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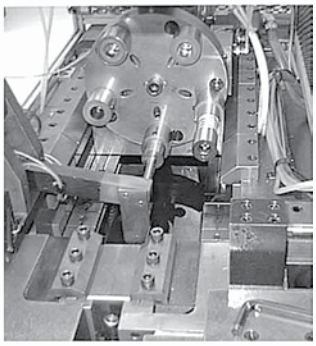
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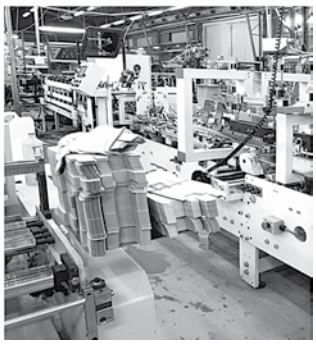
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Richland, Michigan
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Accessories

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Accessories

Ball Valves / Plug Valves



- Forged brass, general purpose, industrial ball valves
- Stainless steel, general purpose, industrial ball valves
- One piece extruded brass body plug valves

G3

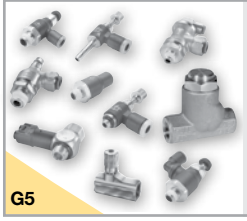
Hose & Fittings



- 801 General purpose hose
- Push-on hose barb fittings

G4

Integrated Fittings



- Flow control regulators
- Inline check valves
- Blocking valves
- Threshold sensors

G5

Accessories – continued

Miscellaneous Accessories



- Tank valves & air chucks
- Mufflers & silencers
- Relief valves
- Quick exhaust / shuttle valves
- Pressure switches
- Blow guns
- Ports from M5 through 3/4 inch

G10

Quick Couplings



- SensoControl® (Product Highlight Only)
- Industrial interchange nipples –1/4" to 3/4" body size
- Sleevematic couplers –1/4" to 1/2" body size
- Saflomatic couplers –1/4" to 3/4" body size
- Economatic quick connect couplings –1/4" body size

G14

Tubing & Fittings



- Polyethylene tubing
- Nylon tubing
- Polyurethane tubing
- Push-to-connect, Prestolok composite fittings
- Push-to-connect, Prestolok metal fittings
- Pipe fittings

G18

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Female-Female Pipe Ends XV500P



Pipe thread	Flow dia.	Part number
1/4	.375	**XV500P-4**
3/8	.375	**XV500P-6**
1/2*	.500	**XV500P-8**
3/4**	.685	**XV500P-12**
1**	.875	**XV500P-16**

Female Pipe Ends, Lever Handle, Mini Ball Valve MV200



Pipe thread	Flow dia.	Part number
1/8	.31	**MV200-2**
1/4	.31	**MV200-4**
3/8	.31	**MV200-6**
1/2	.39	**MV200-8**

Male-Female Pipe Ends, Compact Handle, Mini Ball Valve MV608



Pipe thread	Flow dia.	Part number
1/8	.20	**MV608-2**
1/4	.31	**MV608-4**
3/8	.31	**MV608-6**
1/2	.39	**MV608-8**

Female Pipe Ends, Compact Handle, Mini Ball Valve MV609



Pipe thread	Flow dia.	Part number
1/8	.24	**MV609-2**
1/4	.31	**MV609-4**
3/8	.31	**MV609-6**
1/2	.39	**MV609-8**
3/8x1/4	.31	**MV609-6-4**

Female Pipe Ends, Panel Mount XV502SS



Pipe thread	Flow dia.	Part number
1/4	.380	**XV502SS-4**
3/8	.380	**XV502SS-6**
1/2	.500	**XV502SS-8**
3/4	.790	**XV502SS-12**
1	1.000	**XV502SS-16**
1-1/4	1.250	**XV502SS-20**
1-1/2	1.500	**XV502SS-24**
2	2.000	**XV502SS-32**

Male Pipe to Male Pipe Plug Valve PV607



Pipe thread	Flow dia.	Part number
1/8	.200	**PV607-2**
1/4	.200	**PV607-4**

Female Pipe to Male Pipe Plug Valve PV608



Pipe thread	Flow dia.	Part number
1/8	.200	**PV608-2**
1/4	.200	**PV608-4**

Female Pipe to Female Pipe Plug Valve PV609



Pipe thread	Flow dia.	Part number
1/8	.200	**PV609-2**
1/4	.200	**PV609-4**

Internal Seal Drain Cock DC602

Temperature Range: -65° to 250°F



Pipe thread	Part number
1/8	**DC602-2**
1/4	**DC602-4**

External Seal Drain Cock DC604

Temperature Range: -25° to 250°F



Pipe thread	Part number
1/8	**DC604-2***
1/4	**DC604-4**
3/8	**DC604-6***

* When assembled handle wings are down facing

☐ Most popular.

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Hose & Fittings

801 Push-Lok Plus General Purpose Hose



Hose I.D. Inch	Hose O.D. Inch	Reel length	General part number*	Continuous part number
1/4	0.50	600 feet	**801-4-***-RL**	**801-4-***-7200**
3/8	0.63	450 feet	**801-6-***-RL**	**801-6-***-5400**
1/2	0.78	300 feet	**801-8-***-RL**	**801-8-***-3600**
5/8	0.91	250 feet	**801-10-***-RL**	**801-10-***-3000**
3/4	1.03	200 feet	**801-12-***-RL**	**801-12-***-2400**
1	1.28	200 feet	**801-16-***-RL**	**801-16-***-2400**

*** Available Colors**
GRA = gray
BLU = blue
RED = red
GRN = green
YEL = yellow
BLK = black

* General reels have no more than 3 lengths per reel, each no less than 20 feet.

30182 Push-on Hose Barb to Male Pipe



Thread (in)	Hose size (in)	Part number
1/8 x 27	1/4	**30182-2-4B**
1/4 x 18	1/4	**30182-4-4B**
1/4 x 18	3/8	**30182-4-6B**
3/8 x 18	3/8	**30182-6-6B**
1/2 x 14	3/8	**30182-8-6B**
3/8 x 18	1/2	**30182-6-8B**
1/2 x 14	1/2	**30182-8-8B**
1/2 x 14	5/8	**30182-8-10B**
3/4 x 14	1/2	**30182-12-8B**
3/4 x 14	3/4	**30182-12-12B**

30282 Push-on Hose Barb to Female Pipe



Thread (in)	Hose lize (in)	Part number
1/4 x 18	1/4	**30282-4-4B**
3/8 x 18	3/8	**30282-6-6B**
1/2 x 14	1/2	**30282-8-8B**

31382 Push-on Hose Barb to Male Pipe Swivel



Thread (in)	Hose size (in)	Part number
1/4 x 18	1/4	**31382-4-4**
3/8 x 18	3/8	**31382-6-6**
1/2 x 14	1/2	**31382-8-8***

* Steel

38282 Push-on Hose Barb Union



Hose size (in)	Part number
1/4	**38282-4-4B**
3/8	**38282-6-6B**
1/2	**38282-8-8B**

☐ Most popular.

30482 Push-on Hose Barb to Male SAE 45°



Thread (in)	Hose size (in)	Part number
7/16 x 20	1/4	**30482-4-4B**
1/2 x 20	1/4	**30482-5-4B**
5/8 x 18	3/8	**30482-6-6B**
3/4 x 16	1/2	**30482-8-8B**

30682 Push-on Hose Barb to Female SAE JIC 37° Swivel



Thread (in)	Hose size (in)	Part number
7/16 x 20	1/4	**30682-4-4B**
1/2 x 12	1/4	**30682-5-4B**
9/16 x 18	1/4	**30682-6-6B**
3/4 x 16	3/8	**30682-8-6B***
3/4 x 16	1/2	**30682-8-8B**
7/8 x 14	1/2	**30682-10-8B***
7/8 x 14	5/8	**30682-10-10B**
1-1/16 x 12	3/4	**30682-12-12B**

* 30682-8-6B & 30682-10-8B are dual 37/45 degree.

30882 Push-on Hose Barb to Female SAE 45° Swivel



Thread (in)	Hose lize (in)	Part number
7/16 x 20	1/4	**30882-4-4B**
1/2 x 20	1/4	**30882-5-4B**
5/8 x 18	3/8	**30882-6-6B**
3/4 x 16	3/8	**30682-8-6B***
3/4 x 16	1/2	**30882-8-8B**
7/8 x 14	1/2	**30682-10-8B***
7/8 x 14	5/8	**30882-10-8B**
1-1/16 x 14	3/4	**30882-12-12B**

* 30682-8-6B & 30682-10-8B are dual 37/45 degree.

