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Auto-QRG 07/24
Your Local Authorized Parker Distributor

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PUSH TO CONNECT FITTINGS

For Pneumatic Automation and Aggressive Service Applications
Automation Products Quick Reference Guide | July 2024

How to Order – PLP Metal & Composite, PLM and PLS Fittings

Fractional Inch

W	3	69	PLP	BJ	-4	-2
A	B	C	D	E	F	G

A Thread Sealant

W	White Acrylic
Blank	No Sealant

B Body Material

1	Metal Forging
3	Composite

C Thread Configuration

62	Union Y
66	Female Connector
68	Male Connector
70	Female Elbow
64	Union Tee
65	Union Elbow
69	Male Elbow
71	Male Run Tee
72	Male Branch Tee
47	Cross
79	45° Elbow
22	Babed Connector
32	Union
24	Mutiple Tee
67	Tube Reducer
639	Plug

D Fitting Series

PLP	Composite & Metal
PLM	All Metal
PLS	Stainless Steel

E Fitting Description

X	Extended Male Elbow
SP	Standpipe
PD	Double Y
BJ	Banjo
TJ	Twin Banjo
DJ	Double Banjo
BH	Bulkhead Union
DSP	Plug-in Multiple Y
RC	Rail Connector
DRC	Double Rail Connector
BHP	Plug-in Bulkhead

Metric

W	3	69	PLP	X	6M	2	R
A	B	C	D	E	F	G	H

F Tube Size

Inches		Metric	
2	1/8	4M	4mm
3	3/16	6M	6mm
5/32	5/32	8M	8mm
4	1/4	10M	10mm
5	5/16	12M	12mm
6	3/8	14M	14mm
8	1/2		

G Thread Size

Inches		Metric	
0	10-32	2	1/8
1	1/16	4	1/4
2	1/8	6	3/8
4	1/4	8	1/2
6	3/8	M3	M3X0.5
8	1/2	M5	M5X0.8
		M7	M7X1
		M10	M10X1
		M12	M12X1.5

H Thread Type

Metric	
R	BSPT
G	BSPP

Note: Not all Fitting Configurations are available in all Series, Tube OD, and/or Thread Size.

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

FLOW CONTROL VALVES

Specifications:

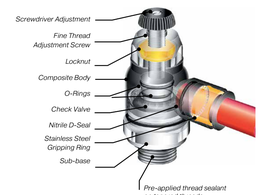
Working Pressure	15 to 145 PSI (1.0 to 9.9 bar)
Working Pressure (FC703 Only)	15 to 150 psi (1.0 to 10.34 bar)
Working Temperature	30° to 160° F (-1.1° to +71.1°C)
Working Temperature (FC703 Only)	0° to +200° F (-17.8° to +93.3° C)

Product Features:

- Controls the speed of a pneumatic actuator
- NPT and BSPP threads
- Threaded and Push-to-Connect bodies
- UL94 V-0 Flame Resistance Standard (FC703 Only)

Applications: Packaging, filling, dispensing, bottling, pneumatic circuits

Compatible Tubing: Polyethylene, Polyurethane 95 Durometer Shore A, Semi-rigid Nylon, FEP Fluoropolymer



How to Order – Fractional Inch & Metric

FCC731	-4	-2
A	B	C

A Series/Configuration

FC703	All Brass Meter Out	FCCS	Swivel
FC70	Metal Meter Out	FCMS	Swivel Meter Out Miniature
FCI70	Metal Meter In	FCMSI	Swivel Meter In Miniature - BSPP
FCC731	Compact Meter Out	FCMSPI	Plug-In Meter In Miniature
FCCI731	Compact Meter In	FCMSP	Plug-In Meter Out Miniature
FCCB731	Compact Bi-Directional	FCCSP	Plug-In Meter Out Compact
FCKC731	Compact Knobless Meter Out	FCCSPI	Plug-In Meter In Compact
FCKCI	Compact Knobless Meter In	FC832/FC836	In-Line
FCM	Miniature Meter Out	FCB	In-Line Bi-Directional
FCMI	Miniature Meter In	FCPM	In-Line Panel Mountable
FCKB	Miniature Bi-Directional	FCI	Metal Meter In - BSPP
FCMK	Miniature Meter Out Knobless		

B Tube/Stem Size

2	1/8	6	3/8
3M	3mm	8	1/2
4M	4mm (5/32)	10	10mm
4	1/4	12	12mm
6M	6mm	14	14mm
8M	8mm (5/16)		

C Thread or Tube OD

BLANK	No Threads	4G	1/4 BSPP
M3	M3	4R	1/4 BSPT
0	10-32	6	3/8 NPT
M5	M5	6G	3/8 BSPP
2	1/8 NPT	6R	3/8 BSPT
2G	1/8 BSPP	8	1/2 NPT
2R	1/8 BSPT	8G	1/2 BSPP
4	1/4 NPT	8R	1/2 BSPT

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PLP COMPOSITE

Specifications:

Working Pressure	Up to 290 PSI (19.9 bar) Up to 260 PSI (17.9 bar) (5/16" tubing size only)
Working Temperature	-4° to +175° F (-20° to +79.4°C) 5° to 155° F (-15° to +68.3°C) (5/16" size only)
Vacuum Rating	28" Hg

