1AL91N-8-8C	-08	1/2	41	11	13/16	7/8
1AL91N-12-12C	-12	3/4	47	13	1 1/8	1 1/8
1AL91N-16-16C	-16	1	54	11	1 3/8	1 1/2

Material: Nipple, swivel nut and ferrule stainless steel (AISI 316)
stainless steel shell (AISI 303)

1P691N – CPI® - Connector with Nut and Ferrule

91N Series

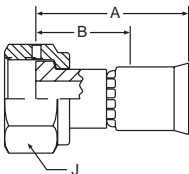


Part No.	size	Tube OD	A mm	B mm	H inch	J inch
#						
1P691N-4-4C	-04	1/4	33	11	1/2	9/16
1P691N-4-5C	-05	1/4	23	11	1/2	9/16
1P691N-6-6C	-06	3/8	39	13	5/8	11/16
1P691N-8-8C	-08	1/2	41	11	13/16	7/8
1P691N-12-12C	-12	3/4	47	13	1 1/8	1 1/8
1P691N-16-16C	-16	1	52	14	1 3/8	1 1/2

Material: Nipple, swivel nut and ferrule stainless steel (AISI 316)
stainless steel shell (AISI 303)

1Q191N – “Ultra Seal” - Connector UNF Swivel Nut

91N Series



Part No.	size	Connection Type				H inch
		Thread Size	Tube OD	A mm	B mm	
#						
1Q191N-4-4C	-04	9/16 - 20UNF	1/4	41	19	11/16
1Q191N-6-6C	-06	3/4 - 20UNF	3/8	46	22	7/8
1Q191N-8-8C	-08	7/8 - 20UNF	1/2	41	24	1
1Q191N-12-12C	-12	1 5/16 - 20UNF	3/4	49	29	1 1/2

Material: Nipple and swivel nut stainless steel (AISI 316)
stainless steel shell (AISI 303)

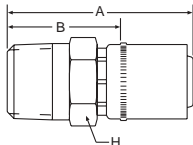


Hose Fittings
93N Series

10193N – NPTF Male - 60° Cone

Material: Steel

93N Series



Part No. #	DN size		mm		inch		Connection Type		A mm	B mm	H inch
	mm	inch	mm	inch	Thread Size	Thread Size					
10193N-8-8	12	-08	12,7	1/2	1/2 - 14NPTF	1/2 - 14NPTF	50	38	7/8		
10193N-8-10	16	-10	15,9	5/8	1/2 - 14NPTF	1/2 - 14NPTF	50	38	1		
10193N-12-12	20	-12	19,0	3/4	3/4 - 14NPTF	3/4 - 14NPTF	66	43	1 1/8		
10193N-16-16	25	-16	25,4	1	1 - 11 1/2NPTF	1 - 11 1/2NPTF	76	44	1 3/8		
10193N-20-20	32	-20	31,8	1 1/4	1 1/4 - 11 1/2NPTF	1 1/4 - 11 1/2NPTF	79	48	1 11/16		
10193N-24-24	40	-24	38,1	1 1/2	1 1/2 - 11 1/2NPTF	1 1/2 - 11 1/2NPTF	87	52	2		
10193N-32-32	50	-32	50,8	2	2 - 11 1/2NPTF	2 - 11 1/2NPTF	94	59	2 1/2		

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Material: Stainless Steel

Part No. #	DN size		mm		inch		Connection Type		A mm	B mm	H inch
	mm	inch	mm	inch	Thread Size	Thread Size					
10193N-8-8C	12	-08	12,7	1/2	1/2 - 14NPTF	1/2 - 14NPTF	50	38	7/8		
10193N-8-10C	16	-10	15,9	5/8	1/2 - 14NPTF	1/2 - 14NPTF	50	38	1		
10193N-12-12C	20	-12	19,0	3/4	3/4 - 14NPTF	3/4 - 14NPTF	66	43	1 1/8		
10193N-16-16C	25	-16	25,4	1	1 - 11 1/2NPTF	1 - 11 1/2NPTF	76	44	1 3/8		
10193N-20-20C	32	-20	31,8	1 1/4	1 1/4 - 11 1/2NPTF	1 1/4 - 11 1/2NPTF	79	48	1 11/16		
10193N-24-24C	40	-24	38,1	1 1/2	1 1/2 - 11 1/2NPTF	1 1/2 - 11 1/2NPTF	87	52	2		
10193N-32-32C	50	-32	50,8	2	2 - 11 1/2NPTF	2 - 11 1/2NPTF	94	59	2 1/2		

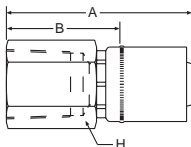
Material: Stainless steel nipple (AISI 316), stainless steel ferrule (AISI 303)



10293N – NPTF Female

rigid

Material: Steel



93N Series



Part No. #	DN size mm inch				Connection Type	A mm	B mm	H inch
								
10293N-8-8	12	-08	12.7	1/2	1/2 - 14NPTF	55	44	7/8
10293N-12-12	20	-12	19.0	3/4	3/4 - 14NPTF	67	44	1 1/8
10293N-16-16	25	-16	25.4	1	1 - 11 1/2NPTF	79	51	1 3/8
10293N-20-20	32	-20	31.8	1 1/4	1 1/4 - 11 1/2NPTF	79	51	1 3/4
10293N-24-24	40	-24	38.1	1 1/2	1 1/2 - 11 1/2NPTF	91	56	2
10293N-32-32	50	-32	50.8	2	2 - 11 1/2NPTF	91	56	2 1/2

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Material: Stainless Steel

Part No. #	DN size mm inch				Connection Type	A mm	B mm	H inch
								
10293N-8-8C	12	-08	12.7	1/2	1/2 - 14NPTF	55	44	7/8
10293N-12-12C	20	-12	19.0	3/4	3/4 - 14NPTF	67	44	1 1/8
10293N-16-16C	25	-16	25.4	1	1 - 11 1/2NPTF	79	51	1 3/8
10293N-20-20C	32	-20	31.8	1 1/4	1 1/4 - 11 1/2NPTF	79	51	1 3/4
10293N-24-24C	40	-24	38.1	1 1/2	1 1/2 - 11 1/2NPTF	91	56	2
10293N-32-32C	50	-32	50.8	2	2 - 11 1/2NPTF	91	56	2 1/2

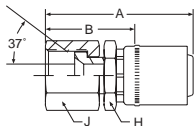
Material: Stainless steel nipple (AISI 316), stainless steel ferrule (AISI 303)



Hose Fittings
93N Series

10693N – JIC - 37° Cone
UNF Swivel Nut
Material: Steel

93N Series



Part No. #	DN size		mm		inch		Connection Type		A mm	B mm	H inch	J inch
	mm	inch	mm	inch	Thread Size	mm	inch					
10693N-8-8	12	-08	12.7	1/2	3/4 - 16UNF	48	35	7/8	7/8			
10693N-10-10	16	-10	15.9	5/8	7/8 - 14UNF	63	41	1	1			
10693N-12-12	20	-12	19.0	3/4	1 1/16 - 12UNF	70	44	1 1/8	1 1/4			
10693N-16-16	25	-16	25.4	1	1 5/16 - 12UNF	78	46	1 3/8	1 1/2			
10693N-20-20	32	-20	31.8	1 1/4	1 5/8 - 12UNF	81	49	1 3/4	1 13/16			
10693N-24-24	40	-24	38.1	1 1/2	1 7/8 - 12UNF	91	57	2	2 1/8			
10693N-32-32	50	-32	50.8	2	2 1/2 - 12UNF	98	62	2 1/2	2 3/4			

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Material: Stainless Steel

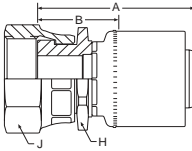
Part No. #	DN size		mm		inch		Connection Type		A mm	B mm	H inch	J inch
	mm	inch	mm	inch	Thread Size	mm	inch					
10693N-8-8C	12	-08	12.7	1/2	3/4 - 16UNF	48	35	7/8	7/8			
10693N-10-10C	16	-10	15.9	5/8	7/8 - 14UNF	63	41	1	1			
10693N-12-12C	20	-12	19.0	3/4	1 1/16 - 12UNF	70	44	1 1/8	1 1/4			
10693N-16-16C	25	-16	25.4	1	1 5/16 - 12UNF	78	46	1 3/8	1 1/2			
10693N-20-20C	32	-20	31.8	1 1/4	1 5/8 - 12UNF	81	49	1 3/4	1 13/16			
10693N-24-24C	40	-24	38.1	1 1/2	1 7/8 - 12UNF	91	57	2	2 1/8			
10693N-32-32C	50	-32	50.8	2	2 1/2 - 12UNF	98	62	2 1/2	2 3/4			

Material: Stainless steel nipple (AISI 316), stainless steel ferrule (AISI 303)

1JC93N – O-Lok® ORFS

(Short Version)
 UNF Swivel Nut
 ISO 12151-1
 Material: Steel

93N Series



Part No.	DN size mm inch				Connection Type						
					Thread Size	Tube OD	A mm	B mm	H inch	J inch	
#											
1JC93N-16-16	25	-16	25.4	1	1 7/16 - 12UNF	1	66	35	1 3/8	1 5/8	
1JC93N-20-20	32	-20	31.8	1 1/4	1 11/16 - 12UNF	1 1/4	65	33	1 5/16	1 7/8	

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Material: Stainless Steel

Part No.	DN size mm inch				Connection Type						
					Thread Size	Tube OD	A mm	B mm	H inch	J inch	
#											
1JC93N-16-16C	25	-16	25.4	1	1 7/16 - 12UNF	1	66	35	1 3/8	1 5/8	
1JC93N-20-20C	32	-20	31.8	1 1/4	1 11/16 - 12UNF	1 1/4	65	33	1 5/16	1 7/8	

Material: Stainless steel nipple (AISI 316), stainless steel ferrule (AISI 303)

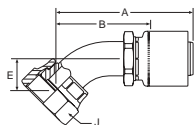


Hose Fittings
93N Series

1J793N – O-Lok® ORFS 45° Elbow

UNF Swivel Nut – ISO 12151-1

Material: Steel



93N Series

Part No. #	DN size mm inch				Connection Type		A mm	B mm	E mm	J inch
	mm	inch	Thread Size	Tube OD						
1J793N-16-16	25	-16	25.4	1	1 7/16 - 12UNF	1	102	70	24	1 5/8
1J793N-20-20	32	-20	31.8	1 1/4	1 11/16 - 12UNF	1 1/4	106	75	25	1 7/8

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Material: Stainless Steel

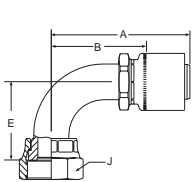
Part No. #	DN size mm inch				Connection Type		A mm	B mm	E mm	J inch
	mm	inch	Thread Size	Tube OD						
1J793N-16-16C	25	-16	25.4	1	1 7/16 - 12UNF	1	102	70	24	1 5/8
1J793N-20-20C	32	-20	31.8	1 1/4	1 11/16 - 12UNF	1 1/4	106	75	25	1 7/8

Material: Stainless Steel

1J993N – O-Lok® ORFS 90° Elbow

UNF Swivel Nut – ISO 12151-1

Material: Steel



93N

Part No. #	DN size mm inch				Connection Type		A mm	B mm	E mm	J inch
	25	-16	25.4	1	Thread Size	Tube OD				
1J993N-16-16	25	-16	25.4	1	1 7/16 - 12UNF	1	101	70	56	1 5/8
1J993N-20-20	32	-20	31.8	1 1/4	1 11/16 - 12UNF	1 1/4	108	76	64	1 7/8

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Material: Stainless Steel

Part No. #	DN size mm inch				Connection Type		A mm	B mm	E mm	J inch
	25	-16	25.4	1	Thread Size	Tube OD				
1J993N-16-16C	25	-16	25.4	1	1 7/16 - 12UNF	1	101	70	56	1 5/8
1J993N-20-20C	32	-20	31.8	1 1/4	1 11/16 - 12UNF	1 1/4	108	76	64	1 7/8

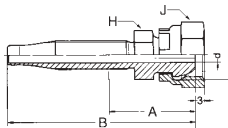
Material: Stainless Steel



Hose Fittings
AB Series

C3AB – Sealing Head – Light Series – Metric Swivel Nut

AB Series

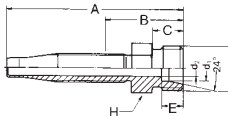


Part No. #	DN size mm inch		Dia- meter		Thread Size	A mm	B mm	H mm	J mm	
			d							
C3AB-6-025	4	-025	4.0	5/32	4.0	M12x1.5	43	25	10	17
C3AB-8-04	6	-04	6.4	1/4	5.2	M14x1.5	59	27	12	17
C3AB-10-04	6	-04	6.4	1/4	5.2	M16x1.5	60	27	14	19
C3AB-10-05	8	-05	8.0	5/16	6.8	M16x1.5	61	29	14	19
C3AB-12-05	8	-05	8.0	5/16	6.8	M18x1.5	63	31	17	22
C3AB-12-06	10	-06	9.7	3/8	8.8	M18x1.5	70	33	17	22
C3AB-15-06	10	-06	9.7	3/8	8.8	M22x1.5	71	34	22	27

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

D0AB – Metric Male 24° Cone – Light Series – ISO 12151-2

AB Series

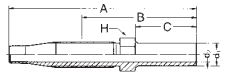


Part No. #	DN size mm inch		Dia- meter		Thread Size	A mm	B mm	C mm	E mm	H mm		
			d ₁	d ₂								
D0AB-6-025	4	-025	4.0	5/32	6.0	4.0	M12x1.5	40	22	10	7	12
D0AB-8-04	6	-04	6.4	1/4	8.0	5.2	M14x1.5	57	25	10	7	14
D0AB-10-05	8	-05	8.0	5/16	10.0	6.8	M16x1.5	59	27	11	7	17
D0AB-12-05	8	-05	8.0	5/16	12.0	6.8	M18x1.5	59	27	11	7	19
D0AB-12-06	10	-06	9.7	3/8	12.0	8.8	M18x1.5	66	30	11	7	19

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1DAB – Metric Standpipe – Light Series

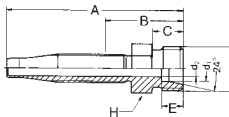
AB Series



Part No. #	DN size mm inch		Dia- meter		A mm	B mm	C mm	H mm		
			d ₁	d ₂						
1DAB-6-025	4	-025	4.0	5/32	6.0	4.0	50	33	20	10
1DAB-8-04	6	-04	6.4	1/4	8.0	5.2	68	37	22	11
1DAB-10-05	8	-05	8.0	5/16	10.0	6.8	72	43	24	12
1DAB-12-06	10	-06	9.7	3/8	12.0	8.8	80	44	25	14
1DAB-15-06	10	-06	9.7	3/8	15.0	8.8	80	44	25	17
1DAB-15-08	12	-08	12.8	1/2	15.0	11.7	86	48	25	17
1DAB-18-08	12	-08	12.8	1/2	18.0	11.7	86	48	25	19

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

D2AB – Metric Male 24° Cone – Heavy Series – ISO 12151-2

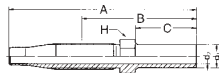


AB Series

Part No. #	DN size mm inch		Dia- meter		Thread Size	A mm	B mm	C mm	E mm	H mm		
	d ₁	d ₂	d ₁	d ₂								
D2AB-6-025	4	-025	4.0	5/32	6.0	4.0	M14x1.5	42	25	12	7.0	14
D2AB-10-04	6	-04	6.4	1/4	10.0	5.2	M18x1.5	60	28	12	7.5	19
D2AB-12-05	8	-05	8.0	5/16	12.0	6.8	M20x1.5	60	28	12	7.5	22

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

3DAB – Metric Standpipe – Heavy Series



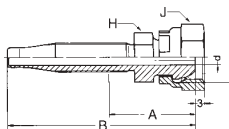
AB Series

Part No. #	DN size mm inch		Dia- meter		A mm	B mm	C mm	H mm		
	d ₁	d ₂	d ₁	d ₂						
3DAB-8-025	4	-025	4.0	5/32	8.0	4.0	52	35	22	10
3DAB-10-04	6	-04	6.4	1/4	10.0	5.2	70	39	24	12
3DAB-12-04	6	-04	6.4	1/4	12.0	5.2	70	39	24	14
3DAB-12-05	8	-05	8.0	5/16	12.0	6.8	72	43	24	14

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request



U0AB – Sealing Head (60°) – BSP Swivel Nut



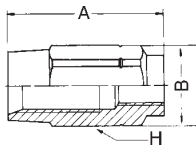
AB Series

Part No. #	DN size mm inch		Dia- meter	Thread Size	A mm	B mm	H mm	J mm		
	d	d								
U0AB-4-025	4	-025	4.0	5/32	4.0	G 1/4	43	25	10	17
U0AB-6-025	4	-025	4.0	5/32	4.0	G 3/8	43	25	12	22
U0AB-4-04	6	-04	6.4	1/4	5.2	G 1/4	59	27	12	17
U0AB-6-06	10	-06	9.7	3/8	8.8	G 3/8	70	33	17	22

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Hose Fittings
AF/BF Series

200AF – Reusable Socket

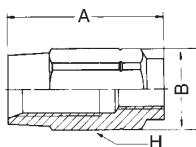


AF Series

Part No.	DN size mm inch			A mm	B mm	H mm
#	⊙					⬡
200AF-025	4	-025	4.0 5/32	25.0	13.3	12
200AF-04	6	-04	6.4 1/4	36.0	18.8	17
200AF-05	8	-05	8.0 5/16	38.0	20.9	19
200AF-06	10	-06	9.7 3/8	44.5	24.0	22
200AF-08	12	-08	12.8 1/2	51.0	30.2	27

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

200BF – Reusable Socket

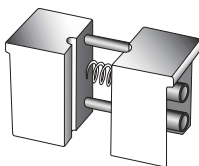


BF Series

Part No.	DN size mm inch			A mm	B mm	H mm
#	⊙					⬡
200BF-025	4	-025	4.0 5/32	25.0	13.3	12
200BF-04	6	-04	6.4 1/4	36.0	18.8	17
200BF-05	8	-05	8.0 5/16	38.0	20.9	19
200BF-06	10	-06	9.7 3/8	44.5	24.0	22
200BF-08	12	-08	12.8 1/2	51.0	30.2	27

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Tools – Clamping Jaw

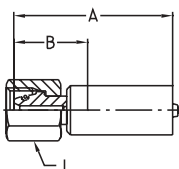


Part No.	Hose Type PTA	Hose Type PTB
#		
PTW-8	025	–
PTW-9	–	025
PTW-11	04	–
PTW-12	–	04
PTW-13	05	–
PTW-15	–	05
PTW-17	06	–
PTW-18	–	06
PTW-22	08	08

1CAEX – 24° Sealing Cone / O-Ring

Light Series – Metric Swivel Nut

ISO 12151-2



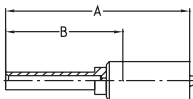
EX Series

Part No. #	DN size mm inch		Connection Type						
			Thread Size	Tube OD	A mm	B mm	J mm		
1CAEX-6-012	2	-012	2.0	5/64	M12x1.5	6	32	21	14
1CAEX-8-012	2	-012	2.0	5/64	M14x1.5	8	37	26	17
1CAEX-6-025	4	-025	4.0	5/32	M12x1.5	6	42	20	14

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

11DEX – Metric Standpipe

Light Series



EX Series

Part No. #	DN size mm inch		Tube OD	A mm	B mm		
11DEX-4-012	2	-012	2.0	5/64	4	37	26
11DEX-4-025	4	-025	4.0	5/32	4	52	30
11DEX-6-025	4	-025	4.0	5/32	6	54	32

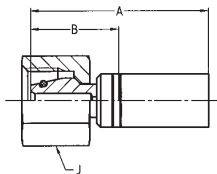
Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Not recommended for new constructions. Please refer to end connection C3 or CA.



Hose Fittings
EX Series

1C9EX – 24° Sealing Cone / O-Ring Heavy Series – Metric Swivel Nut ISO 12151-2

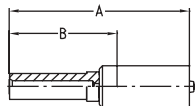


EX Series

Part No.	DN size mm inch		Connection Type						
			Thread Size	Tube OD	A mm	B mm	J mm		
#									
1C9EX-6-012	2	-012	2.0	5/64	M14x1.5	6	32	21	17
1C9EX-8-012	2	-012	2.0	5/64	M16x1.5	8	37	26	19
1C9EX-8-02	3	-02	3.2	1/8	M16x1.5	8	32	22	19
1C9EX-8-025	4	-025	4.0	5/32	M16x1.5	8	45	22	19

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

13DEX – Metric Standpipe Heavy Series



EX Series

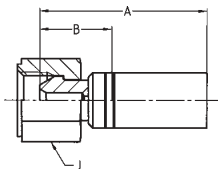
Part No.	DN size mm inch		Tube OD	A mm	B mm		
						#	
13DEX-6-012	2	-012	2.0	5/64	6	37	26
13DEX-8-012	2	-012	2.0	5/64	8	37	26
13DEX-8-025	4	-025	4.0	5/32	8	56	34

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Not recommended for new constructions. Please refer to end connection C9.

192EX – Sealing Head (60°)

BSP Swivel Nut



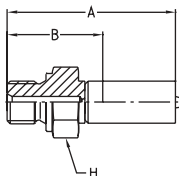
EX Series

Part No. #	DN size mm inch			Connection Type Thread Size	A mm	B mm	J mm	
	mm	inch	mm					
192EX-4-025	4	-025	4.0	5/32	G 1/4	39	17	17
192EX-6-025	4	-025	4.0	5/32	G 3/8	40	18	19

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1D9EX – BSP Male

DIN 3852 Shape A



EX Series

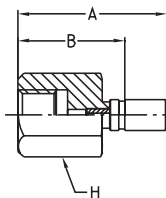
Part No. #	DN size mm inch			Connection Type Thread Size	A mm	B mm	H mm	
	mm	inch	mm					
1D9EX-4-012	2	-012	2.0	5/64	G 1/4	40	29	19

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request



1BPEX – Female BSP

Rigid



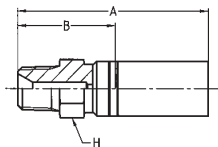
EX Series

Part No. #	DN size mm inch			Connection Type Thread Size	A mm	B mm	H mm	
	mm	inch	mm					
1BPEX-4-012	2	-012	2.0	5/64	G 1/4	39	28	19

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Hose Fittings
EX Series

101EX – NPTF Male - 60° Cone

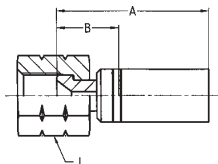


EX Series

Part No.	DN size				Connection Type	A	B	H
#	mm	inch	mm	inch	Thread Size	mm	mm	mm
101EX-4-012	2	-012	2.0	5/64	1/4 - 18NPTF	39	28	14
101EX-2-025	4	-025	4.0	5/32	1/8 - 27NPTF	46	24	12
101EX-4-025	4	-025	4.0	5/32	1/4 - 18NPTF	50	28	14

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

106EX – JIC - 37° Cone UNF Swivel Nut

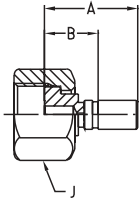


EX Series

Part No.	DN size				Connection Type	A	B	J
#	mm	inch	mm	inch	Thread Size	mm	mm	mm
106EX-3-012	2	-012	2.0	5/64	3/8 - 24UNF	23	12	14
106EX-4-012	2	-012	2.0	5/64	7/16 - 20UNF	25	14	17

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1JCEX – O-Lok® ORFS (Short Version) UNF Swivel Nut ISO 12151-1

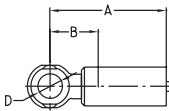


EX Series

Part No. #	DN size mm inch		Connection Type						
			Thread Size	Tube OD	A mm	B mm	J mm		
1JCEX-4-012	2	-012	2.0	5/64	9/16 - 18 UNF	1/4	28	17	14
1JCEX-6-012	2	-012	2.0	5/64	11/16 - 16 UNF	3/8	26	15	22

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

149EX – Banjo Union DIN 7642

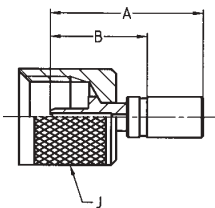


EX Series

Part No. #	DN size mm inch		Tube OD	A mm	B mm		
149EX-8-02	3	-02	3.2	1/8	8	23	13
149EX-10-025	4	-025	4.0	5/32	10	44	22

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1R8EX – Quick Connect Fitting Metric Swivel Nut – Knurled



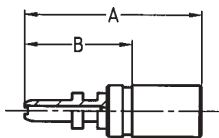
EX Series

Part No. #	DN size mm inch		Connection Type				
			Thread Size	A mm	B mm		
1R8EX-11-012	2	-012	2.0	5/64	M16x2	30	19


Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Hose Fittings
EX Series

1YPEX – Quick Connect Fitting with Clip

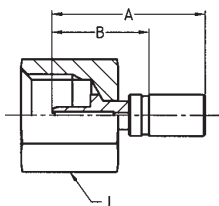


EX Series

Part No. Fitting #	Part No. Clip #	DN size mm inch	Connection Type Thread Size	A mm	B mm
1YPEX-3-012	HG-DN2	02 -12 2.0 5/64		28.0	17

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1YREX – Quick Connect Fitting Metric Swivel Nut

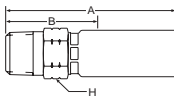


EX Series

Part No. #	DN size mm inch	Connection Type Thread Size	A mm	B mm	J mm
1YREX-10-012	2 -012 2.0 5/64	M16x1.5	30	19	19
1YREX-11-012	2 -012 2.0 5/64	M16x2	30	19	19

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

101HP – NPTF Male - 60° Cone

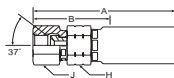


HP Series

Part No. #	DN size		mm		inch		Connection Type		A mm	B mm	H inch
	mm	inch	mm	inch	Thread Size	Thread Size	Thread Size				
101HP-2-3	5	-03	4.8	3/16	1/8 - 27NPTF	49	30	9/16			
101HP-4-3	5	-03	4.8	3/16	1/4 - 18NPTF	54	35	11/16			
101HP-6-3	5	-03	4.8	3/16	3/8 - 18NPTF	56	38	3/4			
101HP-2-4	6	-04	6.4	1/4	1/8 - 27NPTF	53	30	5/8			
101HP-4-4	6	-04	6.4	1/4	1/4 - 18NPTF	58	35	11/16			
101HP-6-4	6	-04	6.4	1/4	3/8 - 18NPTF	60	35	3/4			
101HP-4-6	10	-06	9.5	3/8	1/4 - 18NPTF	68	38	3/4			
101HP-6-6	10	-06	9.5	3/8	3/8 - 18NPTF	68	38	3/4			
101HP-8-6	10	-06	9.5	3/8	1/2 - 14NPTF	68	44	15/16			

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

106HP – JIC - 37° Cone UNF Swivel Nut



HP Series

Part No. #	DN size		mm		inch		Connection Type		A mm	B mm	H inch	J inch
	mm	inch	mm	inch	Thread Size	Thread Size	Thread Size					
106HP-4-3	5	-03	4.8	3/16	7/16 - 20UNF	56	37	9/16	5/8			
106HP-4-4	6	-04	6.4	1/4	7/16 - 20UNF	63	40	5/8	5/8			
106HP-6-4	6	-04	6.4	1/4	9/16 - 18UNF	63	38	5/8	3/4			
106HP-6-6	10	-06	9.5	3/8	9/16 - 18UNF	72	44	3/4	3/4			

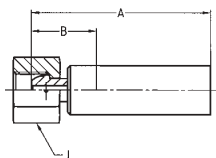
Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request



Hose Fittings
LX Series

1C3LX – Sealing Head

Light Series – Metric Swivel Nut



LX Series

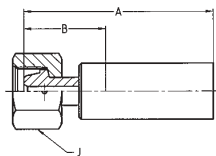
Part No. #	DN size		mm		inch		Connection Type	A	B	J
	mm	inch	mm	inch	Thread Size	mm	mm	mm		
1C3LX-8-03	5	-03	4.8	3/16	M14x1.5	64	25	22		
1C3LX-8-04	6	-04	6.4	1/4	M14x1.5	69	25	22		

Material: Special steel, other special materials available upon request

1C6LX – Sealing Head

Heavy Series

Metric Swivel Nut



LX Series

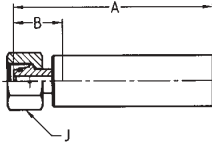
Part No. #	DN size		mm		inch		Connection Type	A	B	J
	mm	inch	mm	inch	Thread Size	mm	mm	mm		
1C6LX-12-05	8	-05	7.9	5/16	M20x1.5	78	34	27		

Material: Special steel, other special materials available upon request

1C9LX – 24° Sealing Cone / O-Ring

Heavy Series – Metric Swivel Nut

ISO 12151-2

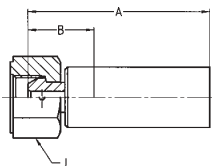

LX Series

Part No. #	DN size				Connection Type Thread Size	A mm	B mm	J mm
	mm	inch	mm	inch				
1C9LX-14-06	10	-06	9.5	3/8	M22x1.5	75	30	30
1C9LX-16-08	12	-08	12.7	1/2	M24x1.5	88	34	32
1C9LX-25-12	20	-012	19.0	3/4	M36x2	92	39	46
1C9LX-30-16	25	-016	25.4	1	M42x2	98	45	50

Material: Special steel, other special materials available upon request

192LX – Sealing Head (60°)

BSP Swivel Nut


LX Series

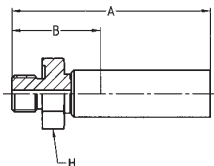
Part No. #	DN size				Connection Type Thread Size	A mm	B mm	J mm
	mm	inch	mm	inch				
192LX-4-03	5	-03	4.8	3/16	G 1/4	64	25	22
192LX-6-05	8	-05	7.9	5/16	G 3/8	69	25	27
192LX-8-06	10	-06	9.5	3/8	G 1/2	66	22	30
192LX-8-08	12	-08	12.7	1/2	G 1/2	75	21	32
192LX-16-12	20	-12	19.0	3/4	G 1	77	24	41
192LX-20-16	25	-16	25.4	1	G 1 1/4	78	25	50

Material: Special steel, other special materials available upon request









Hose Fittings
LX Series

1Y9LX – BSP Male - for USIT Ring



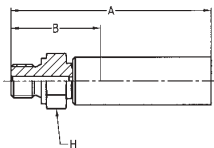
LX Series

Part No.	DN size		mm		inch		Connection Type	A	B	J
	mm	inch	mm	inch	mm	inch	Thread Size	mm	mm	mm
#										
1Y9LX-4-03	5	-03	4.8	3/16			G 1/4	72	32	22







Material: Special steel, other special materials available upon request

USIT-Ring = Part No. 5954

1D9LX – BSP Male DIN 3852 Shape A



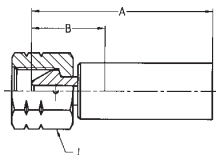
LX Series

Part No.	DN size		mm		inch		Connection Type	A	B	J
	mm	inch	mm	inch	mm	inch	Thread Size	mm	mm	mm
#										
1D9LX-4-04	6	-04	6.4	1/4			G 1/4	80	36	19

Material: Special steel, other special materials available upon request

1AYLX – 59° Sealing Cone

UNF Swivel Nut



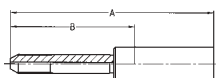
LX Series

Part No. #	DN size		mm		inch	Connection Type Thread Size	A mm	B mm	J mm
1AYLX-6-03	5	-03	4.8	3/16		9/16 - 18UNF	66	26	22
1AYLX-8-05	8	-05	7.9	5/16		3/4 - 16UNF	74	30	27
1AYLX-8-06	10	-06	9.5	3/8		3/4 - 16UNF	70	26	27
1AYLX-11-08	12	-08	12.7	1/2		1 - 12UNF	80	27	32
1AYLX-16-12	20	-12	19.0	3/4		1 5/16 - 12UNF	82	29	41

Material: Special steel, other special materials available upon request

1YALX – High Pressure Connector 59° Cone

UNF - Left Hand Thread



LX Series

Part No. #	DN size		mm		inch	Connection Type Thread Size	A mm	B mm
1YALX-1-025	4	-025	4.0	5/32		1/4 - 28UNF-LH	87	50
1YALX-1-03	5	-03	4.8	3/16		1/4 - 28UNF-LH	92	53
1YALX-3-03	5	-03	4.8	3/16		3/8 - 24UNF-LH	97	58

Material: Special steel, other special materials available upon request

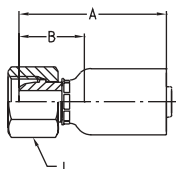


Hose Fittings
NX Series

1C3NX – Sealing Head

Light Series – Metric Swivel Nut

Material: Steel



NX Series

Part No. #	DN size				Connection Type				
	mm	inch	Thread Size	Tube OD	A mm	B mm	J mm		
1C3NX-8-04	6	-04	6.4	1/4	M14x1.5	8	46	18	17
1C3NX-10-04	6	-04	6.4	1/4	M16x1.5	10	46	18	19
1C3NX-10-05	8	-05	7.9	5/16	M16x1.5	10	46	18	19
1C3NX-10-06	10	-06	9.5	3/8	M16x1.5	10	49	20	22
1C3NX-12-06	10	-06	9.5	3/8	M18x1.5	12	48	19	22
1C3NX-12-08	12	-08	12.7	1/2	M18x1.5	12	52	20	24
1C3NX-15-08	12	-08	12.7	1/2	M22x1.5	15	51	20	27