37G82 Push-on Hose Barb to Female Pipe (NPSM) Swivel with Gasket



Thread (in)	Hose size (in)	Gasket	Part number
1/4- 18	1/4	07G-4	**37G82-4-4**
1/4- 18	3/8	07G-4	**37G82-4-6**
3/8- 18	3/8	07G-6	**37G82-6-6**
1/2- 14	1/2	07G-8	**37G82-8-8**
1/2- 14	5/8	07G-8	**37G82-8-10**
3/4- 14	3/4	07G-12	**37G82-12-12**

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FCC731 Compact Meter Out



Tube size (in)	NPT	Part number
5/32	1/8	**FCC731-5/32-2**
5/32	1/4	**FCC731-5/32-4**
1/4	1/8	**FCC731-4-2**
1/4	1/4	**FCC731-4-4**
3/8	1/4	**FCC731-6-4**
3/8	3/8	**FCC731-6-6**

FCC731 Compact Meter Out - BSPP



Tube size (mm)	BSPP	Part number
4	1/8	**FCC731-4M-2G**
6	1/8	**FCC731-6M-2G**
6	1/4	**FCC731-6M-4G**
8	1/8	**FCC731-8M-2G**
8	1/4	**FCC731-8M-4G**
8	3/8	**FCC731-8M-6G**
10	1/4	**FCC731-10M-4G**
10	3/8	**FCC731-10M-6G**
12	3/8	**FCC731-12M-6G**
12	1/2	**FCC731-12M-8G**

FCCB731 Compact Bi-Directional Flow Control



Tube size (in)	NPT	Part number
5/32	1/8	**FCCB731-5/32-2**
1/4	1/8	**FCCB731-4-2**
1/4	1/4	**FCCB731-4-4**

FCCB731 Compact Bi-directional Flow Control - BSPP



Tube size (mm)	BSPP	Part number
4	1/8	**FCCB731-4M-2G**
6	1/8	**FCCB731-6M-2G**
6	1/4	**FCCB731-6M-4G**
8	1/8	**FCCB731-8M-2G**
8	1/4	**FCCB731-8M-4G**
8	3/8	**FCCB731-8M-6G**

FCKC731 Knobless Meter Out Flow Control



Tube size (in)	NPT / UNF	Part number
1/8	10-32	**FCKC731-2-0**
1/8	1/8	**FCKC731-2-2**
5/32	10-32	**FCKC731-5/32-0**
5/32	1/8	**FCKC731-5/32-2**
1/4	10-32	**FCKC731-4-0**
1/4	1/8	**FCKC731-4-2**
1/4	1/4	**FCKC731-4-4**
5/16	1/8	**FCKC731-5-2**
5/16	1/4	**FCKC731-5-4**
3/8	1/4	**FCKC731-6-4**
3/8	3/8	**FCKC731-6-6**

FCKC731 Knobless Compact Flow Control - BSPP



Tube size (mm)	BSPP	Part number
4	M5x0.8	**FCKC731-4M-M5**
4	1/8	**FCKC731-4M-2G**
6	M5x0.8	**FCKC731-6M-M5**
6	1/8	**FCKC731-6M-2G**
6	1/4	**FCKC731-6M-4G**
8	1/8	**FCKC731-8M-2G**
8	1/4	**FCKC731-8M-4G**
8	3/8	**FCKC731-8M-6G**
10	1/4	**FCKC731-10M-4G**
10	3/8	**FCKC731-10M-6G**
10	1/2	**FCKC731-10M-8G**
12	3/8	**FCKC731-12M-6G**
12	1/2	**FCKC731-12M-8G**

FCKCB731 Knobless Bi-directional Flow Control - BSPP



Tube size (mm)	BSPP / M5	Part number
4	M5x0.8	**FCKCB731-4M-M5**
4	1/8	**FCKCB731-4M-2G**
6	M5x0.8	**FCKCB731-6M-M5**
6	1/8	**FCKCB731-6M-2G**
6	1/4	**FCKCB731-6M-4G**
8	1/8	**FCKCB731-8M-2G**
8	1/4	**FCKCB731-8M-4G**
8	3/8	**FCKCB731-8M-6G**

FCM731 Miniature Meter Out Flow Control



Tube size (in)	NPT	Part number
1/8	10-32	**FCM731-2-0**
1/8	1/8	**FCM731-2-2**
5/32	10-32	**FCM731-5/32-0**
5/32	1/8	**FCM731-5/32-2**
1/4	10-32	**FCM731-4-0**
1/4	1/8	**FCM731-4-2**
1/4	1/4	**FCM731-4-4**

FCM731 Miniature Flow Control - BSPP



Tube size (mm)	BSPP	Part number
3	M3x0.5	**FCM731-3M-M3**
3	M5x0.8	**FCM731-3M-M5**
4	M3x0.5	**FCM731-4M-M3**
4	M5x0.8	**FCM731-4M-M5**
4	1/8	**FCM731-4M-2G**
6	M5x0.8	**FCM731-6M-M5**
6	1/8	**FCM731-6M-2G**
6	1/4	**FCM731-6M-4G**
8	1/8	**FCM731-8M-2G**
8	1/4	**FCM731-8M-4G**
8	3/8	**FCM731-8M-6G**

Most popular.

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FCMB731 Miniature Bi-directional Flow Control - BSPP



Tube size (mm)	BSPP	Part number
4	M5x0.8	**FCMB731-4M-M5**
4	1/8	**FCMB731-4M-2G**
6	M5x0.8	**FCMB731-6M-M5**
6	1/8	**FCMB731-6M-2G**
6	1/4	**FCMB731-6M-4G**

FCMK731 Knobless Mini Meter Out Flow Control



Tube size (in)	NPT	Part number
1/8	10-32	**FCMK731-2-0**
1/8	1/8	**FCMK731-2-2**
5/32	10-32	**FCMK731-5/32-0**
5/32	1/8	**FCMK731-5/32-2**
1/4	10-32	**FCMK731-4-0**
1/4	1/8	**FCMK731-4-2**
1/4	1/4	**FCMK731-4-4**

FCCS731 Compact Swivel Outlet Flow Control



Tube size (in)	NPT	Part number
1/4	1/8	**FCCS731-4-2**
1/4	1/4	**FCCS731-4-4**
3/8	1/4	**FCCS731-6-4**
3/8	3/8	**FCCS731-6-6**

FCMS731 Mini Swivel Outlet Flow Control



Tube size (in)	NPT	Part number
5/32	10-32	**FCMS731-5/32-0**
5/32	1/8	**FCMS731-5/32-2**

FCMS731 Miniature Swivel Outlet - BSPP



Tube size (mm)	NPT	Part number
4	M5x0.8	**FCMS731-4M-M5**
4	1/8	**FCMS731-4M-2G**
6	M5x0.8	**FCMS731-6M-M5**
6	1/8	**FCMS731-6M-2G**

FCCS731 Compact Swivel Outlet - BSPP



Tube size (mm)	BSPP	Part number
6	1/8	**FCCS731-6M-2G**
6	1/4	**FCCS731-6M-4G**
8	1/8	**FCCS731-8M-2G**
8	1/4	**FCCS731-8M-4G**
10	3/8	**FCCS731-8M-6G**
10	1/4	**FCCS731-10M-4G**
10	3/8	**FCCS731-10M-6G**
12	3/8	**FCCS731-12M-6G**
12	1/2	**FCCS731-12M-8G**

☐ Most popular.

FCMSP731 Plug-In Mini Flow Control



Tube size (in)	Part number
1/8	**FCMSP731-2**
5/32	**FCMSP731-5/32**
1/4	**FCMSP731-4**

FCMSP701 Plug-In Miniature Flow Control



Tube size (mm)	Part number
4	**FCMSP701-4M**
6	**FCMSP701-6M**

FCCSP731 Plug-In Compact Flow Control



Tube size (mm)	Part number
6	**FCCSP731-6M**
8	**FCCSP731-8M**
10	**FCCSP731-10M**
12	**FCCSP731-12M**

FC832 In-Line Flow Control



Tube size (in)	Part number
5/32	**FC832-5/32**
1/4	**FC832-4**
5/16	**FC832-5**
3/8	**FC832-6**
1/2	**FC832-8**

FC832 In-Line Flow Control



Tube size (mm)	Part number
4	**FC832-4M**
6	**FC832-6M**
8	**FC832-8M**
10	**FC832-10M**
12	**FC832-12M**

FCB832 In-Line Bi-directional Flow Control



Tube size (in)	Part number
5/32	**FCB832-5/32**
1/4	**FCB832-4**
5/16	**FCB832-5**

FCB832 In-Line Bi-directional Flow Control



Tube size (mm)	Part number
4	**FCB832-4M**
6	**FCB832-6M**
8	**FCB832-8M**

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FCPM832 In-Line Panel Mountable Flow Control



Tube size (mm)	Part number
4	**FCPM832-4M**
6	**FCPM832-6M**
8	**FCPM832-8M**
10	**FCPM832-10M**
12	**FCPM832-12M**

FC836 Threaded In-Line Flow Control



Port size (in)	Part number
1/8	**FC836-2**
1/4	**FC836-4**
3/8	**FC836-6**
1/2	**FC836-8**

FC836 Threaded In-Line Flow Control - BSPP



Port size BSPP	Part number
1/8	**FC836-2G**
1/4	**FC836-4G**
3/8	**FC836-6G**
1/2	**FC836-8G**

337 Micrometer Flow Control Valves



Port size (in)	Part number.
1/8	**00337 1000**
1/4	**00337 1001**
3/8	**00337 1002**
1/2	**00337 1003**
3/4	**00337 1004**

337 Micrometer Flow Control Valves - BSPP



Port size (in)	Part number
1/8	**00337G1000**
1/4	**00337G1001**

338 Bi-directional Flow Control Valves



Port size (in)	Part number
1/8	**00338 1100**
1/4	**00338 1101**
3/8	**00338 1102**
1/2	**00338 1103**
3/4	**00338 1104**

338 Bi-directional Flow Control Valves - BSPP



Port size (in)	Part number
1/8	**00338G1100**
1/4	**00338G1101**

3250 Flow Control Valves



Port size (in)	Part number
1/8	**03250 0119**
1/4	**03250 0219**
3/8	**03250 0319**
1/2	**03250 0419**
3/4	**03250 0519**

3250 Flow Control Valves - BSPP



Port size (in)	Part number
1/8	**3250G0119**
1/4	**3250G0219**
3/8	**3250G0319**
1/2	**3250G0419**
3/4	**3250G0519**

3250 Flow Control Valves



Port size (in)	Part number
1	**3250 1000**
1-1/4	**3250 1250**
1-1/2	**3250 1500**

3250 Flow Control Valves - BSPP



Port size (in)	Part number
1	**3250G1000**
1-1/4	**3250G1250**
1-1/2	**3250G1500**

Most popular.