Product Features:

- Stainless steel gripping ring
- Glass-reinforced nylon 6.6 body
- Nitrile seal for air and inert gas
- NPT, BSPT, BSPP, metric threads & plug-in options
- Widest range of configurations
- Round internal hex on straights allows for easy assembly in tight areas
- Oxygen cleaning available - Meets ISO 15001
- Silicone free

Compatible Media: Air, Cutting Fluids, Inert Gases

Compatible Tubing: Nylon, Polyurethane 95 Durometer Shore A, Fluoropolymer

PLP METAL

Specifications:

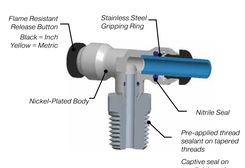
Working Pressure	Up to 300 PSI (20.6 bar) depending on tubing
Working Temperature	0° to +200° F (-17.7° to 93.3° C)
Vacuum Rating	28" Hg

Product Features:

- Stainless steel gripping ring
- Nickel-plated brass body
- Nitrile seal
- Flame resistant release button
- Corrosion resistance
- Inch and metric tube connections
- NPTF, BSPP, BSPT, and metric threads
- Silicone free
- Meets UL94 V-0 Flame Resistance Standard

Compatible Media: Air, Oil, Inert Gases

Compatible Tubing: 95FR Microweld, Polyethylene, Polypropylene, Semi Rigid Nylon, Rigid Nylon, Polyurethane 95 Durometer Shore A



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PLM ALL METAL

Specifications:

Working Pressure	Up to 435 PSI (30 bar) Up to 290 PSI (20 bar) for 169PLM
Working Temperature	-13° to +302° F (-25° to +150° C)
Vacuum Rating	28" Hg

Product Features:

- Electroless nickel-plated collet and body for chemical and welding spark resistance
- FKM seal for chemical and air applications
- NPT, BSPT, BSPP, and metric threads
- Round internal hex on straights allows for easy assembly in tight areas
- FDA compliant & silicone free

Compatible Media: Food Fluids, Harsh Detergents, Cleaning In Cold/Hot Water, Steam, Oils, Compressed Air, Inert Gases

Compatible Tubing: Fluoropolymer, Nylon, Polyethylene, Polyurethane 95 Durometer Shore A, Stainless Steel (grooved), Copper (grooved)

Note: Units with thread sealant do not meet FDA compliance.

PLS STAINLESS STEEL

Specifications:

Working Pressure	Up to 435 PSI (30 bar) Up to 290 PSI (20 bar) for 169PLS
Working Temperature	-13° to +302° F (-25° to +150° C)
Vacuum Rating	28" Hg

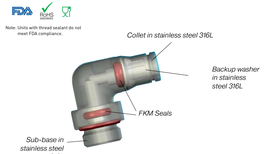
Product Features:

- Stainless steel 316L body, collet, & backup washer provide maximum resistance to chemicals, corrosion, shock and abrasion
- FKM seal for chemical and air applications
- NPT, BSPT, BSPP, and metric threads
- Hygienic smooth design reduces retention zones for easy cleaning
- FDA compliant & silicone free

Compatible Media: Food Fluids, Chemicals, Cleaning Agents, Compressed Air, Inert Gases

Compatible Tubing: Nylon, Polyurethane 95 Durometer Shore A, Polyethylene, Stainless Steel (grooved), Copper (grooved)

Note: Units with thread sealant do not meet FDA compliance.



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Temperature/Pressure

Product Line	Temperature	Tube Sizes/PSI												
		1/8"	5/32"	3/16"	1/4"	5/16"	3/8"	1/2"	4mm	6mm	8mm	10mm	12mm	14mm	16mm
PLP Composite	-4° to 175° F	290	290	260	290	290	290	290	290	290	290	290	290	290	290
PLP Metal	0° to 200° F	300	300	300	300	300	300	300	300	300	300	300	300		
PLM	-4° to 302° F		435		435		435	435	435	435	435	435	435	435	
PLS	-4° to 302° F		290		290	290	290	290	290	290	290	290	290		
90° Flow Control	30° to 160° F	145	145		145	145	145		145	145	145	145	145	145	
Swivel Flow Control	30° to 160° F		145		145		145		145	145	145	145	145		
In-Line Flow Control	30° to 160° F		145			145	145	145	145	145	145	145	145		
Plug-In Flow Control	30° to 160° F	145	145		145				145	145	145	145	145		

Tubing Compatibility

Product Line	Soft Metal Tubing			Thermoplastic Tubing			
	Copper	Aluminum	Stainless Steel	Polyethylene	Nylon	95 Shore A Polyurethane	FEP Fluoropolymer
PLP Composite							
PLP Metal							
PLM	G	G					
PLS	G	G	G				
90° Flow Control							
Swivel Flow Control							
In-Line Flow Control							
Plug-In Flow Control							

Compatible | G Tubing must be Grooved

Flow Control Specifications

Product	Material			Size		Type of Adjustment		Types of Threads				
	Nylon	Brass	Stainless	Compact	Miniature	External Screw	Knobless	NPT	UNF	BSPT	BSPP	Metric
90° Flow Control												
Swivel Flow Control												
In-Line Flow Control												
Plug-In Flow Control												