Material: Steel, surface protection according to DIN 50 961 Fe/Zn

Nipple: Stainless Steel

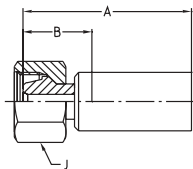
Part No. #	DN size				Connection Type				
	mm	inch	Thread Size	Tube OD	A mm	B mm	J mm		
1C3NX-8-04 C2W	6	-04	6.4	1/4	M14x1.5	8	46	18	17
1C3NX-10-04 C2W	6	-04	6.4	1/4	M16x1.5	10	46	18	19
1C3NX-10-05 C2W	8	-05	7.9	5/16	M16x1.5	10	46	18	19
1C3NX-10-06 C2W	10	-06	9.5	3/8	M16x1.5	10	49	20	22
1C3NX-12-06 C2W	10	-06	9.5	3/8	M18x1.5	12	48	19	22
1C3NX-12-08 C2W	12	-08	12.7	1/2	M18x1.5	12	52	20	24
1C3NX-15-08 C2W	12	-08	12.7	1/2	M22x1.5	15	51	20	27

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, stainless steel nipple (material 1.4301)

1C6NX – Sealing Head

Heavy Series

Metric Swivel Nut



NX Series

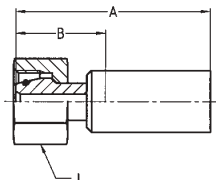
Part No. #	DN size mm inch				Connection Type		A mm	B mm	J mm
	6	-04	6.4	1/4	Thread Size	Tube OD			
1C6NX-8-04	6	-04	6.4	1/4	M16x1.5	8	58	26	19
1C6NX-10-04	6	-04	6.4	1/4	M18x1.5	10	59	27	22
1C6NX-12-05	8	-05	7.9	5/16	M20x1.5	12	58	24	24
1C6NX-14-06	10	-06	9.5	3/8	M22x1.5	14	64	24	27
1C6NX-16-08	12	-08	12.7	1/2	M24x1.5	16	67	24	30
1C6NX-20-10	16	-10	15.9	5/8	M30x2	20	79	27	36
1C6NX-25-12	20	-12	19.0	3/4	M36x2	25	81	30	46
1C6NX-30-16	25	-16	25.4	1	M42x2	30	82	31	50

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1C9NX – 24° Sealing Cone / O-Ring

Heavy Series – Metric Swivel Nut

ISO 12151-2



NX Series

Part No. #	DN size mm inch				Connection Type		A mm	B mm	J mm
	6	-04	6.4	1/4	Thread Size	Tube OD			
1C9NX-8-04	6	-04	6.4	1/4	M16x1.5	8	60	28	19
1C9NX-10-04	6	-04	6.4	1/4	M18x1.5	10	65	33	22
1C9NX-12-05	8	-05	7.9	5/16	M20x1.5	12	63	29	24
1C9NX-14-06	10	-06	9.5	3/8	M22x1.5	14	71	30	27
1C9NX-16-08	12	-08	12.7	1/2	M24x1.5	16	78	35	30
1C9NX-20-10	16	-10	15.9	5/8	M30x2	20	91	40	36
1C9NX-25-12	20	-12	19.0	3/4	M36x2	25	96	45	46
1C9NX-30-16	25	-16	25.4	1	M42x2	30	98	47	50
1C9NX-38-20	32	-20	31.8	1 1/4	M52x2	38	113	52	60

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

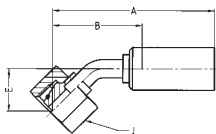


Hose Fittings
NX Series

10CNX – 24° Sealing Cone / O-Ring 45° Elbow

Heavy Series – Metric Swivel Nut

ISO 12151-2



NX Series

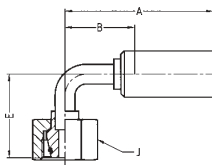
Part No. #	DN size		mm		inch		Thread Size		Connection Type		A mm	B mm	E mm	J mm
	mm	inch	mm	inch	Thread Size	Tube OD	mm	mm						
10CNX-10-04	6	-04	6.4	1/4	M18x1.5	10	82	50	24	22				
10CNX-12-05	8	-05	7.9	5/16	M20x1.5	12	76	42	20	24				
10CNX-12-06	10	-06	9.5	3/8	M20x1.5	12	81	40	19	24				
10CNX-14-06	10	-06	9.5	3/8	M22x1.5	14	81	40	19	27				
10CNX-16-08	12	-08	12.7	1/2	M24x1.5	16	96	53	23	30				
10CNX-20-10	16	-10	15.9	5/8	M30x2	20	120	68	30	36				
10CNX-25-12	20	-12	19.0	3/4	M36x2	25	137	85	37	46				
10CNX-30-16	25	-16	25.4	1	M42x2	30	136	85	43	50				

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

11CNX – 24° Sealing Cone / O-Ring 90° Elbow

Heavy Series – Metric Swivel Nut

ISO 12151-2

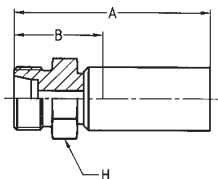


NX Series

Part No. #	DN size		mm		inch		Thread Size		Connection Type		A mm	B mm	E mm	J mm
	mm	inch	mm	inch	Thread Size	Tube OD	mm	mm						
11CNX-10-04	6	-04	6.4	1/4	M18x1.5	10	66	34	36	22				
11CNX-12-05	8	-05	7.9	5/16	M20x1.5	12	64	30	36	24				
11CNX-14-06	10	-06	9.5	3/8	M22x1.5	14	71	30	36	27				
11CNX-16-08	12	-08	12.7	1/2	M24x1.5	16	85	42	44	30				
11CNX-20-10	16	-10	15.9	5/8	M30x2	20	105	53	61	36				
11CNX-25-12	20	-12	19.0	3/4	M36x2	25	117	65	62	46				
11CNX-30-16	25	-16	25.4	1	M42x2	30	116	65	76	50				

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1D2NX – Metric Male 24° Cone Heavy Series ISO 12151-2

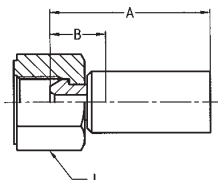


NX Series

Part No. #	DN size		mm		inch		Connection Type			
	mm	inch	mm	inch	Thread Size	Tube OD	A mm	B mm	J mm	
1D2NX-10-04	6	-04	6.4	1/4	M18x1.5	10	65	33	19	
1D2NX-12-05	8	-05	7.9	5/16	M20x1.5	12	62	28	22	
1D2NX-14-06	10	-06	9.5	3/8	M22x1.5	14	71	31	22	
1D2NX-16-08	12	-08	12.7	1/2	M24x1.5	16	74	31	24	
1D2NX-20-10	16	-10	15.9	5/8	M30x2	20	88	37	30	
1D2NX-25-12	20	-12	19.0	3/4	M36x2	25	90	39	36	
1D2NX-30-16	25	-16	25.4	1	M42x2	30	92	41	46	

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

192NX – Sealing Head (60°) BSP Swivel Nut



NX Series

Part No. #	DN size		mm		inch		Connection Type			
	mm	inch	mm	inch	Thread Size	A mm	B mm	J mm		
192NX-4-04	6	-04	6.4	1/4	G 1/4	56	25	19		
192NX-6-05	8	-05	7.9	5/16	G 3/8	52	18	22		
192NX-6-06	10	-06	9.5	3/8	G 3/8	59	19	22		
192NX-8-06	10	-06	9.5	3/8	G 1/2	60	20	27		
192NX-8-08	12	-08	12.7	1/2	G 1/2	63	20	27		
192NX-12-10	16	-10	15.9	5/8	G 3/4	73	22	32		
192NX-12-12	20	-12	19.0	3/4	G 3/4	77	26	32		
192NX-16-12	20	-12	19.0	3/4	G 1	77	26	41		
192NX-16-16	25	-16	25.4	1	G 1	88	27	41		
192NX-20-16	25	-16	25.4	1	G 1 1/4	77	26	50		

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

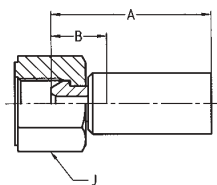


Hose Fittings
NX Series

1U0NX – Sealing Head (60°)

BSP Swivel Nut

Material: Steel



NX Series

Part No. #	DN size		mm		inch		Connection Type	A	B	J
	mm	inch	mm	inch	mm	inch	Thread Size	mm	mm	mm
1U0NX-4-04	6	-04	6.4	1/4			G 1/4	58	27	19
1U0NX-6-04	6	-04	6.4	1/4			G 3/8	58	27	27
1U0NX-6-05	8	-05	7.9	5/16			G 3/8	59	19	19
1U0NX-6-06	10	-06	9.5	3/8			G 3/8	61	20	22
1U0NX-8-06	10	-06	9.5	3/8			G 1/2	61	20	27
1U0NX-8-08	12	-08	12.7	1/2			G 1/2	61	22	27
1U0NX-12-10	16	-10	15.9	5/8			G 3/4	75	23	32
1U0NX-12-12	20	-12	19.0	3/4			G 3/4	78	23	32
1U0NX-16-12	20	-12	19.0	3/4			G 1	78	23	41

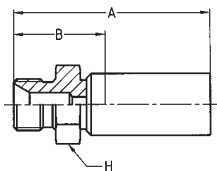
Material: Steel, surface protection according to DIN 50 961 Fe/Zn

Nipple: Stainless Steel

Part No. #	DN size		mm		inch		Connection Type	A	B	J
	mm	inch	mm	inch	mm	inch	Thread Size	mm	mm	mm
1U0NX-4-04 C2W	6	-04	6.4	1/4			G 1/4	58	27	19
1U0NX-6-04 C2W	6	-04	6.4	1/4			G 3/8	58	27	27
1U0NX-6-05 C2W	8	-05	7.9	5/16			G 3/8	59	19	19
1U0NX-6-06 C2W	10	-06	9.5	3/8			G 3/8	61	20	22
1U0NX-8-06 C2W	10	-06	9.5	3/8			G 1/2	61	20	27
1U0NX-8-08 C2W	12	-08	12.7	1/2			G 1/2	61	22	27
1U0NX-12-10 C2W	16	-10	15.9	5/8			G 3/4	75	23	32
1U0NX-12-12 C2W	20	-12	19.0	3/4			G 3/4	78	23	32
1U0NX-16-12 C2W	20	-12	19.0	3/4			G 1	78	23	41

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, stainless steel nipple (material 1.4301)

13BNX – BSP Male - 60° Cone

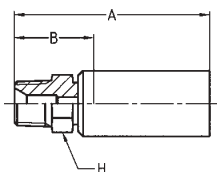


NX Series

Part No. #	DN size		mm		inch		Connection Type	A	B	J
	mm	inch	mm	inch	mm	inch	Thread Size	mm	mm	mm
13BNX-4-04	6	-04	6.4	1/4			G 1/4	64	32	17
13BNX-6-05	8	-05	7.9	5/16			G 3/8	64	30	22
13BNX-6-06	10	-06	9.5	3/8			G 3/8	71	30	22
13BNX-8-06	10	-06	9.5	3/8			G 1/2	76	35	22
13BNX-8-08	12	-08	12.7	1/2			G 1/2	79	35	24
13BNX-12-10	16	-10	15.9	5/8			G 3/4	92	41	32
13BNX-12-12	20	-12	19.0	3/4			G 3/4	92	41	32
13BNX-16-12	20	-12	19.0	3/4			G 1	100	50	36
13BNX-16-16	25	-16	25.4	1			G 1	100	50	36
13BNX-20-16	25	-16	25.4	1			G 1 1/4	103	52	50
13BNX-24-20	32	-20	31.8	1 1/4			G 1 1/2	118	57	55

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

101NX – NPTF Male - 60° Cone



NX Series

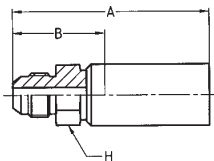
Part No. #	DN size		mm		inch		Connection Type	A	B	J
	mm	inch	mm	inch	mm	inch	Thread Size	mm	mm	mm
101NX-4-04	6	-04	6.4	1/4			1/4 - 18NPTF	65	33	14
101NX-6-05	8	-05	7.9	5/16			3/8 - 18NPTF	64	30	19
101NX-6-06	10	-06	9.5	3/8			3/8 - 18NPTF	71	31	19
101NX-8-06	10	-06	9.5	3/8			1/2 - 14NPTF	76	36	22
101NX-8-08	12	-08	12.7	1/2			1/2 - 14NPTF	79	37	22
101NX-12-10	16	-10	15.9	5/8			3/4 - 14NPTF	89	38	27
101NX-12-12	20	-12	19.0	3/4			3/4 - 14NPTF	91	40	27
101NX-16-12	20	-12	19.0	3/4			1 - 11 1/2NPTF	96	45	36
101NX-16-16	25	-16	25.4	1			1 - 11 1/2NPTF	96	45	36
101NX-20-16	25	-16	25.4	1			1 1/4 - 11 1/2NPTF	97	46	46

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request



Hose Fittings
NX Series

103NX – JIC Male 37° Cone

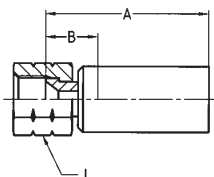


NX Series

Part No.	DN size				Connection Type	A	B	J
#	mm	mm	inch	Thread Size	mm	mm	mm	
103NX-5-04	6	-04	6.4	1/4	1/2 - 20UNF	67	35	14
103NX-6-05	8	-05	7.9	5/16	9/16 - 18UNF	64	30	17
103NX-8-06	10	-06	9.5	3/8	3/4 - 16UNF	74	34	22
103NX-10-08	12	-08	12.7	1/2	7/8 - 14UNF	83	40	24
103NX-12-10	16	-10	15.9	5/8	1 1/16 - 12UNF	94	43	30
103NX-16-12	20	-12	19.0	3/4	1 5/16 - 12UNF	95	44	36
103NX-20-16	25	-16	25.4	1	1 5/8 - 12UNF	97	46	46
103NX-24-20	32	-20	31.8	1 1/4	1 7/8 - 12UNF	110	49	50

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

106NX – JIC - 37° Cone UNF Swivel Nut



NX Series

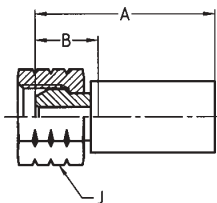
Part No.	DN size				Connection Type	A	B	J
#	mm	mm	inch	Thread Size	mm	mm	mm	
106NX-5-04	6	-04	6.4	1/4	1/2 - 20UNF	55	23	19
106NX-6-05	8	-05	7.9	5/16	9/16 - 18UNF	50	16	19
106NX-6-06	10	-06	9.5	3/8	9/16 - 18UNF	59	18	22
106NX-8-06	10	-06	9.5	3/8	3/4 - 16UNF	59	19	24
106NX-8-08	12	-08	12.7	1/2	3/4 - 16UNF	64	21	27
106NX-10-08	12	-08	12.7	1/2	7/8 - 14UNF	62	19	27
106NX-10-10	16	-10	15.9	5/8	7/8 - 14UNF	73	22	27
106NX-12-10	16	-10	15.9	5/8	1 1/16 - 12UNF	73	22	32
106NX-12-12	20	-12	19.0	3/4	1 1/16 - 12UNF	79	28	36
106NX-16-12	20	-12	19.0	3/4	1 5/16 - 12UNF	75	24	41
106NX-16-16	25	-16	25.4	1	1 5/16 - 12UNF	77	26	41
106NX-20-16	25	-16	25.4	1	1 5/8 - 12UNF	75	24	50

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

107NX – 60° Sealing Cone

NPSM Swivel Nut

Material: Steel



NX Series

Part No. #	DN size mm inch				Connection Type	A mm	B mm	J mm
	mm		inch		Thread Size			
107NX-4-04	6	-04	6.4	1/4	1/4 - 18NPSM	47	19	19
107NX-6-05	8	-05	7.9	5/16	3/8 - 18NPSM	48	20	22
107NX-6-06	10	-06	9.5	3/8	3/8 - 18NPSM	50	21	22
107NX-8-08	12	-08	12.7	1/2	1/2 - 14NPSM	50	19	27
107NX-12-10	16	-10	15.9	5/8	3/4 - 14NPSM	53	22	32
107NX-12-12	20	-12	19.0	3/4	3/4 - 14NPSM	59	24	32

Material: Steel, surface protection according to DIN 50 961 Fe/Zn

Nipple: Stainless Steel

Part No. #	DN size mm inch				Connection Type	A mm	B mm	J mm
	mm		inch		Thread Size			
107NX-4-04 C2W	6	-04	6.4	1/4	1/4 - 18NPSM	47	19	19
107NX-6-05 C2W	8	-05	7.9	5/16	3/8 - 18NPSM	48	20	22
107NX-6-06 C2W	10	-06	9.5	3/8	3/8 - 18NPSM	50	21	22
107NX-8-08 C2W	12	-08	12.7	1/2	1/2 - 14NPSM	50	19	27
107NX-12-10 C2W	16	-10	15.9	5/8	3/4 - 14NPSM	53	22	32
107NX-12-12 C2W	20	-12	19.0	3/4	3/4 - 14NPSM	59	24	32

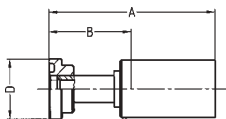
Material: Steel, surface protection according to DIN 50 961 Fe/Zn, stainless steel nipple (material 1.4301)



Hose Fittings
NX Series

115NX – SAE Flange Head

Standard Series ISO 12151-3



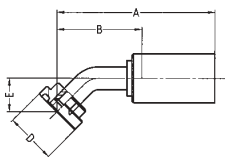
NX Series

Part No. #	DN size mm inch				A mm	B mm	D mm
115NX-8-08	12	-08	12.7	1/2	87.0	44	30.2
115NX-12-10	16	-10	15.9	5/8	95.5	44	38.1
115NX-12-12	20	-12	19.0	3/4	99.5	48	38.1
115NX-16-16	25	-16	25.4	1	106.0	55	44.5
115NX-20-20	32	-20	31.8	1 1/4	117.0	56	50.8

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

117NX – SAE Flange Head 45° Elbow

Standard Series ISO 12151-3



NX Series

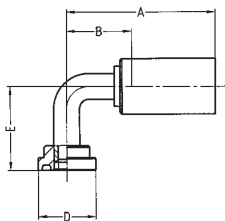
Part No. #	DN size mm inch				A mm	B mm	D mm	E mm
117NX-8-08	12	-08	12.7	1/2	95.0	52.5	30.2	20
117NX-12-10	16	-10	15.9	5/8	113.5	62.0	38.1	24
117NX-12-12	20	-12	19.0	3/4	128.5	77.0	38.1	30
117NX-16-16	25	-16	25.4	1	125.0	74.0	44.5	32
117NX-20-20	32	-20	31.8	1 1/4	174.0	113.0	50.8	37

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

119NX – SAE Flange Head 90° Elbow

Standard Series

ISO 12151-3



NX Series

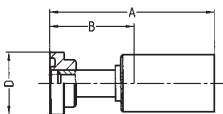
Part No. #	DN size mm inch				A mm	B mm	D mm	E mm
119NX-8-08	12	-08	12.7	1/2	78.0	35.0	30.2	44
119NX-12-10	16	-10	15.9	5/8	98.5	47.0	38.1	54
119NX-12-12	20	-12	19.0	3/4	106.5	55.0	38.1	63
119NX-16-16	25	-16	25.4	1	116.0	65.0	44.5	69
119NX-20-20	32	-20	31.8	1 1/4	165.0	104.0	50.8	82

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

16ANX – SAE Flange Head

Heavy Series

ISO 12151-3



NX Series

Part No. #	DN size mm inch				A mm	B mm	D mm
16ANX-8-08	12	-08	12.7	1/2	88.0	45.0	31.7
16ANX-12-10	16	-10	15.9	5/8	103.0	51.5	41.3
16ANX-12-12	20	-12	19.0	3/4	103.5	52.0	41.3
16ANX-16-16	25	-16	25.4	1	113.0	62.0	47.6
16ANX-20-20	32	-20	31.8	1 1/4	126.0	65.0	54.0

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

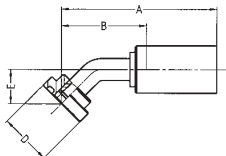


Hose Fittings
NX Series

16FNX – SAE Flange Head 45° Elbow

Heavy Series

ISO 12151-3



NX Series

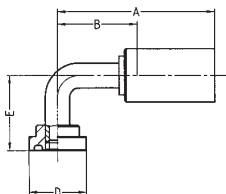
Part No.	DN size		mm		inch		A	B	D	E
#							mm	mm	mm	mm
16FNX-8-08	12	-08	12.7	1/2	95.0	52.0	31.7	21		
16FNX-12-10	16	-10	15.9	5/8	117.5	66.0	41.3	28		
16FNX-12-12	20	-12	19.0	3/4	130.5	79.0	41.3	32		
16FNX-16-16	25	-16	25.4	1	130.0	79.0	47.6	37		
16FNX-20-20	32	-20	31.8	1 1/4	180.0	119.0	54.0	44		

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

16NNX – SAE Flange Head 90° Elbow

Heavy Series

ISO 12151-3



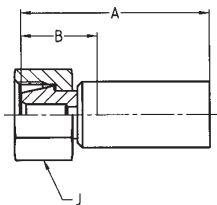
NX Series

Part No.	DN size		mm		inch		A	B	D	E
#							mm	mm	mm	mm
16NNX-8-08	12	-08	12.7	1/2	87.0	44	31.7	41		
16NNX-12-10	16	-10	15.9	5/8	104.5	53	41.3	54		
16NNX-12-12	20	-12	19.0	3/4	116.5	65	41.3	63		
16NNX-16-16	25	-16	25.4	1	116.0	65	47.6	75		
16NNX-20-20	32	-20	31.8	1 1/4	165.0	104	54.0	91		

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1F4NX – 24° Sealing Cone

French Gas Series Metric Swivel Nut



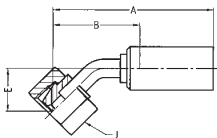
NX Series

Part No. #	DN size mm inch				Connection Type				
					Thread Size	Tube OD	A mm	B mm	J mm
1F4NX-13-04	6	-04	6.4	1/4	M20x1.5	13	60	28	24
1F4NX-13-05	8	-05	7.9	5/16	M20x1.5	13	57	23	24
1F4NX-17-05	8	-05	7.9	5/16	M24x1.5	17	61	27	30
1F4NX-13-06	10	-06	9.5	3/8	M20x1.5	13	64	24	24
1F4NX-17-06	10	-06	9.5	3/8	M24x1.5	17	68	27	30
1F4NX-17-08	12	-08	12.7	1/2	M24x1.5	17	71	28	30
1F4NX-21-08	12	-08	12.7	1/2	M30x1.5	21	70	27	36
1F4NX-21-10	16	-10	15.9	5/8	M30x1.5	21	80	28	36
1F4NX-27-12	20	-12	19.0	3/4	M36x1.5	27	81	30	42
1F4NX-33-16	25	-16	25.4	1	M45x1.5	33	83	32	55

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1F1NX – 24° Sealing Cone 45° Elbow

French Gas Series Metric Swivel Nut



NX Series

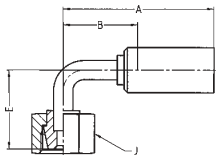
Part No. #	DN size mm inch				Connection Type					
					Thread Size	Tube OD	A mm	B mm	E mm	J mm
1F1NX-13-04	6	-04	6.4	1/4	M20x1.5	13	67	35	18	24
1F1NX-13-05	8	-05	7.9	5/16	M20x1.5	13	74	40	20	24
1F1NX-17-05	8	-05	7.9	5/16	M24x1.5	17	74	40	21	30
1F1NX-13-06	10	-06	9.5	3/8	M20x1.5	13	84	43	20	24
1F1NX-17-06	10	-06	9.5	3/8	M24x1.5	17	84	43	21	30
1F1NX-17-08	12	-08	12.7	1/2	M24x1.5	17	94	51	22	30
1F1NX-21-08	12	-08	12.7	1/2	M30x1.5	21	94	51	24	36
1F1NX-21-10	16	-10	15.9	5/8	M30x1.5	21	106	54	29	36
1F1NX-27-12	20	-12	19.0	3/4	M36x1.5	27	122	70	33	42
1F1NX-33-16	25	-16	25.4	1	M45x1.5	33	121	70	36	55

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Hose Fittings
NX Series

1F2NX – 24° Sealing Cone 90° Elbow

French Gas Series Metric Swivel Nut



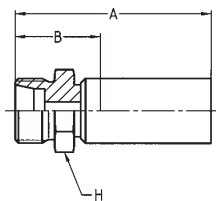
NX Series

Part No. #	DN size				Connection Type		A mm	B mm	E mm	J mm
	mm	inch	Thread Size	Tube OD						
1F2NX-13-04	6	-04	6.4	1/4	M20x1.5	13	60	28	31	24
1F2NX-13-05	8	-05	7.9	5/16	M20x1.5	13	67	33	35	24
1F2NX-17-05	8	-05	7.9	5/16	M24x1.5	17	67	33	35	30
1F2NX-13-06	10	-06	9.5	3/8	M20x1.5	13	77	36	40	24
1F2NX-17-06	10	-06	9.5	3/8	M24x1.5	17	77	36	41	30
1F2NX-17-08	12	-08	12.7	1/2	M24x1.5	17	85	42	45	30
1F2NX-21-08	12	-08	12.7	1/2	M30x1.5	21	85	42	49	36
1F2NX-21-10	16	-10	15.9	5/8	M30x1.5	21	102	50	54	36
1F2NX-27-12	20	-12	19.0	3/4	M36x1.5	27	108	56	67	42
1F2NX-33-16	25	-16	25.4	1	M45x1.5	33	116	65	74	55

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1FGNX – Metric Male 24° Cone

French Gas Series



NX Series

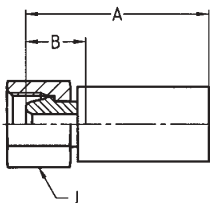
Part No. #	DN size				Connection Type		A mm	B mm	J mm
	mm	inch	Thread Size	Tube OD					
1FGNX-13-04	6	-04	6.4	1/4	M20x1.5	13	63	31	22
1FGNX-13-05	8	-05	7.9	5/16	M20x1.5	13	60	26	22
1FGNX-17-05	8	-05	7.9	5/16	M24x1.5	17	66	32	24
1FGNX-13-06	10	-06	9.5	3/8	M20x1.5	13	69	29	22
1FGNX-17-06	10	-06	9.5	3/8	M24x1.5	17	73	33	24
1FGNX-17-08	12	-08	12.7	1/2	M24x1.5	17	76	33	24
1FGNX-21-08	12	-08	12.7	1/2	M30x1.5	21	76	33	30
1FGNX-21-10	16	-10	15.9	5/8	M30x1.5	21	86	35	30
1FGNX-27-12	20	-12	19.0	3/4	M36x1.5	27	86	35	36
1FGNX-33-16	25	-16	25.4	1	M45x1.5	33	91	40	46

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1C3PX – Sealing Head

Light Series – Metric Swivel Nut

Material: Steel


PX Series

Part No. #	DN size		mm		inch		Connection Type			
	mm	inch	mm	inch	Thread Size	Tube OD	A mm	B mm	J mm	
1C3PX-6-02	3	-02	3.2	1/8	M12x1.5	6	32	16	14	
1C3PX-6-03	5	-03	4.8	3/16	M12x1.5	6	43	18	14	
1C3PX-8-03	5	-03	4.8	3/16	M14x1.5	8	43	18	17	
1C3PX-10-03	5	-03	4.8	3/16	M16x1.5	10	43	18	19	
1C3PX-8-04	6	-04	6.4	1/4	M14x1.5	8	46	18	17	
1C3PX-10-04	6	-04	6.4	1/4	M16x1.5	10	46	18	19	
1C3PX-10-05	8	-05	7.9	5/16	M16x1.5	10	46	18	19	
1C3PX-10-06	10	-06	9.5	3/8	M16x1.5	10	49	20	22	
1C3PX-12-06	10	-06	9.5	3/8	M18x1.5	12	48	19	22	
1C3PX-12-08	12	-08	12.7	1/2	M18x1.5	12	52	20	24	
1C3PX-15-08	12	-08	12.7	1/2	M22x1.5	15	51	20	27	

Material: Steel, surface protection according to DIN 50 961 Fe/Zn

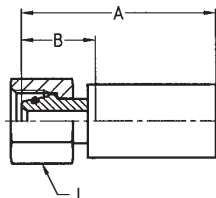
Nipple: Stainless Steel

Part No. #	DN size		mm		inch		Connection Type			
	mm	inch	mm	inch	Thread Size	Tube OD	A mm	B mm	J mm	
1C3PX-6-02 C2W	3	-02	3.2	1/8	M12x1.5	6	32	16	14	
1C3PX-6-03 C2W	5	-03	4.8	3/16	M12x1.5	6	43	18	14	
1C3PX-8-03 C2W	5	-03	4.8	3/16	M14x1.5	8	43	18	17	
1C3PX-10-03 C2W	5	-03	4.8	3/16	M16x1.5	10	43	18	19	
1C3PX-8-04 C2W	6	-04	6.4	1/4	M14x1.5	8	46	18	17	
1C3PX-10-04 C2W	6	-04	6.4	1/4	M16x1.5	10	46	18	19	
1C3PX-10-05 C2W	8	-05	7.9	5/16	M16x1.5	10	46	18	19	
1C3PX-10-06 C2W	10	-06	9.5	3/8	M16x1.5	10	49	20	22	
1C3PX-12-06 C2W	10	-06	9.5	3/8	M18x1.5	12	48	19	22	
1C3PX-12-08 C2W	12	-08	12.7	1/2	M18x1.5	12	52	20	24	
1C3PX-15-08 C2W	12	-08	12.7	1/2	M22x1.5	15	51	20	27	

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, stainless steel nipple (material 1.4301)

Hose Fittings
PX Series

1CAPX – 24° Sealing Cone / O-Ring Light Series – Metric Swivel Nut – ISO 12151-2

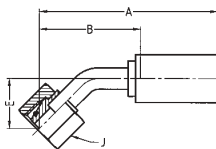


PX Series

Part No. #	DN size mm inch				Connection Type				
	mm	inch	Thread Size	Tube OD	A mm	B mm	J mm		
1CAPX-6-03	5	-03	4.8	3/16	M12x1.5	6	45	20	14
1CAPX-6-04	6	-04	6.4	1/4	M12x1.5	6	48	20	17
1CAPX-8-04	6	-04	6.4	1/4	M14x1.5	8	51	23	17
1CAPX-10-04	6	-04	6.4	1/4	M16x1.5	10	50	22	19
1CAPX-10-05	8	-05	7.9	5/16	M16x1.5	10	50	22	19
1CAPX-12-05	8	-05	7.9	5/16	M18x1.5	12	50	22	22
1CAPX-10-06	10	-06	9.5	3/8	M16x1.5	10	51	22	22
1CAPX-12-06	10	-06	9.5	3/8	M18x1.5	12	52	23	22
1CAPX-15-08	12	-08	12.7	1/2	M22x1.5	15	59	28	27
1CAPX-18-10	16	-10	15.9	5/8	M26x1.5	18	56	25	32
1CAPX-22-12	20	-12	19.0	3/4	M30x2	22	62	27	36
1CAPX-28-16	25	-16	25.4	1	M36x2	28	64	29	41

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1CEPX – 24° Sealing Cone / O-Ring 45° Elbow Light Series – Metric Swivel Nut ISO 12151-2



PX Series

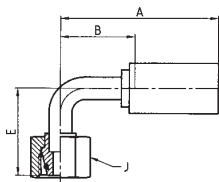
Part No. #	DN size mm inch				Connection Type					
	mm	inch	Thread Size	Tube OD	A mm	B mm	E mm	J mm		
1CEPX-6-03	5	-03	4.8	3/16	M12x1.5	6	58	32	17	14
1CEPX-6-04	6	-04	6.4	1/4	M12x1.5	6	72	43	23	17
1CEPX-8-04	6	-04	6.4	1/4	M14x1.5	8	72	43	23	17
1CEPX-10-05	8	-05	7.9	5/16	M16x1.5	10	72	43	20	19
1CEPX-10-06	10	-06	9.5	3/8	M16x1.5	10	70	40	18	19
1CEPX-12-06	10	-06	9.5	3/8	M18x1.5	12	70	40	18	22
1CEPX-15-08	12	-08	12.7	1/2	M22x1.5	15	83	51	21	27
1CEPX-18-10	16	-10	15.9	5/8	M26x1.5	18	96	65	27	32
1CEPX-22-12	20	-12	19.0	3/4	M30x2	22	114	79	32	36
1CEPX-28-16	25	-16	25.4	1	M36x2	28	112	77	35	41

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1CFPX – Sealing Cone / O-Ring 90° Elbow

Light Series – Metric Swivel Nut

ISO 12151-2



PX Series

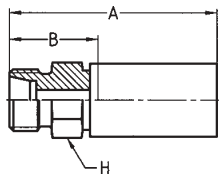
Part No. #	DN		size		mm		inch		Connection Type		A mm	B mm	E mm	J mm
	mm	inch	mm	inch	Thread Size	Tube OD	mm	inch						
1CFPX-6-03	5	-03	4.8	3/16					M12x1.5	6	48	22	26	14
1CFPX-6-04	6	-04	6.4	3/8					M12x1.5	6	59	30	33	17
1CFPX-8-04	6	-04	6.4	1/4					M14x1.5	8	59	30	33	17
1CFPX-10-05	8	-05	7.9	5/16					M16x1.5	10	59	30	33	19
1CFPX-10-06	10	-06	9.5	3/8					M16x1.5	10	60	30	35	19
1CFPX-12-06	10	-06	9.5	3/8					M18x1.5	12	60	30	35	22
1CFPX-15-08	12	-08	12.7	1/2					M22x1.5	15	74	42	42	27
1CFPX-18-10	16	-10	15.9	5/8					M26x1.5	18	84	53	52	32
1CFPX-22-12	20	-12	19.0	3/4					M30x2	22	100	65	62	36
1CFPX-28-16	25	-16	25.4	1					M36x2	28	100	65	72	41

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1DOPX – Metric Male 24° Cone

Light Series

ISO 12151-2



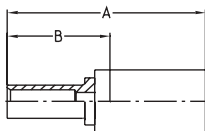
PX Series

Part No. #	DN		size		mm		inch		Connection Type		A mm	B mm	H mm
	mm	inch	mm	inch	Thread Size	Tube OD	mm	inch					
1DOPX-6-03	5	-03	4.8	3/16					M12x1.5	6	48	23	12
1DOPX-6-04	6	-04	6.4	1/4					M12x1.5	6	51	23	14
1DOPX-8-04	6	-04	6.4	1/4					M14x1.5	8	51	23	14
1DOPX-8-05	8	-05	7.9	5/16					M14x1.5	8	53	25	17
1DOPX-10-05	8	-05	7.9	5/16					M16x1.5	10	54	26	17
1DOPX-12-05	8	-05	7.9	5/16					M18x1.5	12	54	26	19
1DOPX-12-06	10	-06	9.5	3/8					M18x1.5	12	56	27	19
1DOPX-10-06	10	-06	9.5	3/8					M16x1.5	10	57	27	17
1DOPX-15-06	10	-06	9.5	3/8					M22x1.5	15	57	28	22
1DOPX-15-08	12	-08	12.7	1/2					M22x1.5	15	59	28	22
1DOPX-18-10	16	-10	15.9	5/8					M26x1.5	18	59	28	27
1DOPX-22-12	20	-12	19.0	3/4					M30x2	22	67	32	30
1DOPX-28-16	25	-16	25.4	1					M36x2	28	67	32	36

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Hose Fittings
PX Series

11DPX – Metric Standpipe Light Series



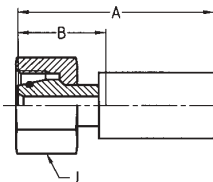
PX Series

Part No. #	DN size mm inch				Tube OD	A mm	B mm
	5	6	8	10			
11DPX-6-03	5	-03	4.8	3/16	6	55	27
11DPX-8-04	6	-04	6.4	1/4	8	58	30
11DPX-10-05	8	-05	7.9	5/16	10	59	31
11DPX-10-06	10	-06	9.5	3/8	10	79	32
11DPX-12-06	10	-06	9.5	3/8	12	79	32
11DPX-15-08	12	-08	12.7	1/2	15	65	34
11DPX-18-10	16	-10	15.9	5/8	18	66	35
11DPX-22-12	20	-12	19.0	3/4	22	72	37
11DPX-28-16	25	-16	25.4	1	28	74	39

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Not recommended for new constructions. Please refer to end connections C3 or CA.