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3251 Series Flow Control Valves



Thread (NPT) Male	Thread (NPT) Female	Right angle flow control valves
1/8	1/8	**03251 0125**
1/4	1/4	**03251 0250**
3/8	3/8	**03251 0375**
1/2	1/2	**03251 0500**



		With Prestolok fittings
1/8	5/32	**03251 1215**
1/8	1/4	**03251 1225**
1/4	1/4	**03251 2525**
1/4	3/8	**03251 2538**
3/8	3/8	**03251 3838**

CAUTION: If it is possible that the ambient temperature may fall below freezing, the medium must be moisture-free to prevent internal damage or unpredictable behavior.

FC705 Push-to-Connect Metal Flow Control



Tube size (in)	NPT	Part number
5/32	1/8	**FC705-5/32-2**
1/4	1/8	**FC705-4-2**
1/4	1/4	**FC705-4-4**
3/8	1/4	**FC705-6-4**
3/8	3/8	**FC705-6-6**

FC701 Push-to-Connect Metal Flow Control - BSPP



Tube Size (mm)	BSPP	Part number
4	1/8	**FC701-4M-2G**
6	1/8	**FC701-6M-2G**
6	1/4	**FC701-6M-4G**
8	1/8	**FC701-8M-2G**
8	1/4	**FC701-8M-4G**
8	3/8	**FC701-8M-6G**
10	1/4	**FC701-10M-4G**
10	3/8	**FC701-10M-6G**
12	3/8	**FC701-12M-6G**
12	1/2	**FC701-12M-8G**
14	1/2	**FC701-14M-8G**

FC708 Threaded Port Meter Out Flow Control



Port size (in)	Part number
1/8	**FC708-2**
1/4	**FC708-4**
3/8	**FC708-6**
1/2	**FC708-8**

Most popular.

FC702 Threaded Port Metal Flow Control - BSPP



Port size BSPP	Part number
1/8	**FC702-2G**
1/4	**FC702-4G**
3/8	**FC702-6G**
1/2	**FC702-8G**

32PLCK In-Line Check Valve



Tube size (in)	Part number
5/32	**32PLCK-5/32**
1/4	**32PLCK-4**
5/16	**32PLCK-5**
3/8	**32PLCK-6**

32PLCK In-Line Check Valve



Tube size (mm)	Part number
4	**32PLCK-4M**
6	**32PLCK-6M**
8	**32PLCK-8M**
10	**32PLCK-10M**
12	**32PLCK-12M**

W68PLCK Male Check Valve



Tube size (in)	NPT / UNF	Part number
5/32	10-32	**68PLCK-5/32-0**
5/32	1/8	**W68PLCK-5/32-2**
1/4	1/8	**W68PLCK-4-2**
1/4	1/4	**W68PLCK-4-4**
3/8	1/4	**W68PLCK-6-4**
3/8	3/8	**W68PLCK-6-6**

W68PLCKI Male Check Valve - Meter In



Tube size (in)	NPT / UNF	Part number
5/32	10-32	**68PLCKI-5/32-0**
5/32	1/8	**W68PLCKI-5/32-2**
1/4	1/8	**W68PLCKI-4-2**
1/4	1/4	**W68PLCKI-4-4**
3/8	1/4	**W68PLCKI-6-4**
3/8	3/8	**W68PLCKI-6-6**

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68PLCK Male Check Valve Meter Out - BSPP



Tube size (mm)	BSPP	Part number
4	M5x0.8	**68PLCK-4M-M5**
4	1/8	**68PLCK-4M-2G**
6	1/8	**68PLCK-6M-2G**
6	1/4	**68PLCK-6M-4G**
8	1/8	**68PLCK-8M-2G**
8	1/4	**68PLCK-8M-4G**

68PLCKI Male Check Valve Meter In - BSPP



Tube size (mm)	BSPP	Part number
4	M5x0.8	**68PLCKI-4M-M5**
6	1/8	**68PLCKI-6M-2G**
8	1/8	**68PLCKI-8M-2G**
8	1/4	**68PLCKI-8M-4G**
10	3/8	**68PLCKI-10M-6G**
12	3/8	**68PLCKI-12M-6G**
12	1/2	**68PLCKI-12M-8G**

VC – Check Valve



Tube size (in)	O.D.	Part number
1/4	.66	**A4VC4-MG**
5/16	.70	**A5VC5-MG**
3/8	.80	**A6VC6-MG**

339 Check Valve



Port size	Part number
1/8"	**00339 3000**
1/4"	**00339 3001**
3/8"	**00339 3002**
1/2"	**00339 3003**
3/4"	**00339 3004**

339 Check Valve - BSPP



Port size	Part number
1/8"	**00339G3000**
1/4"	**00339G3001**

3047 Check Valve



Pipe thread	Part number
1/4"	**03047 0099**

FC601 Push-to-Connect Lock Out Valves



Tube size (in)	NPT	Part number
1/4	1/8	**FC601-4-2**
1/4	1/4	**FC601-4-4**
3/8	3/8	**FC601-6-6**
1/2	1/2	**FC601-8-8**

FC601 Push-to-Connect Lock-Out Valve - BSPP



Tube size (mm)	BSPP	Part number
6	1/8	**FC601-6M-2G**
6	1/4	**FC601-6M-4G**
8	1/4	**FC601-8M-4G**
8	3/8	**FC601-8M-6G**
10	3/8	**FC601-10M-6G**
12	1/2	**FC601-12M-8G**

FC602 Threaded Port Lock Out Valves



NPT 1	NPT 2	Part number
1/4	1/8	**FC602-2**
1/4	1/4	**FC602-4**
3/8	3/8	**FC602-6**
1/2	1/2	**FC602-8**

FC608 Threaded Port Lock-Out Valve - BSPP



BSPP 1	BSPP 2	Part number
1/8	1/4	**FC608-4G-2G**
1/4	1/4	**FC608-4G-4G**
3/8	3/8	**FC608-6G-6G**
1/2	1/2	**FC608-8G-8G**

PSBJ731 Pneumatic Threshold Sensor - 5/32 Pilot



NPT / UNF	Part number
10-32	**PSBJ731-0**
1/8	**PSBJ731-2**
1/4	**PSBJ731-4**
3/8	**PSBJ731-6**
1/2	**PSBJ731-8**

PSBJ731 Pneumatic Threshold Sensor - 4mm Pilot



BSPP	Part number
M5x0.8	**PSBJ731-M5**
1/8	**PSBJ731-2G**
1/4	**PSBJ731-4G**
3/8	**PSBJ731-6G**
1/2	**PSBJ731-8G**

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PSPJ731 Pneumatic Threshold Sensor - 10-32 Pilot



NPT	Part number
1/8	**PSPJ731-2**
1/4	**PSPJ731-4**
3/8	**PSPJ731-6**

PSBJ708 Pneumatic Threshold Sensor - M5 Pilot



BSPP	Part number
1/8	**PSBJ708-2G**
1/4	**PSBJ708-4G**

PSPE731 Pneumatic / Electric Threshold Sensor - BSPP



BSPP	Part number
M5x0.8	**PSPE731-M5**
1/8	**PSPE731-2G**
1/4	**PSPE731-4G**
3/8	**PSPE731-6G**
1/2	**PSPE731-8G**

Tank Valves & Air Chucks

09166 0060
1/8" pipe thread, dome shaped cap



Thread size	Part number
1/8	**09166 0060**

00645 0060
1/8" pipe thread at bottom, screwdriver type cap



Thread size	Part number
1/8	**00645 0060**

01468 0006
1/8" pipe thread part way up the stem, screwdriver type cap



Thread size	Part number
1/8	**01468 0006**

05499 0000
1/4" female port, ball-foot air chuck



Thread size	Part number
1/4	**05499 0000**

06739 0000
1/4" port, ball-foot air chuck with clip



Thread size	Part number
1/4	**06739 0000**

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Mufflers / Silencers

EM Sintered Bronze Muffler / Filters



Thread size	Part number
M5	**EMM5**
1/8	**EM12**
1/4	**EM25**
3/8	**EM37**
1/2	**EM50**
3/4	**EM75**
1	**EM100**
1-1/4	**EM125**
1-1/2	**EM150**

Muffler / Flow Controls



Thread size	Part number
1/8	**04502 0002**
1/4	**04504 0004**
3/8	**04506 0060**
1/2	**04508 0080**
3/4	**04512 0012**
1	**04516 0016**

Breather Vents



NOTE: Breather vents should not be used as exhaust mufflers.