Available

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Tube Ø or Thread	Tube Ø or Thread	Compact Flow Controls	Miniature Flow Controls	Swivel Outlet Flow Controls	Plug-In Flow Controls	In-Line Flow Controls	Metal Flow Controls	Stainless Steel Flow Controls	Bi-Directional Flow Controls	Stainless Bi-Directional Flow Controls
10-32	10-32									
M5	M5									
1/8	Tube Ø or Thread									
	10-32									
	1/8									
3mm	M3									
	M5									
4mm (5/32)	Tube Ø or Thread									
	M3									
	10-32									
	M5									
	1/8									
	1/4									
1/4	Tube Ø or Thread									
	10-32									
	1/8									
	1/4									
6mm	Tube Ø or Thread									
	M5									
	1/8									
	1/4									
	3/8									
8mm (5/16)	Tube Ø or Thread									
	1/4									
	3/8									
	1/2									
3/8	Tube Ø or Thread									
	1/4									
	3/8									
	1/2									
1/2	Tube Ø or Thread									
	1/2									
10mm	Tube Ø or Thread									
	1/4									
	3/8									
	1/2									

Available

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PRESTOLOK PLP: COMPOSITE FITTINGS

Specifications	
Pressure Range:	Up to 290 psi (19.9 Bar) Up to 260 psi (17.9 bar)*
Temperature Range:	-4°F to +175°F (-20° to +79.4°C) +5° TO +155°F (-15° to +68.3°C)*
Vacuum Rating:	28" HG
Tubing Sizes	
Tube O.D.:	1/8, 5/32, 3/16, 1/4, 5/16, 3/8, 1/2
Tube O.D. (mm):	3, 4, 6, 8, 10, 12, 14, 16
Thread Sizes	
UNF, NPT, BSPT:	10-32, 1/16, 1/8, 1/4, 3/8, 1/2
BSPP:	1/8, 1/4, 3/8, 1/2
Metric:	M3, M5, M7, M10, M12

Materials of Construction	
Body:	Glass Reinforced Nylon 6.6
O-Ring:	Nitrile
Release Button:	Nylon
Gripping Ring:	Stainless Steel
D Seal:	Nitrile
Base:	Nickel plated brass with thread sealant on tapered components and captive seal on parallel threads.

Nomenclature	
Example: W369PLP-4M-2	Attribute:
W	White Thread Sealant
3	Composite Body
69	Male Elbow
PLP	Prestolok
4M	4 mm Tube O.D.
2	1/8" Pipe Thread

*3/16" Tubing only

- **W369PLP** Male Elbow – NPT, BSPT
- **W369PLPX** Extended Male Elbow – NPT, BSPT
- **W379PLP** 45° Male Elbow – NPT, BSPT
- **W372PLP** Male Branch Tee – NPT, BSPT
- **372PLP** Male Branch Tee – BSPP
- **W371PLP** Male Run Tee – NPT, BSPT
- **W368PLP** Male Y Connector – NPT, BSPT
- **W68LF** Male Connector – NPT, BSPT
- **68LFR** Male Connector – UNF, Straight
- **66LF** Female Connector – NPT, BSPP
- **377PLP** Female Branch Tee – NPT
- **370PLP** Female Elbow – NPT, BSPP
- **68LF** Male Connector – BSPP
- **369PLP** Male Elbow – BSPP
- **369PLPX** Extended Male Elbow – BSPP
- **379PLP** 45° Male Elbow – BSPP
- **371PLP** Male Run Tee – BSPP
- **368PLP** Male Y Connector – BSPP
- **W368PLPD** Double Y Male Connector – BSPT
- **W369PLPO** Oscillating Compact Elbow – NPT, BSPT
- **369PLPO** Oscillating Compact Elbow – BSPP
- **32PLP** Union
- **365PLP** Union Elbow
- **364PLP** Union Tee
- **362PLP** Union Y
- **362PLPD** Double Y
- **24PLP** Multiple Tee
- **24PLPD** Double Multiple Tee
- **347PLP** Cross
- **32PLPRC** Connector for 2 Tubes
- **32PLPDRC** Connecter for 3 Tubes
- **32PLPBH** Bulkhead Union
- **365PLPBH** Bulkhead Elbow
- **32PLPBHP** Plug-in Bulkhead Union
- **W68PLPSP** Male Standpipe – NPT
- **W68PLPSP** Male Standpipe – BSPT
- **68PLPSP** Male Standpipe – BSPP
- **369PLPSP** Plug-In Elbow
- **369PLPSPX** Extended Plug-In Elbow
- **379PLPSP** Plug-In 45° Male Elbow
- **372PLPSP** Plug-In Branch Tee
- **371PLPSP** Plug-In Run Tee
- **362PLPSP** Plug-In Y
- **362PLPDSP** Double Plug-In Y
- **37PLP** Tube Reducer
- **32PLPSP** Tube Expander
- **32PLPSP** Tube Converter
- **322PLPSP** Barbed Connector
- **369PLPBJ** Single Banjo – BSPP
- **369PLPBJB** Single Banjo Body
- **32PLPDJB** Double Banjo Body
- **369PLPTJB** Twin Banjo Body
- **68BJB** Single Banjo Bolt
- **68BJBD** Double Banjo Bolt
- **68BJBT** Triple Banjo Bolt
- **66BJB** Female Banjo Bolt
- **376PLPBJ** Banjo with Female Bolt
- **369PLPTJ** Twin Banjo
- **32PLPDJ** Double Banjo
- **W369PLPBJ** Single Banjo – NPT, BSPT
- **W369PLPTJ** Twin Banjo – NPT
- **63PLP** Double Male Union
- **639PLP** Plug
- **Clip**
- **AQRT** Release Tool
- **3151** End Cap
- **3110-3330** End Cap

PRESTOLOK PLP: METAL FITTINGS

Specifications	
Pressure Range:	Up to 300 PSI (20.6 bar)
Temperature Range:	0° to +200°F (-17.7° to +93.3°C)

Vacuum applications depend on temperature and type of tubing used.