1C9PX – 24° Sealing Cone / O-Ring Heavy Series – Metric Swivel Nut ISO 12151-2



PX Series

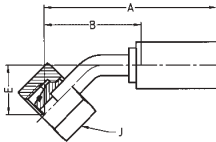
Part No. #	DN size mm inch				Connection Type				
	5	6	8	10	Thread Size	Tube OD	A mm	B mm	J mm
1C9PX-6-03	5	-03	4.8	3/16	M14x1.5	6	46	21	17
1C9PX-8-03	5	-03	4.8	3/16	M16x1.5	8	47	22	19
1C9PX-10-04	6	-04	6.4	1/4	M18x1.5	10	55	27	22
1C9PX-12-05	8	-05	7.9	5/16	M20x1.5	12	56	28	24
1C9PX-12-06	10	-06	9.5	3/8	M20x1.5	12	54	25	24
1C9PX-14-06	10	-06	9.5	3/8	M22x1.5	14	59	30	27
1C9PX-16-08	12	-08	12.7	1/2	M24x1.5	16	65	34	30
1C9PX-20-10	16	-10	15.9	5/8	M30x2	20	68	37	36
1C9PX-25-12	20	-12	19.0	3/4	M36x2	25	77	42	46
1C9PX-30-16	25	-16	25.4	1	M42x2	30	79	45	50

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

10CPX – 24° Sealing Cone / O-Ring 45° Elbow

Heavy Series – Metric Swivel Nut

ISO 12151-2



PX Series

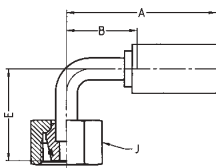
Part No. #	DN size mm inch				Connection Type						
	5	-03	4.8	3/16	Thread Size	Tube OD	A mm	B mm	E mm	J mm	
10CPX-8-03	5	-03	4.8	3/16	M16x1.5	8	61	35	20	19	
10CPX-10-04	6	-04	6.4	1/4	M18x1.5	10	74	45	24	22	
10CPX-12-05	8	-05	7.9	5/16	M20x1.5	12	71	42	20	24	
10CPX-14-06	10	-06	9.5	3/8	M22x1.5	14	70	40	19	27	
10CPX-16-08	12	-08	12.7	1/2	M24x1.5	16	85	53	23	30	
10CPX-20-10	16	-10	15.9	5/8	M30x2	20	99	68	29	36	

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

11CPX – 24° Sealing Cone / O-Ring 90° Elbow

Heavy Series – Metric Swivel Nut

ISO 12151-2



PX Series

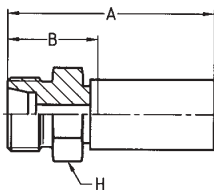
Part No. #	DN size mm inch				Connection Type						
	5	-03	4.8	3/16	Thread Size	Tube OD	A mm	B mm	E mm	J mm	
11CPX-8-03	5	-03	4.8	3/16	M16x1.5	8	48	22	28	19	
11CPX-6-04	6	-04	6.4	1/4	M14x1.5	6	59	30	29	17	
11CPX-10-04	6	-04	6.4	1/4	M18x1.5	10	59	30	36	22	
11CPX-12-05	8	-05	7.9	5/16	M20x1.5	12	59	30	36	24	
11CPX-14-06	10	-06	9.5	3/8	M22x1.5	14	60	30	36	27	
11CPX-16-08	12	-08	12.7	1/2	M24x1.5	16	74	42	44	30	
11CPX-20-10	16	-10	15.9	5/8	M30x2	20	84	53	61	36	

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request



Hose Fittings
PX Series

1D2PX – Metric Male 24° Cone Heavy Series ISO 12151-2

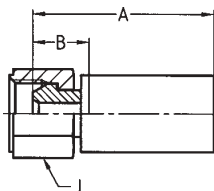


PX Series

Part No. #	DN size		mm		inch		Connection Type			
	mm	inch	mm	inch	Thread Size	Tube OD	A mm	B mm	H mm	
1D2PX-8-03	5	-03	4.8	3/16	M16x1.5	8	50	25	17	
1D2PX-8-04	6	-04	6.4	1/4	M16x1.5	8	56	28	17	
1D2PX-10-04	6	-04	6.4	1/4	M18x1.5	10	55	27	19	
1D2PX-12-05	8	-05	7.9	5/16	M20x1.5	12	55	27	22	
1D2PX-14-05	8	-05	7.9	5/16	M22x1.5	14	57	29	22	
1D2PX-14-06	10	-06	9.5	3/8	M22x1.5	14	59	30	22	
1D2PX-12-06	10	-06	9.5	3/8	M22x1.5	12	57	28	22	
1D2PX-16-08	12	-08	12.7	1/2	M24x1.5	16	61	30	24	
1D2PX-20-10	16	-10	15.9	5/8	M30x2	20	65	34	30	
1D2PX-25-12	20	-12	19.0	3/4	M36x2	25	71	36	36	
1D2PX-30-16	25	-16	25.4	1	M42x2	30	73	38	46	

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

192PX – Sealing Head (60°) BSP Swivel Nut

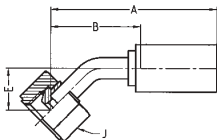


PX Series

Part No. #	DN size		mm		inch		Connection Type		
	mm	inch	mm	inch	Thread Size	A mm	B mm	J mm	
192PX-2-02	3	-02	3.2	1/8	G 1/8	26	11	12	
192PX-2-03	5	-03	4.8	3/16	G 1/8	41	16	17	
192PX-4-03	5	-03	4.8	3/16	G 1/4	42	16	17	
192PX-4-04	6	-04	6.4	1/4	G 1/4	45	17	17	
192PX-6-05	8	-05	7.9	5/16	G 3/8	45	17	19	
192PX-6-06	10	-06	9.5	3/8	G 3/8	48	19	22	
192PX-8-06	10	-06	9.5	3/8	G 1/2	48	19	27	
192PX-8-08	12	-08	12.7	1/2	G1/2	53	21	27	
192PX-12-10	16	-10	15.9	5/8	G 3/4	50	19	32	
192PX-12-12	20	-12	19.0	3/4	G 3/4	56	21	32	
192PX-16-12	20	-12	19.0	3/4	G 1	56	22	41	
192PX-16-16	25	-16	25.4	1	G 1	57	22	41	
192PX-20-16	25	-16	25.4	1	G 1 1/4	58	24	50	

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

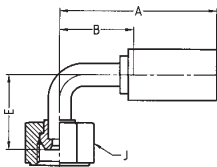
1B1PX – Sealing Head (60°) 45° Elbow BSP Swivel Nut


PX Series

Part No. #	DN size		mm		inch		Connection Type		A mm	B mm	E mm	J mm
	mm	inch	mm	inch	Thread Size	Thread Size						
1B1PX-4-03	5	-03	4.8	3/16	G 1/4		58	32	17	17		
1B1PX-4-04	6	-04	6.4	1/4	G 1/4		70	41	21	17		
1B1PX-6-05	8	-05	7.9	5/16	G 3/8		68	39	17	22		
1B1PX-6-06	10	-06	9.5	3/8	G 3/8		66	36	14	22		
1B1PX-8-06	10	-06	9.5	3/8	G 1/2		67	37	15	27		
1B1PX-8-08	12	-08	12.7	1/2	G 1/2		86	54	18	27		
1B1PX-12-10	16	-10	15.9	5/8	G 3/4		99	68	26	32		
1B1PX-12-12	20	-12	19.0	3/4	G 3/4		117	82	30	32		
1B1PX-16-16	25	-16	25.4	1	G 1		120	85	43	41		
1B1PX-20-16	25	-16	25.4	1	G 1 1/4		116	81	34	50		

Material: Steel, surface protection according to DIN 50 961 Fe/Zn,
 special materials available upon request

1B2PX – Sealing Head (60°) 90° Elbow BSP Swivel Nut


PX Series

Part No. #	DN size		mm		inch		Connection Type		A mm	B mm	E mm	J mm
	mm	inch	mm	inch	Thread Size	Thread Size						
1B2PX-4-03	5	-03	4.8	3/16	G 1/4		48	22	24	17		
1B2PX-4-04	6	-04	6.4	1/4	G 1/4		59	30	30	17		
1B2PX-6-05	8	-05	7.9	5/16	G 3/8		59	30	28	22		
1B2PX-6-06	10	-06	9.5	3/8	G 3/8		60	30	30	22		
1B2PX-8-06	10	-06	9.5	3/8	G 1/2		60	30	31	27		
1B2PX-8-08	12	-08	12.7	1/2	G 1/2		74	42	38	27		
1B2PX-12-10	16	-10	15.9	5/8	G 3/4		84	53	50	32		
1B2PX-12-12	20	-12	19.0	3/4	G 3/4		100	65	60	32		
1B2PX-20-16	25	-16	25.4	1	G 1 1/4		100	65	70	50		

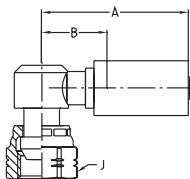
Material: Steel, surface protection according to DIN 50 961 Fe/Zn,
 special materials available upon request



Hose Fittings
PX Series

1B4PX – BSP – Swivel Female

90° Compact Elbow



PX Series

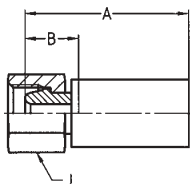
Part No. #	DN size				Connection Type Thread Size	A mm	B mm	J mm
	mm	inch	mm	inch				
1B4PX-4-04	6	-04	6.4	1/4	G 1/4	47	19	19
1B4PX-6-05	8	-05	7.9	5/16	G 3/8	51	23	22
1B4PX-6-06	10	-06	9.5	3/8	G 3/8	53	24	22
1B4PX-8-08	12	-08	12.7	1/2	G 1/2	57	23	27

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1U0PX – Sealing Head (60°)

BSP Swivel Nut

Material: Steel



PX Series

Part No. #	DN size				Connection Type Thread Size	A mm	B mm	J mm
	mm	inch	mm	inch				
1U0PX-4-02	3	-02	3.2	1/8	G 1/4	35	19	17
1U0PX-4-03	5	-03	4.8	3/16	G 1/4	42	16	17
1U0PX-4-04	6	-04	6.4	1/4	G 1/4	45	17	17
1U0PX-6-03	5	-03	4.8	3/16	G 3/8	43	18	19
1U0PX-6-04	6	-04	6.4	1/4	G 3/8	47	18	19
1U0PX-6-05	8	-05	7.9	5/16	G 3/8	45	17	19
1U0PX-6-06	10	-06	9.5	3/8	G 3/8	48	19	22
1U0PX-8-06	10	-06	9.5	3/8	G 1/2	48	19	27
1U0PX-8-08	12	-08	12.7	1/2	G 1/2	53	21	27
1U0PX-12-10	16	-10	15.9	5/8	G 3/4	50	19	32
1U0PX-12-12	20	-12	19.0	3/4	G 3/4	56	21	32
1U0PX-16-12	20	-12	19.0	3/4	G 1	56	22	41
1U0PX-16-16	25	-16	25.4	1	G 1	57	22	41
1U0PX-20-16	25	-16	25.4	1	G 1 1/4	58	24	50

Material: Steel, surface protection according to DIN 50 961 Fe/Zn

Nipple: Stainless Steel

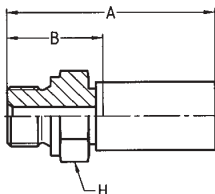
Part No. #	DN size				Connection Type Thread Size	A mm	B mm	J mm
	mm	inch	mm	inch				
1U0PX-4-02 C2W	3	-02	3.2	1/8	G 1/4	35	19	17
1U0PX-4-03 C2W	5	-03	4.8	3/16	G 1/4	42	16	17
1U0PX-4-04 C2W	6	-04	6.4	1/4	G 1/4	45	17	17
1U0PX-6-03 C2W	5	-03	4.8	3/16	G 3/8	43	18	19
1U0PX-6-04 C2W	6	-04	6.4	1/4	G 3/8	47	18	19
1U0PX-6-05 C2W	8	-05	7.9	5/16	G 3/8	45	17	19
1U0PX-6-06 C2W	10	-06	9.5	3/8	G 3/8	48	19	22
1U0PX-8-06 C2W	10	-06	9.5	3/8	G 1/2	48	19	27
1U0PX-8-08 C2W	12	-08	12.7	1/2	G 1/2	53	21	27
1U0PX-12-10 C2W	16	-10	15.9	5/8	G 3/4	50	19	32
1U0PX-12-12 C2W	20	-12	19.0	3/4	G 3/4	56	21	32
1U0PX-16-12 C2W	20	-12	19.0	3/4	G 1	56	22	41
1U0PX-16-16 C2W	25	-16	25.4	1	G 1	57	22	41
1U0PX-20-16 C2W	25	-16	25.4	1	G 1 1/4	58	24	50

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, stainless steel nipple (material 1.4301)





Hose Fittings
PX Series

1D9PX – BSP Male DIN 3852 Shape A

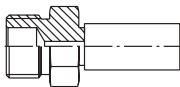


PX Series

Part No. #	DN size mm inch				Connection Type	A mm	B mm	J mm
								
1D9PX-2-02	3	-02	3.2	1/8	G 1/8	38	21	14
1D9PX-2-03	5	-03	4.8	3/16	G 1/8	48	22	14
1D9PX-4-03	5	-03	4.8	3/16	G 1/4	54	29	19
1D9PX-4-04	6	-04	6.4	1/4	G 1/4	57	29	19
1D9PX-6-05	8	-05	7.9	5/16	G 3/8	58	29	22
1D9PX-6-06	10	-06	9.5	3/8	G 3/8	60	30	22
1D9PX-8-06	10	-06	9.5	3/8	G 1/2	62	33	27
1D9PX-8-08	12	-08	12.7	1/2	G 1/2	64	33	27
1D9PX-12-10	16	-10	15.9	5/8	G 3/4	66	35	32
1D9PX-12-12	20	-12	19.0	3/4	G 3/4	72	37	32
1D9PX-16-12	20	-12	19.0	3/4	G 1	74	39	41
1D9PX-20-16	25	-16	25.4	1	G 1 1/4	76	41	50

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

13BPX – BSP Male - 60° Cone according to NEN 176



PX Series

Part No. #	DN size mm inch				Connection Type				
	6	-04	6.4	1/4	Thread Size	Tube OD	A mm	B mm	H mm
13BPX-8-04BF	6	-04	6.4	1/4	W21.8 x 1/14	8	60	32	24
13BPX-8-04CS	6	-04	6.4	1/4	W21.8 x 1/14	8	60	32	24

Material: BF: Brass
 C: stainless steel

Only for CO₂ applications.

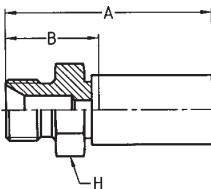
according to ISO/NFE 29650

Part No. #	DN size mm inch				Connection Type				
	6	-04	6.4	1/4	Thread Size	Tube OD	A mm	B mm	H mm
13BPX-8-04BF2	6	-04	6.4	1/4	21.7 x 1.814	8	63	35	24
13BPX-8-04CS	6	-04	6.4	1/4	21.7 x 1.814	8	63	35	24

Material: BF2: Brass
 Cs: stainless steel

Only for CO₂ applications.

13BPX – BSP Male - 60° Cone



PX Series

Part No. #	DN size mm inch				Connection Type			
	5	-03	6.4	1/4	Thread Size	A mm	B mm	J mm
13BPX-2-03	5	-03	4.8	3/16	G 1/8	48	22	14
13BPX-4-03	5	-03	4.8	3/16	G 1/4	51	26	17
13BPX-4-04	6	-04	6.4	1/4	G 1/4	54	26	17
13BPX-6-05	8	-05	7.9	5/16	G 3/8	57	28	22
13BPX-6-06	10	-06	9.5	3/8	G 3/8	59	29	22
13BPX-8-06	10	-06	9.5	3/8	G 1/2	64	34	24
13BPX-8-08	12	-08	12.7	1/2	G 1/2	66	34	24
13BPX-12-10	16	-10	15.9	5/8	G 3/4	69	38	32
13BPX-12-12	20	-12	19.0	3/4	G 3/4	73	38	32
13BPX-16-12	20	-12	19.0	3/4	G 1	82	47	36
13BPX-16-16	25	-16	25.4	1	G 1	82	47	36
13BPX-20-16	25	-16	25.4	1	G 1 1/4	84	49	50

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Hose Fittings
PX Series

191PX – Male BSP Taper Pipe – Rigid – Straight



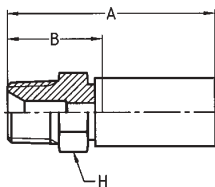
PX Series

Part No. #	DN size mm inch				Connection Type					
					Thread Size	Tube OD	A mm	B mm	H mm	
191PX-4-04BF	6	-04	6.4	1/4	R1/4	4	55	27	14	
191PX-4-04C	6	-04	6.4	1/4	R1/4	4	55	27	14	

Material: BF: Brass
C: stainless steel

Only for CO₂ applications.

101PX – NPTF Male - 60° Cone

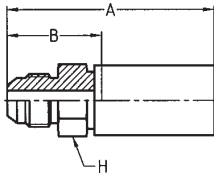


PX Series

Part No. #	DN size mm inch				Connection Type			
					Thread Size	A mm	B mm	J mm
101PX-2-03	5	-03	4.8	3/16	1/8 - 27NPTF	48	23	12
101PX-4-03	5	-03	4.8	3/16	1/4 - 18NPTF	52	27	14
101PX-4-04	6	-04	6.4	1/4	1/4 - 18NPTF	55	27	14
101PX-6-04	6	-04	6.4	1/4	3/8 - 18NPTF	57	29	19
101PX-6-05	8	-05	7.9	5/16	3/8 - 18NPTF	57	29	19
101PX-4-06	10	-06	9.5	3/8	1/4 - 18NPTF	57	28	14
101PX-6-06	10	-06	9.5	3/8	3/8 - 18NPTF	59	30	19
101PX-8-06	10	-06	9.5	3/8	1/2 - 14NPTF	64	35	22
101PX-6-08	12	-08	12.7	1/2	3/8 - 18NPTF	61	30	19
101PX-8-08	12	-08	12.7	1/2	1/2 - 14NPTF	66	35	22
101PX-12-10	16	-10	15.9	5/8	3/4 - 14NPTF	66	35	27
101PX-12-12	20	-12	19.0	3/4	3/4 - 14NPTF	70	35	27
101PX-16-12	20	-12	19.0	3/4	1 - 11 1/2NPTF	77	42	36
101PX-16-16	25	-16	25.4	1	1 - 11 1/2NPTF	77	42	36

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

103PX – JIC Male 37° Cone

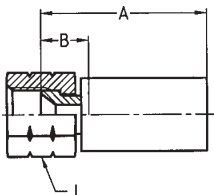


PX Series

Part No. #	DN size	mm	inch	Connection Type Thread Size	A mm	B mm	H mm	
103PX-4-03	5	-03	4.8	3/16	7/16 - 20UNF	52	27	14
103PX-5-04	6	-04	6.4	1/4	1/2 - 20UNF	57	29	14
103PX-6-04	6	-04	6.4	1/4	9/16 - 18UNF	57	29	17
103PX-6-05	8	-05	7.9	5/16	9/16 - 18UNF	57	29	17
103PX-8-06	10	-06	9.5	3/8	3/4 - 16UNF	62	33	22
103PX-10-08	12	-08	12.7	1/2	7/8 - 14UNF	70	38	24
103PX-12-10	16	-10	15.9	5/8	1 1/16 - 12UNF	71	40	30
103PX-16-12	20	-12	19.0	3/4	1 5/16 - 12UNF	76	41	36
103PX-20-16	25	-16	25.4	1	1 5/8 - 12UNF	78	43	46

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

106PX – JIC - 37° Cone UNF Swivel Nut



PX Series

Part No. #	DN size	mm	inch	Connection Type Thread Size	A mm	B mm	J mm	
106PX-4-02	3	-02	3.2	1/8	7/16 - 20UNF	29	13	17
106PX-4-03	5	-03	4.8	3/16	7/16 - 20UNF	40	15	17
106PX-4-04	6	-04	6.4	1/4	7/16 - 20UNF	43	15	17
106PX-5-04	6	-04	6.4	1/4	1/2 - 20UNF	43	15	19
106PX-6-05	8	-05	7.9	5/16	9/16 - 18UNF	45	17	19
106PX-6-06	10	-06	9.5	3/8	9/16 - 18UNF	47	18	19
106PX-8-06	10	-06	9.5	3/8	3/4 - 16UNF	48	19	24
106PX-10-08	12	-08	12.7	1/2	7/8 - 20UNF	49	18	27
106PX-12-10	16	-10	15.9	5/8	1 1/16 - 12UNF	50	19	32
106PX-16-12	20	-12	19.0	3/4	1 5/16 - 12UNF	56	22	41
106PX-20-16	25	-16	25.4	1	1 5/8 - 12UNF	56	22	50

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

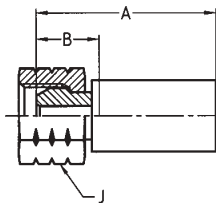


Hose Fittings
PX Series

107PX – 60° Sealing Cone

NPSM Swivel Nut

Material: Steel



PX Series

Part No. #	DN size				Connection Type Thread Size	A mm	B mm	J mm
	mm	inch	mm	inch				
107PX-4-02	3	-02	3.2	1/8	1/4 - 18NPSM	36	20	17
107PX-4-03	5	-03	4.8	3/16	1/4 - 18NPSM	44	19	17
107PX-2-03	5	-03	4.8	3/16	1/8 - 27NPSM	47	21	17
107PX-4-04	6	-04	6.4	1/4	1/4 - 18NPSM	47	19	19
107PX-6-05	8	-05	7.9	5/16	3/8 - 18NPSM	48	20	22
107PX-6-06	10	-06	9.5	3/8	3/8 - 18NPSM	50	21	22
107PX-8-08	12	-08	12.7	1/2	1/2 - 14NPSM	50	19	27
107PX-12-10	16	-10	15.9	5/8	3/4 - 14NPSM	53	22	32
107PX-12-12	20	-12	19.0	3/4	3/4 - 14NPSM	59	24	32

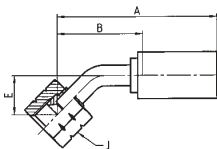
Material: Steel, surface protection according to DIN 50 961 Fe/Zn

Nipple: Stainless Steel

Part No. #	DN size				Connection Type Thread Size	A mm	B mm	J mm
	mm	inch	mm	inch				
107PX-4-02 C2W	3	-02	3.2	1/8	1/4 - 18NPSM	36	20	17
107PX-4-03 C2W	5	-03	4.8	3/16	1/4 - 18NPSM	44	19	17
107PX-2-03 C2W	5	-03	4.8	3/16	1/8 - 27NPSM	47	21	17
107PX-4-04 C2W	6	-04	6.4	1/4	1/4 - 18NPSM	47	19	19
107PX-6-05 C2W	8	-05	7.9	5/16	3/8 - 18NPSM	48	20	22
107PX-6-06 C2W	10	-06	9.5	3/8	3/8 - 18NPSM	50	21	22
107PX-8-08 C2W	12	-08	12.7	1/2	1/2 - 14NPSM	50	19	27
107PX-12-10 C2W	16	-10	15.9	5/8	3/4 - 14NPSM	53	22	32
107PX-12-12 C2W	20	-12	19.0	3/4	3/4 - 14NPSM	59	24	32

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, stainless steel nipple (material 1.4301)

137PX – JIC - 37° Cone 45° Elbow UNF Swivel Nut



PX Series

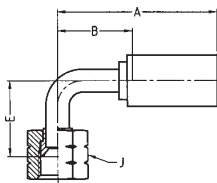
Part No. #	DN size		mm		inch		Connection Type	A	B	E	J
	mm	inch	mm	inch	Thread Size	mm	mm	mm	mm		
137PX-4-03	5	-03	4.8	3/16	7/16 - 20UNF	57	31	16	17		
137PX-5-04	6	-04	6.4	1/4	1/2 - 20UNF	70	41	21	19		
137PX-6-05	8	-05	7.9	5/16	9/16 - 18UNF	67	38	16	19		
137PX-8-06	10	-06	9.5	3/8	3/4 - 16UNF	67	37	15	24		
137PX-10-08	12	-08	12.7	1/2	7/8 - 14UNF	81	49	19	27		
137PX-12-10	16	-10	15.9	5/8	1 1/16 - 12UNF	96	65	27	32		
137PX-16-12	20	-12	19.0	3/4	1 5/16 - 12UNF	114	79	32	41		
137PX-20-16	25	-16	25.4	1	1 5/8 - 12UNF	113	78	36	50		

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request



Hose Fittings
PX Series

139PX – JIC - 37° Cone 90° Elbow UNF Swivel Nut

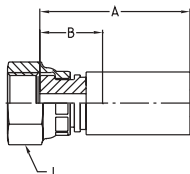


PX Series

Part No. #	DN size		mm		inch		Connection Type		A mm	B mm	E mm	J mm
	mm	inch	mm	inch	Thread Size	Thread Size						
139PX-4-03	5	-03	4.8	3/16	7/16 - 20 UNF	48	22	24	17			
139PX-5-04	6	-04	6.4	1/4	1/2 - 20 UNF	59	30	31	19			
139PX-6-05	8	-05	7.9	5/16	9/16 - 18 UNF	59	30	28	19			
139PX-8-06	10	-06	9.5	3/8	3/4 - 16 UNF	60	30	31	24			
139PX-10-08	12	-08	12.7	1/2	7/8 - 14 UNF	74	42	39	27			
139PX-12-10	16	-10	15.9	5/8	1 1/16 - 12 UNF	84	53	52	32			
139PX-16-12	20	-12	19.0	3/4	1 5/16 - 12 UNF	100	65	62	41			
139PX-20-16	25	-16	25.4	1	1 5/8 - 12 UNF	100	65	73	50			

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1JCPX – O-Lok® ORFS (Short Version) UNF Swivel Nut ISO 12151-1



PX Series

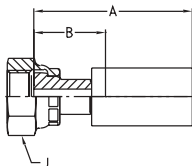
Part No. #	DN size		mm		inch		Connection Type		A mm	B mm	J mm
	mm	inch	mm	inch	Thread Size	Tube OD					
1JCPX-4-03	5	-03	4.8	3/16	9/16 - 18 UNF	1/4	41	16	17		
1JCPX-4-04	6	-04	6.4	1/4	9/16 - 18 UNF	1/4	44	16	17		
1JCPX-6-04	6	-04	6.4	1/4	11/16 - 16 UNF	3/8	45	17	22		
1JCPX-4-05	8	-05	7.9	5/16	9/16 - 18 UNF	1/4	44	16	17		
1JCPX-6-05	8	-05	7.9	5/16	11/16 - 16 UNF	3/8	45	17	22		
1JCPX-6-06	10	-06	9.5	3/8	11/16 - 16 UNF	3/8	47	18	22		
1JCPX-8-06	10	-06	9.5	3/8	13/16 - 16 UNF	1/2	49	19	24		
1JCPX-8-08	12	-08	12.7	1/2	13/16 - 16 UNF	1/2	51	19	24		
1JCPX-12-12	20	-12	19.0	3/4	1 3/16 - 12 UNF	3/4	59	24	36		
1JCPX-16-16	25	-16	25.4	1	1 7/16 - 12 UNF	1	60	25	41		

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1JSPX – O-Lok® ORFS

UNF Swivel Nut

ISO 12151-1



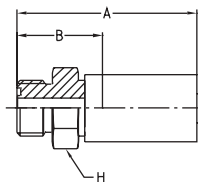
PX Series

Part No. #	DN size mm inch		Connection Type						
			Thread Size	Tube OD	A mm	B mm	J mm		
1JSPX-4-03	5	-03	4.8	3/16	9/16 - 18 UNF	1/4	45	20	17
1JSPX-4-04	6	-04	6.4	1/4	9/16 - 18 UNF	1/4	50	21	17
1JSPX-6-04	6	-04	6.4	1/4	11/16 - 16 UNF	3/8	48	20	22
1JSPX-4-05	8	-05	7.9	5/16	9/16 - 18 UNF	1/4	50	21	17
1JSPX-6-05	8	-05	7.9	5/16	11/16 - 16 UNF	3/8	52	24	22
1JSPX-6-06	10	-06	9.5	3/8	11/16 - 16 UNF	3/8	53	23	22
1JSPX-8-06	10	-06	9.5	3/8	13/16 - 16 UNF	1/2	52	22	24
1JSPX-8-08	12	-08	12.7	1/2	13/16 - 16 UNF	1/2	55	23	24
1JSPX-12-12	20	-12	19.0	3/4	1 3/16 - 12 UNF	3/4	63	28	36
1JSPX-16-16	25	-16	25.4	1	1 7/16 - 12 UNF	1	67	32	41

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1JMPX – O-Lok® ORFS Male

ISO 12151-1



PX Series

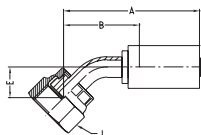
Part No. #	DN size mm inch		Connection Type						
			Thread Size	Tube OD	A mm	B mm	H mm		
1JMPX-4-04	6	-04	6.4	1/4	9/16 - 18 UNF	1/4	51	23	14
1JMPX-6-06	10	-06	9.5	3/8	11/16 - 16 UNF	3/8	56	27	17
1JMPX-8-06	10	-06	9.5	3/8	13/16 - 16 UNF	1/2	58	29	22
1JMPX-8-08	12	-08	12.7	1/2	13/16 - 16 UNF	1/2	60	29	22
1JMPX-12-12	20	-12	19.0	3/4	1 3/16 - 12 UNF	3/4	70	35	30
1JMPX-16-16	25	-16	25.4	1	1 7/16 - 12 UNF	1	71	36	36

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request



Hose Fittings
PX Series

1J7PX – O-Lok® ORFS 45° Elbow UNF Swivel Nut ISO 12151-1

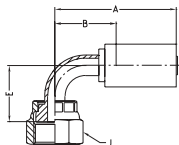


PX Series

Part No. #	DN size		mm		inch		Connection Type				
	mm	inch	mm	inch	Thread Size	Tube OD	A mm	B mm	E mm	J mm	
1J7PX-4-03	5	-03	4.8	3/16	9/16 - 18 UNF	1/4	56	30	15	17	
1J7PX-4-04	6	-04	6.4	1/4	9/16 - 18 UNF	1/4	64	35	15	17	
1J7PX-6-04	6	-04	6.4	1/4	11/16 - 16 UNF	3/8	64	35	15	22	
1J7PX-4-05	8	-05	7.9	5/16	9/16 - 18 UNF	1/4	64	35	15	17	
1J7PX-6-05	8	-05	7.9	5/16	11/16 - 16 UNF	3/8	64	35	17	22	
1J7PX-6-06	10	-06	9.5	3/8	11/16 - 16 UNF	3/8	67	37	17	22	
1J7PX-8-06	10	-06	9.5	3/8	13/16 - 16 UNF	1/2	67	37	17	24	
1J7PX-8-08	12	-08	12.7	1/2	13/16 - 16 UNF	1/2	74	42	17	24	
1J7PX-12-12	20	-12	19.0	3/4	1 3/16 - 12 UNF	3/4	100	65	25	36	
1J7PX-16-16	25	-16	25.4	1	1 7/16 - 12 UNF	1	108	73	39	41	

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1J9PX – O-Lok® ORFS 90° Elbow UNF Swivel Nut ISO 12151-1

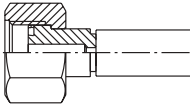


PX Series

Part No. #	DN size		mm		inch		Connection Type				
	mm	inch	mm	inch	Thread Size	Tube OD	A mm	B mm	E mm	J mm	
1J9PX-4-03	5	-03	4.8	3/16	9/16 - 18 UNF	1/4	48	22	23	17	
1J9PX-4-04	6	-04	6.4	1/4	9/16 - 18 UNF	1/4	59	30	29	17	
1J9PX-6-04	6	-04	6.4	1/4	11/16 - 16 UNF	3/8	59	30	29	22	
1J9PX-4-05	8	-05	7.9	5/16	9/16 - 18 UNF	1/4	59	30	27	17	
1J9PX-6-05	8	-05	7.9	5/16	11/16 - 16 UNF	3/8	59	30	27	22	
1J9PX-6-06	10	-06	9.5	3/8	11/16 - 16 UNF	3/8	60	30	27	22	
1J9PX-8-06	10	-06	9.5	3/8	13/16 - 16 UNF	1/2	60	30	27	24	
1J9PX-8-08	12	-08	12.7	1/2	13/16 - 16 UNF	1/2	74	42	32	24	
1J9PX-12-12	20	-12	19.0	3/4	1 3/16 - 12 UNF	3/4	100	65	60	36	
1J9PX-16-16	25	-16	25.4	1	1 7/16 - 12 UNF	1	100	65	67	41	

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1GAPX – Female Gas Joint according to NEN 176



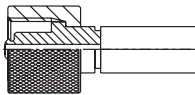
PX Series

Part No. #	DN size mm inch				Connection Type				
	6	-04	6.4	1/4	Thread Size	Tube OD	A mm	B mm	J mm
1GAPX-8-04BF	6	-04	6.4	1/4	W21.8 x 1/14	8	57	28	30
1GAPX-8-04C	6	-04	6.4	1/4	W21.8 x 1/14	8	57	28	30
1GAPX-12-04BF	6	-04	6.4	1/4	W24.32 x 1/14	12	57	28	32
1GAPX-12-04C	6	-04	6.4	1/4	W24.32 x 1/14	12	57	28	32

Material: BF: Brass
 C: stainless steel

Only for CO₂ applications.