Thread size	Part number
1/8	**04702 0002**
1/4	**04704 0004**
3/8	**04706 0006**
1/2	**04708 0008**
3/4	**04712 0012**
1	**04716 0016**
1-1/4	**04720 0020**
1-1/2	**04724 0024**

ES Silencer



Thread size	Part number
1/8	**ES12MC**
1/4	**ES25MC**
3/8	**ES37MC**
1/2	**ES50MC**
3/4	**ES75MC**
1	**ES100MC**
1-1/4	**ES125MC**
1-1/2	**ES150MC**

ASN Air Line Silencer, Plastic



Thread size	Part number
M5	**AS-5**
1/8	**ASN-6**
1/4	**ASN-8**
3/8	**ASN-10**
1/2	**ASN-15**

P6M G Thread, Air Line Silencer, Plastic



Thread size	Part number
M5	**P6M-PAC5**
G1/8	**P6M-PAB1**
G1/4	**P6M-PAB2**
G3/8	**P6M-PAB3**
G1/2	**P6M-PAB4**
G3/4	**P6M-PAB6**
G1	**P6M-PAB8**

ECS Reclassifier, Air Line Muffler



Thread size	Part number
1/2	**ECS3**
1	**ECS5**

Stainless Steel Mufflers



Pipe size	Part number NPT
1/4	**5500A2004**
1/2	**5500A4004**
1	**5500A6004**
2	**5500A9004 ****

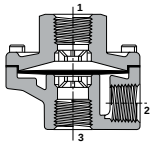
** Nickel Plated

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0R Quick Exhaust





Port 1	Port 2	Port 3	Flow (SCFM)	Part number with panel nut
Standard version				
1/4	1/4	3/8	150	**0R25NB**
1/4	3/8	3/8	240	**0R25PB**
3/8	3/8	3/8	240	**0R37B**
1/2	1/2	1/2	450	**0R50B**
3/4	3/4	3/4	550	**0R75B**
Nitrile diaphragms				
1/8	1/8	1/8	70	**0R12B**
1/8	1/8	1/4	70	**0R12NB**
1/4	1/4	1/4	90	**0R25B**
1/4	1/4	3/8	90	**0R25NFB**
3/8	3/8	3/8	240	**0R37FB**
3/4	3/4	3/4	550	**0R75FB**
Fluorocarbon diaphragms				
1/8	1/8	1/8	70	**0R12VB**
1/8	1/8	1/4	70	**0R12NVB**
1/4	1/4	1/4	90	**0R25VB**
3/8	3/8	3/8	240	**0R37VB**
1/2	1/2	1/2	450	**0R50VB**
3/4	3/4	3/4	550	**0R75VB**
PTFE diaphragms				
3/8	3/8	3/8	240	**0R37TB**

N164 Shuttle Valve



Thread size	Part number
1/8	**N164 1001**
1/4	**N164 2003**
3/8	**N164 3003**

RV Relief Valve



Pressure (PSI)	Part number
***	**RV01AN*** **

*** 010 through 200 psi

130 Relief Valve



Spring range	Part number no panel nut	Part number with panel nut
0-15 PSIG	**130-02AA**	**130-02AAP**
0-25 PSIG	**130-02A**	**130-02AP**
0-50 PSIG	**130-02B**	**130-02BP**
0-100 PSIG	**130-02C**	**130-02CP**

134 Relief Valve



Spring range	Part number no panel nut	Part number with panel nut
0-15 PSIG	**134-02AA**	**134-02AAP**
0-25 PSIG	**134-02A**	**134-02AP**
0-50 PSIG	**134-02B**	**134-02BP**
0-100 PSIG	**134-02C**	**134-02CP**

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Brass Nozzle Blow Gun



Inlet port	Part number
Lever operated	
1/4	**00475 0010**
Button operated	
1/4	**00470 0010**

Brass Nozzle Blow Gun



Inlet port	Part number
Lever operated	
1/4	**00475 0900**
Button operated	
1/4	**00470 0900**

Self-Regulating Blow Gun



Inlet port	Part number
Lever operated	
1/4	**00475 2900**

Pistol Grip Blow Gun



Inlet port	Part number
1/4	**BG441-NBL**

Brass Nozzle



Part number
00470 7020

Automatic Drip Leg Drain



Thread size	Part number
1/4	**06D1NA**
1/2	**06D3NA**

PPS1 Pressure Switch



Thread size	Part number
1/4 NPT	**PPS1-1C3-RHM**
1/8 NPT	**PPS1-2C3-RHM**
1/4" NPT	**PPS1-1C3-RWL**
1/8" NPT	**PPS1-2C3-RWL**

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Industrial Interchange Nipples

Hardened wear points and solid barstock construction provide long service life. Precision machined surfaces and hardened load-bearing areas resist the effects of mechanical shock in the most rugged applications. Industrial interchange nipples conform to MIL-C4109 and are for use with either Sleevmatic or Saflomatic couplers.

Female Pipe Thread



Body size (inches)	Thread size	Part number Steel
1/4	1/8-27	**H1C**
1/4	1/4-18	**H3C**
1/4	3/8-18	**H3C-E**
3/8	1/4-18	**H1E**
3/8	3/8-18	**H3E**
3/8	1/2-14	**H3E-F**
1/2	3/8-18	**H1F**
1/2	1/2-14	**H3F**
1/2	3/4-14	**H3F-G**
3/4	1/2-14	**H3G-F**
3/4	3/4-14	**H3G**
3/4	1-11½	**H3G-J**

Male Pipe Thread



Body size (inches)	Thread size	Part number Steel
1/4	1/8-27	**H0C**
1/4	1/4-18	**H2C**
1/4	3/8-18	**H2C-E**
3/8	1/8-27	**H00E**
3/8	1/4-18	**H0E**
3/8	3/8-18	**H2E**
3/8	1/2-14	**H2E-F**
1/2	3/8-18	**H0F**
1/2	1/2-14	**H2F**
1/2	3/4-14	**H2F-G**
3/4	1/2-14	**H2G-F**
3/4	3/4-14	**H2G**
3/4	1-11½	**H2G-J**

Standard Hose Barb



Body size (inches)	Hose I.D.	Part number Steel
1/4	1/4	**H8C**
1/4	5/16	**H8C-D**
1/4	3/8	**H9C**
3/8	3/8	**H5E**
3/8	1/2	**H6E**
1/2	3/8	**H4F**
1/2	1/2	**H5F**
1/2	3/4	**H5F-G**
3/4	1/2	**H5G-F**
3/4	3/4	**H5G**
3/4	1	**H5G-J**

Push-Lok Hose Barb*



Body size (inches)	Hose I.D.	Part number Steel
1/4	1/4	**H8CP**
1/4	3/8	**H9CP**
3/8	1/4	**H4EP**
3/8	3/8	**H5EP**
3/8	1/2	**H6EP**
1/2	3/8	**H4FP**
1/2	1/2	**H5FP**
1/2	1/2	**H6FP**

* Push-Lok hose barbs are designed for use with a push-lok hose and do not require clamps.

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Sleevmatic Couplers

Female Pipe Thread



Body size (inches)	Thread size	Part number Brass	Part number Steel
1/4	1/8-27	**B23A**	—
1/4	1/4-18	**B23**	—
1/4	3/8-18	**B23E**	—
3/8	1/4-18	—	**25C**
3/8	3/8-18	—	**25**
3/8	1/2-14	—	**25F**
1/2	3/8-18	—	**17E**
1/2	1/2-14	—	**17**
1/2	3/4-14	—	**17G**

Male Pipe Thread



Body size (inches)	Thread size	Part number Brass	Part number Steel
1/4	1/4-18	**B22**	—
1/4	3/8-18	**B22E**	—
3/8	1/4-18	—	**24C**
3/8	3/8-18	—	**24**
3/8	1/2-14	—	**24F**
1/2	3/8-18	—	**16E**
1/2	1/2-14	—	**16**
1/2	3/4-14	—	**16G**

Standard Hose Barb



Body size (inches)	Hose I.D.	Part number Brass	Part number Steel
1/4	1/4	**B20-3B**	—
1/4	5/16	**B20-4B**	—
1/4	3/8	**B20-5B**	—
3/8	3/8	—	**24-5B**
3/8	1/2	—	**24-6B**
1/2	3/8	—	**16-5B**
1/2	1/2	—	**16-6B**
1/2	3/4	—	**16-7B**

Push-Lok Hose Barb*



Body size (inches)	Hose I.D.	Part number Brass	Part number Steel
1/4	3/8	**B20-5BP**	—
3/8	3/8	—	**24-5BP**
1/2	3/8	—	**16-5BP**
1/2	1/2	—	**16-6BP**

* Push-Lok hose barbs are designed for use with push-lok hose and do not require clamps.

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Saflomatic Couplers

Female Pipe Thread



Body size (inches)	Thread size	Part number Brass
1/4	1/8-27	**B33A**
1/4	1/4-18	**B33**
1/4	3/8-18	**B33E**
3/8	1/4-18	**B35C**
3/8	3/8-18	**B35**
3/8	1/2-14	**B35F**
1/2	3/8-18	**B37E**
1/2	1/2-14	**B37**
1/2	3/4-14	**B37G**
3/4	1/2-14	**B39F**
3/4	3/4-14	**B39**
3/4	1-11½	**B39J**

Male Pipe Thread



Body size (inches)	Thread size	Part number Brass
1/4	1/8-27	**B32A**
1/4	1/4-18	**B32**
1/4	3/8-18	**B32E**
3/8	1/4-18	**B34C**
3/8	3/8-18	**B34**
3/8	1/2-14	**B34F**
1/2	3/8-18	**B36E**
1/2	1/2-14	**B36**
1/2	3/4-14	**B36G**
3/4	3/4-14	**B38**
3/4	1-11½	**B38J**

Standard Hose Barb



Body size (inches)	Hose I.D.	Part number Brass
1/4	1/4	**B30-3B**
1/4	5/16	**B30-4B**
1/4	3/8	**B30-5B**
3/8	3/8	**B34-5B**
3/8	1/2	**B34-6B**
1/2	1/2	**B36-6B**
1/2	3/4	**B36-7B**
3/4	3/4	**B38-7B**
3/4	1	**B38-8B**

Push-Lok Hose Barb*



Body size (inches)	Thread size	Part number Brass
1/4	1/4	**B30-3BP**
1/4	3/8	**B30-5BP**
3/8	3/8	**B34-5BP**
1/2	1/2	**B36-6BP**

* Push-Lok hose barbs are designed for use with push-lok hose and do not require clamps.