Tubing Sizes	
Tube O.D.:	1/8, 3/16, 5/32, 1/4, 5/16, 3/8, 1/2
Thread Sizes	
UNF, NPT, BSPT, BSPP	10-32, 1/16, 1/8, 3/16, 5/32, 1/4, 5/16, 3/8, 1/2

Materials of Construction	
Body:	Nickel Plated Brass
O-Ring:	Nitrile (Other Compounds Available On Request)
Release Button:	Polyacetal
Grab Ring:	Stainless Steel

Nomenclature	
Example: W68PLP-4-2	Attribute:
W	White Acrylic Thread Sealant
68	Male Connector
PLP	Prestolok
4	1/4" Tube O.D.
2	1/8" Pipe Thread

- **66PLP** Female Connector – NPTF
- **66PLP** Female Connector – BSPP
- **W68PLP** Male Connector – NPTF
- **W68PLP** Male Connector – BSPT
- **68PLP** Male Connector – BSPP
- **68PLP** Male Connector – BSPP
- **68PLPR** Round Body Male Connector – NPTF
- **68PLPR** Round Body Male Connector – BSPP
- **W169PLP** Male Elbow Swivel 90° – NPTF
- **W169PLP** Male Elbow Swivel 90° – BSPT
- **W169PLPNS** Male Elbow 90° – NPTF
- **169PLP** Male Elbow Swivel 90° – BSPP
- **W171PLP** Male Run Tee Swivel – NPTF
- **W171PLP** Male Run Tee Swivel – BSPT
- **171PLP** Male Run Tee Swivel – BSPP
- **W172PLP** Male Branch Tee Swivel – NPTF
- **W172PLP** Male Branch Tee Swivel – BSPT
- **172PLP** Male Branch Tee Swivel – BSPP
- **164PLP** Union Tee – Inch
- **164PLP** Union Tee – Metric
- **165PLP** Union Elbow – Inch
- **165PLP** Union Elbow – Metric
- **362PW** Union Y (PVDF) – Inch
- **62PLP** Union – Inch
- **62PLP** Union – Metric
- **62PLP** Unequal Union – Inch
- **62PLP** Unequal Union – Metric
- **62PLPBH** Bulkhead Union – Inch
- **62PLPBH** Bulkhead Union – Metric
- **66PLPBH** Female Bulkhead – NPTF
- **66PLPBH** Female Bulkhead – BSPP
- **62PLPSP** Tube Converter – Inch
- **62PLPSP** Tube Expander – Metric
- **67PLP** Tube Converter – Inch
- **67PLP** Tube Reducer – Metric
- **139PLP** Plug – Metric
- **TPL** Plug (PVDF) – Inch
- **DB** Dust/Weld Spatter Boot
- **0139** Bi-Material Captive Sealing Washer BSPP

PRESTOLOK PLM: ALL METAL PUSH-TO-CONNECT FITTINGS

Specifications	
Pressure Range:	Up to 435 PSI (30 bar)
Temperature Range:	-13° to +302° F (-25° to +150° C)
Vacuum Rating:	28" HG
Tubing Sizes	
Tube O.D.:	5/32, 1/4, 3/8, 1/2
Tube O.D.(mm):	4, 6, 8, 10, 12, 14
Thread Sizes	
UNF, NPT, BSPT:	10-32, 1/8, 1/4, 3/8, 1/2
BSPP:	1/8, 1/4, 3/8, 1/2
Metric:	M5, M6, M8, M10

Materials of Construction	
Body:	High Phosphorus FDA Chemical Nickel-Plated Brass
O-Ring:	FKM (FPM), Fluoroelastomer
Backup Washer:	High Phosphorus FDA Chemical Nickel-Plated Brass
Collet:	High Phosphorus FDA Chemical Nickel-Plated Brass
Base:	High Phosphorus FDA Chemical Nickel-Plated Brass

Nomenclature	
Example: 169PLM-4-6	Attribute:
169	Male Elbow
PLM	Prestolok Nickel Plated
4	1/4 Tube Size
6	3/8 Thread Size