1GAPX – Female Gas Joint according to ISO/NFE 29650



PX Series

Part No. #	DN size mm inch				Connection Type				
	6	-04	6.4	1/4	Thread Size	Tube OD	A mm	B mm	J mm
1GAPX-8-04BF2	6	-04	6.4	1/4	21.7 x 1.814	8	66	38	30
1GAPX-8-04CS	6	-04	6.4	1/4	21.7 x 1.814	8	66	38	30

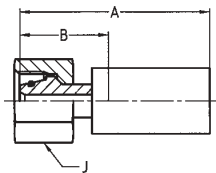
Material: BF2: Brass
 CS: stainless steel

Only for CO₂ applications.



Hose Fittings
RX Series

1C9RX – 24° Sealing Cone / O-Ring Heavy Series – Metric Swivel Nut ISO 12151-2

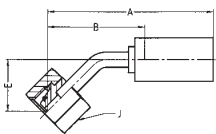


RX Series

Part No. #	DN size		mm		inch		Connection Type	A	B	J
	mm	inch	mm	inch	Thread Size	mm	mm	mm		
1C9RX-8-04	6	-04	6.4	1/4	M16x1.5	55	24	19		
1C9RX-10-04	6	-04	6.4	1/4	M18x1.5	58	27	22		
1C9RX-12-05	8	-05	7.9	5/16	M20x1.5	59	28	24		

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

10CRX – 24° Sealing Cone / O-Ring 45° Elbow Heavy Series – Metric Swivel Nut ISO 12151-2



RX Series

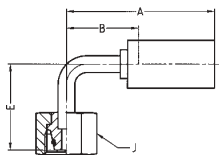
Part No. #	DN size		mm		inch		Connection Type	A	B	E	J
	mm	inch	mm	inch	Thread Size	mm	mm	mm	mm		
10CRX-10-04	6	-04	6.4	1/4	M18x1.5	77	45	24	22		
10CRX-12-05	8	-05	7.9	5/16	M20x1.5	74	42	20	24		

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

11CRX – 24° Sealing Cone / O-Ring 90° Elbow

Heavy Series – Metric Swivel Nut

ISO 12151-2



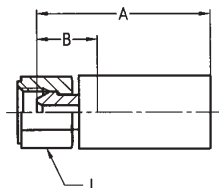
RX Series

Part No. #	DN size		mm		inch		Connection Type	A	B	E	J
	mm	inch	mm	inch	Thread Size	mm	mm	mm	mm	mm	
11CRX-10-04	6	-04	6.4	1/4	M18x1.5	62	30	36	22		
11CRX-12-05	8	-05	7.9	5/16	M20x1.5	62	30	36	24		

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

192RX – Sealing Head (60°)

BSP Swivel Nut



RX Series

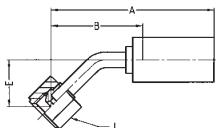
Part No. #	DN size		mm		inch		Connection Type	A	B	J
	mm	inch	mm	inch	Thread Size	mm	mm	mm	mm	
192RX-4-04	6	-04	6.4	1/4	G 1/4	48	17	17		
192RX-6-05	8	-05	7.9	5/16	G 3/8	58	17	19		

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request



Hose Fittings
RX Series

1B1RX – Sealing Head (60°) 45° Elbow BSP Swivel Nut

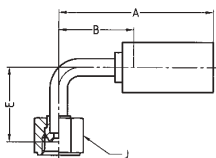


RX Series

Part No.	DN size		mm		inch		Connection Type	A	B	E	J
#	mm		inch		mm		Thread Size	mm	mm	mm	mm
1B1RX-4-04	6	-04	6.4	1/4			G 1/4	62	41	21	17
1B1RX-6-05	8	-05	7.9	5/16			G 3/8	71	39	17	22

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1B2RX – Sealing Head (60°) 90° Elbow BSP Swivel Nut



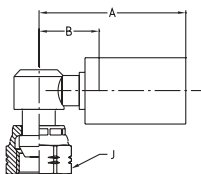
RX Series

Part No.	DN size		mm		inch		Connection Type	A	B	E	J
#	mm		inch		mm		Thread Size	mm	mm	mm	mm
1B2RX-4-04	6	-04	6.4	1/4			G 1/4	62	30	30	17
1B2RX-6-05	8	-05	7.9	5/16			G 3/8	62	30	28	22

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1B4RX – BSP – Swivel Female

90° Compact Elbow



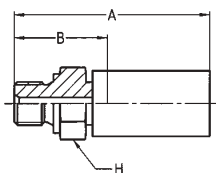
RX Series

Part No. #	DN size mm inch		Connection Type Thread Size		A mm	B mm	J mm
	mm	inch	mm	inch			
1B4RX-4-04	6	-04	6.4	1/4	50	19	19
1B4RX-6-05	8	-05	7.9	5/16	54	23	22

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1D9RX – BSP Male

DIN 3852 Shape A



RX Series

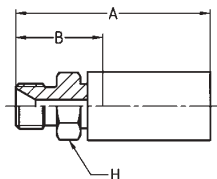
Part No. #	DN size mm inch		Connection Type Thread Size		A mm	B mm	J mm
	mm	inch	mm	inch			
1D9RX-4-04	6	-04	6.4	1/4	60	29	19
1D9RX-6-05	8	-05	7.9	5/16	61	29	22

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request



Hose Fittings
RX Series

13BRX – BSP Male - 60° Cone

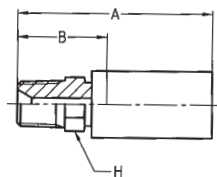


RX Series

Part No.	DN size				Connection Type	A	B	J
#	mm	inch	mm	inch	Thread Size	mm	mm	mm
13BRX-4-04	6	-04	6.4	1/4	G 1/4	57	26	17
13BRX-6-05	8	-05	7.9	5/16	G 3/8	60	28	22

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

101RX – NPTF Male - 60° Cone

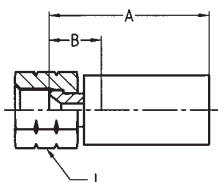


RX Series

Part No.	DN size				Connection Type	A	B	J
#	mm	inch	mm	inch	Thread Size	mm	mm	mm
101RX-4-04	6	-04	6.4	1/4	1/4 - 18NPTF	58	27	14
101RX-6-04	6	-04	6.4	1/4	3/8 - 18NPTF	60	29	19
101RX-6-05	8	-05	7.9	5/16	3/8 - 18NPTF	60	29	19

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

106RX – JIC - 37° Cone UNF Swivel Nut

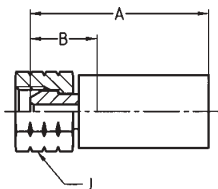


RX Series

Part No. #	DN size mm inch		Connection Type		A mm	B mm	J mm	
	mm	inch	Thread Size	Symbol				
106RX-5-04	6	-04	6.4	1/4	1/2 - 20UNF	46	15	19
106RX-6-05	8	-05	7.9	5/16	9/16 - 18UNF	48	17	19

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

107RX – 60° Sealing Cone NPSM Swivel Nut



RX Series

Part No. #	DN size mm inch		Connection Type		A mm	B mm	J mm	
	mm	inch	Thread Size	Symbol				
107RX-4-04	6	-04	6.4	1/4	1/4 - 18NPSM	50	19	19
107RX-6-05	8	-05	7.9	5/16	3/8 - 18NPSM	51	20	22

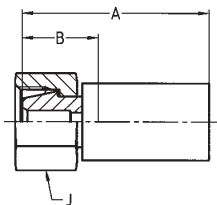
Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

Hose Fittings
RX Series

1F4RX – 24° Sealing Cone

French Gas Series

Metric Swivel Nut



RX Series

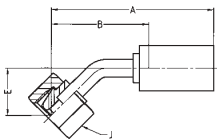
Part No. #	DN size		mm		inch		Connection Type			
	mm	inch	mm	inch	Thread Size	Tube OD	A mm	B mm	J mm	
1F4RX-13-04	6	-04	6.4	1/4	M20x1.5	13	53	22	24	
1F4RX-13-05	8	-05	7.9	5/16	M20x1.5	13	53	22	24	
1F4RX-17-05	8	-05	7.9	5/16	M24x1.5	17	59	27	30	

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1F1RX – 24° Sealing Cone 45° Elbow

French Gas Series

Metric Swivel Nut



RX Series

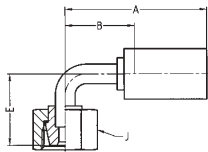
Part No. #	DN size		mm		inch		Connection Type			
	mm	inch	mm	inch	Thread Size	Tube OD	A mm	B mm	E mm	J mm
1F1RX-13-04	6	-04	6.4	1/4	M20x1.5	13	64	32	18	24
1F1RX-13-05	8	-05	7.9	5/16	M20x1.5	13	79	47	23	24

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1F2RX – 24° Sealing Cone 90° Elbow

French Gas Series

Metric Swivel Nut



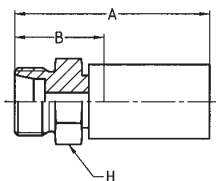
RX Series

Part No.	DN size		mm		inch	Connection Type				
						Thread Size	Tube OD	A	B	E
#										
1F2RX-13-04	6	-04	6.4	1/4	M20x1.5	13	56	24	28	24
1F2RX-13-05	8	-05	7.9	5/16	M20x1.5	13	62	31	30	24

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

1FGRX – Metric Male 24° Cone

French Gas Series



RX Series

Part No.	DN size		mm		inch	Connection Type			
						Thread Size	Tube OD	J	
#									
1FGRX-13-04	6	-04	6.4	1/4	M20x1.5	13	58	27	22
1FGRX-13-05	8	-05	7.9	5/16	M20x1.5	13	58	27	22

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request

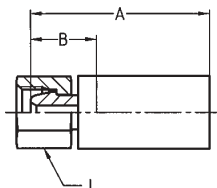


Hose Fittings
YX Series

1C3YX – Sealing Head

Light Series – Metric Swivel Nut

Material: Steel



YX Series

Part No. #	DN size				Connection Type Thread Size	A mm	B mm	J mm
	mm	inch	mm	inch				
1C3YX-6-03	5	-03	4.8	3/16	M12x1.5	43	18	14
1C3YX-8-03	5	-03	4.8	3/16	M14x1.5	43	18	17
1C3YX-10-03	5	-03	4.8	3/16	M16x1.5	43	18	19
1C3YX-8-04	6	-04	6.4	1/4	M14x1.5	46	18	17
1C3YX-10-04	6	-04	6.4	1/4	M16x1.5	46	18	19
1C3YX-10-05	8	-05	7.9	5/16	M16x1.5	46	18	19
1C3YX-10-06	10	-06	9.5	3/8	M16x1.5	49	20	22
1C3YX-12-06	10	-06	9.5	3/8	M18x1.5	48	19	22
1C3YX-12-08	12	-08	12.7	1/2	M18x1.5	52	20	24
1C3YX-15-08	12	-08	12.7	1/2	M22x1.5	51	20	27
1C3YX-18-10	16	-10	15.9	5/8	M26x1.5	51	20	32
1C3YX-18-12	20	-12	19.0	3/4	M26x1.5	57	22	32
1C3YX-22-12	20	-12	19.0	3/4	M30x2	57	23	36
1C3YX-28-16	25	-16	25.4	1	M36x2	59	25	41

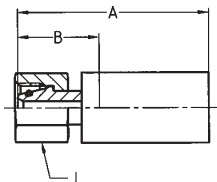
Material: Steel, surface protection according to DIN 50 961 Fe/Zn, stainless steel (1.4571) fittings available on request.

Nipple: Stainless Steel

Part No. #	DN size				Connection Type Thread Size	A mm	B mm	J mm
	mm	inch	mm	inch				
1C3YX-6-03 C2W	5	-03	4.8	3/16	M12x1.5	43	18	14
1C3YX-8-03 C2W	5	-03	4.8	3/16	M14x1.5	43	18	17
1C3YX-10-03 C2W	5	-03	4.8	3/16	M16x1.5	43	18	19
1C3YX-8-04 C2W	6	-04	6.4	1/4	M14x1.5	46	18	17
1C3YX-10-04 C2W	6	-04	6.4	1/4	M16x1.5	46	18	19
1C3YX-10-05 C2W	8	-05	7.9	5/16	M16x1.5	46	18	19
1C3YX-10-06 C2W	10	-06	9.5	3/8	M16x1.5	49	20	22
1C3YX-12-06 C2W	10	-06	9.5	3/8	M18x1.5	48	19	22
1C3YX-12-08 C2W	12	-08	12.7	1/2	M18x1.5	52	20	24
1C3YX-15-08 C2W	12	-08	12.7	1/2	M22x1.5	51	20	27

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, C2W includes stainless steel nipple (material 1.4301).

1CAYX – 24° Sealing Cone / O-Ring Light Series – Metric Swivel Nut ISO 12151-2



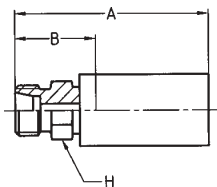
For Viton seals please add "V";
 i.e.: 1CAYX-8-10V

YX Series

Part No. #	DN size				Connection Type Thread Size	A mm	B mm	J mm
	mm	inch	mm	inch				
1CAYX-6-03	5	-03	4.8	3/16	M12x1.5	45	20	14
1CAYX-8-04	6	-04	6.4	1/4	M14x1.5	50	23	17
1CAYX-10-04	6	-04	6.4	1/4	M16x1.5	50	22	19
1CAYX-10-05	8	-05	7.9	5/16	M16x1.5	50	22	19
1CAYX-12-06	10	-06	9.5	3/8	M18x1.5	50	23	22
1CAYX-15-08	12	-08	12.7	1/2	M22x1.5	59	28	27
1CAYX-18-10	16	-10	15.9	5/8	M26x1.5	56	25	32
1CAYX-22-12	20	-12	19.0	3/4	M30x2	62	27	36
1CAYX-28-16	25	-16	25.4	1	M36x2	64	29	41

Material: Steel, surface protection according to DIN 50 961 Fe/Zn,
 special materials available upon request.
 Stainless steel (1.4571) fittings available on request.

1D0YX – Metric Male 24° Cone Light Series ISO 12151-2



YX Series

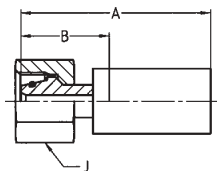
Part No. #	DN size				Connection Type Thread Size	A mm	B mm	J mm
	mm	inch	mm	inch				
1D0YX-6-03	5	-03	4.8	3/16	M12x1.5	48	23	12
1D0YX-8-04	6	-04	6.4	1/4	M14x1.5	50	23	14
1D0YX-10-05	8	-05	7.9	5/16	M16x1.5	54	26	17
1D0YX-12-06	10	-06	9.5	3/8	M18x1.5	54	27	19
1D0YX-15-08	12	-08	12.7	1/2	M22x1.5	59	28	22
1D0YX-18-10	16	-10	15.9	5/8	M26x1.5	59	28	27
1D0YX-22-12	20	-12	19.0	3/4	M30x2	67	32	30
1D0YX-28-16	25	-16	25.4	1	M36x2	67	32	36

Material: Steel, surface protection according to DIN 50 961 Fe/Zn,
 special materials available upon request.
 Stainless steel (1.4571) fittings available on request.



Hose Fittings
YX Series

1C9YX – 24° Sealing Cone / O-Ring Heavy Series – Metric Swivel Nut ISO 12151-2



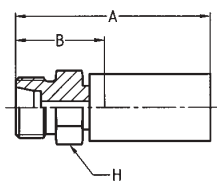
Für Viton-Dichtungen bitte „V“
anfügen;
z.B.: 1C9YX-10-04V

YX Series

Part No. #	DN size mm inch				Connection Type				
	mm	inch	Thread Size	Tube OD	A mm	B mm	J mm		
1C9YX-8-03	5	-03	4.8	3/16	M16x1.5	8	47	22	19
1C9YX-8-04	6	-04	6.4	1/4	M16x1.5	8	51	24	19
1C9YX-10-04	6	-04	6.4	1/4	M18x1.5	10	54	27	22
1C9YX-12-05	8	-05	7.9	5/16	M20x1.5	12	56	28	24
1C9YX-14-06	10	-06	9.5	3/8	M22x1.5	14	57	30	27
1C9YX-16-08	12	-08	12.7	1/2	M24x1.5	16	65	34	30
1C9YX-20-10	16	-10	15.9	5/8	M30x2	20	68	37	36
1C9YX-25-12	20	-12	19.0	3/4	M36x2	25	77	42	46
1C9YX-30-16	25	-16	25.4	1	M42x2	30	79	45	50

Material: Steel, surface protection according to DIN 50 961 Fe/Zn,
special materials available upon request.
Stainless steel (1.4571) fittings available on request.

1D2YX – Metric Male 24° Cone Heavy Series ISO 12151-2

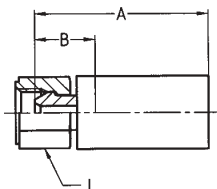


YX Series

Part No. #	DN size mm inch				Connection Type				
	mm	inch	Thread Size	Tube OD	A mm	B mm	J mm		
1D2YX-8-03	5	-03	4.8	3/16	M16x1.5	8	50	25	17
1D2YX-10-04	6	-04	6.4	1/4	M18x1.5	10	54	27	19
1D2YX-12-05	8	-05	7.9	5/16	M20x1.5	12	55	27	22
1D2YX-14-06	10	-06	9.5	3/8	M22x1.5	14	57	30	22
1D2YX-16-08	12	-08	12.7	1/2	M24x1.5	16	61	30	24
1D2YX-20-10	16	-10	15.9	5/8	M30x2	20	65	34	30
1D2YX-25-12	20	-12	19.0	3/4	M36x2	25	71	36	36
1D2YX-30-16	25	-16	25.4	1	M42x2	30	73	38	46

Material: Steel, surface protection according to DIN 50 961 Fe/Zn,
special materials available upon request.
Stainless steel (1.4571) fittings available on request.

192YX – Sealing Head (60°) BSP Swivel Nut

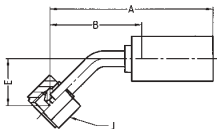


YX Series

Part No. #	DN size		mm		inch		Connection Type	A	B	J
	mm	inch	mm	inch	Thread Size	mm	mm	mm		
192YX-4-03	5	-03	4.8	3/16	G 1/4	42	16	17		
192YX-4-04	6	-04	6.3	1/4	G 1/4	44	17	17		
192YX-6-05	8	-05	7.9	3/16	G 3/8	45	17	19		
192YX-6-06	10	-06	9.5	3/8	G 3/8	46	19	22		
192YX-8-06	10	-06	9.5	3/8	G 1/2	46	19	27		
192YX-8-08	12	-08	12.7	1/2	G 1/2	52	21	27		
192YX-12-10	16	-10	15.9	5/8	G 3/4	50	19	32		
192YX-12-12	20	-12	19.0	3/4	G 3/4	56	21	32		
192YX-16-12	20	-12	19.0	3/4	G 1	56	22	41		
192YX-16-16	25	-16	25.4	1	G 1	57	22	41		
192YX-20-16	25	-16	25.4	1	G 1 1/4	58	24	50		

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request.
Stainless steel (1.4571) fittings available on request.

1B1YX – Sealing Head (60°) 45° Elbow BSP Swivel Nut



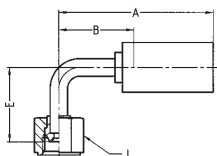
YX Series

Part No. #	DN size		mm		inch		Connection Type	A	B	E	J
	mm	inch	mm	inch	Thread Size	mm	mm	mm	mm		
1B1YX-4-03	5	-03	4.8	3/16	G 1/4	58	32	17	17		
1B1YX-4-04	6	-04	6.4	1/4	G 1/4	69	41	21	17		
1B1YX-6-05	8	-05	7.9	5/16	G 3/8	68	39	17	22		
1B1YX-6-06	10	-06	9.5	3/8	G 3/8	64	36	14	22		
1B1YX-8-06	10	-06	9.5	3/8	G 1/2	65	37	15	27		
1B1YX-8-08	12	-08	12.7	1/2	G 1/2	86	54	18	27		
1B1YX-12-10	16	-10	15.9	5/8	G 3/4	99	68	26	32		
1B1YX-12-12	20	-12	19.0	3/4	G 3/4	117	82	30	32		
1B1YX-16-16	25	-16	25.4	1	G 1	120	85	43	41		
1B1YX-20-16	25	-16	25.4	1	G 1 1/4	116	81	34	50		

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request.
Stainless steel (1.4571) fittings available on request.

Hose Fittings
YX Series

1B2YX – Sealing Head (60°) 90° Elbow BSP Swivel Nut

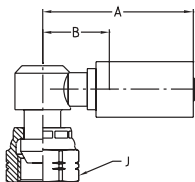


YX Series

Part No. #	DN size mm inch				Connection Type	A mm	B mm	E mm	J mm
					Thread Size				
1B2YX-4-03	5	-03	4.8	3/16	G 1/4	48	22	24	17
1B2YX-4-04	6	-04	6.4	1/4	G 1/4	58	30	30	17
1B2YX-6-05	8	-05	7.9	5/16	G 3/8	59	30	28	22
1B2YX-6-06	10	-06	9.5	3/8	G 3/8	58	30	30	22
1B2YX-8-06	10	-06	9.5	3/8	G 1/2	58	30	31	27
1B2YX-8-08	12	-08	12.7	1/2	G 1/2	74	42	38	27
1B2YX-12-10	16	-10	15.9	5/8	G 3/4	84	53	50	32
1B2YX-12-12	20	-12	19.0	3/4	G 3/4	100	65	60	32
1B2YX-16-16	25	-16	25.4	1	G 1	100	65	69	41
1B2YX-20-16	25	-16	25.4	1	G 1 1/4	100	65	70	50

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request.
Stainless steel (1.4571) fittings available on request.

1B4YX – BSP – Swivel Female 90° Compact Elbow



YX Series

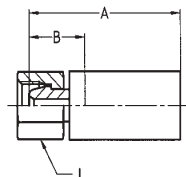
Part No. #	DN size mm inch				Connection Type	A mm	B mm	J mm
					Thread Size			
1B4YX-4-04	6	-04	6.3	1/4	G 1/4	46	19	19
1B4YX-6-05	8	-05	7.9	3/16	G 3/8	51	23	22
1B4YX-6-06	10	-06	9.5	3/8	G 3/8	51	24	22
1B4YX-8-08	12	-08	12.7	1/2	G 1/2	57	26	27

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request.
Stainless steel (1.4571) fittings available on request.

1U0YX – Sealing Head (60°)

BSP Swivel Nut

Material: Steel



YX Series

Part No. #	DN size mm inch				Connection Type	A mm	B mm	J mm
					Thread Size 			
1U0YX-2-03	5	-03	4.8	3/16	G 1/8	43	18	17
1U0YX-4-03	5	-03	4.8	3/16	G 1/4	42	16	17
1U0YX-6-03	5	-03	4.8	3/16	G 1/4	43	18	17
1U0YX-4-04	6	-04	6.4	1/4	G 1/4	45	17	17
1U0YX-6-03	5	-03	4.8	3/16	G 3/8	45	17	17
1U0YX-6-04	6	-04	6.4	1/4	G 3/8	45	17	17
1U0YX-6-05	8	-05	7.9	5/16	G 3/8	45	17	19
1U0YX-6-06	10	-06	9.5	3/8	G 3/8	48	19	22
1U0YX-8-06	10	-06	9.5	3/8	G 1/2	48	19	27
1U0YX-8-08	12	-08	12.7	1/2	G 1/2	53	21	27
1U0YX-10-08	12	-08	12.7	1/2	G 5/8	51	20	27
1U0YX-12-10	16	-10	15.9	5/8	G 3/4	50	19	32
1U0YX-12-12	20	-12	19.0	3/4	G 3/4	56	21	32
1U0YX-16-12	20	-12	19.0	3/4	G 1	56	22	41
1U0YX-16-16	25	-16	25.4	1	G 1	57	22	41
1U0YX-20-16	25	-16	25.4	1	G 1 1/4	58	24	50

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, stainless steel (1.4571) fittings available on request.

Nipple: Stainless Steel

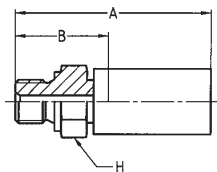


Part No. #	DN size mm inch				Connection Type	A mm	B mm	J mm
					Thread Size 			
1U0YX-4-03 C2W	5	-03	4.8	3/16	G 1/4	42	16	17
1U0YX-4-04 C2W	6	-04	6.4	1/4	G 1/4	45	17	17
1U0YX-6-03 C2W	5	-03	4.8	3/16	G 3/8	45	17	17
1U0YX-6-04 C2W	6	-04	6.4	1/4	G 3/8	45	17	17
1U0YX-6-05 C2W	8	-05	7.9	5/16	G 3/8	45	17	19
1U0YX-6-06 C2W	10	-06	9.5	3/8	G 3/8	48	19	22
1U0YX-8-06 C2W	10	-06	9.5	3/8	G 1/2	48	19	27
1U0YX-8-08 C2W	12	-08	12.7	1/2	G 1/2	53	21	27
1U0YX-12-10 C2W	16	-10	15.9	5/8	G 3/4	50	19	32
1U0YX-12-12 C2W	20	-12	19.0	3/4	G 3/4	56	21	32
1U0YX-16-12 C2W	20	-12	19.0	3/4	G 1	56	22	41
1U0YX-16-16 C2W	25	-16	25.4	1	G 1	57	22	41
1U0YX-20-16 C2W	25	-16	25.4	1	G 1 1/4	58	24	50

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, C2W includes stainless steel nipple (material 1.4301).

Hose Fittings
YX Series

1D9YX – BSP Male DIN 3852 Shape A

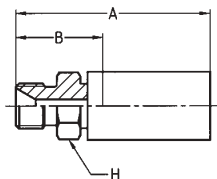


YX Series

Part No. #	DN size mm inch				Connection Type	A mm	B mm	J mm
					Thread Size 			
1D9YX-2-03	5	-03	4.8	3/16	G 1/8	48	22	14
1D9YX-4-03	5	-03	4.8	3/16	G 1/4	54	29	19
1D9YX-4-04	6	-04	6.4	1/4	G 1/4	58	29	19
1D9YX-6-05	8	-05	7.9	5/16	G 3/8	58	29	22
1D9YX-4-06	10	-06	9.5	3/8	G 1/4	57	30	19
1D9YX-6-06	10	-06	9.5	3/8	G 3/8	58	30	22
1D9YX-8-06	10	-06	9.5	3/8	G 1/2	60	33	27
1D9YX-8-08	12	-08	12.7	1/2	G 1/2	64	33	27
1D9YX-12-10	16	-10	15.9	5/8	G 3/4	66	35	32
1D9YX-12-12	20	-12	19.0	3/4	G 3/4	72	37	32
1D9YX-16-12	20	-12	19.0	3/4	G 1	74	39	41
1D9YX-20-16	25	-16	25.4	1	G 1 1/4	76	41	50

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request.
Stainless steel (1.4571) fittings available on request.

13BYX – BSP Male - 60° Cone

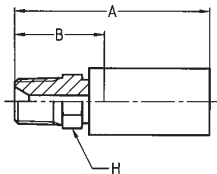


YX Series

Part No. #	DN size mm inch				Connection Type	A mm	B mm	J mm
					Thread Size 			
13BYX-2-03	5	-03	4.8	3/16	G 1/8	48	22	14
13BYX-4-03	5	-03	4.8	3/16	G 1/4	51	26	17
13BYX-4-04	6	-04	6.4	1/4	G 1/4	53	26	17
13BYX-6-05	8	-05	7.9	5/16	G 3/8	57	28	22
13BYX-6-06	10	-06	9.5	3/8	G 3/8	57	29	22
13BYX-8-06	10	-06	9.5	3/8	G 1/2	62	34	24
13BYX-8-08	12	-08	12.7	1/2	G 1/2	66	34	24
13BYX-12-10	16	-10	15.9	5/8	G 3/4	69	38	32
13BYX-12-12	20	-12	19.0	3/4	G 3/4	73	38	32
13BYX-16-12	20	-12	19.0	3/4	G 1	82	47	36
13BYX-16-16	25	-16	25.4	1	G 1	82	47	36
13BYX-20-16	25	-16	25.4	1	G 1 1/4	84	49	50

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request.
Stainless steel (1.4571) fittings available on request.