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Couplers Female Pipe Thread



Body size (inches)	Thread size	Part number Brass
1/4	1/4-18 NPTF	**B53**
1/4	3/8-18 NPTF	**B53E**

Couplers Male Pipe Thread



Body size (inches)	Thread size	Part number Brass
1/4	1/4-18	**B52**
1/4	3/8-18	**B52E**

Couplers Push-Lok Hose Barb*



Body size (inches)	Hose I.D.	Part number Brass
1/4	1/4	**B50-03BP**
1/4	3/8	**B50-05BP**

* Push-Lok hose barbs are designed for use with push-lok hose and do not require clamps.

Nipples Female Pipe Thread



Body size (inches)	Thread size	Part number Steel
1/4	1/4-18	**A3C**

Nipples Male Pipe Thread



Body size (inches)	Thread size	Part number Steel
1/4	1/4-18	**A2C**

Nipples Standard Hose Barb



Body size (inches)	Hose I.D.	Part number Steel
1/4	1/4	**A8C**

Nipples Push-Lok Hose Barb*



Body size (inches)	Thread size	Part number Steel
1/4	1/4	**A8CP**

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Polyethylene Tubing



O.D.	I.D.	Reel length (feet)	Color	Part number
1/4	.170	100	Natural	**E-43-0100**
1/4	.170	500	Natural	**E-43-0500**
1/4	.170	1000	Natural	**E-43-1000**
1/4	.170	100	Black	**EB-43-0100**
1/4	.170	500	Black	**EB-43-0500**
1/4	.170	1000	Black	**EB-43-1000**
1/4	.170	100	Red	**E-43-R-0100**
1/4	.170	500	Red	**E-43-R-0500**
1/4	.170	100	Blue	**E-43-B-0100**
1/4	.170	500	Blue	**E-43-B-0500**
1/4	.170	500	Orange	**E-43-O-0500**
1/4	.170	500	Yellow	**E-43-Y-0500**
1/4	.170	500	Purple	**E-43-P-0500**
1/4	.170	500	Green	**E-43-G-0500**
5/16	.187	500	Natural	**E-53-0500**
5/16	.187	500	Black	**EB-53-0500**
3/8	.250	100	Natural	**E-64-0100**
3/8	.250	500	Natural	**E-64-0500**
3/8	.250	100	Black	**EB-64-0100**
3/8	.250	500	Black	**EB-64-0500**
3/8	.250	500	Red	**E-64-R-0500**
3/8	.250	500	Blue	**E-64-B-0500**
3/8	.250	500	Orange	**E-64-O-0500**
3/8	.250	500	Yellow	**E-64-Y-0500**
3/8	.250	500	Purple	**E-64-P-0500**
3/8	.250	500	Green	**E-64-G-0500**
1/2	.375	100	Natural	**E-86-0100**
1/2	.375	100	Black	**EB-86-0100**
5/8	.500	100	Natural	**E-108-0100**
5/8	.500	Coil	Black	**EB-108-0100**

☐ Most popular. For technical information see CD

Polyethelene Tubing



O.D.	I.D.	Reel length (feet)	Part number
5/32	.096	500	**PEFR-2.5-0500**
1/4	.170	500	**PEFR-4-0500**
1/4	.170	1000	**PEFR-4-1000**
3/8	.250	500	**PEFR-6-0500**
1/2	.375	250	**PEFR-8-0250**

☐ Most popular.

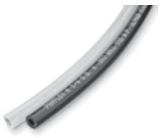
Polyurethane Tubing



O.D.	I.D.	Reel length (feet)	Part number*
1/8	1/16	500	**U-21-xxx-0500**
		250	**U-21-xxx-0250**
1/4	1/8	500	**U-42-xxx-0500**
		250	**U-42-xxx-0250**
3/8	1/4	250	**U-64-xxx-0250**
		100 (coil)	**U-64-xxx-0100**
1/2	3/8	250	**U-86-xxx-0250**
		100 (coil)	**U-86-xxx-0100**

* xxx = Colors: Clear-Blank, Black-BLK, Green-GRN, Red-RED, Yellow-YEL, Blue-BLU, Orange-ORG, Gray-GRA (**Example: U-21-BLK-0250**)

Nylon Tubing



O.D.	I.D.	Reel length (feet)	Color	Part number
1/8	.093	250	Natural	**NN-2-016**
1/8	.093	250	Black	**NB-2-016**
1/8	.064	250	Natural	**NN-2-031**
1/8	.064	250	Black	**NB-2-031**
5/32	.106	250	Natural	**NN-2.5-025**
5/32	.106	250	Black	**NB-2.5-025**
3/16	.138	250	Natural	**NN-3-025**
3/16	.138	250	Black	**NB-3-025**
3/16	.096	250	Natural	**NN-3-046**
3/16	.096	250	Black	**NB-3-046**
1/4	.180	250	Natural	**NN-4-035**
1/4	.180	250	Black	**NB-4-035**
1/4	.170	250	Natural	**NN-4-040**
1/4	.170	250	Black	**NB-4-040**
1/4	.127	250	Natural	**NN-4-062**
1/4	.127	250	Black	**NB-4-062**
5/16	.233	250	Natural	**NN-5-040**
5/16	.233	250	Black	**NB-5-040**
3/8	.275	250	Natural	**NN-6-050**
3/8	.275	250	Black	**NB-6-050**
3/8	.190	250	Natural	**NN-6-093**
3/8	.190	250	Black	**NB-6-093**
1/2	.375	250	Natural	**NN-8-062**
1/2	.375	250	Black	**NB-8-062**
1/2	.253	250	Natural	**NN-8-124**
1/2	.253	250	Black	**NB-8-124**

*Suggested working pressure is 1/4 of burst pressure.

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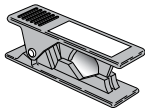
Nylon Tubing



O.D.	I.D.	Reel length (feet)	Color	Part number
1/8	.091	500	Natural	**NNR-2-017**
1/8	.091	500	Black	**NBR-2-017**
1/8	.073	500	Natural	**NNR-2-026**
1/8	.073	500	Black	**NBR-2-026**
3/16	.140	500	Natural	**NNR-3-024**
3/16	.140	500	Black	**NBR-3-024**
3/16	.110	500	Natural	**NNR-3-039**
3/16	.110	500	Black	**NBR-3-039**
1/4	.180	250	Natural	**NNR-4-035**
1/4	.180	250	Black	**NBR-4-035**
1/4	.150	250	Natural	**NNR-4-050**
1/4	.150	250	Black	**NBR-4-050**
5/16	.233	250	Natural	**NNR-5-040**
5/16	.233	250	Black	**NBR-5-040**
3/8	.279	250	Natural	**NNR-6-048**
3/8	.279	250	Black	**NBR-6-048**
3/8	.225	250	Natural	**NNR-6-075**
3/8	.225	250	Black	**NBR-6-075**
1/2	.376	250	Natural	**NNR-8-062**
1/2	.376	250	Black	**NBR-8-062**
1/2	.350	250	Natural	**NNR-8-075**
1/2	.350	250	Black	**NBR-8-075**

*Suggested working pressure is 1/4 of burst pressure.

Plastic Tube Cutter



Part number
PTC-001

Replacement Blades



Part number
PTC-001RB

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W369PLP Male Elbow Swivel 90°



Tube size (in.)	Thread NPT / UNF	Part number
1/8	10-32	**369PLP-2-0**
1/8	1/16	**W369PLP-2-1**
1/8	1/8	**W369PLP-2-2**
1/8	1/4	**W369PLP-2-4**
5/32	10-32	**369PLP-5/32-0**
5/32	1/8	**W369PLP-5/32-2**
5/32	1/4	**W369PLP-5/32-4**
3/16	1/8	**W369PLP-3-2**
1/4	10-32	**369PLP-4-0**
1/4	1/8	**W369PLP-4-2**
1/4	1/4	**W369PLP-4-4**
1/4	3/8	**W369PLP-4-6**
5/16	1/8	**W369PLP-5-2**
5/16	1/4	**W369PLP-5-4**
5/16	3/8	**W369PLP-5-6**
3/8	1/8	**W369PLP-6-2**
3/8	1/4	**W369PLP-6-4**
3/8	3/8	**W369PLP-6-6**
3/8	1/2	**W369PLP-6-8**
1/2	1/4	**W369PLP-8-4**
1/2	3/8	**W369PLP-8-6**
1/2	1/2	**W369PLP-8-8**

W369PLPX Extended Male Elbow



Tube size (in.)	Thread NPT / UNF	Part number
1/8	10-32	**369PLPX-2-0**
1/8	1/8	**W369PLPX-2-2**
1/8	1/4	**W369PLPX-2-4**
5/32	10-32	**369PLPX-5/32-0**
5/32	1/8	**W369PLPX-5/32-2**
5/32	1/4	**W369PLPX-5/32-4**
1/4	10-32	**369PLPX-4-0**
1/4	M7	**369PLPX-4-M7**
1/4	1/8	**W369PLPX-4-2**
1/4	1/4	**W369PLPX-4-4**
1/4	3/8	**W369PLPX-4-6**
5/16	1/8	**W369PLPX-5-2**
5/16	1/4	**W369PLPX-5-4**
3/8	1/8	**W369PLPX-6-2**
3/8	1/4	**W369PLPX-6-4**
3/8	3/8	**W369PLPX-6-6**

W379PLP Male Elbow 45°



Tube size (in.)	Thread NPT / UNF	Part number
1/8	10-32	**379PLP-2-0**
1/8	1/8	**W379PLP-2-2**
1/4	1/8	**W379PLP-4-2**
1/4	1/4	**W379PLP-4-4**
1/4	M7	**W379PLP-4-M7**
3/8	1/4	**W379PLP-6-4**
3/8	3/8	**W379PLP-6-6**

W372PLP Male Branch Tee Swivel



Tube size (in.)	Thread NPT / UNF	Part number
1/8	10-32	**372PLP-2-0**
1/8	1/16	**W372PLP-2-1**
1/8	1/8	**W372PLP-2-2**
1/8	1/4	**W372PLP-2-4**
5/32	10-32	**372PLP-5/32-0**
5/32	1/8	**W372PLP-5/32-2**
5/32	1/4	**W372PLP-5/32-4**
3/16	1/8	**W372PLP-3-2**
1/4	1/8	**W372PLP-4-2**
1/4	1/4	**W372PLP-4-4**
1/4	3/8	**W372PLP-4-6**
5/16	1/8	**W372PLP-5-2**
5/16	1/4	**W372PLP-5-4**
5/16	3/8	**W372PLP-5-6**
3/8	1/8	**W372PLP-6-2**
3/8	1/4	**W372PLP-6-4**
3/8	3/8	**W372PLP-6-6**
3/8	1/2	**W372PLP-6-8**
1/2	1/4	**W372PLP-8-4**
1/2	3/8	**W372PLP-8-6**
1/2	1/2	**W372PLP-8-8**

☐ Most popular.