- **68PLM** Male Connector – NPT, BSPT
- **68PLM** Male Connector – BSPP
- **66PLM** Female Connector – BSPP
- **68PLMSP** Male Standpipe to BSPT
- **68PLMSP** Male Standpipe – to BSPP
- **169PLM** Male Elbow – NPT, BSPT
- **169PLM** Male Elbow – BSPP
- **169PLMX** Extended Male Elbow – BSPT
- **169PLMX** Extended Male Elbow – BSPP
- **171PLM** Male Run Tee – NPT, BSPT
- **171PLM** Male Run Tee – BSPP
- **172PLM** Male Branch Tee – NPT, BSPT
- **172PLM** Male Branch Tee – BSPP
- **62PLM** Union
- **165PLM** Union Elbow
- **164PLM** Union Tee
- **62PLMBH** Bulkhead Union
- **66PLMBH** Female Bulkhead
- **165PLMBH** Bulkhead Union
- **169PLMBJ** Single Banjo
- **67PLM** Tube Reducer
- **639PLM** Plug
- **PLMC** Cartridge
- **62PLMSP** Tube Expander
- **62PLMSP** Tube Converter
- **122PLMSP** Barbed Connector
- **63PLM** Double Male Union

PRESTOLOK PLS: STAINLESS STEEL PUSH-TO-CONNECT FITTINGS

Specifications	
Pressure Range:	Up To 435 psi (30 bar)
Temperature Range:	-13° To +302° F (-25° To +150° C)
Vacuum Rating:	28" Hg
Tubing Sizes	
Tube O.D.:	5/32, 3/16, 1/4, 3/8, 1/2
Tube O.D.(mm):	4, 6, 8, 10, 12
Thread Sizes	
UNF, NPT, BSPP:	10-32,1/8, 1/4, 3/8, 1/2
BSPP:	1/8, 1/4, 3/8, 1/2
Metric:	M5

Materials of Construction	
Body:	Stainless Steel 316L
O-Ring:	Fkm
Washer:	Stainless Steel 316L
Collet:	Stainless Steel 316L
Base:	Stainless Steel 316L

Nomenclature	
Example: 169PLS-4-2	Attribute:
169	Male Elbow
PLS	Prestolok Stainless
4	1/4" (4/16) Tube Size
2	1/8" (2/16) Thread Size

- **68PLS** Male Connector – NPT, BSPT
- **68PLS** Male Connector – BSPP
- **169PLS** Male Elbow – NPT, BSPT
- **169PLS** Male Elbow – BSPP
- **169PLSX** Extended Male Elbow – NPT, BSPT
- **169PLSX** Extended Male Elbow – BSPP
- **62PLS** Union
- **165PLS** Union Elbow
- **164PLS** Union Tee
- **62PLSBH** Bulkhead Union
- **68PLSSP** Male Standpipe – NPT, BSPT
- **68PLSSP** Male Standpipe – BSPP
- **67PLS** Tube Reducer
- **639PLS** Plug
- **PLSC** Cartridge

PNEUMATIC SLIDE VALVES

Specifications	
Pressure Range:	Up to 230 psi (15.8 bar)
Temperature Range:	15°F to +175°F (-9.4°C to +79.4°C)
Thread Sizes	
NPT	1/8, 1/4, 3/8, 1/2
BSPP	1/8, 1/4, 3/8, 1/2, 3/4
Metric	M5

Materials of Construction	
Body:	Nickel Plated Brass
Sleeve:	Anodized Aluminum
Seals:	Nitrile

Nomenclature	
Example: 0661 07 14	Attribute:
0661	Male to Female - NPT
07	1/4 Male
14	1/4 Female

- **0660** Female – NPT
- **0661** Male x Female – NPT
- **0669** Female – BSPP

QUICK EXHAUST VALVES

Specifications	
Pressure Range:	10 to 150 psi (0.6 to 10.3 bar)
Temperature Range:	0°F to +160°F (-17.7° to +71.1°C)
Thread Sizes	
NPT:	1/8, 1/4, 3/8, 1/2
BSPP:	1/8, 1/4, 3/8, 1/2, 3/4, 1
Metric:	M5

Materials of Construction	
Body:	Nickel Plated Brass
Seal:	Nylon
Piston:	Polyurethane
Body:	Nickel Plated Brass
Seal:	Nylon
Piston:	Polyurethane

Nomenclature	
Example: 7982 11 11	Attribute:
7892	Quick Exhaust Threaded Ports - NPT
11	1/4 NPT
11	1/4 Pipe Thread

- **7970** BSPP
- **7982** NPT

BLOCKING VALVES

Specifications	
Pressure Range:	15 to 145 psi (1 to 9.9 bar)
Temperature Range:	-4° to +160° F (-20° to +71.1° C)
Number Of Cycles:	>10 million at 68°F and 1 Hz
Leak Rate:	<3.2 ccm
Media:	Compressed Air
Tubing Sizes	
Tube O.D.	1/4, 3/8, 1/2
Tube O.D. (mm)	6, 8, 10, 12

Thread Sizes	
NPT & BSPT:	1/8, 1/4, 3/8, 1/2
BSPP:	1/8, 1/4, 3/8, 1/2
Materials of Construction	
Body:	Treated Brass
Gripping Ring:	Stainless Steel
Seals, Diaphragm:	Nitrile

Nomenclature	
Example: FC601-4-2	Attribute:
fc	Flow Control
6	Blocking
0	Brass Body
1	Tube x Pipe
4	1/4 Tube O.D.
2	1/8 Pipe Thread

- **FC601** Lock Out – BSPT, BSPP
- **FC602** Lock Out
- **FC608** Lock Out – BSPT, BSPP