101YX – NPTF Male - 60° Cone

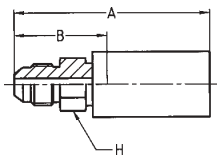


YX Series

Part No. #	DN size mm inch				Connection Type	A mm	B mm	J mm
					Thread Size 			
101YX-2-03	5	-03	4.8	3/16	1/8 - 27NPTF	48	23	12
101YX-4-03	5	-03	4.8	3/16	1/4 - 18NPTF	52	27	14
101YX-4-04	6	-04	6.4	1/4	1/4 - 18NPTF	54	27	14
101YX-6-04	6	-04	6.4	1/4	3/8 - 18NPTF	56	29	19
101YX-6-05	8	-05	7.9	5/16	3/8 - 18NPTF	57	29	19
101YX-4-06	10	-06	9.5	3/8	1/4 - 18NPTF	55	28	14
101YX-6-06	10	-06	9.5	3/8	3/8 - 18NPTF	57	30	19
101YX-6-08	12	-08	12.7	1/2	3/8 - 18NPTF	61	30	19
101YX-8-08	12	-08	12.7	1/2	1/2 - 14NPTF	66	35	22
101YX-12-10	16	-10	15.9	5/8	3/4 - 14NPTF	66	35	27
101YX-12-12	20	-12	19.0	3/4	3/4 - 14NPTF	70	35	27
101YX-16-12	20	-12	19.0	3/4	1 - 11 1/2NPTF	77	42	36
101YX-16-16	25	-16	25.4	1	1 - 11 1/2NPTF	78	42	36

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request.
 Stainless steel (1.4571) fittings available on request.

103YX – JIC Male 37° Cone



YX Series

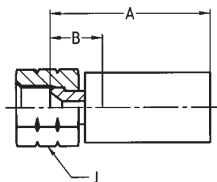
Part No. #	DN size mm inch				Connection Type	A mm	B mm	J mm
					Thread Size 			
103YX-4-03	5	-03	4.8	3/16	7/16 - 20UNF	52	27	14
103YX-5-04	6	-04	6.4	1/4	1/2 - 20UNF	56	29	14
103YX-6-05	8	-05	7.9	5/16	9/16 - 18UNF	57	29	17
103YX-8-06	10	-06	9.5	3/8	3/4 - 16UNF	60	33	22
103YX-10-08	12	-08	12.7	1/2	7/8 - 14UNF	70	38	24
103YX-12-10	16	-10	15.9	5/8	1 1/16 - 12UNF	71	40	30
103YX-16-12	20	-12	19.0	3/4	1 5/16 - 12UNF	76	41	36
103YX-20-16	25	-16	25.4	1	1 5/8 - 12UNF	78	43	46

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request.
 Stainless steel (1.4571) fittings available on request.



Hose Fittings
YX Series

106YX – JIC - 37° Cone UNF Swivel Nut



YX Series

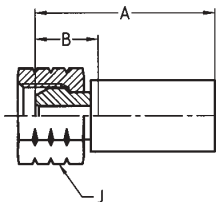
Part No. #	DN size				Connection Type Thread Size	A mm	B mm	J mm
	mm	inch						
106YX-4-03	5	-03	4.8	3/16	7/16 - 20UNF	40	15	17
106YX-5-04	6	-04	6.4	1/4	1/2 - 20UNF	42	15	19
106YX-6-05	8	-05	7.9	5/16	9/16 - 18UNF	45	17	19
106YX-8-06	10	-06	9.5	3/8	3/4 - 16UNF	46	19	24
106YX-10-08	12	-08	12.7	1/2	7/8 - 14UNF	49	18	27
106YX-12-10	16	-10	15.9	5/8	1 1/16 - 12UNF	50	19	32
106YX-16-12	20	-12	19.0	3/4	1 5/16 - 12UNF	56	22	41
106YX-20-16	25	-16	25.4	1	1 5/8 - 12UNF	56	22	50

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request.
Stainless steel (1.4571) fittings available on request.

107YX – 60° Sealing Cone

NPSM Swivel Nut

Material: Steel



YX Series

Part No. #	DN size mm inch			Connection Type		A mm	B mm	J mm
				Thread Size				
107YX-4-03	5	-03	4.8	3/16	1/4 - 18NPSM	44	19	17
107YX-2-03	5	-03	4.8	3/16	1/8 - 27NPSM	47	21	17
107YX-4-04	6	-04	6.4	1/4	1/4 - 18NPSM	47	19	19
107YX-6-05	8	-05	7.9	5/16	3/8 - 18NPSM	48	20	22
107YX-6-06	10	-06	9.5	3/8	3/8 - 18NPSM	50	21	22
107YX-8-08	12	-08	12.7	1/2	1/2 - 14NPSM	51	19	27
107YX-12-10	16	-10	15.9	5/8	3/4 - 14NPSM	53	22	32
107YX-12-12	20	-12	19.0	3/4	3/4 - 14NPSM	59	24	32

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, stainless steel (1.4571) fittings available on request.

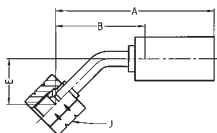
Nipple: Stainless Steel

Part No. #	DN size mm inch			Connection Type		A mm	B mm	J mm
				Thread Size				
107YX-4-03 C2W	5	-03	4.8	3/16	1/4 - 18NPSM	44	19	17
107YX-2-03 C2W	5	-03	4.8	3/16	1/8 - 27NPSM	47	21	17
107YX-4-04 C2W	6	-04	6.4	1/4	1/4 - 18NPSM	47	19	19
107YX-6-05 C2W	8	-05	7.9	5/16	3/8 - 18NPSM	48	20	22
107YX-6-06 C2W	10	-06	9.5	3/8	3/8 - 18NPSM	50	21	22
107YX-8-08 C2W	12	-08	12.7	1/2	1/2 - 14NPSM	51	19	27
107YX-12-10 C2W	16	-10	15.9	5/8	3/4 - 14NPSM	53	22	32
107YX-12-12 C2W	20	-12	19.0	3/4	3/4 - 14NPSM	59	24	32

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, C2W includes stainless steel nipple (material 1.4301). Stainless steel (1.4571) fittings available on request.

Hose Fittings
YX Series

137YX – JIC - 37° Cone 45° Elbow UNF Swivel Nut

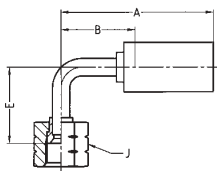


YX Series

Part No.	DN size		mm		inch		Connection Type	A	B	E	J
#	mm		inch		Thread Size	mm	mm	mm	mm	mm	
137YX-4-03	5	-03	4.8	3/16	7/16 - 20UNF	57	31	16	17		
137YX-5-04	6	-04	6.4	1/4	1/2 - 20UNF	69	41	21	19		
137YX-6-05	8	-05	7.9	5/16	9/16 - 18UNF	67	38	16	19		
137YX-8-06	10	-06	9.5	3/8	3/4 - 16UNF	65	37	15	24		
137YX-10-08	12	-08	12.7	1/2	7/8 - 14UNF	81	49	19	27		
137YX-12-10	16	-10	15.9	5/8	1 1/16 - 12UNF	96	65	27	32		
137YX-16-12	20	-12	19.0	3/4	1 5/16 - 12UNF	114	79	32	41		
137YX-20-16	25	-16	25.4	1	1 5/8 - 12UNF	113	78	36	50		

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request.
Stainless steel (1.4571) fittings available on request.

139YX – JIC - 37° Cone 90° Elbow UNF Swivel Nut



YX Series

Part No.	DN size		mm		inch		Connection Type	A	B	E	J
#	mm		inch		Thread Size	mm	mm	mm	mm	mm	
139YX-4-03	5	-03	4.8	3/16	7/16 - 20UNF	48	22	24	17		
139YX-5-04	6	-04	6.4	1/4	1/2 - 20UNF	58	30	31	19		
139YX-6-05	8	-05	7.9	5/16	9/16 - 18UNF	59	30	28	19		
139YX-8-06	10	-06	9.5	3/8	3/4 - 16UNF	58	30	31	24		
139YX-10-08	12	-08	12.7	1/2	7/8 - 14UNF	74	42	39	27		
139YX-12-10	16	-10	15.9	5/8	1 1/16 - 12UNF	84	53	52	32		
139YX-16-12	20	-12	19.0	3/4	1 5/16 - 12UNF	100	65	62	41		
139YX-20-16	25	-16	25.4	1	1 5/8 - 12UNF	100	65	73	50		

Material: Steel, surface protection according to DIN 50 961 Fe/Zn, special materials available upon request.
Stainless steel (1.4571) fittings available on request.

L – Thermoplastic Tubing

<i>presto</i> single tubes and tube bundles	L2
<i>presto</i> polyurethane tubes – Single tubes	L3
<i>presto</i> polyurethane tubes – Twin-line tubes	L4
<i>presto</i> polyamide tubes – Single tubes	L5
<i>presto</i> polyethylene tubes – Single tubes	L6
Airbrake tubing	L7
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Tube bundles – Technical details and packaging information	L9
Plastic tube cutter	L10
Dismantling tool	L10
Pneumatic multiconnectors	L10
FEP, PFA, TFE tubing	L11
<i>prestoweld 2</i> tubing – weld spark resistant	L12



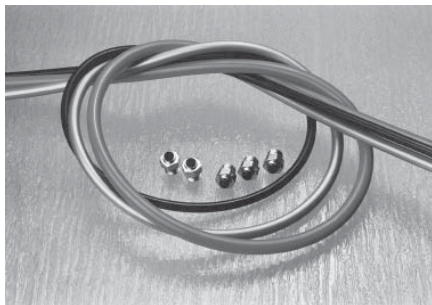
Thermoplastic Tubing
Single tubes and tube bundles

presto single tubes and tube bundles

The *presto* polyurethane tubing features excellent flexibility and kink resistance. In combination with the wide range of Parker fittings it provides the optimum solution for pressurised air applications.

Working pressures shown are based on a design factor of 3:1.

presto Tubing is not approved for food applications.



All *presto* tubing in metric and imperial dimensions is TÜV and MUC-KSP-A 039 A III tested and manufactured to international standards.

The *prestolok* push in fitting range is also TÜV tested for outside tube dimensions.

presto tubing is manufactured to be fully compatible with Parkers wide range of compression, push-in & screw type fittings. Refer to **Pneumatic connectors handbook 0093-GB** and catalogue **4660-World Standard** for TrueSeal™ and Fast & Tite® products.








Standard Packaging of all *presto* tube products is polyethylene bags. Dispensing cardboard boxes (K) are available on request.

presto polyurethane tubes (52 Shore D)

– Single tubes –






Working pressures shown are based on a design factor of 3:1.
Temperature range: -35 °C up to +80 °C

Polyurethane (TPU) metric single tubes with O.D. within the limits of CETOP RP 54P

Part No. PU metric #	Tube size		Maximum working pressure MPa			Minimum bend radius mm 	Weight g/m 
	 O.D. mm	 I.D. mm					
			-35 °C to +23 °C	-35 °C to +40 °C	-35 °C to +60 °C		
TPU 3 x 0.5	3.0	2.0	1.2	0.9	0.8	13	5
TPU 4 x 0.75	4.0	2.5	1.4	1.1	0.9	17	9
TPU 6 x 1	6.0	4.0	1.2	0.9	0.8	27	19
TPU 8 x 1.25	8.0	5.5	1.1	0.9	0.7	37	32
TPU 10 x 1.5	10.0	7.0	1.0	0.8	0.7	54	49
TPU 12 x 2	12.0	8.0	1.2	0.9	0.8	62	77
TPU 16 x 2.5	16.0	11.0	1.1	0.9	0.7	88	129

For Prestolok push-in fittings (TÜV tested).

Polyurethane (TPU) single tubes (imperial)

Part No. PU inch #	Tube size				Maximum working pressure MPa			Minimum bend radius inch 	Weight g/m 
	 O.D.		 I.D.						
	inch	mm	inch	mm	-35 °C to +23 °C	-35 °C to +40 °C	-35 °C to +60 °C		
TPU 1/8	1/8	3.2	0.089	2.3	1.0	0.8	0.7	0.520	5
TPU 5/32	5/32	4.0	0.102	2.6	1.2	1.0	0.8	0.669	9
TPU 3/16	3/16	4.8	0.114	2.9	1.4	1.2	1.0	0.787	14
TPU 1/4	1/4	6.4	0.158	4.0	1.3	1.1	0.9	0.866	23
TPU 5/16	5/16	7.9	0.224	5.7	1.0	0.8	0.7	1.457	29
TPU 3/8	3/8	9.5	0.256	6.5	1.1	0.9	0.8	1.732	46
TPU 1/2	1/2	12.7	0.343	8.7	1.1	0.9	0.7	2.560	82

For Prestolok push-in fittings (TÜV tested).

Polyurethane single tube tolerances in mm	Tube O.D. 3 to 8 mm ± 0,1	Tube O.D. 10 to 16 mm ± 0,15
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Colour codes:

Natural 1	Red 2	Blue 3	Green 4	Black 5	Brown 6	Yellow 7	Orange 8	Gray 9	Purple 10	Pink 11	White 12	Silver 13
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Thermoplastic Tubing

Polyurethane tubes – Twin-line tubes

presto polyurethane Tubes






– Twin-line tubes –

Two tubes are permanently joined to make a pair. For assembly, the tube pair is separated at either end to the required length. Additional multi-line tubes are available on request.

Working pressures shown are based on a design factor of 3:1.

Temperature range: -35 °C up to +80 °C

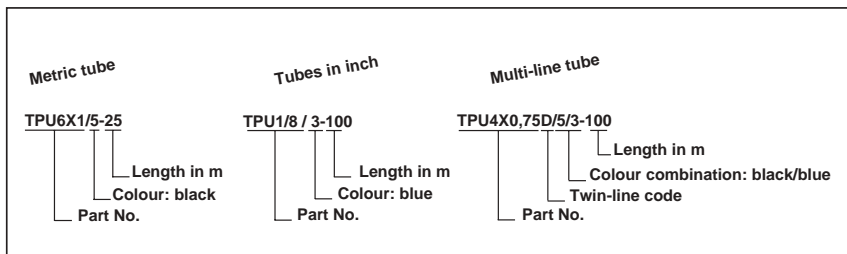
Polyurethane (TPU) metric twin-line tubes with O.D. within the limits of CETOP RP 54P

Part No. PU metric #	Tube size		Maximum working pressure MPa			Minimum bend radius mm 	Weight g/m 
	O.D. mm 	I.D. mm 	-35 °C to +23 °C	-35 °C to +40 °C 	-35 °C to +60 °C		
TPU 4 x 0.75D	4.0	2.5	1.0	0.9	0.7	17	19
TPU 6 x 1D	6.0	4.0	1.0	0.9	0.7	27	38
TPU 8 x 1.25D	8.0	5.5	1.0	0.9	0.7	37	65
TPU 10 x 1.5D	10.0	7.0	1.0	0.9	0.7	54	98

For Prestolok push-in fittings (TÜV tested).

Ordering keys for single and multi-line tubes

Examples:



Colour codes:

Natural 1	Red 2	Blue 3	Green 4	Black 5	Brown 6	Yellow 7	Orange 8	Gray 9	Purple 10	Pink 11	White 12	Silver 13
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presto polyamide tubes – Single tubes –



Polyamide tubing is extruded in polyamide PA12. This heat & light stabilised material meets or exceeds the DIN 73378, BS5409 PT 1 and the CETOP RP54P requirements. DIN 74 324 tubing available on request (for airbrake applications).

Working pressures shown are based on a design factor of 3:1.
Temperature range: -40 °C up to +100 °C (acc. DIN 74324)

Polyamide (PA) metric single tubes

Part No. #	Tube O.D. x wall thickness 	Maximum working pressure MPa			Minimum bend radius mm 	Weight g/m 
		-40 °C to +23 °C	-40 °C to +40 °C 	-40 °C to +60 °C		
N3X0.60	3 x 0.60 mm	3.3	2.5	1.9	15	5
N4X0.65	4 x 0.65 mm	2.6	1.9	1.5	30	7
N4X1	4 x 1 mm	4.4	3.3	2.5	20	10
N5X1	5 x 1 mm	3.3	2.5	1.9	30	13
N6X1	6 x 1 mm	2.7	2.0	1.5	30	16
N8X1	8 x 1 mm	1.9	1.4	1.1	40	23
N8X1.25	8 x 1.25 mm	2.5	1.8	1.4	35	28
N10X1	10 x 1 mm	1.5	1.1	0.8	60	29
N10X1.25	10 x 1.25 mm	1.9	1.4	1.1	60	36
N10X1.5	10 x 1.5 mm	2.4	1.7	1.3	60	42
N12X1	12 x 1 mm	1.2	0.9	0.7	85	36
N12X1.5	12 x 1.5 mm	1.9	1.4	1.1	60	52
N12X1.75	12 x 1.75 mm	2.3	1.7	1.3	60	59
N14X1.5	14 x 1.5 mm	1.6	1.2	0.9	75	61
N16X1.5	16 x 1.5 mm	1.4	1.0	0.8	105	71
N16X2	16 x 2 mm	1.9	1.4	1.1	95	92
N22X2.5	22 x 2.5 mm	1.7	1.3	1.0	125	159

Polyamide (PA) single tubes (imperial)

2X022N	1/8 x 0.022 in	3.2 x 0.56 mm	2.8	2.1	1.6	20	5
2X025N	1/8 x 0.025 in	3.2 x 0.64 mm	3.3	2.5	1.9	20	5
3X025N	3/16 x 0.025 in	4.8 x 0.64 mm	2.1	1.5	1.2	35	9
4X030N	1/4 x 0.030 in	6.4 x 0.76 mm	1.8	1.3	1.0	45	14
4X040N	1/4 x 0.040 in	6.4 x 1.02 mm	2.5	1.9	1.4	30	18
5X031N	5/16 x 0.031 in	7.9 x 0.79 mm	1.5	1.1	0.8	40	18
6X055N	3/8 x 0.055 in	9.5 x 1.40 mm	2.3	1.7	1.3	60	37
6X062N	3/8 x 0.062 in	9.5 x 1.57 mm	2.6	2.0	1.5	60	41
8X062N	1/2 x 0.062 in	12.7 x 1.57 mm	1.9	1.4	1.1	75	57
10X062N	5/8 x 0.062 in	15.9 x 1.57 mm	1.5	1.1	0.8	100	74
12X078N	3/4 x 0.078 in	19.0 x 1.98 mm	1.5	1.1	0.9	120	111

*1 MPa = 10 bar

Polyamide single tube tolerances in mm	Tube O.D. 3 to 5 mm + 0,05 / - 0,08	Tube O.D. 6 to 16 mm + 0,05 / - 0,10
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Thermoplastic Tubing Polyethylene tubes – Single tubes

prest polyethylene tubes – Single tubes –

prest soft polyethylene tubing is manufactured to ASTM D-1248, type 1, E5 to achieve maximum environmental stress cracking resistance.

Working pressures shown are based on a design factor of 3:1.
Temperature range: -30 °C up to +60 °C

Polyethylene (PE) metric single tubes

Part No. #	Tube O.D. x wall thickness 	Maximum working pressure MPa			Minimum bend radius mm 	Weight g/m 
		0 °C to +23 °C	 0 °C to +40 °C	0 °C to +60 °C		
L4X1	4 x 1 mm	2.14	1.60	1.07	25	9
L6X1	6 x 1 mm	1.31	0.98	0.66	35	15
L8X1	8 x 1 mm	0.93	0.70	0.47	55	20
L10X1	10 x 1 mm	0.72	0.54	0.36	85	26
L12X2	12 x 2 mm	1.24	0.93	0.62	75	58
L16X2	16 x 2 mm	0.97	0.72	0.48	90	82

Polyethylene (PE) single tubes (imperial)

2X022L	1/8 x 0.022 in	3.2 x 0.56 mm	1.38	1.03	0.69	20	4
4X040L	1/4 x 0.040 in	6.4 x 1.02 mm	1.24	0.93	0.62	30	16
6X062L	3/8 x 0.062 in	9.5 x 1.57 mm	1.31	0.98	0.66	60	37
8X062L	1/2 x 0.062 in	12.7 x 1.57 mm	0.97	0.72	0.48	75	51
8X080L	1/2 x 0.080 in	12.7 x 2.03 mm	1.21	0.91	0.60	75	63
10X080L	5/8 x 0.080 in	15.9 x 2.03 mm	0.97	0.72	0.48	90	82

*1 MPa = 10 bar

Correction factors for working pressures at lower temperatures	-30 °C to -20 °C: 0.7	-20 °C to 0 °C: 0.8
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Polyethylene single tube tolerances in mm	Tube O.D. 3 to 5 mm + 0.05 / - 0.08	Tube O.D. 6 to 16 mm + 0.05 / - 0.10
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Ordering key	
Examples: N6X1/5-25K	2X022L/1-100
<ul style="list-style-type: none"> Cardboard packaging Length in m Colour: black Wall thickness in mm O.D. in mm Polyamide 	<ul style="list-style-type: none"> Length in m Colour: natural Polyethylene Wall thickness in inch O.D. in inch

Colour codes:

Natural 1	Red 2	Blue 3	Green 4	Black 5	Brown 6	Yellow 7	Orange 8	Gray 9	Purple 10	Pink 11	White 12	Silver 13
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Airbrake tubing Prestomatic 2

Material PA12



Part No. #	Tube size		Wall Thickness mm	Maximum working pressure MPa	Minimum bend radius mm	Weight g/m
	O.D. mm	I.D. mm				
N6x1/5/PMT2-100	6.0	4.0	1.00	2.7	30	16
N8x1/5/PMT2-100	8.0	6.0	1.00	1.9	40	23
N10x1.25/5/PMT2-100	10.0	7.5	1.25	1.9	60	36
N12x1.5/5/PMT2-100	12.0	9.0	1.50	1.9	60	52
N16x2/5/PMT2-100	16.0	12.0	2.00	1.9	95	92

The standard length is 100 meters, other lengths are available on request.

The standard colour is black.

If more than 5000 meters are ordered, other colours will become available.

Airbrake tubing according to DIN 74324

Material PA12



Part No. #	Tube size		Wall Thickness mm	Maximum working pressure MPa	Minimum bend radius mm	Weight g/m
	O.D. mm	I.D. mm				
N4x1/74324-100	4.0	2.0	1.00	5.6	20	9.6
N6x1/74324-100	6.0	4.0	1.00	3.3	30	16.0
N8x1/74324-100	8.0	6.0	1.00	2.4	40	22.4
N10x1/74324-100	10.0	8.0	1.00	1.9	60	28.8
N10x1.25/74324-100	10.0	7.5	1.25	2.4	60	35.0
N12x1.5/74324-100	12.0	9.0	1.50	2.4	60	50.5
N15x1.5/74324-100	15.0	12.0	1.50	1.9	90	64.9
N16x2/74324-100	16.0	12.0	2.00	2.4	95	89.7
N18x2/74324-100	18.0	14.0	2.00	2.1	100	102.5

The standard length is 100 meters, other lengths are available on request.

The standard colour is black.

If more than 5000 meters are ordered, other colours will become available.

Thermoplastic Tubing
Tube bundles

Single line tubing PVC sheathed

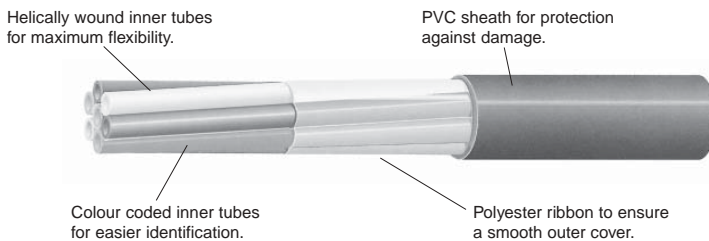


For applications where the tubing requires additional protection from abrasion or the environment.

The standard product has a natural coloured core tube with a black PVC sheath. Other colour combinations are available on request.

Tube bundles

for maximum safety and minimum installation work



Parker tube bundles are a high-quality thermoplastic product designed specifically for process control and monitoring applications.

Parker tube bundles are excellent for use in hydraulic and pneumatic systems.

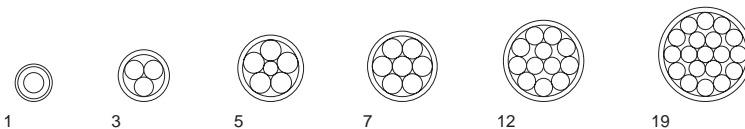
The PVC coat protects the product against mechanical and chemical damage.

The combination of different tube materials in a **Parker** tube bundle allows their application in almost all industrial areas.







Each tube can be easily and quickly identified by its colour and position within the helically wound bundle. The single tubes are marked in intervals of max. 500 mm as standard.

In addition to the standard range (STS), extra thick sheath (ETS), and steel wire armour (SWA) constructions are also available.

Standard configurations are available in lengths of max. 1000 m.



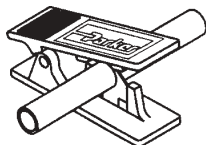
Technical details and packaging information

Configuration	Part No. #	Thickness of Sheath mm	Nominal O.D. mm	Min. Bend Radius mm	Weight kg/100m	100m Coil Dimensions Dia x Width mm	Standard Length m
	P01N4X0.65STS	1.0	6.0	20	3.1	400 x 80	100
	P01N6X1STS	1.0	8.0	30	4.9	500 x 80	100
	P01N8X1STS	1.0	10.0	40	6.6	700 x 80	100
	P01N8X1.25STS	1.0	10.0	35	7.1	700 x 80	100
	P01N10X1STS	1.0	12.0	60	8.0	700 x 80	100
	P01N10X1.25STS	1.0	12.0	60	8.9	700 x 80	100
	P01N12X1STS	1.0	14.0	85	9.8	700 x 150	100
	P01N12X1.5STS	1.0	14.0	60	11.3	700 x 150	100
	P01N14X1.5STS	1.0	16.0	75	13.3	700 x 150	100
	P03N4X0.65STS	2.0	13.0	65	13.0	700 x 150	100
	P03N6X1STS	2.0	17.0	90	19.0	700 x 150	100
	P03N8X1STS	2.0	22.0	105	25.0	850 x 280	100
	P05N4X0.65STS	2.0	15.0	75	16.0	700 x 150	100
	P05N6X1STS	2.0	20.0	105	26.0	800 x 280	100
	P05N8X1STS	2.5	27.0	135	41.0	950 x 300	100
	P07N4X0.65STS	2.0	16.0	80	19.0	700 x 150	100
	P07N6X1STS	2.0	22.0	115	32.0	850 x 280	100
	P07N8X1STS	2.5	29.0	150	48.0	950 x 320	100
	P12N4X0.65STS	2.0	21.0	105	27.0	850 x 280	100
	P12N6X1STS	2.0	29.0	150	48.0	1000 x 300	100
	P12N8X1STS	2.5	38.0	185	70.0	1100 x 320	100
	P19N6X1STS	2.5	35.0	180	72.0	1100 x 320	100



Thermoplastic Tubing
Plastic tube cutter and dismantling tool

Plastic tube cutter



An easy to handle razor/edged tube cutter, assuring clean and square cuts. May be used with polyethylene, polypropylene, nylon and other plastic tubing.

Part Number: PTC

Replacement blades: **PTC-001-RB**

Dismantling tool for single line tubing PVC sheathed

The HEXACUT tool provides a safe and clean cut avoiding any damages to the Polyamide inner core tube. A solid casing and quick and easy handling makes it an efficient tool.

Part No. #	Related Prestoweld tube
HEXACUT14/4	P01N4x0.65STS P01N14x1.5STS
HEXACUT8/6	P01N6x1STS P01N8x1STS P01N8x1.25STS
HEXACUT12/10	P01N10x1.25STS P01N12x1STS P01N12x1.25STS

Pneumatic multiconnectors

The new pneumatic TL multiconnector from Parker allows the simultaneous connection of 2 to 7 tubes of different diameters (4, 6, or 8 mm) by using a combination of Presto-lok TL fittings. The pneumatic multivconnectors are available in different configurations for various applications. Detailed information available on request.



FEP, PFA and TFE tubing

Safety factor: 3:1
Standard length: 100 m

FEP tubing **Temperature range:** -200 °C up to +205 °C

Part No. #	Tube O.D. x wall thickness in mm	Maximum working pressure in MPa at +23° C		Minimum bend radius mm	Weight g/m
FEP 4 x 1	4 x 1	2.7	390	20	20.0
FEP 6 x 1	6 x 1	1.6	230	30	33.3
FEP 8 x 1	8 x 1	1.1	160	40	46.6
FEP 10 x 1	10 x 1	0.9	130	60	59.9
FEP 12 x 1	12 x 1	0.7	100	85	73.3

PFA tubing **Temperature range:** -200 °C up to +260 °C

Part No. #	Tube O.D. x wall thickness in mm	Maximum working pressure in MPa at +23° C		Minimum bend radius mm	Weight g/m
PFA 4 x 1	4 x 1	2.7	390	20	20.0
PFA 6 x 1	6 x 1	1.6	230	30	33.3
PFA 8 x 1	8 x 1	1.1	160	40	46.6
PFA 10 x 1	10 x 1	0.9	130	60	59.9
PFA 12 x 1	12 x 1	0.7	100	85	73.3

TFE tubing **Temperature range:** -200 °C up to +260 °C

Part No. #	Tube O.D. x wall thickness in mm	Maximum working pressure in MPa at +23° C		Minimum bend radius mm	Weight g/m
TFE 4 x 1	4 x 1	2.7	390	20	20.5
TFE 6 x 1	6 x 1	1.6	230	30	34.2
TFE 8 x 1	8 x 1	1.1	160	40	47.8
TFE 10 x 1	10 x 1	0.9	130	60	61.5
TFE 12 x 1	12 x 1	0.7	100	85	75.2







Correction factors for working pressures at higher temperatures

Temperature °C	Correction Factor
50	0.87
75	0.77
100	0.68
150	0.53
200	0.39
250	0.28

Thermoplastic Tubing
Prestoweld 2 tubing

prestoweld 2
Polyurethane tubes – weld spark resistant

prestoweld 2 tubing is made of weld spark resistant Polyurethane and therefore the ideal solution for water and air supply of welding robots. *prestoweld 2* guarantees a simple, fast and reliable assembly without additional tools.

Part number #	Inside Diameter mm 	Outside Diameter mm 	Max. Working Pressure at 23 °C MPa psi 		Min. Burst Pressure MPa psi 		Min. Bend Radius mm 	Weight g/m 
PWPU 4x1/5-W-100	2,0	4,0	2,8	406	8,4	1.218	8	12,0
PWPU 6x1/5-W-100	4,0	6,0	1,6	232	5,0	725	15	20,0
PWPU 8x1,5/5-W-100	5,0	8,0	1,9	276	5,8	841	16	38,9
PWPU 8x2/5-W-100	4,0	8,0	2,8	406	8,4	1.218	16	47,9
PWPU 10x2/5-W-50	6,0	10,0	2,1	305	6,3	914	21	63,9
PWPU 12x2/5-W-50	8,0	12,0	1,6	232	5,0	725	30	79,9
PWPU 14x2/5-W-50	10,0	14,0	1,6	232	4,2	609	47	95,8

Packaging: In cardboard boxes. 100 m or 50 m, depending on size (see Part number).

Correction factors for burst and working pressures at higher temperatures

Temperature °C	Correction Factor
-30 to +23	1.00
+40	0.77
+60	0.56
+80	0.46
+90	0.42

For *prestoweld 2* push-in fittings refer to Pneumatic connectors handbook 0093-GB

M – Accessories

Selection Guide for Parker Spring Guards and Armour Guards	M2
Bulk Steel Spring Guards	M3
Special Cut-to-length Spring Guards	M3
High Pressure Safety Guard Kit	M4
Parflex CNG Hose Guard Kit	M4
PVC-S – Anti-Abrasion Sleeve	M5
HS – Containment Grips	M5
KNH – Anti-kink Sleeve	M6
Tape	M6



Accessories

Selection Guide for Parker Spring Guards and Armour Guards

Selection Guide for Parker Spring Guards and Armour Guards

Parker hose guards prolong the life of hoses that are exposed to rugged operating conditions. In addition to protecting the hose from abrasion and cutting, they distribute the bending radii to help prevent kinking.

Hose Style	Armour Guards/Spring Guards								
	55AG-3 55SG-3	55AG-4 55SG-4	55AG-5 55SG-5	55AG-6 55SG-6	55AG-8 55SG-8	55AG-12 55SG-12	55AG-16 55SG-16	58AG-12 58SG-12	58AG-16 58SG-16
510A/510C/518C	-2, -3	-4	-5	-6	-8	-12	-16		
520N/528N	-2	-4	-5	-6	-8				
540N	-2, -3	-4	-5	-6	-8	-12			
550H/55LT	-2, -3	-4	-5	-6	-8	-10, -12	-16		
575X	-3	-4		-6	-8		-12		
580N/588N				-4	-6	-8, -10		-12	-16
573X/573XL	-3								-16
590	-3	-4		-6	-8	-10		-12	-16
GPH	-3	-4, -5	-5	-6	-8	-10, -12	-16		
515H	-3, -4	-5	-6		-8				

Bulk Steel Spring Guards / Special Cut-to-length Spring Guards

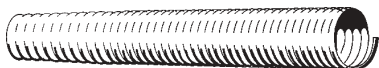
Bulk Steel Spring Guards (electroplated hard drawn-steel wire)



Part No. #	Guard I.D. mm 	Standard Length m
55SG-3	11.9	7.62
55SG-4	13.9	7.62
55SG-5	15.5	7.62
55SG-6	17.0	7.62
55SG-8	21.1	7.62
55SG-12	27.7	3.05
55SG-16	34.3	3.05
58SG-12	29.9	3.05
58SG-16	38.4	3.05

For hose type please refer to selection guide page M2.