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W371PLP Male Run Tee Swivel



Tube size (in.)	Thread NPT / UNF	Part number
1/8	10-32	**371PLP-2-0**
1/8	1/16	**W371PLP-2-1**
1/8	1/8	**W371PLP-2-2**
5/32	10-32	**371PLP-5/32-0**
5/32	1/8	**W371PLP-5/32-2**
5/32	1/4	**W371PLP-5/32-4**
3/16	1/8	**W371PLP-3-2**
1/4	1/8	**W371PLP-4-2**
1/4	1/4	**W371PLP-4-4**
1/4	3/8	**W371PLP-4-6**
5/16	1/8	**W371PLP-5-2**
5/16	1/4	**W371PLP-5-4**
5/16	3/8	**W371PLP-5-6**
3/8	1/8	**W371PLP-6-2**
3/8	1/4	**W371PLP-6-4**
3/8	3/8	**W371PLP-6-6**
3/8	1/2	**W371PLP-6-8**
1/2	1/4	**W371PLP-8-4**
1/2	3/8	**W371PLP-8-6**
1/2	1/2	**W371PLP-8-8**

W68PLPSP Male Standpipe



Tube size (in.)	Thread NPT / UNF	Part number
5/32	10-32	**68PLPSP-5/32-0**
5/32	1/8	**W68PLPSP-5/32-2**
5/32	1/4	**W68PLPSP-5/32-4**
1/4	1/8	**W68PLPSP-4-2**
1/4	1/4	**W68PLPSP-4-4**
5/16	1/8	**W68PLPSP-5-2**
5/16	1/4	**W68PLPSP-5-4**
3/8	1/8	**W68PLPSP-6-2**
3/8	1/4	**W68PLPSP-6-4**
3/8	3/8	**W68PLPSP-6-6**
1/2	3/8	**W68PLPSP-8-6**
1/2	1/2	**W68PLPSP-8-8**

W368PLP Male Y Connector



Tube size (in.)	Thread NPT / UNF	Part number
5/32	**1/8**	**W368PLP-5/32-2**
5/32	**1/4**	**W368PLP-5/32-4**
1/4	**1/8**	**W368PLP-4-2**
1/4	**1/4**	**W368PLP-4-4**
3/8	**1/4**	**W368PLP-6-4**
3/8	**3/8**	**W368PLP-6-6**

☐ Most popular.

32PLP Equal Union



Tube Size (in.)	Part number
1/8	**32PLP-2**
5/32	**32PLP-5/32**
3/16	**32PLP-3**
1/4	**32PLP-4**
5/16	**32PLP-5**
3/8	**32PLP-6**
1/2	**32PLP-8**

365PLP Union Elbow



Tube Size (in.)	Part number
1/8	**365PLP-2**
5/32	**365PLP-5/32**
3/16	**365PLP-3**
1/4	**365PLP-4**
5/16	**365PLP-5**
3/8	**365PLP-6**
1/2	**365PLP-8**

364PLP Union Tee



Tube Size (in.)	Part number
1/8	**364PLP-2**
5/32	**364PLP-5/32**
3/16	**364PLP-3**
1/4	**364PLP-4**
5/16	**364PLP-5**
3/8	**364PLP-6**
1/2	**364PLP-8**

362PLP Union Y Connector



1 Tube size (in.)	2 Tube size (in.)	Part number
1/8	1/8	**362PLP-2**
1/8	1/4	**362PLP-2-4**
5/32	5/32	**362PLP-5/32**
5/32	1/4	**362PLP-5/32-4**
1/4	1/4	**362PLP-4**
1/4	3/8	**362PLP-4-6**
5/16	5/16	**362PLP-5**
3/8	3/8	**362PLP-6**

362PLPD Double Y Connector



1 Tube size (in.)	2 Tube size (in.)	Part number
5/32	5/32	**362PLPD-5/32**
5/32	1/4	**362PLPD-5/32-4**

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24PLP Multiple Tee



1 Tube size (in.)	2 Tube size (in.)	Part number
1/4	5/32	**24PLP-4-5/32**
1/4	1/4	**24PLP-4-4**
5/16	5/32	**24PLP-5-5/32**
3/8	1/4	**24PLP-6-4**

24PLPD Double Multiple Tee



1 Tube size (in.)	2 Tube size (in.)	Part number
1/4	5/32	**24PLPD-4-5/32**
1/4	1/4	**24PLPD-4-4**
5/16	5/32	**24PLPD-5-5/32**
3/8	1/4	**24PLPD-6-4**

347PLP Equal Cross



Tube Size (in.)	Part number
5/32	**347PLP-5/32**
1/4	**347PLP-4**
5/16	**347PLP-5**

32PLPRC Connector for 2 Tubes



Tube Size (in.)	Part number
5/32	**32PLPRC-5/32**
1/4	**32PLPRC-4**
5/16	**32PLPRC-5**

32PLPDRC Connector for 3 Tubes



Tube Size (in.)	Part number
5/32	**32PLPDRC-5/32**
5/16	**32PLPDRC-5**

377PLP Female Branch Tee Swivel



Tube size (in.)	Thread NPT / UNF	Part number
1/8	1/8	**377PLP-2-2**
5/32	1/8	**377PLP-5/32-2**
5/32	1/4	**377PLP-5/32-4**
1/4	1/8	**377PLP-4-2**
1/4	1/4	**377PLP-4-4**
5/16	1/8	**377PLP-5-2**
5/16	1/4	**377PLP-5-4**
3/8	1/4	**377PLP-6-4**
1/2	3/8	**377PLP-8-6**

☐ Most popular.

370PLP Female Elbow Swivel



Tube size (in.)	Thread NPT	Part number
1/8	1/8	**370PLP-2-2**
5/32	1/8	**370PLP-5/32-2**
5/32	1/4	**370PLP-5/32-4**
1/4	1/8	**370PLP-4-2**
1/4	1/4	**370PLP-4-4**
5/16	1/8	**370PLP-5-2**
5/16	1/4	**370PLP-5-4**
3/8	1/4	**370PLP-6-4**
1/2	3/8	**370PLP-8-6**

32PLPBH Bulkhead Union



Tube Size (in.)	Part number
1/8	**32PLPBH-2**
5/32	**32PLPBH-5/32**
1/4	**32PLPBH-4**
5/16	**32PLPBH-5**
3/8	**32PLPBH-6**
1/2	**32PLPBH-8**

365PLPBH Equal Bulkhead Elbow



Tube size (in.)	Thread NPT / UNF	Part number
1/8	13	**365PLPBH-2**
5/32		**365PLPBH-5/32**
1/4	18	**365PLPBH-4**
5/16		**365PLPBH-5**
3/8	22	**365PLPBH-6**
1/2	29	**365PLPBH-8**

369PLPSP Plug-In Elbow



1 Tube size (in.)	2 Tube size (in.)	Part number
1/8	1/8	**369PLPSP-2**
5/32	5/32	**369PLPSP-5/32**
5/32	1/4	**369PLPSP-5/32-4**
1/4	1/4	**369PLPSP-4**
1/4	3/8	**369PLPSP-4-6**
5/16	5/16	**369PLPSP-5**
3/8	3/8	**369PLPSP-6**
1/2	1/2	**369PLPSP-8**

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369PLPSPX Extended Plug-In Elbow



1 Tube size (in.)	2 Tube size (in.)	Part number
1/8	1/8	**369PLPSPX-2**
5/32	5/32	**369PLPSPX-5/32**
1/4	1/4	**369PLPSPX-4**
5/16	5/16	**369PLPSPX-5**
3/8	3/8	**369PLPSPX-6**

379PLPSP 45° Plug-In Elbow



1 Tube size (in.)	2 Tube size (in.)	Part number
1/8	1/8	**379PLPSP-2**
5/32	5/32	**379PLPSP-5/32**
1/4	1/4	**379PLPSP-4**
5/16	5/16	**379PLPSP-5**
3/8	3/8	**379PLPSP-6**

372PLPSP Plug-In Branch Tee



1 Tube size (in.)	2 Tube size (in.)	Part number
1/8	1/8	**372PLPSP-2**
5/32	5/32	**372PLPSP-5/32**
1/4	1/4	**372PLPSP-4**
5/16	5/16	**372PLPSP-5**
3/8	3/8	**372PLPSP-6**
1/2	1/2	**372PLPSP-8**

371PLPSP Plug-In Run Tee



1 Tube size (in.)	2 Tube size (in.)	Part number
5/32	5/32	**371PLPSP-5/32**
1/4	1/4	**371PLPSP-4**
5/16	5/16	**371PLPSP-5**
3/8	3/8	**371PLPSP-6**
1/2	1/2	**371PLPSP-8**

362PLPSP Plug-In Y



1 Tube size (in.)	2 Tube size (in.)	Part number
1/8	1/8	**362PLPSP-2**
5/32	5/32	**362PLPSP-5/32**
1/4	1/4	**362PLPSP-4**
5/16	5/16	**362PLPSP-5**
3/8	3/8	**362PLPSP-6**

☐ Most popular.