MINIATURE BALL VALVES

Specifications	
Working Pressure:	Up to 145 psi (9.9 bar)
Temperature Range:	-4°F to +175°F (-20° to +79.4C)
Vacuum:	28" HG
Tubing Sizes	
Tube O.D.	5/32, 1/4, 5/16, 3/8
Tube O.D. (mm)	4, 6, 8, 10, 12
Thread Sizes	
NPT:	1/8, 1/4, 3/8
BSPP:	1/8, 1/4, 3/8

Materials of Construction	
Body:	Nylon
Stem:	Brass
Stem Seal:	NBR
O-Ring:	NBR
Handle:	Nylon
Gripping Ring:	Stainless Steel

Nomenclature	
Example: MVV308-4-2	Attribute:
MV	Mini Valve
V	Vented
308	Tube to Pipe Thread
4	1/4" Tube O.D.
2	1/8" Pipe Thread

- **MVV308** Male BSPP, Vented
- **MVV309** Push-to-Connect Ports
- **MV308** Male BSPP
- **MV309** Push-to-Connect Ports, Vented

COMPACT & SWIVEL OUTLET FLOW CONTROL VALVES

Specifications	
Pressure Range:	15 to 145 PSI (1 to 9.9 bar)
Temperature Range:	+32° to +158° F (0 to +70° C)
Media:	Compressed Air
Tubing Sizes	
Tube O.D.	1/8, 5/32, 1/4, 5/16, 3/8, 1/2
Tube O.D. (mm)	4, 6, 8, 10, 12
Thread Sizes	
UNF, NPT, BSPT	10-32,1/8, 1/4, 3/8, 1/2
BSPP	1/8, 1/4, 3/8, 1/2
Metric	M5

Materials of Construction	
Body (depending upon the model):	Glass Reinforced Nylon 6.6 / Brass
Gripping Ring:	Stainless Steel
Adjustment Screws:	Nickel-Plated Brass
Locking	Nickel-Plated Brass
Base:	Nickel-Plated Brass

Nomenclature	
Example: FCC731-4-2	Attribute:
FC	Flow Control
C	Compact
7	Right Angle
3	Nylon Body
1	Tube x Pipe
4	1/4 Tube O.D.
2	1/8 Pipe Thread

- **FCC731** Meter Out BSPT, BSPP
- **FCCI731** Meter In BSPT, BSPP
- **FCCB731** Bi-Directional BSPT, BSPP
- **FCKC731** Meter Out Knobless BSPP
- **FCKCI731** Meter In Knobless BSPP
- **FCKCB731** Bi-Directional Knobless BSPP
- **FCCS731** Meter Out
- **FCMS731** Meter Out Miniature BSPP
- **FCMSI731** Meter In Miniature BSPP
- **FCCS731** Meter Out BSPP

MINIATURE FLOW CONTROL VALVES

Specifications	
Pressure Range:	15 to 145 PSI (1 to 9.9 bar)
Temperature Range:	+32° to +158° F (0 to +70° C)
Media:	Compressed Air
Tubing Sizes	
Tube O.D.	1/8, 5/32, 1/4
Tube O.D. (mm)	3, 4, 6, 8
Thread Sizes	
UNF, NPT, BSPT:	10-32, 1/8, 1/4, 3/8
BSPP:	1/8, 1/4, 3/8
Metric:	M3, M5

Materials of Construction	
Body:	Glass Reinforced Nylon 6.6
Gripping Ring:	Stainless Steel
Adjustment Screws:	Nickel-plated Brass
Locking Nut:	Nickel-plated Brass
Base:	Nickel-plated Brass

Nomenclature	
Example: FCM731-4-2	Attribute:
FC	Flow Control
M	Miniature
7	Right Angle
3	Nylon Body
1	Tube x Pipe
4	1/4 Tube O.D.
2	1/8 Pipe Thread

- **FCM731** Meter Out – BSPT, BSPP
- **FCMI731** Meter In – BSPT, BSPP
- **FCMB731** Bi-Directional – BSPP
- **FCMK731** Meter Out – Knobless

PLUG-IN FLOW CONTROL VALVES

Specifications	
Pressure Range:	15 to 145 PSI (1 to 9.9 bar)
Temperature Range:	+32° to +158° F (0 to +70° C)
Media:	Compressed Air
Tubing Sizes	
Tube O.D.	1/8, 1/4
Tube O.D. (mm)	4, 6, 8, 12

Materials of Construction	
Body:	Glass Reinforced Nylon 6.6
Gripping Ring:	Stainless Steel
Adjustment Screws:	Nickel-plated Brass
Locking Nut:	Nickel-plated Brass
Tailpiece:	Nickel-plated Brass

Nomenclature	
Example: FCMSP731-4	Attribute:
FC	Flow Control
M	Miniature
sp	Plug-In
7	Right Angle
3	Nylon Body
1	Tube x Plug-In
4	Tube O.D.