Special Cut-to-length Spring Guards (plated, hard drawn-steel wire)



Special configurations available upon request. Contact factory

Standard

Part No. #	Guard I.D. mm 	Standard Length mm
55SSG-3	11.9	127.0
55SSG-4	14.0	127.0
55SSG-5	15.5	127.0
55SSG-6	17.3	127.0
55SSG-8	21.1	127.0
55SSG-12	27.7	177.8

For hose type please refer to selection guide page M2.

**For Hose Types
2040N/2040H/2245N/2370N/2380N**

Part No. #	Hose Type			Standard Length mm
1709	2040N-02V22			100
1713,5	2040H-04	2040N-04		140
1715,5	2245N-04			160
1717	2040H-05	2040N-05	2370N-04	170
1718,5	2040H-06	2040N-06	2370N-05	200
1718,5/16	2380N-04			200
1721	2370N-06			200
1728	2040H-10			180

For CNG Hose

Part No. #	Guard I.D. mm 	Standard Length mm
3PSG-2	9.9	116.8
3PSG-3	11.7	134.6
3PSG-4	13.7	158.8
3PSG-6	18.3	165.1
5PSG-4	16.0	158.8
5PSG-6	19.8	165.1
5PSG-8	22.9	165.1

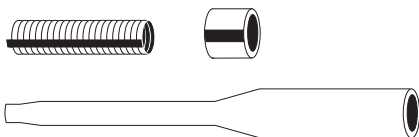
M

Accessories

High Pressure Safety Guard Kit / Parflex CNG Hose Guard Kit

High Pressure Safety Guard Kit for Parker HP®- or HP8®-Hose

Each guard kit contains two colour-coded, preassembled guards (305 mm or 585 mm) with warning tag and assembly instructions.
Colour: blue for HP® hose and orange for HP8® hose.



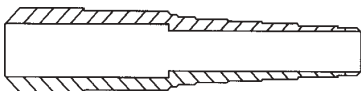
Part No. * blue #	Part No. ** orange #	Hose Size	Weight per item kg	Swage Die Part No. #
HPG3-12K	HPG3-12K-ORG	-3	0.122	80C-G03
HPG3-23K	HPG3-23K-ORG	-3	0.168	80C-G03
HPG4-12K	HPG4-12K-ORG	-4	0.145	80C-G04
HPG4-23K	HPG4-23K-ORG	-4	0.191	80C-G04
HPG6-12K	HPG6-12K-ORG	-6	0.181	80C-G06
HPG6-23K	HPG6-23K-ORG	-6	0.236	80C-G06

* for HP® hose

** for HP8® hose

Parflex CNG Hose Guard Kit

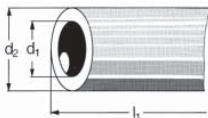
Use with Parflex CNG hose. Each guard kit contains two vinyl hose guards and warning tag.



Hose Part No. #	Hose Guard Kit Part No. #
3CNG	CNGG3-4-KIT
3CNG	CNGG3-6-KIT
3CNG	CNGG-62-KIT
4CNG	CNGG3-6-KIT
5CNG	CNGG5-3-KIT
5CNG	CNGG5-4-KIT
5CNG	CNGG5-6-KIT
5CNG	CNGG5-8-KIT
5CNG	CNGG5-12-KIT
5CNG	CNGG5-16-KIT

PVC-S – Anti-Abrasion Sleeve

Colour: yellow/nature

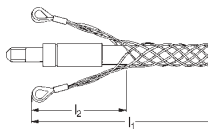


Protective Sleeve	Part No. #	Clamp Ferrule	For Tubing				Diameter in mm		For Hose	Max. Mountable Length in m l1
			DN	size	mm	inch	d1	d2		
PVC-S-03		KL-03	5	-03	4.8	3/16	22	28	2640D-03	20/40
PVC-S-05		KL-05	8	-05	7.9	5/16	27	33	2640D-05	20/40
PVC-S-08		KL-08	12	-08	12.7	1/2	35	45	2640N-08	20
PVC-S-12		KL-12	20	-12	19.0	3/4	45	55	2640N-12	20
PVC-S-16		KL-16	25	-16	25.4	1	55	65	2640N-16	20
PVC-S-DN14-NATUR *		KL15-18					14	17	2420D-03V32	20
PVC-S-DN18-NATUR *		KL23-27					18	22	2640D-03V32	20

As an alternative, rubber anti-abrasion sleeves are available, colour: black

* colour: nature

HS – Containment Grips



Part No. #	For Tubing				Ø		Total Length	Length of Loops in mm	
	DN	size	mm	inch	mm	F-KN*		l1	l2
HS-03	5	-03	4.8	3/16	9-15	3/9	600	200	
HS-05	8	-05	7.9	5/16	12-20	6/18	600	200	
HS-08	12	-08	12.7	1/2	20-30	11/33	600	200	
HS-12	20	-12	19.0	3/4	30-40	11/33	600	200	
HS-16	25	-16	25.4	1	40-50	16/48	600	200	

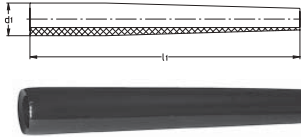
Material: electrogalvanized steel wire

* F-KN 3/9: working load 3 KN, breaking load 9 KN, e.g. DN5

Accessories

KNH – Anti-kink Sleeve / Tape

KNH – Anti-kink Sleeve



Part No. #	d1	l1	For Hose Type
KNHA2106PU	24	140	2380N-04V00

Material: Polyurethane

Tape

For fixing the pressure reinforcement

Part No. #	Type	Description
8.204	Tape	for regular thermoplastic hoses with wire reinforcement where temperatures are not involved
8.207	Glass silk tape	for Teflon hoses where high temperatures are applied

N – Tooling and Workshop Equipment

Heavy-Duty Hose Crimper TH8-380.E	N2
KarryKrimp® 2 crimping press 85CE-061 and accessories	N3
Hand pump 85CE-0HP	N3
Turbo air pump 85C-0AP	N3
Power pump 82CE-0EP	N3
PHastkrimp crimping press 89CE-061	N4
Parkrimp® 2 crimping press 83CE	N4
Parkrimp Dies for Parflex® Hose	N5
MiniKrimp press 94C-001-PFD	N6
Schlauchpresse HP-45	N7
ST250 Hose Cutting Tool	N8
TH4-4 Sleeve Marking Tool	N8
SMM100 Hose Assembling Machine	N8
TH5-3 Hose Test Rig	N8
Montagezubehör 8.2	N9
Prüfdorne PD-1	N9

N

Tooling and Workshop Equipment
Heavy-Duty Hose Crimper TH8-380.E

Heavy-Duty Hose Crimper

Through the application of state-of-the-art innovative friction bearings, this machine is the perfect complement of the existing Parker machinery range.

The TH8-380.E is a heavy-duty crimper for crimping all Parker hose types with 4 or 6 spiral steel wire layers.

TH8-380.E

Crimping force:	350 tons	
Control:	electronic with digital display	
Open/Close:	High-speed up to 23 mm/s	
Dimensions:	length 1200 mm x width 600 mm x height 1600 mm	
Weight:	750 kg without oil (+ 40 l hydraulic oil)	
Tools:	This machine is equipped with the proven PB 232 and PB 239 die systems. The intermediate die set 232.239 L is supplied with the basic model.	
Included:	Set of mirrors	SHS
	Foot switch	FU
	Workplace lamp	LUS / LUF
Options:	Quick change system	QDS 239 C QDS 239.3
Part number:	TH8-380.E	



Tooling and Workshop Equipment
KarryKrimp® 2 crimping press and accessories

KarryKrimp® 2 crimping press 85CE-061

KarryKrimp® 2 is portable, compact and ruggedly built. You have everything you need to crimp hoses from DN 6 to DN32. Model 85CE-061 includes crimping machine, take-apart stand, die rings and connection hose with quick coupling. For Parker hose with textile and steel wire reinforcements up to 4SP DN 32 and 4SH/100 R13 up to DN 25. Complete with hose assembly and quick coupling, 2 die rings and take-apart stand.



Dimensions (with stand): H 762,0 mm x W 355,6 mm x J 381,0 mm
 Weight: ca. 46 kg
 Part No.: **85CE-061**

The following pumps can be used with the KarryKrimp® 2 crimping press.

Hand pump 85CE-0HP

Working pressure: max. 70 MPa
 Dimensions: L 539 mm x W 417 mm x H 151 mm
 Weight: 11,6 kg
 Tank capacity: 2294 ccm
 Lever Force: 55 kg
 Part No.: **85CE-0HP**



Turbo air pump 85C-0AP

Working pressure: 70 MPa
 Dimensions: L 320 mm x W 320 mm x H 480 mm
 Weight: 8,4 kg
 Tank capacity: 662 ccm
 Compressed-air supply: 1/4-18NPTF thread
 Part No.: **85C-0AP**



Power pump 82CE-0EP

Working pressure: 70 MPa with 3/2 hand valve
 Dimensions: L 320 mm x W 320 mm x H 480 mm
 Weight: 12 kg
 Tank capacity: 2000 ccm
 Connection: single phase / 230 V
 Part No.: **82CE-0EP**



Note: All pumps also suitable for KarryKrimp® 82C-061.



Tooling and Workshop Equipment

PHastkrimp crimping press / Parkrimp® 2 crimping press

**PHastkrimp crimping press
89CE-061**

For Parker hose with textile and steel wire braids as well as spiral steel wire layers up to DN 32. With hydraulic device and base frame, but without dies.
High crimping rate.

PHastkrimp crimping press with two die rings (silver and black)

Part No. 89CE- 061

Technical Details

Electrical power: 400 V / 16 A
Dimensions: H 1477 mm x W 866 mm x D 1298 mm
Weight: 249 kg



**Parkrimp® 2 crimping press
83CE**

For Parker hose with textile and steel wire braids as well as spiral steel wire layers up to DN 50. With hydraulic device and base frame, but without dies.

Complete machine with power unit, but without die sets.
Bench mounted.

Electrical power: 380 / 420 V - 3,0 KW - 50Hz
Electrical connection: 16 A
Dimensions: H 1130 mm x W 490 mm x D 820 mm
Weight: Packed: 392 kg
Unpacked: 342 kg

Part No. 83CE- 083

Power unit

Part No. 83CE- 380

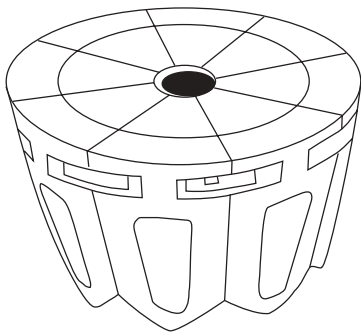


Tooling and Workshop Equipment
Parkrimp® Dies for Parflex® Hose

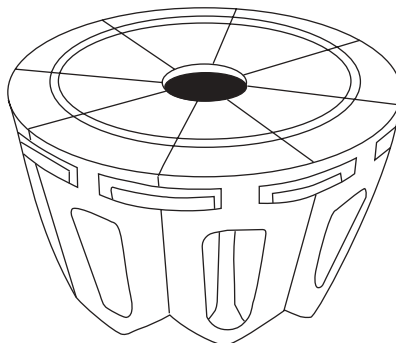
Parflex® Parkrimp® Dies

Parflex® Parkrimp® dies are specifically engineered for Parflex® hose. The die segments are linked together, and each die is well defined with identification grooves to indicate the fitting series. Also, the dies are colour coded to specify the fitting size. These dies are for use with the Parker ParkKrimp® and KarryKrimp® units.

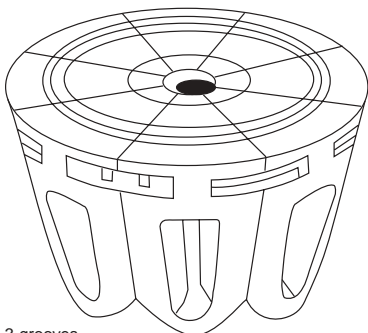
Note: Parflex® dies have been designed for use with the silver die ring.



1 groove
 55 series / 56 series



2 grooves
 58 series



3 grooves
 91N series, 93N series

Parkrimp® silver die ring

Part No.:

80C-R01

KarryKrimp® silver die ring

Part No.:

82C-R01

Used with all Parflex® hoses.

N

Note: See Swage and Crimp Die Selection Chart for proper crimp or swage die part number, crimp diameter on pages O23 - O25

Tooling and Workshop Equipment
MiniKrimp 94C-001-PFD

MiniKrimp 94C-001-PFD

The MiniKrimp is a portable, one piece crimper for hose assemblies up to -20.

Due to its light and very compact design the MiniKrimp is easy to transport and provides a cost effective way to make hose assemblies in the field.

The MiniKrimp is able to crimp the following fitting series: 55/56/57/58/91N and EH of the Polyflex Division product range, 43/46/48 and 26 of the HPDE product range.

MiniKrimp

Specifications:

Rating: 30 tons
Set-up time: 20 s

Dimensions:

Depth: 127 mm
Width: 178 mm
Height: 394 mm
Weight: 16 kg

Name:
MiniKrimp

Part number:
94C-001-PFD



HP45 Hose Crimping Press

Polyflex hose crimping press for hose sizes ranging from DN 2 to DN 20. Maximum pressing power approx. 150 t. For small batches, rubber and thermoplastic hose. The HP45 press is the preferred tool in repair shops.

Hose Crimping Press

Dimensions:

Length:	260 mm
Width:	200 mm
Height:	175 mm
Weight:	19 kg

Specifications:

Theoretical pressing power:	150 t
Max. aperture Ø:	44 mm
Aperture travel in Ø:	19 mm
Cylinder capacity:	0,28 l
Number of jaws:	8
Max. working pressure:	48 MPa
Working direction:	perpendicular from bottom
Stroke:	38 mm

Name:

HP45 Hose Crimping Press

Part number:

80

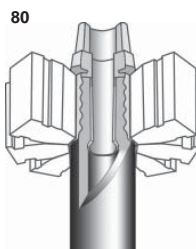
Special accessories

- Z stand
- carrying stand
- 2-level hand pump
- pneumatic pump with foot valve
- coupling hose 1 m
- coupling hose 1,5 m
- quick coupling

80-ZB06
80-ZB07
80-ZB01
80-ZB02
80-ZB03
80-ZB04
80-ZB05

Crimping dies: see table

Please order at Polyflex Division, Lampertheim, Germany



80-05
 80-06
 80-07
 80-08
 80-09
 80-12
 80-14
 80-17
 80-20
 80-22
 80-24
 80-28
 80-32



Tooling and Workshop Equipment
ST250/TH4-4/SMM100/TH 5-3

ST250 Hose Cutting Tool

The polyflex® ST 250 hose cutting tool is used for cutting off hose with metal or fibre reinforcement (up to six spiral layers) up to size DN 25.

Part No.:

ST250

Hose cutting tool with circular blade

Order No.:

50



TH4-4 Sleeve Marking Tool

The polyflex® TH4-4 is for the permanent marking of hose assemblies or the crimp ferrule of the hose fitting. The standard model includes the table top device with base plate, height adjustable handwheel, fixable type holder, and a letter case with hardened steel type.

Part no.:

TH4-4

Embossing tool with type holder (for one row of type) and letter case.

Order No.:

TH 4-4



SMM100 Hose Assembling Machine

The polyflex® SMM 100 hose assembly machine facilitates the attachment of fittings. The standard model includes electrical cabinet, foot switch, and safety three-segment chuck. The SMM 100 is suitable for fittings up to size DN 32.

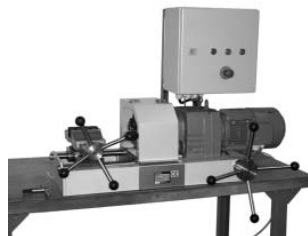
Part No.:

SMM100

Hose assembly machine with three-segment chuck.

Order No.:

60



TH 5-3 Hose Test Rig

This workshop test rig is used for static pressure testing of hose assemblies ready for installation. Its test pressure ranges from 12 to 145 MPa. Almost all standard fittings can be tested.

Part No.:

TH 5-3

Hose Test Rig

Order No.:

TH 5-3



Test rigs for higher pressures on request



8.2 Hose Assembling Accessories

Zur fachgerechten Herstellung von polyflex®-Schlauchleitungen wird dieses Zubehör empfohlen.

Bezeichnung
Hose Assembling Accessories

Bestell-Nummer
8.2



PD-1 Calibration Mandrels

The mandrel set contains 41 single mandrels from 1.0 to 5.0 mm in steps of 0.1 mm.

Specifications:

Material: hardened steel
Shape: AH with cylindrical head
Length: 200 mm

Name: Calibration Mandrels
Part number: PD-1


N

O – Technical and Design Information

Selection, Installation, and Maintenance of Hose and Hose Assemblies	O2
Flow Capacity Nomogram	O3
Chemical Resistance	O4 - O8
Reusable Hose Fittings Assembly Procedures	O9
MiniKrimp Fitting Assembly Procedures	O12
Parkrimp II Fitting Assembly Procedures	O16
Assembly Instructions for Push-Lok® Self-Grip Hose	O21
Twinline/Multiline Hose Separation Instructions	O22
Selection Charts for Crimp Diameter and Tools for Parflex® Hose	O23 - O25
Choosing the Correct Length	O26
Installation Tips	O27
Unit Conversion Table	O28



Technical and Design Information
Selection, Installation and Maintenance

Selection, Installation, and Maintenance of polyflex® / Parflex® Hose and Hose Assemblies

Hose and hose assemblies have a finite life span and many factors can reduce this time. This recommended practice should be read by designers and users of hose to assist them in the proper selection of hose. These guidelines, while not exhaustive, will assist the user in maintaining hydraulic and pneumatic systems.

READ THE PARKER SAFETY GUIDE CONTAINED IN THIS CATALOGUE IN ITS ENTIRETY.

PART 1 - HOW TO SELECT HOSE

- **Pressure** - Maximum operating pressure of the hose must be greater than or equal to the system pressure. Pressure surges or system "spikes" in excess of the maximum operating pressure will shorten hose life and must be avoided.
- **Temperature** - Ambient and fluid temperatures must not exceed the hose/fittings rated design temperature. Attempt to route hose or shield hose from high temperature sources.
- **Size** - Adequately size hose and fittings to avoid damaging hose with excessive turbulence, or heat build-up, while maintaining proper flow and pressure. (Refer to fluid velocity nomogram.)
- **Fluid Resistance** - Refer to Chemical Resistance Guide in this catalogue for use of fluids with various materials. If unsure of an application, contact the factory.
- **Environment** - Conditions such as ozone, UV light, harsh chemicals, salt water, and other airborne contaminants can degrade hose and shorten its life.
- **Length** - Hose length changes with pressure. This, along with equipment movement, must be considered in the system design.
- **Proper couplings** - Always follow manufacturers specifications and do not mix components of different manufacturers.
- **Mechanical loads** - Conditions such as tensile and side loads, vibration, excessive flexing, and twist will reduce hose life. Use swivel fittings and adaptors to avoid hose twisting. Test the hose if the application is potentially problematic or unusual.

PART 2 - INSTALLATION AND MAINTENANCE

- **Inspect components** - Check hose for cover cracks, blisters, cleanliness, kinks, cracks or core tube obstructions or other defects. Examine fittings for poor threads, obstructions, cracks, rust. Do not use hose or fittings if these problems exist.
- **Assemble per instructions contained in this catalogue.**
- **Do not exceed specified minimum bend radius** - Use stress relievers to prevent sharp bends at the hose and fitting juncture. These can be spring guards or other stress relieving members.
- **After installation, eliminate air entrapped in system, pressurise to maximum operating pressure, and check for leaks and proper system function.**
- **After installation, periodically (frequency depends on severity of application and potential risk) inspect the system for the following:**
 1. Blistered, degraded, or loose hose covers.
 2. Stiff, cracked, or charred hose.
 3. Cuts or abrasion of hose. Look for exposed reinforcement.
 4. Leaks in hose or fittings.
 5. Damaged or corroded fittings.
 6. Excessive build up of dirt, grease, oils, etc.
 7. Defective or broken accessories (clamping devices, kink guards)
 8. Kinks in hoses.

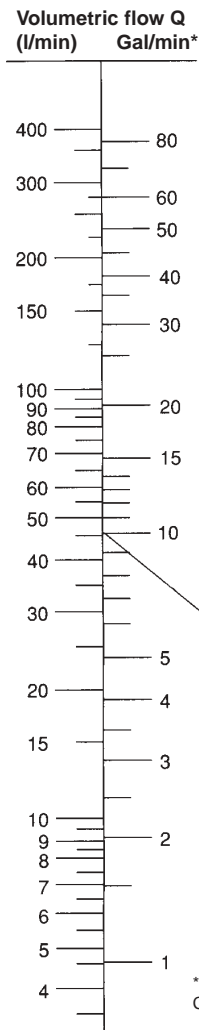
Upon discovery of any of these items, replace it.

DO NOT IGNORE IT!

- **Retest the system after all maintenance procedures.**
- **Establish replacement schedules based on previous service life, or when failures could result in damage, personal injury, excessive or unacceptable downtime.**



Flow Capacity Nomogram



Flow capacities of Parker hose at recommended flow velocities

The chart below is provided as an aid in the determination of the correct hose size.

Example:

at 10 gallons per minute (gal/min), what is the proper hose size within the recommended velocity range for pressure lines?

Locate 10 gallons per minute in the left-hand column and 25 feet per second in the right-hand column (the maximum recommended velocity range for pressure lines). Lay a straight line across these two points. The inside diameter shown in the centre column is above -6 so we have to use -8 (1/2").

For suction hose, follow the same procedure except use recommended velocity range for intake lines in the right-hand column.

- where: Q = flow in gallons per minute (gal/min & l/min)
 V = velocity in feet per second (f/s & m/s)
 d = hose inside diameter (mm & dash size)

Hose inner diameter d

mm	dash sizes
50,8	-32
38,1	-24
31,8	-20
25,4	-16
19,1	-12
15,9	-10
12,7	-8
9,5	-6
7,9	-5
6,3	-4
4,8	-3

Flow velocity v

(m/s)	feet/s
0,6	2
1	3
1,2	4
2	6
3	10
4	15
5	20
6	25
7,6	30

Recommended maximum velocity for suction lines

Recommended maximum velocity for return lines

Recommended maximum velocity for pressure lines



* gallons are UK gallons
 Conversion factors: gal/min x 4.546 = l/min
 feet/s x 0.3948 = m/s

* Recommended velocities are according to hydraulic fluids of maximum viscosity 315 S.S.U. at 38 °C working at roomtemperature within 18 ° and 68 °C.

Technical and Design Information

Chemical Resistance

Ratings Code

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 safety. Further testing suggested for specific application.

P - Poor or unsatisfactory. Not recommended without extensive and realistic testing.

-- Indicates that this was not tested.

Material Code for Hose Core Tubes		polyflex® / Parflex® Part Numbers
H	Polyester elastomer	2040H, 2370H, 515H, 518B, 518C, 550H, 558H, 55LT, 560, 590, 593, 1202LT
N	Polyamide	2010N, 2020N, 2X20N, 2040N, 2244N, 2245N, 2370N, 2440N, 2380N, 2640N, 520N, 540N, 573X, 573XL, 575X, 580N, 588N, HP, HP8
PV	Polyvinylchloride (PVC)	GPH
NC	Nylon co polymer	510A, 515A
TFE	Polytetrafluorethylene (PTFE)	2030T, 2033T, 919, 929, 939/939B, 919U
POM	Polyoxymethylene	2440D, 2640D
Material Code for Hose Covers		
U	Polyurethane	2010N, 2040N, 2040H, 2244N, 2245N, 2370H, 2370N, 2380N, 510, 830, 838, 515A, 515H, 510A, 518B, 540N, 550H, 558H, 560, 520N, 580N, 588N, 590, 593, HP, HP8, 919U
HF	Special elastomer	55LT, 1202LT
PV	Polyvinylchloride (PVC)	GPH
H	Polyester elastomer	2040N
PFX	Special elastomer	518C
N	Polyamide	2010N, 2020N, 2X20N, 2440D, 2440N, 2640D, 2245N, 2244N
Material Code for Sealing Components		
V	FKM O-rings	

Notes on the Chemical Resistance Table

- The fluid resistance tables are simplified rating tabulations based on immersion tests at 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, no performance guarantee is expressed or implied.** The indications do not imply any compliance with standards and regulations and do not refer to possible changes of colour, taste or smell. For food and drinking water specially approved materials have to be used. For fluids not listed or for advice on particular applications, please consult Parker Hannifin GmbH, Polyflex Division in Hüttenfeld, Germany.
- Hose applications for these fluids must take into account legal and insurance regulations. The chemical resistance indicated does not express or imply approval by certain institutions.
- Satisfactory at some concentrations and temperatures, unsatisfactory at others.
- For gas applications, the cover should be pin-pricked and the pressure must not be released quickly. Special safety guard accessories are to be used to prevent damage or personal injury in the event of failure..
- Chemical resistance does not imply low permeation rates. Please consult Parker Hannifin for a recommendation for your specific requirements.
- The indication of chemical resistance does not imply any special food compatibility; it refers only to the chemical resistance of the material.
- Chemical resistance does not imply acceptability for use in airless paintspray applications. These applications require a special, electrically conductive hose.

Technical and Design Information
Chemical Resistance

Chemical	H	N	U/HF	V	NC	O	OC	PFX	HFR	FEP	TFE	POM
Acetaldehyde	G	L	L	P	-	L	P	L	G	G	G	-
Acetic Acid Glacial	L	L	L	G	P	G	L	L	L	L	G	-
Acetone	L	G	P	P	G	P	P	P	L	G	G	L
Acetylene	-	-	-	-	-	-	-	-	-	-	-	-
Air (4)	G	G	G	G	G	G	G	G	G	G	G	G
Ammonium Chloride	G	P	G	G	P	G	G	G	G	L	G	-
Ammonium Hydroxyde	L	G	P	L	-	G	G	P	L	G	G	-
Anhydrous Ammonia	P	P	P	P	P	P	P	P	P	-	P	-
Aniline	P	P	P	P	P	L	P	P	P	G	G	-
Animal Oils (6)	G	G	G	G	G	P	P	G	G	-	G	-
Aromatic Hydrocarbons	L	G	L	P	G	P	-	L	L	-	G	-
Asphalt	G	G	G	G	G	L	L	G	G	L	G	-
Baygon (insecticide)	L	G	P	-	-	-	-	P	L	-	G	-
Beer	G	G	G	G	-	G	G	G	G	G	G	-
Benzene	L	G	L	P	L	P	P	L	L	G	G	-
Brake Fluid (DOT #3)	-	G	P	P	-	P	P	P	-	-	G	L
Butane (2) (4)	G	G	L	L	P	L	P	L	G	-	-	-
Butter (6)	G	G	G	G	-	G	G	G	G	-	G	-
Calcium Chloride	G	-	G	L	-	G	G	G	G	G	G	-
Carbon Dioxide (4)	G	G	G	G	G	G	G	G	G	-	-	-
Carbon Monoxide (4)	G	-	G	G	-	L	-	G	G	-	-	-
Carbon Tetrachloride	L	G	P	L	G	P	P	P	L	G	G	-
Castor Oil	G	L	L	G	L	P	P	L	G	-	G	-
Chlordane (insecticide)	L	G	P	-	-	-	-	P	L	-	-	-
Chlorinated Hydrocarbon Base Fluids	L	G	L	P	-	-	-	L	L	-	G	-
Chlorinated Petroleum Oil	G	G	L	-	L	-	-	L	G	-	-	-
Chlorinated Solvents	P	-	P	L	-	L	L	P	P	-	G	-
Chlorine, Gaseous, Dry	P	P	P	G	P	L	P	P	P	-	-	-
Chloroform	P	P	P	P	P	P	P	P	P	G	G	-
Chromic Acid	P	-	P	G	P	-	L	P	P	L	G	-
Citric Acid Solutions	G	G	L	G	G	G	G	L	G	G	G	-
Crude Petroleum Oil	G	G	G	G	G	P	P	G	G	-	G	G
Cyclohexane (2)	G	G	G	-	-	P	P	G	G	G	G	-
Cygon (insecticide)	L	G	P	-	-	-	-	P	L	-	-	-
Diazion (insecticide)	L	G	P	-	-	-	-	P	L	-	-	-
Diesel Fuel (2)	G	G	G	L	G	P	P	G	G	-	G	G
Diester Oils	L	G	P	P	-	P	P	P	L	-	G	-
Enamels	G	G	G	L	-	L	L	G	G	-	G	-
Ethanol (6)	G	G	L	L	L	G	G	L	G	-	G	G
Ethers	L	G	P	L	G	L	P	P	L	G	G	P
Ethylene Glycol	G	G	L	G	G	G	L	L	G	G	G	G
Ethylene Oxide	G	G	L	P	-	L	L	L	G	-	-	-
Fatty Acids	G	G	-	G	G	L	L	-	G	G	G	-
Formaldehyde	L	L	P	L	L	G	L	P	L	G	G	-
Formic Acid J	P	P	P	G	P	G	G	P	P	G	G	-



Technische Informationen
Chemische Beständigkeit

Chemical	H	N	U/HF	V	NC	O	OC	PFX	HFR	FEP	TFE	POM
Freon 12 (5)	P	G	L	G	G	L	-	L	P	-	-	-
Freon 22 (5)	P	G	L	G	G	L	-	L	P	-	-	-
Fruit Juices	G	G	G	G	-	G	G	G	G	-	G	-
Fuel Oil (2)	G	G	L	L	G	P	P	L	G	G	G	G
Gas (Oil) (2)	G	G	G	G	G	P	P	G	G	-	G	-
Gasoline	G	G	-	P	G	P	P	-	G	G	G	-
Glue	-	-	-	-	-	-	-	-	-	-	-	-
Glycerine	G	G	L	G	G	G	G	L	G	G	G	-
Glycols (to 1350 °F)	G	G	L	G	G	-	-	L	G	G	G	G
Grease (petroleum base)	G	G	G	G	G	L	L	G	G	-	G	G
Heptachlor (insecticide)	L	G	P	L	-	P	P	P	L	-	G	-
Hexane (2)	G	G	G	L	G	P	P	G	G	G	G	-
Houghto Safe-1000 Series (phosphate esters)	L	G	P	G	G	P	P	P	L	-	G	-
Houghto Safe-600 Series (hydraulic fluid)	G	G	L	G	G	G	L	L	G	-	G	-
Hydraulic Fluid (petroleum base)	G	G	G	G	G	L	L	G	G	L	G	G
Hydraulic Fluid (phosphate ester base)	L	G	L	L	G	P	P	P	L	-	G	-
Hydraulic Fluid (water glycol base)	G	G	G	L	G	-	-	G	G	-	G	-
Hydraulic Oil (petroleum base)	G	G	G	G	G	L	P	G	G	L	G	G
Hydrochloric Acid	P	L	P	L	P	L	P	P	P	G	G	-
Hydrofluoric Acid	P	P	P	L	P	L	P	P	P	G	G	-
Hydrogen, Gaseous (2) (4) (5)	G	G	G	G	G	G	G	G	G	-	-	-
Hydrolube (hydraulic fluid/water glycol base)	G	G	L	G	G	G	G	L	G	-	G	-
IRUS 902 (hydraulic fluid/water-oil emulsion)	G	G	G	G	G	L	P	G	G	-	G	-
Isocyanates (2)	L	L	L	P	-	L	P	L	L	-	G	-
Isooctane (2)	G	G	G	L	G	G	L	P	L	G	G	-
Isopropyl Alcohol	G	G	L	L	G	G	L	L	G	G	G	-
Kerosene (2)	G	G	L	L	G	L	P	P	G	G	G	-
Ketones	L	G	P	P	G	G	P	P	L	G	G	-
Lacquer Solvents	L	G	P	P	-	L	-	P	L	L	G	-
Lactic Acid	P	G	P	G	G	G	G	P	P	G	G	-
Lime (calcium oxide)	G	G	G	G	-	G	G	G	G	G	G	-
Lindol (hydraulic fluid/phosphate esters)	L	G	P	-	-	-	-	P	L	-	G	-
Linseed Oil	G	G	G	L	G	L	P	G	G	G	G	G
LP-Gas	-	-	-	-	-	-	-	-	-	-	-	-
Lubricating Oils (diester base)	L	G	P	-	G	-	-	P	L	-	G	-
Lubricating Oils (petroleum base)	G	G	G	G	G	L	P	G	G	G	G	G
Magnesium Hydroxide	L	G	L	G	-	G	L	L	G	G	G	-
Magnesium Salts	-	G	G	G	-	G	-	G	-	-	G	-
Malathion (insecticide)	L	G	P	-	-	-	-	P	L	-	G	-
Mercury	G	G	G	G	G	G	G	G	G	G	G	-
Meropa Oil (sulphur base)	G	G	-	-	-	-	-	-	-	-	G	-