67PLP Tube End Reducer



1 Tube size (in.)	2 Tube size (in.)	Part number
1/8	5/32	**67PLP-2-5/32**
1/8	3/16	**67PLP-2-3**
1/8	1/4	**67PLP-2-4**
5/32	3/16	**67PLP-5/32-3**
5/32	1/4	**67PLP-5/32-4**
5/32	5/16	**67PLP-5/32-5**
5/32	3/8	**67PLP-5/32-6**
3/16	5/16	**67PLP-3-5**
3/16	1/4	**67PLP-3-4**
1/4	5/16	**67PLP-4-5**
1/4	3/8	**67PLP-4-6**
1/4	1/2	**67PLP-4-8**
5/16	3/8	**67PLP-5-6**
5/16	1/2	**67PLP-5-8**
3/8	1/2	**67PLP-6-8**

32PLPSP Tube Expander



1 Tube size (in.)	2 Tube size (in.)	Part number
1/4	1/8	**32PLPSP-4-2**
1/4	6M	**32PLPSP-4-6M**
1/4	5/32	**32PLPSP-4-5/32**
1/4	3/16	**32PLPSP-4-3**
3/8	1/4	**32PLPSP-6-4**

322PLPSP Barbed Connector



OD 1	OD 2	OD 3	Part number
5/32	0.12	0.20	**322PLPSP-2-5/32**
5/32	0.20	0.28	**322PLPSP-5M-5/32**
1/4	3/16		**322PLPSP-3-4**
5/16	0.25	0.34	**322PLPSP-4-5**
3/8	0.32	0.39	**322PLPSP-5-5**
3/8	0.32	0.39	**322PLPSP-5-6**

63PLP Double Male Union



Tube size (in.)	Part number
5/32	**63PLP-5/32**
1/4	**63PLP-4**
5/16	**63PLP-5**
3/8	**63PLP-6**
1/2	**63PLP-8**

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639PLP Plug



Tube size (in.)	Part number
1/8	**639PLP-2**
5/32	**639PLP-5/32**
3/16	**639PLP-3**
1/4	**639PLP-4**
5/16	**639PLP-5**
3/8	**639PLP-6**
1/2	**639PLP-8**

W369PLP Male Elbow



Tube size (mm)	Thread NPT	Part number
4	1/8	**W369PLP-4M-2**
4	1/4	**W369PLP-4M-4**
6	1/8	**W369PLP-6M-2**
6	1/4	**W369PLP-6M-4**
8	1/8	**W369PLP-8M-2**
8	1/4	**W369PLP-8M-4**
8	3/8	**W369PLP-8M-6**
10	1/4	**W369PLP-10M-4**
10	3/8	**W369PLP-10M-6**
10	1/2	**W369PLP-10M-8**
12	3/8	**W369PLP-12M-6**
12	1/2	**W369PLP-12M-8**

W372PLP Male Branch Tee Swivel



Tube size (in.)	Thread NPT / UNF	Part number
1/8	10-32	**372PLP-2-0**
1/8	1/16	**W372PLP-2-1**
1/8	1/8	**W372PLP-2-2**
1/8	1/4	**W372PLP-2-4**
5/32	10-32	**372PLP-5/32-0**
5/32	1/8	**W372PLP-5/32-2**
5/32	1/4	**W372PLP-5/32-4**
3/16	1/8	**W372PLP-3-2**
1/4	1/8	**W372PLP-4-2**
1/4	1/4	**W372PLP-4-4**
1/4	3/8	**W372PLP-4-6**
5/16	1/8	**W372PLP-5-2**
5/16	1/4	**W372PLP-5-4**
5/16	3/8	**W372PLP-5-6**
3/8	1/8	**W372PLP-6-2**
3/8	1/4	**W372PLP-6-4**
3/8	3/8	**W372PLP-6-6**
3/8	1/2	**W372PLP-6-8**
1/2	1/4	**W372PLP-8-4**
1/2	3/8	**W372PLP-8-6**
1/2	1/2	**W372PLP-8-8**

☐ Most popular.

32PLP Union



Tube size (mm)	Part number
3	**32PLP-3M**
4	**32PLP-4M**
6	**32PLP-6M**
8	**32PLP-8M**
10	**32PLP-10M**
12	**32PLP-12M**
14	**32PLP-14M**

365PLP Union Elbow



Tube size (mm)	Part number
4	**365PLP-4M**
6	**365PLP-6M**
8	**365PLP-8M**
10	**365PLP-10M**
12	**365PLP-12M**
14	**365PLP-14M**

364PLP Union Tee



Tube size (mm)	Part number
3	**364PLP-3M**
4	**364PLP-4M**
6	**364PLP-6M**
8	**364PLP-8M**
10	**364PLP-10M**
12	**364PLP-12M**
14	**364PLP-14M**

362PLP Union Y Connector



1 Tube size (mm)	2 Tube size (mm)	Part number
4	4	**362PLP-4M**
6	6	**362PLP-6M**
8	8	**362PLP-8M**
10	10	**362PLP-10M**
12	12	**362PLP-12M**
4	6	**362PLP-4M-6M**
6	8	**362PLP-6M-8M**
8	10	**362PLP-8M-10M**
10	12	**362PLP-10M-12M**

362PLPD Double Y Connector



1 Tube size (mm)	2 Tube size (mm)	Part number
4	4	**362PLPD-4M**
6	6	**362PLPD-6M**
4	6	**362PLPD-4M-6M**
6	8	**362PLPD-6M-8M**

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24PLP Multiple Tee



1 Tube size (mm)	2 Tube size (mm)	Part number
6	4	**24PLP-6M-4M**
8	4	**24PLP-8M-4M**
8	6	**24PLP-8M-6M**
10	6	**24PLP-10M-6M**
10	8	**24PLP-10M-8M**

24PLPD Double Multiple Tee



1 Tube size (mm)	2 Tube size (mm)	Part number
6	4	**24PLPD-6M-4M**
8	4	**24PLPD-8M-4M**
8	6	**24PLPD-8M-6M**
10	6	**24PLPD-10M-6M**
10	8	**24PLPD-10M-8M**

347PLP Equal Cross



Tube size (mm)	Part number
4	**347PLP-4M**
6	**347PLP-6M**
8	**347PLP-8M**

32PLPRC Connector for 2 Tubes



Tube size (mm)	Part number
4	**32PLPRC-4M**
6	**32PLPRC-6M**
8	**32PLPRC-8M**

32PLPDRC Connector for 3 Tubes



Tube size (mm)	Part number
4	**32PLPDRC-4M**
6	**32PLPDRC-6M**
8	**32PLPDRC-8M**

32PLPBH Bulkhead Union



Tube size (mm)	Part number
4	**32PLPBH-4M**
6	**32PLPBH-6M**
8	**32PLPBH-8M**
10	**32PLPBH-10M**
12	**32PLPBH-12M**
14	**32PLPBH-14M**

☐ Most popular.

365PLPBH Equal Bulkhead Elbow



Tube size (mm)	Part number
4	**365PLPBH-4M**
6	**365PLPBH-6M**
8	**365PLPBH-8M**
10	**365PLPBH-10M**
12	**365PLPBH-12M**

370PLP Female Elbow - BSPP



Tube size (mm)	BSPP	Part number
4	1/8	**370PLP-4M-2G**
4	1/4	**370PLP-4M-4G**
6	1/8	**370PLP-6M-2G**
6	1/4	**370PLP-6M-4G**
8	1/8	**370PLP-8M-2G**
8	1/4	**370PLP-8M-4G**
8	3/8	**370PLP-8M-6G**
10	1/4	**370PLP-10M-4G**
10	3/8	**370PLP-10M-6G**
10	1/2	**370PLP-10M-8G**
12	1/4	**370PLP-12M-4G**
12	3/8	**370PLP-12M-6G**
12	1/2	**370PLP-12M-8G**

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369PLP Male Elbow - BSPP



Tube size (mm)	BSPP	Part number
3	M3x0.5	**369PLP-3M-M3**
3	M5x0.8	**369PLP-3M-M5**
4	M3x0.5	**369PLP-4M-M3**
4	M5x0.8	**369PLP-4M-M5**
4	M7x1	**369PLP-4M-M7**
4	1/8	**369PLP-4M-2G**
4	1/4	**369PLP-4M-4G**
6	M5x0.8	**369PLP-6M-M5**
6	M7x1	**369PLP-6M-M7**
6	M10x1	**369PLP-6M-M10**
6	M12x1.5	**369PLP-6M-M12**
6	1/8	**369PLP-6M-2G**
6	1/4	**369PLP-6M-4G**
6	3/8	**369PLP-6M-6G**
6	1/2	**369PLP-6M-8G**
8	M10x1	**369PLP-8M-M10**
8	M12x1.5	**369PLP-8M-M12**
8	1/8	**369PLP-8M-2G**
8	1/4	**369PLP-8M-4G**
8	3/8	**369PLP-8M-6G**
8	1/2	**369PLP-8M-8G**
10	1/4	**369PLP-10M-4G**
10	3/8	**369PLP-10M-6G**
10	1/2	**369PLP-10M-8G**
12	1/4	**369PLP-12M-4G**
12	3/8	**369PLP-12M-6G**
12	1/2	**369PLP-12M-8G**
14	3/8	**369PLP-14M-6G**
14	1/2	**369PLP-14M-8G**

379PLP 45° Male Elbow - BSPP



Tube size (mm)	BSPP / M5	Part number
4	M5x0.8	**379PLP-4M-M5**
4	1/8	**379PLP-4M-2G**
6	M5x0.8	**379PLP-6M-M5**
6	1/8	**379PLP-6M-2G**
6	1/4	**379PLP-6M-4G**
8	1/8	**379PLP-8M-2G**
8	1/4	**379PLP-8M-4G**
8	3/8	**379PLP-8M-6G**
10	1/4	**379PLP-10M-4G**
10	3/8	**379PLP-10M-6G**
10	1/2	**379PLP-10M-8G**
12	1/4	**379PLP-12M-4G**
12	3/8	**379PLP-12M-6G**
12	1/2	**379PLP-12M-8G**

☐ Most popular.