- **FCMSP731** Meter Out – Miniature
- **FCMSPI731** Meter In – Miniature
- **FCMSPI731** Meter In – Miniature
- **FCCSP731** Meter Out – Compact
- **FCCSPI731** Meter In – Compact

IN-LINE FLOW CONTROL VALVES

Specifications	
Pressure Range:	15 to 145 PSI (1 to 9.9 bar)
Temperature Range:	+32° to +158° F (0 to +70° C)
Tubing Sizes	
Tube O.D.	1/4, 3/8, 1/2
Tube O.D. (MM)	4, 6, 8, 10, 12
Thread Sizes	
NPT:	1/8, 1/4, 3/8, 1/2
BSPP:	1/8, 1/4, 3/8

Materials of Construction	
Body:	Glass Reinforced Nylon 6.6
Gripping Ring:	Stainless Steel
Adjustment Screws:	Nickel-plated Brass
Locking Nut:	Nickel-plated Brass
Base:	Nickel-plated Brass

Nomenclature	
Example: FC832-4	Attribute:
FC	Flow Control
8	In-Line
3	Nylon Body
2	Tube x Tube
4	1/4 Tube O.D.

- **FC832** In-Line
- **FCB832** Bi-Directional
- **FCPM832** Panel Mountable
- **FC836** Threaded In-Line – BSPP

METAL FLOW CONTROL VALVES

Specifications	
Pressure Range:	15 to 145 PSI (1 to 9.9 bar)
Temperature Range:	-4° to +158° F (-20° to +70° C)
Media:	Compressed Air

Temperature rating is based upon filtered, dry compressed air.

Tubing Sizes	
Tube O.D.	5/32, 1/4, 3/8,
Tube O.D. (mm)	4, 6, 8, 10, 12, 14
Thread Sizes	
NPT, BSPT:	1/8, 1/4, 3/8, 1/2
BSPP:	1/8, 1/4, 3/8, 1/2

Materials of Construction	
Body:	Treated Brass
Gripping Ring:	Stainless Steel
Adjustment Screws:	Nickel-plated Brass
Locking Nut:	Nickel-plated Brass
Base:	Nickel-plated Brass

Nomenclature	
Example: FC701-4-2	Attribute:
FC	Flow Control
7	Right Angle
0	Brass Body
1	Tube x Pipe
4	1/4 Tube O.D.
2	1/8 Pipe Thread

- **FCK701C** Knobless Compression Metal – BSPP
- **FC701/FCI701** Meter Out/Meter In – BSPP
- **FC702/FCI702** Meter Out/Meter In – BSPP
- **FC705** Meter Out – NPT
- **FC708** Meter Out – NPT
- **FC703** Push-To-Connect Meter Out – NPT
- **FC703** Threaded Port Meter Out – NPT
- **FC703** Threaded Port Meter Out – BSPP

STAINLESS STEEL FLOW CONTROL VALVES

Specifications	
Pressure Range:	15 to 145 psi (1 to 9.9 bar)
Temperature Range:	+32° to +158° F (0 to +70° C)
Tubing Sizes	
Tube O.D.	5/32, 1/4, 3/8
Thread Sizes	
UNF, NPT:	10-32, 1/8, 1/4, 3/8, 1/2
BSPP:	1/8, 1/4, 3/8, 1/2
METRIC:	M5

Materials of Construction	
Body:	Stainless Steel 316L
Adjustment Screw:	Stainless Steel 316L
Gripping Ring:	Stainless Steel
seals:	FKM

Nomenclature	
Example: 7815 11 11	Attribute:
7815	Threaded Port Knobless Meter Out
11	1/8 Female NPT
11	1/8 Male NPT

- **7810** Meter Out – BSPP
- **7812** Bi-Directional – BSPP
- **7810, 7815** Meter Out – NPT
- **7812, 7817** Bi-Directional – NPT
- **7835** Meter Out – NPT

CHECK VALVES

Specifications		
Pressure Range:	15 to 145 PSI (1 to 9.9 bar)	
Cracking Pressure:	PLCK – 7 PSI (0.4 bar), VC – 1/3 PSI (0.02 bar)	
Temperature Range:	+34° to +150° F (+1.1° to 65.5° C)	
Media:	Compressed Air	
Tubing Sizes		
Tube O.D.	PLCK: 5/32, 1/4, 3/8	VC: 1/4, 5/16, 3/8
Tube O.D. (mm)	PLCK: 4, 6, 8, 10, 12	
Thread Sizes		
UNF, NPT, BSPT:	10-32, 1/8, 1/4, 5/16, 3/8	
BSPP:	1/8, 1/4, 3/8, 1/2	
Metric:	M5	

Materials of Construction	
Body:	32PLCK: Nylon/Nickel PlatedBrass 68PLCK: Nylon body with nickel-plated brass base VC: Acetal
Gripping Ring:	Stainless Steel
O-Ring:	Nitrile (32PLCK & 68PLCK) EPDM (VC)

Nomenclature	
Example: W68PLCK-4-2	Attribute:
W	White Thread Sealant
68	Tube x Pipe
PL	Prestolok
CK	Check Valve
4	1/4 Tube O.D.
2	1/8 Pipe Thread

- **32PLCK** In-Line
- **W68PLCK** Meter Out – BSPT
- **W68PLCKI** Meter In – BSPT
- **68PLCK** Meter Out – BSPP
- **68PLCKI** Meter In – BSPP
- **VC** Check Valve