Technical and Design Information
Chemical Resistance

Chemical	H	N	U/HF	V	NC	O	OC	PFX	HFR	FEP	TFE	POM
Methane	-	-	-	-	-	-	-	-	-	-	-	-
Methanol	G	G	P	P	G	L	P	P	G	-	G	-
Methoxychlor (insecticide)	L	G	P	-	-	-	-	P	L	-	G	-
Methyl Alcohol (6)	G	G	P	P	G	L	P	P	G	G	G	G
Methyl Ethyl Ketone (MEK)	L	G	P	P	G	L	P	P	L	G	G	L
Methyl Ethyl Ketone Peroxide (MEKP)	-	L	P	-	-	-	-	P	-	-	G	-
Methyl Isobutyl Ketone (MIBK)	L	G	P	P	G	L	P	P	L	G	G	-
Methylene Chloride	P	L	P	L	P	L	P	P	P	G	G	P
Milk (6)	G	G	G	G	-	G	G	G	G	G	G	-
Mineral Oil	G	G	G	G	G	L	P	G	G	G	G	G
Mineral Spirits	P	-	L	P	-	-	-	L	P	-	G	-
Motor Oils	G	G	G	G	G	-	-	G	G	G	G	-
Naphta	L	G	P	P	G	P	P	P	L	G	G	G
Natural Gas (4)	-	-	-	-	-	-	-	-	-	-	-	-
Nitric Acid	P	P	P	L	P	P	P	P	P	L	G	-
Nitrobenzene	P	G	P	P	G	P	P	P	P	G	G	-
Nitrogen, Gaseous (4) (5)	G	G	G	G	G	G	G	G	G	G	G	-
Nitrous Oxide	-	L	-	G	-	L	-	G	-	-	-	-
Oil (SAE)	G	G	G	G	G	L	L	G	G	-	G	G
Oil of Turpentine	G	G	P	G	G	P	P	P	G	-	G	-
Oleic Acid	G	G	G	L	G	L	L	G	G	G	G	-
OS 45 Type 3 Hydraulic Fluid (silicate esters)	L	G	L	P	-	P	P	L	L	-	-	-
Oxygen, Gaseous (4) (5) (6)	G	G	G	G	G	G	G	G	G	G	G	-
Ozone	L	P	L	G	P	L	G	P	L	G	G	-
Paint (Oil Base) (7)	G	G	G	P	-	L	P	G	G	-	G	-
Paint Solvents (Oil base)	L	G	L	P	-	P	P	L	L	-	G	-
Pentane (2)	G	G	L	L	-	P	P	L	G	G	G	-
Perchloric Acid	P	P	P	L	P	P	P	P	P	L	G	-
Perchloroethylene	P	P	P	L	P	P	P	P	P	-	G	L
Petroleum Ether	-	-	-	P	-	P	P	-	-	-	-	-
Petroleum Oils	G	G	G	G	G	L	P	G	G	-	G	-
Phenols	P	P	P	L	P	P	P	P	P	-	G	-
Phosphate Esters (above 135 °F)	P	G	P	P	-	P	P	P	L	-	G	-
Phosphate Esters (to 135 °F)	G	G	P	P	G	P	P	P	G	-	G	-
Polyol Esters	L	G	P	P	-	-	-	P	L	-	G	-
Potassium Hydroxide, 50% Propane (4) (5)	P	P	P	L	-	L	L	P	P	G	G	-
Propylene Glycol	-	-	G	G	-	G	L	-	-	G	G	-
Pydraul 312C, 625 (to 135 °F)	P	G	P	P	G	P	P	P	G	-	G	-
Pydraul F-9, 150, 160 (to 135 °F)	G	G	P	P	G	P	P	P	G	-	G	-
Quintolubric 822 Fluid	-	G	G	-	-	-	-	-	-	-	G	-
Salt Water	-	-	-	-	-	-	-	-	-	G	G	-
Sevin (insecticides in water)	G	G	G	-	-	-	-	G	G	-	G	-
Silicone Greases	G	G	G	G	G	-	-	G	G	-	G	-



Technical and Design Information
Chemical Resistance

Chemical	H	N	U/HF	V	NC	O	OC	PFX	HFR	FEP	TFE	POM
Silicone Oils	G	G	G	G	G	-	-	G	G	-	G	-
Skydrol 500 & 7000	L	G	P	P	G	P	P	P	L	G	G	-
Soap Solutions	G	G	G	G	G	G	G	G	G	G	G	-
Soda Water	G	G	G	G	G	-	-	G	G	-	G	-
Sodium Borate	G	G	G	G	G	G	G	G	G	G	G	-
Sodium Carbonate	-	-	-	-	-	-	-	-	-	-	-	-
Sodium Chloride Solutions	G	G	G	G	-	G	-	G	G	G	G	-
Sodium Hydroxide, 50%	L	P	P	L	P	L	L	P	L	G	G	-
Sodium Hypochloride	L	P	P	L	-	-	-	P	L	G	G	-
Steam	P	P	P	P	P	P	P	P	P	G	G	-
Stoddard Solvent	P	G	P	L	G	P	P	P	P	G	G	-
Straight Synthetic Oils (phosphate esters)	L	G	P	P	G	-	-	P	L	-	G	-
Sulphur	G	G	G	G	-	L	G	G	G	G	G	-
Sulphur Dioxide	P	L	L	L	-	P	-	L	P	G	G	-
Sulphur Hexafluoride Gas (4) (5)	G	G	G	G	-	G	-	G	G	-	G	-
Sulphuric Acid	P	P	P	-	P	P	P	P	P	-	G	-
Toluol, Toluene	L	G	L	P	G	P	P	P	L	G	G	G
Transmission Fluid	G	G	G	P	G	-	-	G	G	-	G	-
Trichlorethylene	P	L	P	L	G	P	P	P	P	G	G	L
Trisodium Phosphate Solutions	L	G	P	G	G	G	G	P	L	G	G	-
Turpentine	G	G	L	L	G	P	P	P	G	G	G	-
Ucon (hydraulic fluid/water glycol base)	G	G	L	G	G	-	-	L	G	-	G	-
Varnish	G	G	G	P	G	G	L	G	G	-	G	G
Vinegar (6)	L	G	L	G	G	G	L	L	G	G	G	-
Water (above 60 °C) (6)	P	G	P	L	-	P	P	P	P	L	G	-
Water (to 60 °C) (6)	G	G	G	G	G	G	G	L	G	G	G	G
Water Glycols (above 60 °C)	P	G	P	L	-	P	P	P	P	-	G	-
Water Glycols (to 60 °C)	G	G	L	G	G	L	L	L	G	-	G	-
Water in oil Emulsions (above 60 °C)	P	G	P	L	-	-	-	P	P	-	G	-
Water in oil Emulsions (to 60 °C)	G	G	L	G	G	-	-	L	G	-	G	G
Whiskey, Wines (6)	G	G	L	G	G	G	G	G	G	G	G	-
Wood Oils	G	G	L	G	G	-	-	G	G	-	G	G
Xylene	L	G	P	P	G	P	P	P	L	G	G	G
Zinc Chloride	G	G	G	G	P	G	G	G	G	G	G	-

Reusable Hose Fittings Assembly Procedures

Measure and Cut Hose to Length

1



Verify the type and size hose printed on layline match work order.

NOTE

When calculating hose length, take into consideration the change in hose length (expansion/contraction) that may occur during pressurization.

2
a/b

Using a flexible or rigid measuring tape, measure the length of hose required as follows:

- a. Verify required length of hose assembly with fittings.
- b. Subtract "Cutoff Allowance" of each fitting from hose assembly length. (Refer to Hose Fittings Tables in Catalog 4460 for proper cutoff allowances) = dimension "B"

Example:

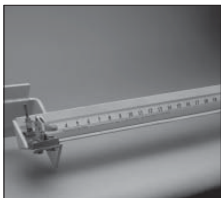
Hose assembly length with fittings = 500 mm

Fitting Cutoff Allowance (2C651-12-6) 36 mm

Fitting Cutoff Allowance (2D251-12-6) 34 mm

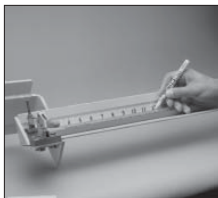
Total Cutoff Allowance 70 mm
 500 mm – 70 mm = 430 mm
 Length of hose required = 430 mm

2
c



Secure hose in some type of fixture to ensure straightness.

2
d



Measure and mark hose.

CAUTION

Do not use abrasive wheels to cut hose. Abrasive wheels will damage core tube.

3



Using a Parker Model 316 cutoff tool, Parflex PHC hand cutter or other sharp cutter, cut hose squarely to correct length.

4



Visually inspect both ends of hose for squareness. Remove any burrs on core tube with a sharp knife.

Inspect Fittings

5



Verify fitting part number(s) match work order.

Technical and Design Information
Assembly Instructions – Reusable Hose Fittings

6
a



Inspect socket for threads in shoulder, threads in shell and damage.

6
b



Inspect nipple for a through-hole, threads, hexagon and damage. Ensure swivel nut is properly crimped, has threads and turns freely.

Assemble Hose

7



Using Parker Hoze-Oil or an SAE 20 lubricating oil, lightly lubricate inside and outside of hose end.

CAUTION

Ensure hose is installed in correct size hole of vice block. Clamping hose in a smaller hole will crush hose.

Using a Parker VBS or VBL vice block,

8



place hose in proper hole of vice block and place in bench vice. Ensure enough hose extends from vice block to install socket.

CAUTION

Socket should be firm when tightened but not difficult to turn. If socket is difficult to install, check hose for proper lubrication. Re-apply lubricating oil as necessary. Installation of socket without proper lubrication may damage hose.

9
&
10



Using a wrench, screw socket onto hose counterclockwise until it bottoms. Ensure end of hose is against inside shoulder.

Back off socket 1/4 turn clockwise.

CAUTION

When tightening socket in vice, do not over tighten vice jaws. Over tightening vice jaws will distort internal threads of socket and hamper installation of nipple.

11
&
12



Remove vice block and hose from vice.

Place hexagon portion of socket into vice and tighten vice. Ensure socket extends past vice jaws enough to allow for installation of nipple.

Technical and Design Information
Assembly Instructions – Reusable Hose Fittings

13

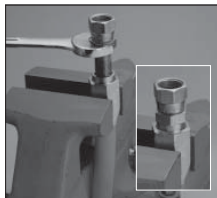


Using Parker Hoze-Oil or an SAE 20 lubricating oil, generously lubricate nipple threads and hose I.D. .

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.

14



Using a wrench on the nipple hexagon, screw nipple into socket clockwise until nipple bottoms against socket shoulder.

Measure and Inspect Hose Assembly

15
&
16



Measure and verify hose assembly length matches work order.
Pressure test hose assembly if required.



Technical and Design Information
Assembly Instructions – MiniKrimp

MiniKrimp Fitting Assembly Instructions

Measure and Cut Hose to Length

1



Verify the type and size hose printed on layline match work order.

NOTE

When calculating hose length, take into consideration the change in hose length (expansion/contraction) that may occur during pressurization.

2
a/b

Using a flexible or rigid measuring tape, measure the length of hose required as follows:

- Verify required length of hose assembly with fittings.
- Subtract "Cutoff Allowance" of each fitting from hose assembly length. (Refer to Hose Fittings Tables in Catalog 4460 for proper cutoff allowances)= dimension "B"

Example:

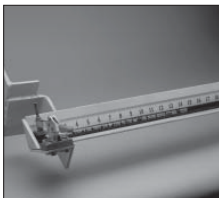
Hose assembly length with fittings = 500 mm

Fitting Cutoff Allowance (1B255-6-6) 36 mm

Fitting Cutoff Allowance (1D955-6-6) 27 mm

Total Cutoff Allowance 63 mm
 500 mm – 63 mm = 437 mm
 Length of hose required = 437 mm

2
c



Secure hose in some type of fixture to ensure straightness.

2
d



Measure and mark hose.

CAUTION

Do not use abrasive wheels to cut hose. Abrasive wheels will damage core tube.

3



Using a Parker Model 316 cutoff tool, Parflex PHC hand cutter or other sharp cutter, cut hose squarely to correct length.

4



Visually inspect both ends of hose for squareness.

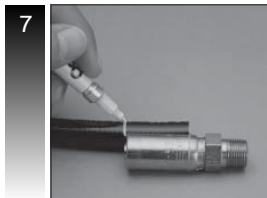
5
&
6



Verify fitting part number(s) match work order.

Visually inspect fitting(s) for a through-hole, threads and damage.

Assemble Hose



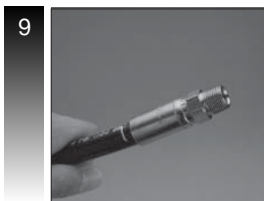
7
 Mark hose end with proper insertion depth line. (Insertion depth = dimension "A" minus "B" according to hose fitting tables in section "K")

WARNING

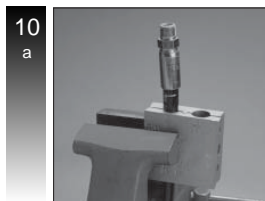
Do not use lubricating oil when installing fittings on hose used in oxygen service. When installing fittings on hose used in oxygen service lubricate with a non-oil based soap solution. Failure to do so may result in an explosion and personal injury when hose is used.



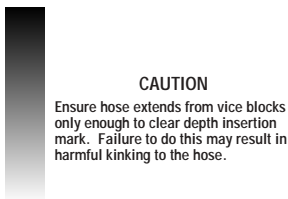
8
 Using Parker Hoze-Oil or an SAE 20 lubricating oil, lightly lubricate inside of hose end. (Use non-oil based soap solution for oxygen service)



9
 Push hose into fitting all the way to depth insertion mark. (If fitting does not readily slide onto hose, perform the next step)



10
 a
 Tap fitting onto hose as follows: Using Parker VBS or VBL vice blocks, place hose with fitting into proper hole of vice block and place in bench vice.



CAUTION

10
 b &
 11
 Ensure hose extends from vice blocks only enough to clear depth insertion mark. Failure to do this may result in harmful kinking to the hose.



Using a rubber mallet, tap fitting onto hose until bottom of fitting shell is aligned with depth insertion mark. Repeat Steps 7-10 for other end of hose if required.

NOTE

The following steps are performed using the Parker MiniKrimp.



Technical and Design Information

Assembly Instructions – MiniKrimp

The MiniKrimp crimping machine must only be set-up and operated by qualified and/or authorised staff. Parker will not accept warranty for the improper operation of MiniKrimp.

12



1. Select proper die set. For Parflex®-polyflex® hose see Hose Crimp Assembly Tool Selection Chart in this manual.

Note: Die sets are colour coded by size.

13



2. Using a molybdenum disulfide type grease, apply a thin layer of grease to the die bowl.

Place selected die set into the bowl.

14



3. Place proper die ring on top of the selected die set. See Hose Crimp Assembly Tool Selection Chart in this manual for proper die ring selection.

15



4. Slide pusher into place onto shoulder bolt.

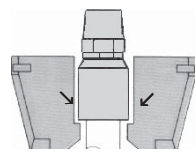
16



5. Position the hose and fitting in dies from below.

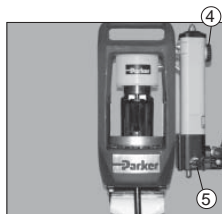
17

PARKALIGN® FEATURE



6. Align fitting so that the shell rests on die step.

18



7. Open functional switch (4) on the pump and close the shut-off valve (5).

19



8. While holding hose and fitting into position on the step, begin pumping hand pump until die ring contacts base plate.

Technical and Design Information
Assembly Instructions – MiniKrimp

20



9. Release pressure by opening the shut-off valve (5) and remove finished assembly. Check crimp diameter.

21



10. Measure crimp diameter of each fitting at the top, middle and bottom of the shell. Take measurements at a minimum of three places around the shell circumference. Verify crimp diameter is within tolerances. For Parflex® hoses see Parflex Hose Crimp Assembly Tool Selection Chart in this manual.

NOTE

For more detailed information on the L142 hand pump refer to the ENERPAC instruction sheet.

Note: Hose assemblies must be checked for cleanliness and should be free of all foreign particles.

Note: 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 that crimper.

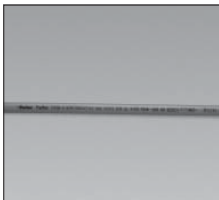


Technical and Design Information
Assembly Instructions – Parkrimp II

Parkrimp II Fitting Assembly Procedures

Measure and Cut Hose to Length

1



Verify the type and size hose printed on layline match work order.

NOTE

When calculating hose length, take into consideration the change in hose length (expansion/contraction) that may occur during pressurization.

2

a/b

Using a flexible or rigid measuring tape, measure the length of hose required as follows:

- a. Verify required length of hose assembly with fittings.
- b. Subtract "Cutoff Allowance" of each fitting from hose assembly length. (Refer to Hose Fittings Tables in Catalog 4460 for proper cutoff allowances)= dimension "B"

Example:

Hose assembly length with fittings = 500 mm

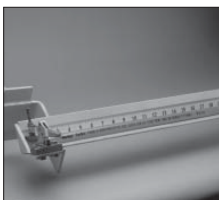
Fitting Cutoff Allowance (1B255-6-6) 36 mm

Fitting Cutoff Allowance (1D955-6-6) 27 mm

Total Cutoff Allowance 63 mm
 500 mm – 63 mm = 437 mm
 Length of hose required = 437 mm

2

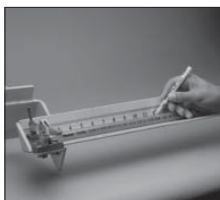
c



Secure hose in some type of fixture to ensure straightness.

2

d



Measure and mark hose.

CAUTION

Do not use abrasive wheels to cut hose. Abrasive wheels will damage core tube.

3



Using a Parker Model 316 cutoff tool, Parflex PHC hand cutter or other sharp cutter, cut hose squarely to correct length.

4



Visually inspect both ends of hose for squareness.

5

&

6



Verify fitting part number(s) match work order.

Visually inspect fitting(s) for a through-hole, threads and damage.

Assemble Hose



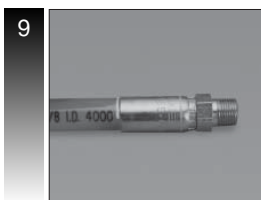
7
 Mark hose end with proper insertion depth line. (Insertion depth = dimension "A" minus "B" according to hose fitting tables in section "K")

WARNING

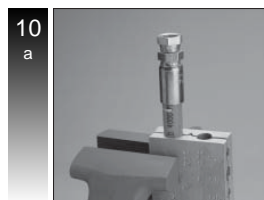
Do not use lubricating oil when installing fittings on hose used in oxygen service. When installing fittings on hose used in oxygen service lubricate with a non-oil based soap solution. Failure to do so may result in an explosion and personal injury when hose is used.



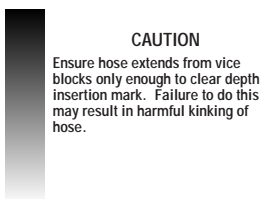
8
 Using Parker Hoze-Oil or an SAE 20 lubricating oil, lightly lubricate inside of hose end. (Use soap solution for oxygen service.)



9
 Push hose into fitting all the way to depth insertion mark. (If fitting does not readily slide onto hose, perform the next step.)



10
 a
 Tap fitting onto hose as follows: Using Parker VBS or VBL vice blocks, place hose with fitting into proper hole of vice block and place in bench vice.



CAUTION

Ensure hose extends from vice blocks only enough to clear depth insertion mark. Failure to do this may result in harmful kinking of hose.



10
 b
 11

Using a rubber mallet, tap fitting onto hose until bottom of fitting shell is aligned with depth insertion mark. Repeat Steps 7-10 for other end of hose if required.

NOTE

The following steps are performed using the Parker Parkrimp II.

NOTE

Pusher slide pin is located inside rear of pusher.

CAUTION

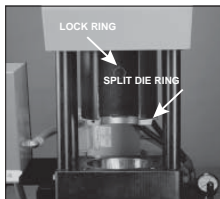
Do not use the black spacer ring on Parflex fittings. Use of the black spacer ring will result in improperly crimped fittings and hose assemblies.



Technical and Design Information

Assembly Instructions – Parkrimp II

12

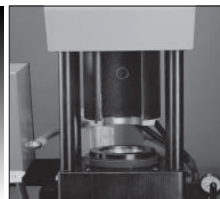


With pusher in full up position, position rear half of split die ring in rear of pusher. Lock ring in position by pushing in slide pin.

NOTE

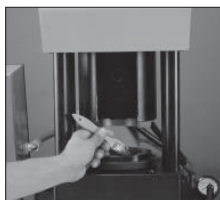
When installing adaptor bowl, tilt bowl toward back of crimper during insertion.

13



Install adaptor bowl in base plate of crimper for hose sizes 4 thru 20.

14



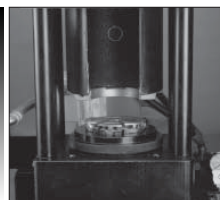
Using a molybdenum disulfide type grease, apply a thin layer of grease on inside of adaptor bowl.

15



Select proper Parkrimp die set. (See Swage and Crimp Die Selection Chart in this catalog section for proper part number selection.)

16



Place die set into bowl.

CAUTION

When crimping stainless steel fittings, lubricate dies with Parker 702 Oil. Failure to do so may result in damage to fittings.

17



Lower rear half of split die ring onto dies by pulling slide pin forward.

NOTE

When crimping bent tube fittings, front half of split die ring and front half of die set must be removed to insert and remove bent tube fittings.

Technical and Design Information
Assembly Instructions – Parkrimp II

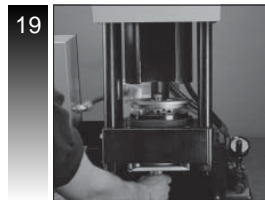


18 Insert front half of split die ring aligning pin in rear half with hole in front half.

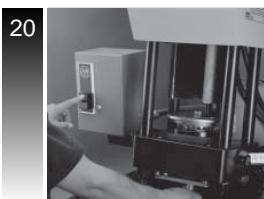


CAUTION

When positioning fitting in die, ensure bottom of shell rests on die step. Failure to do so will result in an improperly crimped or damaged fitting.



19 Insert hose and fitting from bottom of crimping die and up through die. Position fitting so bottom of fitting shell rests on die step.



20 Press ON switch to turn on pump.



NOTE

Pump on crimping machine should not exceed 5000 psi. Parker Hannifin will not accept responsibility for the operation of or provide warranty coverage for a crimping machine that is operated by a power unit other than equipment supplied by Parker Hannifin for the express purpose of operating the crimping machine.

WARNING

Keep fingers and hands away from die-pusher area. Failure to do so may result in personal injury.



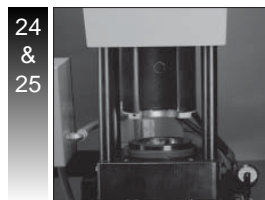
21 While holding hose and fitting in position on die step, lower pusher by pulling valve handle forward.



22 Crimp fitting onto hose until die ring contacts base plate.



23 Push valve handle towards the rear to retract pusher and open die set.



24 & 25 Remove hose assembly and die set. Repeat Steps 13-24 for the other end of hose if required.



Technical and Design Information
Assembly Instructions – Parkrimp II

Measure and Inspect Hose Assembly

26



Press OFF switch to turn off pump.

27



Measure and verify hose assembly length matches work order.

28



Inspect depth insertion mark at fitting ends. Insertion mark must be visible and within 1/8" of bottom of fitting shell.

29
&
30



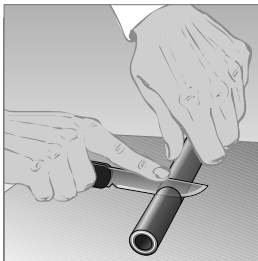
Measure crimp diameter of each fitting at top, middle and bottom of shell. Take measurements at a minimum of three places around shell circumference. Verify crimp diameter is within tolerances. (See Crimp Specification & Tool Selection Chart in this catalog section for proper crimp diameters.)

Pressure test hose assembly if required.

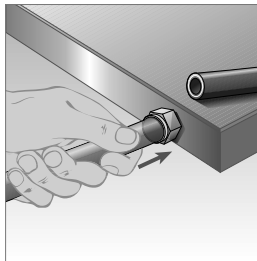
NOTE

The illustration shows a 55 series fitting. The appearance of other fitting series might be different.

Assembly Instructions for Push-Lok® Self-Gripping Hose



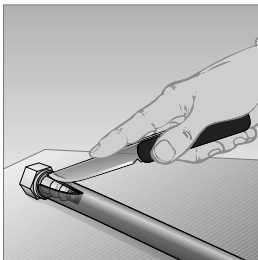
1. Cut hose perpendicularly with a sharp knife. If necessary, lubricate fitting end with water or soap and water solution (5% liquid soap + 95% water) for ease of assembly.



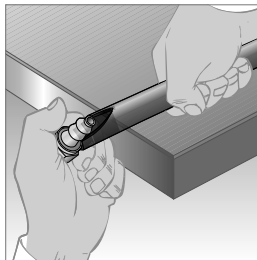
2. Insert fitting into hose and push with steady force until fitting is completely in hose. Grip hose approximately 2.5 cm from end. As an alternative, use the Parker 611050G assembly tool.

Caution: Push-Lok® fittings will provide an effective grip only when the Push-Lok® hose is pushed fully onto the insert, where the cropped end of the hose should be fully concealed by the plastic collar.

Disassembly



1. Cut the hose longitudinally along a line at approximately a 20° angle from the centre line of the hose. Make sure not to nick the barbs of the fitting.



2. Pull fitting out of hose.

Caution: Before reusing the fitting, check fitting for damages. Damaged fittings result in leakage.

Push-Lok® Assembly Tool

For easy assembly of Parker self-gripping hose.

Overall length: approx. 320 mm

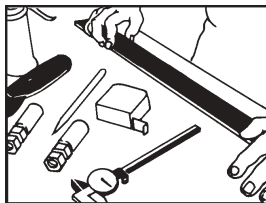
Weight: approx. 2.2 kg

Part No.: 611050G

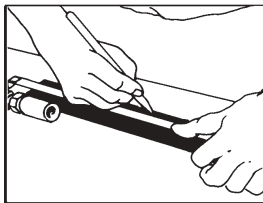


Technical and Design Information
Twinline and Multiline Hose Separation Instructions

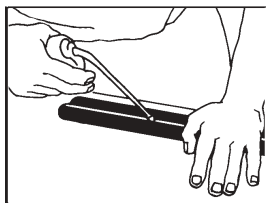
Twinline and Multiline Hose Separation Instructions



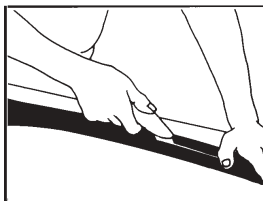
1. Position twinline or multiline hose assembly so that it lies flat on work surface without tendency to twist or turn.



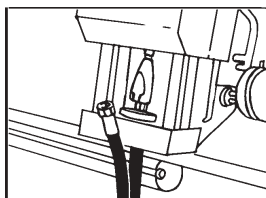
2. Measure and mark the length that the hoses are to be separated.



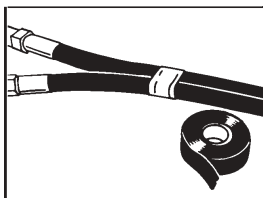
3. Lightly lubricate the area between the hoses to be separated with oil. The function of the oil is to reduce the friction of the knife blade.



4. Press the multiline hose assembly firmly and flat against the work surface so that it does not move. Draw the knife toward you with constant light to moderate pressure and repeat cutting until hoses are separated.



5. The separation length must be sufficiently long to avoid the risk of kinking the hoses during the crimping operation.



6. Depending on the requirements of the installation it is suggested that a nylon lashing strap or tape be applied at the termination of the separated length to provide protection against tearing of the hose covers.

Note:

It is important that the knife blade be perpendicular to the hose during this procedure, so that the blade cuts only the material connecting the hoses.

Extreme care must be taken to avoid cutting through the cover of the hoses and thereby exposing the reinforcement.

Technical and Design Information
Crimping Diameter and Tooling Selection Chart for Parflex® Hose

Parflex® Hose

Hose Type	DN	Dash Size	mm	inch	Fitting Series	MiniKrimp/ Parkrimp®/ KarryKrimp®	Colour Code	Crimp Diameter in mm (from / to)
GPH	5	-03	4.8	3/16	55/56	80C-P03	grey	12.15 / 12.65
GPH	6	-04	6.3	1/4	55/56	80C-P04J	red	13.55 / 14.05
GPH	10	-06	9.5	3/8	55/56	80C-P06	yellow	17.15 / 17.65
GPH	12	-08	12.7	1/2	55/56	80C-P08	blue	21.35 / 21.85
GPH	20	-12	19.1	3/4	55	80C-P12	green	27.95 / 28.45
510A	5	-03	4.8	3/16	55/56	80C-P03	grey	12.15 / 12.65
510A	6	-04	6.3	1/4	55/56	80C-P04J	red	13.55 / 14.05
510A	8	-05	7.9	5/16	55/56	80C-P05	purple	15.75 / 16.25
510A	10	-06	9.5	3/8	55/56	80C-P06	yellow	17.15 / 17.65
510A	12	-08	12.7	1/2	55/56	80C-P08	blue	21.35 / 21.85
510A	20	-12	19.1	3/4	55	80C-P12	green	27.95 / 28.45
518C	3	-02	3.2	1/8	58	80C-P02H	brown	10.05 / 10.45
518C	5	-03	4.8	3/16	55/56	80C-P03	grey	12.15 / 12.65
518C	6	-04	6.3	1/4	55/56	80C-P04J	red	13.55 / 14.05
518C	8	-05	7.9	5/16	55/56	80C-P05	purple	15.75 / 16.25
518C	10	-06	9.5	3/8	55/56	80C-P06	yellow	17.15 / 17.65
518C	12	-08	12.7	1/2	55/56	80C-P08	blue	21.35 / 21.85
518C	16	-10	15.9	5/8	58	80C-P10H	orange	25.45 / 25.95
518C	20	-12	19.1	3/4	55	80C-P12	green	27.95 / 28.45
518C	25	-16	25.4	1	55	80C-P16	black	34.15 / 34.65
520N	5	-03	4.8	3/16	55/56	80C-P03	grey	12.15 / 12.65
520N	6	-04	6.3	1/4	55/56	80C-P04	red	14.25 / 14.75
520N	8	-05	7.9	5/16	55/56	80C-P05	purple	15.75 / 16.25
520N	10	-06	9.5	3/8	55/56	80C-P06	yellow	17.15 / 17.65
520N	12	-08	12.7	1/2	55/56	80C-P08	blue	21.35 / 21.85
528N	5	-03	4.8	3/16	55/56	80C-P03	grey	12.15 / 12.65
528N	6	-04	6.3	1/4	55/56	80C-P04	red	14.25 / 14.75
528N	8	-05	7.9	5/16	55/56	80C-P05	purple	15.75 / 16.25
528N	10	-06	9.5	3/8	55/56	80C-P06	yellow	17.15 / 17.65
528N	12	-08	12.7	1/2	55/56	80C-P08	blue	21.35 / 21.85
540N	3	-02	3.2	1/8	58	80C-P02H	brown	10.05 / 10.45
540N	5	-03	4.8	3/16	55/56	80C-P03	grey	12.15 / 12.65
540N	6	-04	6.3	1/4	55/56	80C-P04	red	14.25 / 14.75
540N	8	-05	7.9	5/16	55/56	80C-P05	purple	15.75 / 16.25
540N	10	-06	9.5	3/8	55/56	80C-P06	yellow	17.15 / 17.65
540N	12	-08	12.7	1/2	55/56	80C-P08	blue	21.35 / 21.85
540N	20	-12	19.1	3/4	55/56	80C-P12	green	27.95 / 28.45
550H	5	-03	4.8	3/16	55/56	80C-P03	grey	12.15 / 12.65
550H	6	-04	6.3	1/4	55/56	80C-P04	red	14.25 / 14.75
550H	8	-05	7.9	5/16	55/56	80C-P05	purple	15.75 / 16.25
550H	10	-06	9.5	3/8	55/56	80C-P06	yellow	17.15 / 17.65
550H	12	-08	12.7	1/2	55/56	80C-P08	blue	21.35 / 21.85
550H	16	-10	15.9	5/8	58	80C-P10H	orange	25.45 / 25.95
550H	20	-12	19.1	3/4	55/56	80C-P12	green	27.95 / 28.45
550H	25	-16	25.4	1	55/56	80C-P16	black	34.15 / 34.65



Technical and Design Information
Crimping Diameter and Tooling Selection Chart for Parflex® Hose