STAINLESS STEEL CHECK VALVES

Specifications	
Pressure Range:	7 to 580 psi (.4 to 39.9 bar)
Cracking Pressure:	3.6 psi (.2 bar)
Temperature Range:	-4° to +356° F (-20° to +180° C)
Thread Sizes	
NPT:	1/8, 1/4, 3/8, 1/2
BSPP:	1/8, 1/4, 3/8, 1/2, 3/4, 1

Materials of Construction	
Body:	Stainless Steel 316L
Spring:	Stainless Steel 302
Poppet:	Stainless Steel 316L
Seals:	FKM

Nomenclature	
Example: 4890 17 17	Attribute:
4890	Unidirectional Female
17	3/8 Female BSPP
17	3/8 Female BSPP

- **4890** Unidirectional – BSPP
- **4895** Unidirectional – NPT
- **4891** Male x Female – BSPP
- **4892** Female x Male – BSPP

PILOT OPERATED CHECK VALVES

Specifications	
Pressure Range:	14 to 145 psi (0.9 to 9.9 bar)
Cracking Pressure:	4.3 psi (0.2 bar)
Temperature Range:	+23° to +140° F (-5° to 60° C)
Tubing Sizes	
Tube O.D. (mm)	6, 8, 10, 12
Thread Sizes	
BSPP:	1/8, 1/4, 3/8, 1/2

Materials of Construction	
Body:	Nickel Plated brass
Regulator Body:	Polymer
Gripping Ring:	Stainless Steel
Seals:	NBR

Nomenclature	
Example: 7892 06 13	Attribute:
7892	Piloted Non-Return Valve
06	6MM Tube
13	1/4 Male BSPP

- **7892** BSPP
- **7894** Regulator & Exhaust – BSPP

Threaded Connections

National Pipe Thread

Nominal Thread Size	Threads Per Inch	Max. Torque (inch pounds)	Handtight Engagement	Thread O.D. at Small End
10-32UNF	32	13	Seals Flush	0.187" (4.75mm)
1/16	27	—	0.28" (7.1mm)	0.271" (6.8mm)
1/8	27	70	0.37" (9.4mm)	0.363" (9.2mm)
1/4	18	100	0.49" (12.4mm)	0.477" (12.1mm)
3/8	18	250	0.627" (15.9mm)	0.612" (15.5mm)
1/2	14	308	0.778" (19.7mm)	0.758" (19.2mm)

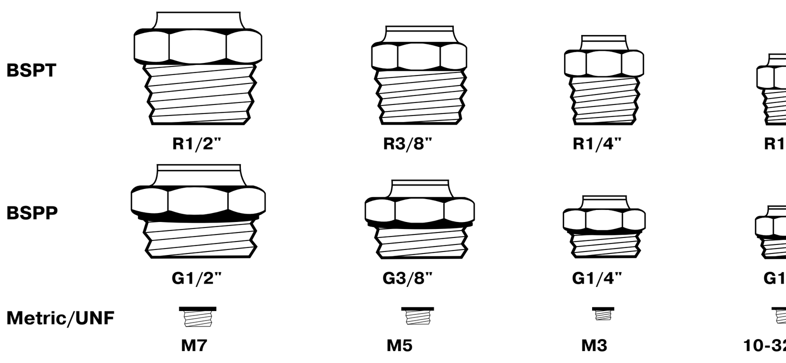
British Standard Pipe

Nominal Thread Size	Threads Per Inch	Male Parallel Thread O.D.	Female Parallel Thread I.D.
1/8	28	0.375" (9.5mm)	0.344" (8.7mm)
1/4	19	0.531" (13.5mm)	0.438" (11.1mm)
3/8	19	0.656" (16.7mm)	0.534" (13.6mm)
1/2	14	0.813" (20.6mm)	0.719" (18.3mm)

METRIC Thread

Metric Thread Size	Male Thread O.D. (mm)	Metric Thread Size	Male Thread O.D. (mm)	Metric Thread Size	Male Thread O.D. (mm)
M3 x 0.5	3	M13 x 1.25	13	M26 x 1.50	26
M5 x 0.75	5	M14 x 1	14	M27 x 1.50	27
M6 x 0.75	6	M14 x 1.25	14	M27 x 2	27
M6 x 1	6	M14 x 1.50	14	M30 x 1.50	30
M7 x 0.75	7	M15 x 1.25	15	M30 x 2	30
M7 x 1	7	M15 x 1.50	15	M33 x 1.50	33
M8 x 1	8	M16 x 1.25	16	M33 x 2	33
M8 x 1.50	8	M16 x 1.50	16	M24 x 2	24
M9 x 0.75	9	M17 x 1.25	17	M36 x 2	36
M9 x 1	9	M18 x 1.25	18	M39 x 2	39
M10 x 1	10	M18 x 1.50	18	M52 x 2	52
M10 x 1.25	10	M20 x 1.50	20	M42 x 2	42
M10 x 1.50	10	M21 x 1.50	21	M45 x 2	45
M11 x 1	11	M22 x 1.50	22	M48 x 2	48
M12 x 1	12	M23 x 1.50	23	M52 x 2.50	52
M12 x 1.25	12	M24 x 1.50	24		
M12 x 1.50	12	M25 x 1.50	25		

Threaded Profiles



When looking at a Parker fitting or adapter, an NPTF fitting will have machined notches on the hex. BSPT fittings will not have the machined notches. This applies to all threaded fittings, adapters, and right angle flow control valves.

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