Parflex® Hose

Hose Type	DN	Dash	mm	inch	Fitting Series	MiniKrimp/ Parkrimp®/ KarryKrimp®	Colour Code	Crimp Diameter in mm (from / to)
55LT	3	-02	3.2	1/8	58	80C-P02H	brown	10.05 / 10.45
55LT	5	-03	4.8	3/16	55/56	80C-P03	grey	12.15 / 12.65
55LT	6	-04	6.3	1/4	55/56	80C-P04	red	14.25 / 14.75
55LT	8	-05	7.9	5/16	55/56	80C-P05	purple	15.75 / 16.25
55LT	10	-06	9.5	3/8	55/56	80C-P06	yellow	17.15 / 17.65
55LT	12	-08	12.7	1/2	55/56	80C-P08	blue	21.35 / 21.85
55LT	20	-12	19.1	3/4	55	80C-P12	green	27.95 / 28.45
1202LT	5	-03	4.8	3/16	55/56	80C-P03	grey	12.20 / 12.70
1202LT	6	-04	6.3	1/4	55/56	80C-P04	red	14.25 / 14.75
1202LT	8	-05	7.9	5/16	55/56	80C-P05	purple	15.75 / 16.25
1202LT	10	-06	9.5	3/8	55/56	80C-P06	yellow	17.15 / 17.65
560	5	-03	4.8	3/16	55/56	80C-P03	grey	12.15 / 12.65
560	6	-04	6.3	1/4	55/56	80C-P04	red	14.25 / 14.75
560	8	-05	7.9	5/16	55/56	80C-P05	purple	15.75 / 16.25
560	10	-06	9.5	3/8	55/56	80C-P06	yellow	17.15 / 17.65
560	12	-08	12.7	1/2	55/56	80C-P08J	blue	20.75 / 21.25
560	20	-12	19.1	3/4	55	80C-P12H	green	29.25 / 29.75
575X	5	-03	4.8	3/16	55/56	80C-P03	grey	12.15 / 12.65
575X	6	-04	6.3	1/4	55/56	80C-P04	red	14.25 / 14.75
575X	10	-06	9.5	3/8	55/56	80C-P06	yellow	17.15 / 17.65
575X	12	-08	12.7	1/2	55/56	80C-P08	blue	21.35 / 21.85
580N	6	-04	6.3	1/4	56/58	80C-P04H	red	16.95 / 17.45
580N	10	-06	9.5	3/8	56/58	80C-P06H	yellow	19.95 / 20.45
580N	12	-08	12.7	1/2	56/58	80C-P08H	blue	22.85 / 23.35
580N	20	-12	19.1	3/4	56/58	80C-P12H	green	29.25 / 29.75
580N	25	-16	25.4	1	56/58	80C-P16H	black	37.45 / 37.95
588N	6	-04	6.3	1/4	56/58	80C-P04H	red	16.95 / 17.45
588N	10	-06	9.5	3/8	56/58	80C-P06H	yellow	19.95 / 20.45
588N	12	-08	12.7	1/2	56/58	80C-P08H	blue	22.85 / 23.35
588N	16	-10	15.9	5/8	56/58	80C-P10H	orange	25.45 / 25.95
588N	20	-12	19.1	3/4	56/58	80C-P12H	green	29.25 / 29.75
588N	25	-16	25.4	1	56/58	80C-P16H	black	37.45 / 37.95
590	5	-03	4.8	3/16	55/56	80C-P03	grey	12.15 / 12.65
590	6	-04	6.3	1/4	55/56	80C-P04	red	14.25 / 14.75
590	10	-06	9.5	3/8	55/56	80C-P06	yellow	17.15 / 17.65
590	12	-08	12.7	1/2	55/56	80C-P08J	blue	20.75 / 21.25
590	16	-10	15.9	5/8	56/58	80C-P10H	orange	25.45 / 25.95
590	20	-12	19.1	3/4	56/58	80C-P12H	green	29.25 / 29.75
590	25	-16	25.4	1	56/58	80C-P16J	black	36.85 / 37.35
919		-03	3.2	1/8	91	80C-T03	grey	7.50 / 7.75
919		-04	4.7	3/16	91N	80C-T04N	red	8.50 / 9.00
919/919B		-05	6.3	1/4	91N	80C-T05N	purple	9.80 / 10.30
919/919B		-06	7.9	5/16	91N	80C-T06N	yellow	11.95 / 12.45
919/919B		-08	10.3	13/32	91N	80C-T08N	blue	14.35 / 14.85
919		-10	12.7	1/2	91N	80C-T10N	orange	16.90 / 17.40
919		-12	15.9	5/8	91N	80C-T12N	green	20.55 / 20.55
919		-16	22.2	7/8	91N	80C-T16N	black	26.55 / 27.05
919		-20	28.6	1 1/8	91	80C-T20	white	35.95 / 36.45



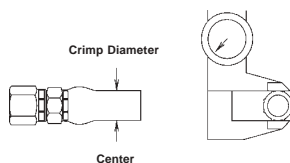
Technical and Design Information
Crimping Diameter and Tooling Selection Chart for Parflex® Hose

Parflex® Hose

Hose Type	DN	Dash Size	mm	inch	Fitting Series	MiniKrimp/ Parkrimp®/ KarryKrimp®	Colour Code	Crimp Diameter in mm (from / to)
919U		-04	4.7	3/16	91N	80C-T04N	red	8.50 / 9.00
919U		-06	7.9	5/16	91N	80C-T06N	yellow	11.90 / 12.40
919U		-08	10.3	13/32	91N	80C-T08N	blue	14.40 / 14.90
919U		-12	15.9	5/8	91N	80C-T12N	green	20.00 / 20.60
919U		-16	22.2	7/8	91N	80C-T16N	black	27.90 / 28.40
929/929B		-04	4.7	3/16	91N	80C-T04N	red	8.50 / 9.00
929/929B		-06	7.9	5/16	91N	80C-T06N	yellow	11.90 / 12.40
929/929B		-08	10.3	13/32	91N	80C-T08N	blue	14.40 / 14.90
929/929B		-12	15.9	5/8	91N	80C-T12N	green	20.00 / 20.60
929/929B		-16	22.2	7/8	91N	80C-T16N	black	27.90 / 28.40
939/939B	12	-08	12.7	1/2	93N	83C-T08C	blue	18.55 / 19.05
939/939B	16	-10	15.9	5/8	93N	83C-T10C	orange	22.50 / 23.00
939/939B	20	-12	19.1	3/4	93N	83C-T12C	green	26.90 / 27.40
939/939B	25	-16	25.4	1	93N	83C-T16C	black	32.00 / 32.50
939/939B	32	-20	31.8	1 1/4	93N	83C-T20C	white	38.75 / 39.25
939/939B	40	-24	38.1	1 1/2	93N	83C-T24C	red	45.70 / 46.20
939/939B	50	-32	50.8	2	93N	83C-T32C	green	58.80 / 59.30
2040N/2040H	5	-03	4.7	3/16	55/56	80C-P03F	grey	11.55 / 12.05
2040N/2040H	6	-04	6.3	1/4	55/56	80C-P04	red	14.25 / 14.75
2040N/2040H	8	-05	8.2	5/16	55/56	80C-P05F	purple	15.55 / 16.05
2040N/2040H	10	-06	9.7	3/8	55/56	80C-P06	yellow	17.25 / 17.75
2040N/2040H	12	-08	12.8	1/2	55/56	80C-P08	blue	21.25 / 21.75

Notes:

- 1) The information covered on these pages pertains to steel, stainless steel and brass hose fittings. The ParKrimp® 2 assembly tool is required for crimping stainless steel fittings and those of the 93N series for sizes -12 and higher.
- 2) **When crimping Parflex® hose fittings, use the silver die ring only.**
- 3) The crimp diameter is measured in the centre of the crimping area.
- 4) Crimp diameter roundness shall not vary by more than 0.25 mm.
- 5) Polyflex® division reserves the right to alter crimp specifications.



Mounting and testing instructions for the finishing of polyflex® hose assemblies are available upon request.

Technical and Design Information
Determination of Hose Length

Thermoplastic Hose

Determining the Hose Length for Over-the-Sheaf Applications

The exact cut-off length for an optimum over-the-sheaf 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.

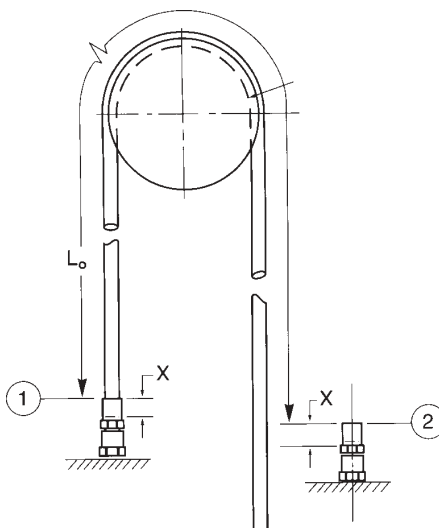
2. Measure hose length from point 1 to point 2 with hose taut (L_0 = length).

3. Calculate hose cut-off or free length L_F :

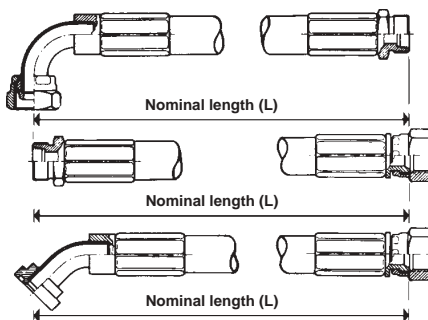
$$L_F = 0.985 L_0 + 2x$$

Where L_F includes coupling insert allowance on both ends. The coupling insert allowance (x) may be found from the fitting tables as well as from the related drawing (difference measurement A-B) or from direct measuring on the coupling. A 1.5% stretch allowance is provided in this formula.

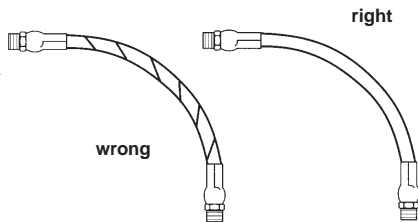
4. Couple the remaining hose end and assemble on the machine.



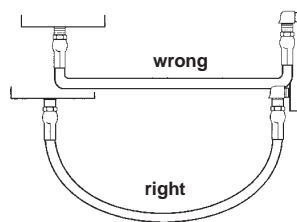
Definition of nominal length



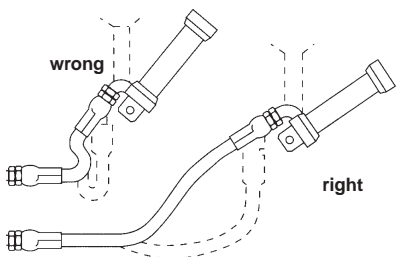
Installation Tips



Hose is weakened when installed in twisted position. Also, pressure pulses in twisted hose tend to fatigue wire and loosen fitting connections. Design so that machine motion produces bending rather than torsion.

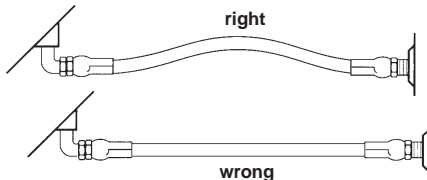


Hose should exit coupling in a straight position rather than side loaded. The minimum bend radius must not be exceeded to avoid kinking of hose and flow restriction.

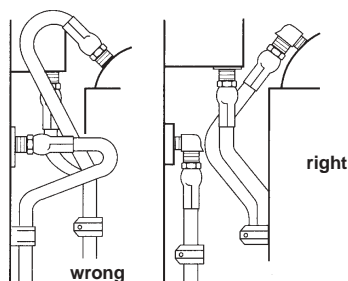


When hose assembly is installed in a flexing application, remember that metal hose fittings are not part of the flexible portion.

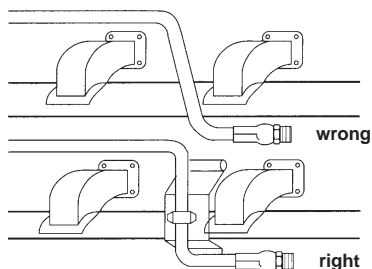
Free hose length allowance:



Pressure can change hose in length by as much as $\pm 2\%$. This must be considered when cutting hose to appropriate length.



Use elbows or adaptors as necessary to eliminate excess hose length and to ensure neater installation and easier maintenance.



Avoid installing hose assemblies close to heat sources. However, if this should be required, insulate hose.

Technical and Design Information
Unit Conversion Table

Unit Conversion Table

Physical value	Unit	Abbreviation	Conversion Unit	Factor
Length	1 inch	in	mm	25.4
	1 millimeter	mm	in	0.03934
	1 foot	ft	m	0.3048
	1 meter	m	ft	3.28084
Surface	1 square inch	sq in	cm ²	6.4516
	1 square centimeter	cm ²	sq in	0.1550
Cubic content	1 gallon (UK)	gal	l	4.54596
	1 liter	l	gal (UK)	0.219976
	1 gallon (US)	gal	l	3.78533
	1 liter	l	gal (US)	0.264177
Weight	1 pound	lb	kg	0.453592
	1 kilogram	kg	lb	2.204622
Pressure	1 pound per square inch	psi	bar	0.06895
	1 bar	bar	psi	14.5035
	1 pound per square inch	psi	MPa	0.006895
	1 mega pascal	MPa	psi	145.035
	1 kilo pascal	kPa	bar	0.01
	1 bar	bar	kPa	100
	1 mega pascal	MPa	bar	10
Velocity	1 foot per second	ft/s	m/s	0.3048
	1 meter per second	m/s	ft/s	3.28084
Flow rate	1 gallon per minute (UK)	gal/min.	l/min.	4.54596
	1 liter per minute	l/min.	gal/min. (UK)	0.219976
	1 gallon per minute (US)	gal/min.	l/min.	3.78533
	1 liter per minute	l/min.	gal/min. (US)	0.264178
Temperature	Fahrenheit	F	°C	$\frac{5}{9}(F-32)$
	Celsius	°C	F	$\frac{C \times 9}{5} + 32$

(UK) = Unit used in the United Kingdom
 (US) = Unit used in the Unites States of America

P – Approvals and Guidelines

Approvals	P2
Installation Guidelines	P3
Parker Safety Guidelines	P4 - P7

For Your Safety!

Hose assemblies are used to transmit various kinds of fluids at considerable pressures. The critical zone of a hose assembly is the connection between flexible hose and rigid fitting (crimping area). Only the use of original polyflex® components (hose, fittings and tooling) and full compliance with the polyflex® assembly instructions can guarantee safety and conformity with standards.

When making and testing hose assemblies in connection with the respective field of application the guidelines and technical regulations as well as protection and hazard prevention rulings must be adhered to.

You as the manufacturer of polyflex® hose assemblies are obliged to mark the hose assemblies according to the regulations and to verify their safety by a final pressure test.

Non-compliance with these rules can lead to the failure of a hose assembly and the loss of warranty.

P



Approvals and Guidelines

Approvals

Standards and Certificates	Approved Polyflex® / Parflex® Hose
Flame Resistance: USCG, 46 CFR SAEJ1942	520N, 540N, 550H, 560, 590, 919 (with fire sleeve) 919 (with fire sleeve)
Dry Food Contact: FDA, CFR21 Part 177	919, 929
Hydraulic Service: SAE 100R7 SAE 100R8 SAE 100R14	2010H, 540N, 550H, 558H, 55LT, 510A, 518C 520N, 580N, 588N 919
International Standards: ISO (International Standards Organisation) ISO 3949-1 ISO 3449-2	540N, 550H 520N, 580N, 588N
DIN (Deutsches Institut für Normung): DIN 24951-2KT DIN 20022 Part 1 (Performance Requirements) DIN 20022 Part 2	2010H, 540N, 550H, 558H 2040N, 560 2040H, 2245N/2244N
Electrical Non-Conductivity: SAE J517, Pitman E-00094 Ontario Hydro, SAE J517	518C, HP8, 518C, 588N
DNV: Det Norske Veritas Marine Steel Ships, Mobile Offshore and Fixed Offshore Drilling Units	520N, 580N, 588N, 550H, 558N, 540N 573X, 573XL, 575X HP, HP8 590, 593, 560 2040N, 2040H, 2010N, 2010H, 2020N, 2245N, 2244N
Germanischer Lloyd 92590-97HH	2040N
CNG TUEV and AGA AGA/CSA IAS-U.S. 1-93	2370N-04V01, 2370N-05V01, 2370N-06V01, 2370N-08V01 5CNG
Deutsche Bahn acc. DIN 5510/2 053 973 40/1 053 973 40/2	2030T-03V70 2030T-16V70
TUEV MUK-KSP-A 039	TPU Tubing

Hose Installation Tips

Establish hose size (I. D.) and style based upon flow rate (l/min), pressure drop, and chemical resistance with liquid or gaseous fluid. Other significant factors to be considered in hose selection and installation are the following:

Burst Pressure and Working Pressure

The specified burst pressure for each hose style and dash size are for unaged hoses tested at normal laboratory temperature in accordance with SAE J343 specification for normal service and technically ideal installations. The maximum recommended working pressure is 1/4 of the minimum rated burst pressure, except as otherwise specifically stated in those product specifications. For more severe service, a higher rated working pressure hose may have to be selected.

Operating Temperature

The temperature range for satisfactory service (maximum hose life) depends to a great extent upon the fluid being conveyed. Use of a hose above maximum specified temperature ratings will shorten hose life due, but not limited, to oxidation, chemical degradation and loss of compression within the coupling.

Pressure Effects

Pressure surges and system shocks (spikes) are common in hydraulic systems. The normal 1:4 safety factor should reflect these transient pressures. Where these surges and shocks are considered severe or hazardous, the safety factor should be increased.

When hose is under pressure, it may change in length by as much as +2/ -4%. Installation should compensate for shortening by providing an appropriate amount of slack and for lengthening by allowing space for this growth to be absorbed.

Bend Radius

The minimum bend radii listed in this catalogue are valid at rated working pressures and indicated service temperatures. Service life of a hose may be shortened if the minimum radius is exceeded or if the hose is flexed continuously in use.

Ambient Temperature

Exceedingly high or low ambient temperatures will affect the materials from which the hose is constructed and will negatively influence hose life. When at all possible, the hose should be routed in such a manner as to protect it from heat sources. In extreme cold applications, the equipment should be designed with remote relief valves to allow circulation and warming of the oil before hose articulation is attempted.

Abrasion

Abrasion occurs in numerous forms. Among the more common are the typical rubbing or chafing, with the second being very high frequency, low amplitude friction. This type of abrasion results from pump pressure pulses depending on the pump characteristics. It can also be caused by equipment vibration or resonance. Abrasion may occur when two hose lines cross or when a hose line rubs or bears against a fixed point. Abrasion resistance is also a function of temperature and attack of the cover material by aggressive chemicals.

Protective sleeving can ward off premature hose failure resulting from abrasion.

Routing and Clamping

Maximum efforts should be made to route hose so it flexes in a single plane. Routing hoses in flexure through compound bends results in torsion. When this is unavoidable, the torsion should be distributed over the maximum hose length possible. Wire reinforced hoses suffer the most rapid and severe loss of service life when applied in torsion. Extremely tight and improperly located clamps focus this torsion over short distances.

Analysis of the hose function is required before the proper clamping techniques can be selected. In some applications, hoses must be contained to stay out of harm's way and at the same time be free to come and go with equipment articulation. Other applications may require restrictive clamping, in which case a protective material should be used around the hose to provide the grasp without deformation of the hose by the clamp.



Parker Safety Guide for Selecting and Using Hose, Fittings and Related Accessories

Danger: Failure or improper selection or improper use of hose, fittings, or related accessories can cause death, personal injury and property damage. Possible consequences of failure or improper selection or improper use of hose, fittings, or related accessories include but are not limited to:

- Fittings thrown off at high speed.
- High velocity fluid discharge.
- Explosion or burning of the conveyed fluid.
- Electrocutation from high voltage electric power lines or other sources of electricity.
- Contact with suddenly moving or falling objects that are to be held in position or moved by the conveyed fluid.
- Dangerously whipping hose.
- Contact with conveyed fluids that may be hot, cold, toxic or otherwise injurious.
- Sparking or explosion caused by static electricity build-up.
- Sparking or explosion while paint or flammable liquid spraying.

Before selecting or using any Parker hose or fittings or related accessories, it is important that you read and follow the following instructions.

1.0 General Hints

1.1 Scope: This safety guide provides instructions for selecting and using (including assembling, installing, and maintaining) hose (including all rubber and/or plastic products commonly called hose or tubing), fittings (including all products commonly called fittings or couplings for attachment to hose), and related accessories (including crimping and swaging machines and tooling). This safety guide is a supplement to and is to be used with, specific Parker publications for the specific hose, fittings and related accessories that are being considered for use.

1.2 Fail Safe: Hose and hose assemblies 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 or hose assembly will not endanger persons or property.

1.3 Distribution: Provide a copy of this safety guide to each person that is responsible for selecting or using hose and fitting products. Do not select or use hose and fittings without thoroughly reading and understanding this safety guide as well as the specific Parker publications for the products considered or selected.

1.4 User Responsibility: Due to the wide variety of operating conditions and uses for hose and fittings, Parker and its distributors do not represent or warrant that any particular hose or fitting is suitable for any specific end use system. This safety guide does not analyse all technical parameters that must be considered in selecting a product. The user, through his own analysis and testing, is solely responsible for:

- Making the final selection of the hose and fitting.
- Assuring that the user's requirements are met and that the use presents no health or safety hazards.
- Providing all appropriate health and safety warnings on the equipment on which the hose and fittings are used.

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 product being considered or used, for telephone numbers of the appropriate technical service department.

2.0 Hose and Fitting Selection Instructions

2.1 Electrical Conductivity: Certain applications require that a hose be non-conductive to prevent electrical current flow. Other applications require the hose to be sufficiently conductive to drain off static electricity. Extreme care must be exercised when selecting hose and fittings for these or any other applications in which electrical conductivity or non-conductivity is a factor. For applications that require hose to be electrically non-conductive, including but not limited to applications near high voltage electric lines, only special non-conductive hose can be used. The manufacturer of the equipment in which the non-conductive hose is to be used must be consulted to be certain that the hose and fittings selected are proper for the application. Do not use any Parker hose or fitting for any such application requiring non-conductive hose, including but not limited to applications near high voltage electric lines, unless (1) the application is expressly approved in the Parker technical publication for the product, (2) the hose is both orange colour and marked *non-conductive*, and (3) the manufacturer of the equipment on which the hose is to be used specifically approves the particular Parker hose and fitting for such use.

The electrical conductivity or non-conductivity of hose 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' 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.

Parker manufactures a special hose for conveying paint in airless paint spraying applications. This hose is labelled Electrically Conductive Airless Paint Spray Hose on its layline and on its packaging. This hose must be properly connected to Parker fittings and properly grounded in order to dissipate dangerous static charge build-up which occurs in all airless paint spraying. Do not use any other hose, even if electrically conductive, for airless paint spraying. 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.



Approvals and Guidelines

Parker Safety Guidelines

Parker manufactures a special hose for certain compressed natural gas (CNG) applications where static electricity build-up may occur. This hose is labelled Electrically Conductive for CNG Use on its layline and on its packaging. This hose must be properly connected to Parker fittings and properly grounded in order to dissipate dangerous static charge build-up which occurs in, for example, high velocity CNG dispensing or transfer. Do not use any other hose, even if electrically conductive, for CNG transfer where static charge build-up may occur. Use of any other hose in such application or failure to properly connect 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 dangerous gas permeation through the hose wall. See section 2.6, Permeation of Fluids, for more information.

2.2 Pressure: Hose selection must be made so that the published maximum recommended working pressure of the hose is equal to or greater than the maximum system pressure. Surge pressures in the system higher than the published maximum recommended working pressure will cause failure or shorten hose life. Do not confuse burst pressure or other pressure values for this purpose.

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 applications.

2.4 Temperature: Be certain that fluid and ambient temperatures, both steady and transient, do not exceed the limitations of the hose. Care must be taken when routing hose near hot objects such as manifolds.

2.5 Fluid Resistance: Hose selection must assure resistance of the hose tube, cover, reinforcement, and fittings with the fluid media used. See the fluid resistance chart in the Parker publication for the product being considered or used.

2.6 Permeation: Permeation (that is seepage through the hose) will occur from inside the hose to outside when hose is used with gases, liquid and gas fuels, and refrigerants (including but not limited to such materials as helium, fuel oil, natural gas, or Freon). This permeation may result in high concentrations of vapours 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 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 even though its fluid resistance is acceptable without considering the potential hazardous effects that can result from permeation through the hose assembly.

Permeation of moisture from outside the hose to inside the hose will also occur in hose 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.

Freon is a registered trademark of the E. I. DuPont De Nemours Co. Inc.

2.7 Size: Transmission of power by means of pressurised 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 minimise inherent problems (kinking or flow restriction due to hose collapse).

2.9 Environment: Care must be taken to ensure that the hose 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 life or cause failure. Mechanical loads which must be considered include excessive flexing, twisting, kinking, tensile or side loads, bend radius, and vibration. Use of swivel type fittings or adaptors may be required to ensure no twist is put into the hose. Unusual applications may require special testing prior to hose selection.

2.11 Physical Damage: Care must be taken to protect hose from wear, snagging and cutting, which can cause premature hose failure.

2.12 Proper End Fitting: See instruction 3.2 to 3.5 below. These recommendations may be substantiated by testing to industry standards such as SAE J517.

2.13 Length: When establishing a proper hose length, motion absorption, hose length changes due to pressure, and hose and machine tolerances must be considered.

2.14 Specifications and Standards: When selecting hose and fittings, government, industry, and Parker specifications and recommendations must be reviewed and followed as applicable.

2.15 Hose Cleanliness: Hose components may vary in cleanliness levels. Care must be taken to ensure that the assembly selected has an adequate level of cleanliness for the application.

2.16 Fire Resistant Fluids: Some fire resistant fluids require the same hose as petroleum oil. Some use a special hose, while a few fluids will not work with any hose at all. See instructions 2.5 and 1.5. The wrong hose 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.



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2.17 Radiant Heat: Hose 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.

2.18 Welding and 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 and possibly ignite escaping fluid resulting in a catastrophic failure. Heating of plated parts, including hose fittings and adaptors, above 232°C) such as during welding, brazing, or soldering may emit deadly gases.

2.19 Atomic Radiation: Atomic radiation affects all materials used in hose assemblies. Since the long-term effects may be unknown, do not expose hose assemblies to atomic radiation.

3.0 Hose and Fitting Assembly and Installation Instructions

3.1 Pre-Installation Inspection: Prior to installation, a careful examination of the hose must be performed. All components must be checked for correct style, size, catalogue number and length. In addition, the hose must be examined for cleanliness, obstructions, blisters, cover looseness, or any other visible defects.

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 authorised in writing by the 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 (1) the chief engineer of the appropriate Parker division approves the assembly in writing, and (2) the user verifies the assembly and the application through analysis and testing. See instruction 1.4 above.

The Parker published instructions must be followed for assembling the fittings on the hose. These instructions are provided in the Parker Fitting Catalogue for the specific Parker fitting being used.

3.3 Related Accessories: Do not crimp or swage any Parker hose or fitting with anything but the proper listed Parker swage or crimp machine and dies and in accordance with Parker published instructions. Do not crimp or swage another manufacturer's hose fitting with a Parker crimp or swage die unless authorised in writing by the chief engineer of the appropriate Parker division.

3.4 Parts: Do not use any Parker hose fitting part (including but not limited to socket and nipple) except with the correct Parker mating parts, in accordance with Parker published instructions, unless authorised in writing by the chief engineer of the appropriate Parker division.

3.5 Reusable Fittings: Do not reuse any reusable hose fitting that was blown or pulled off a hose. Do not reuse a Parker permanent hose fitting (that is, crimped or swaged) or any part thereof.

3.6 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/fitting juncture.

3.7 Twist Angle and Orientation: Hose installations must be such that relative motion of machine components does not produce twisting.

3.8 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 ensure such restraints do not introduce additional stress or wear points.

3.9 Proper Connection of Ports: Proper physical installation of the hose requires a correctly installed port connection while ensuring that no twist or torque is transferred to the hose.

3.10 External Damage: Proper installation is not complete without ensuring that tensile loads, side loads, kinking, flattening, potential abrasion, thread damage, or damage to sealing surfaces are corrected or eliminated. See instruction 2.10.

3.11 System Checkout: All air entrapment must be eliminated and the system pressurised to the maximum system pressure and checked for proper function and freedom from leaks. Personnel must stay out of potential hazardous areas while testing and using.

3.12 Routing: Hose should be routed in such a manner that if a failure does occur, oil mist will not come into contact with hot surfaces, open flame, or sparks, and the chance of personal injury is minimised.

4.0 Hose and Fitting Maintenance Instructions

4.1 Even with proper selection and installation, hose life may be significantly reduced without a continuing maintenance program. Frequency should be determined by the severity of the application and risk potential. A maintenance program must be established and followed by the user and must include the following as a minimum

4.2 Visual Inspection of Hose/Fitting: Any of the following conditions require immediate shut down and replacement of the hose assembly:

- Fitting slippage on hose



Approvals and Guidelines

Parker Safety Guidelines

- Damage, 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
- Blistered, soft, degraded, or loose cover.

4.3 Visual Inspection All Other: The following items must be tightened, repaired, removed or replaced as required:

- Leaking port conditions.
- Excess dirt build-up.
- Clamps, guards, shields
- System fluid level, fluid type and any air entrapment.

4.4 Functional Test: Operate the system at maximum operating pressure and check for possible malfunctions and freedom from leaks. Personnel must avoid potential hazardous areas while testing and using.

4.5 Replacement Intervals: Specific replacement intervals must be considered based on previous service life, industry recommendations, or when failures could result in unacceptable downtime, damage, or injury risk. See instruction 1.2.

4.6 Inspecting a Pressurised System: Hydraulic power is accomplished by utilising high-pressure fluids to do work. Hoses, fittings and hose assemblies all contribute to doing work 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. Usually these failures are the result of some form of misapplication, abuse, or simply wear. When hoses fail, generally the high-pressure fluids inside escape in some sort of stream which may or may not be visible to the user. 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 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.

4.7 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 part of the body.

For Your Safety!

Hose assemblies are used to transmit various kinds of fluids at considerable pressures. The critical zone of a hose assembly is the connection between flexible hose and rigid fitting (crimping area). Only the use of original polyflex® components (hose, fittings and tooling) and full compliance with the polyflex® assembly instructions can guarantee safety and conformity with standards.

When making and testing hose assemblies in connection with the respective field of application the guidelines and technical regulations as well as protection and hazard prevention rulings must be adhered to.

You as the manufacturer of polyflex® hose assemblies are obliged to mark the hose assemblies according to the regulations and to verify their safety by a final pressure test.

Non-compliance with these rules can lead to the failure of a hose assembly and the loss of warranty.



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CNGG5-8-KIT	M4	N15x1.5/74324-100	L7	PVC-S-16	M5		
CNGG-62-KIT	M4	N16X1.5	L5	PVC-S-DN14-NATUR	M5		
CPX-3	H3	N16X2	L5	PVC-S-DN18-NATUR	M5		
CPX-4	H3	N16x2/5/PM2-100	L7	PWPU 10x2/5-W-50	L12		
CPX-6	H3	N16x2/74324-100	L7	PWPU 12x2/5-W-50	L12		
DOAB-10-05	K100	N18x2/74324-100	L7	PWPU 14x2/5-W-50	L12		
DOAB-12-05	K100	N22X2.5	L5	PWPU 4x1/5-W-100	L12		
DOAB-12-06	K100	N3X0.60	L5	PWPU 6x1/5-W-100	L12		
DOAB-6-025	K100	N4X0.65	L5	PWPU 8x1.5/5-W-100	L12		
DOAB-8-04	K100	N4X1	L5	PWPU 8x2/5-W-100	L12		
D2AB-10-04	K101	N4x1/74324-100	L7	SMM100	N8		
D2AB-12-05	K101	N5X1	L5	ST250	N8		
D2AB-6-025	K101	N6X1	L5	TFE 10 x 1	L11		
FEP 10 x 1	L11	N6x1/5/PM2-100	L7	TFE 12 x 1	L11		
FEP 12 x 1	L11	N6x1/74324-100	L7	TFE 4 x 1	L11		
FEP 4 x 1	L11	N8X1	L5	TFE 6 x 1	L11		
FEP 6 x 1	L11	N8X1.25	L5	TFE 8 x 1	L11		
FEP 8 x 1	L11	N8x1/5/PM2-100	L7	TH 4-4	N8		
HEXACUT12/10	L10	N8x1/74324-100	L7	TH 5-3	N8		
HEXACUT14/4	L10	P01N10X1.25STS	L9	TH8-360E	N2		
HEXACUT8/6	L10	P01N10X1STS	L9	TPU 1/2	L3		
HG-DN2	K108	P01N12X1.5STS	L9	TPU 1/4	L3		
HP-3	E9	P01N12X1STS	L9	TPU 1/8	L3		
HP-4	E9	P01N14X1.5STS	L9	TPU 10 x 1.5	L3		
HP45	N7	P01N40.65STS	L9	TPU 10 x 1.5D	L4		
HP-6	E9	P01N6X1STS	L9	TPU 12 x 2	L3		
HP8-3	E9	P01N8X1.25STS	L9	TPU 16 x 2.5	L3		
HP8-4	E9	P01N8X1STS	L9	TPU 3 x 0.5	L3		

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