369PLPX Male Elbow - BSPP



Tube size (mm)	BSPP	Part number
4	M5x0.8	**369PLPX-4M-M5**
4	M7x1	**369PLPX-4M-M7**
4	1/8	**369PLPX-4M-2G**
4	1/4	**369PLPX-4M-4G**
6	M5x0.8	**369PLPX-6M-M5**
6	M7x1	**369PLPX-6M-M7**
6	1/8	**369PLPX-6M-2G**
6	1/4	**369PLPX-6M-4G**
8	1/8	**369PLPX-8M-2G**
8	1/4	**369PLPX-8M-4G**
8	3/8	**369PLPX-8M-6G**
10	1/4	**369PLPX-10M-4G**
10	3/8	**369PLPX-10M-6G**
10	1/2	**369PLPX-10M-8G**
12	1/4	**369PLPX-12M-4G**
12	3/8	**369PLPX-12M-6G**
12	1/2	**369PLPX-12M-8G**
14	3/8	**369PLPX-14M-6G**
14	1/2	**369PLPX-14M-8G**

372PLP Male Branch Tee - BSPP



Tube size (mm)	BSPP / M5	Part number
4	M5x0.8	**372PLP-4M-M5**
4	1/8	**372PLP-4M-2G**
4	1/4	**372PLP-4M-4G**
6	M5x0.8	**372PLP-6M-M5**
6	1/8	**372PLP-6M-2G**
6	1/4	**372PLP-6M-4G**
8	1/8	**372PLP-8M-2G**
8	1/4	**372PLP-8M-4G**
8	3/8	**372PLP-8M-6G**
10	1/4	**372PLP-10M-4G**
10	3/8	**372PLP-10M-6G**
10	1/2	**372PLP-10M-8G**
12	1/4	**372PLP-12M-4G**
12	3/8	**372PLP-12M-6G**
12	1/2	**372PLP-12M-8G**
14	3/8	**372PLP-14M-6G**
14	1/2	**372PLP-14M-8G**

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371PLP Male Run Tee - BSPP



Tube size (mm)	BSPP	Part number
4	M5x0.8	**371PLP-4M-M5**
4	1/8	**371PLP-4M-2G**
4	1/4	**371PLP-4M-4G**
6	M5x0.8	**371PLP-6M-M5**
6	1/8	**371PLP-6M-2G**
6	1/4	**371PLP-6M-4G**
8	1/8	**371PLP-8M-2G**
8	1/4	**371PLP-8M-4G**
8	3/8	**371PLP-8M-6G**
10	1/4	**371PLP-10M-4G**
10	3/8	**371PLP-10M-6G**
10	1/2	**371PLP-10M-8G**
12	1/4	**371PLP-12M-4G**
12	3/8	**371PLP-12M-6G**
12	1/2	**371PLP-12M-8G**
14	3/8	**371PLP-14M-6G**
14	1/2	**371PLP-14M-8G**

68PLPSP Male Standpipe - BSPP



Tube size (mm)	BSPT	Part number
4	M5x0.8	**68PLPSP-4M-M5**
4	1/8	**68PLPSP-4M-2G**
4	1/4	**68PLPSP-4M-4G**
6	1/8	**68PLPSP-6M-2G**
6	1/4	**68PLPSP-6M-4G**
8	1/8	**68PLPSP-8M-2G**
8	1/4	**68PLPSP-8M-4G**
8	3/8	**68PLPSP-8M-6G**
10	1/4	**68PLPSP-10M-4G**
10	3/8	**68PLPSP-10M-6G**
10	1/2	**68PLPSP-10M-8G**
12	3/8	**68PLPSP-12M-6G**
12	1/2	**68PLPSP-12M-8G**
14	3/8	**68PLPSP-14M-6G**
14	1/2	**68PLPSP-14M-8G**

368PLP Male Y Connector - BSPP



Tube size (mm)	BSPP / M5	Part number
4	M5x0.8	**368PLP-4M-M5**
4	1/8	**368PLP-4M-2G**
4	1/4	**368PLP-4M-4G**
6	M5x0.8	**368PLP-6M-M5**
6	1/8	**368PLP-6M-2G**
6	1/4	**368PLP-6M-4G**
8	1/8	**368PLP-8M-2G**
8	1/4	**368PLP-8M-4G**
8	3/8	**368PLP-8M-6G**
10	1/4	**368PLP-10M-4G**
10	3/8	**368PLP-10M-6G**
10	1/2	**368PLP-10M-8G**
12	3/8	**368PLP-12M-6G**
12	1/2	**368PLP-12M-8G**

368PLPD Double Y Male Connector - BSPP



Tube size (mm)	BSPP	Part number
4	1/8	**368PLPD-4M-2G**
4	1/4	**368PLPD-4M-4G**
6	1/8	**368PLPD-6M-2G**
6	1/4	**368PLPD-6M-4G**

369PLPSP Plug-In Elbow



1 Tube size (mm)	2 Tube size (mm)	Part number
4	4	**369PLPSP-4M**
6	6	**369PLPSP-6M**
8	8	**369PLPSP-8M**
10	10	**369PLPSP-10M**
12	12	**369PLPSP-12M**
4	6	**369PLPSP-4M-6M**
6	4	**369PLPSP-6M-4M**
6	8	**369PLPSP-6M-8M**
8	10	**369PLPSP-8M-10M**
10	12	**369PLPSP-10M-12M**

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369PLPXSP Extended Plug-In Elbow



1 Tube size (mm)	2 Tube size (mm)	Part number
4	4	**369PLPXSP-4M**
6	6	**369PLPXSP-6M**
8	8	**369PLPXSP-8M**
10	10	**369PLPXSP-10M**
12	12	**369PLPXSP-12M**
4	6	**369PLPXSP-4M-6M**
6	8	**369PLPXSP-6M-8M**
8	10	**369PLPXSP-8M-10M**
10	12	**369PLPXSP-10M-12M**

379PLPSP 45° Plug-In Elbow



1 Tube size (mm)	2 Tube size (mm)	Part number
4	4	**379PLPSP-4M**
6	6	**379PLPSP-6M**
8	8	**379PLPSP-8M**
10	10	**379PLPSP-10M**
12	12	**379PLPSP-12M**

372PLPSP Plug-In Branch Tee



1 Tube size (mm)	2 Tube size (mm)	Part number
4	4	**372PLPSP-4M**
6	6	**372PLPSP-6M**
8	8	**372PLPSP-8M**
10	10	**372PLPSP-10M**
12	12	**372PLPSP-12M**
4	6	**372PLPSP-4M-6M**
6	8	**372PLPSP-6M-8M**
8	10	**372PLPSP-8M-10M**
10	12	**372PLPSP-10M-12M**

371PLPSP Plug-In Run Tee



1 Tube size (mm)	2 Tube size (mm)	Part number
4	4	**371PLPSP-4M**
6	6	**371PLPSP-6M**
8	8	**371PLPSP-8M**
10	10	**371PLPSP-10M**
12	12	**371PLPSP-12M**
4	6	**371PLPSP-4M-6M**
6	8	**371PLPSP-6M-8M**
8	10	**371PLPSP-8M-10M**
10	12	**371PLPSP-10M-12M**

☐ Most popular.

362PLPSP Plug-In Y



1 Tube size (mm)	2 Tube size (mm)	Part number
4	4	**362PLPSP-4M**
6	6	**362PLPSP-6M**
8	8	**362PLPSP-8M**
10	10	**362PLPSP-10M**
12	12	**362PLPSP-12M**
4	6	**362PLPSP-4M-6M**
6	8	**362PLPSP-6M-8M**
8	10	**362PLPSP-8M-10M**
10	12	**362PLPSP-10M-12M**

362PLPDSP Plug-In Multiple Y



1 Tube size (mm)	2 Tube size (mm)	Part number
6	4	**362PLPDSP-6M-4M**
8	4	**362PLPDSP-8M-4M**
8	6	**362PLPDSP-8M-6M**

67PLP Tube Reducer



1 Tube size (mm)	2 Tube size (mm)	Part number
6	4	**67PLP-6M-4M**
8	4	**67PLP-8M-4M**
8	6	**67PLP-8M-6M**
10	4	**67PLP-10M-4M**
10	6	**67PLP-10M-6M**
10	8	**67PLP-10M-8M**
12	10	**67PLP-12M-10M**
12	6	**67PLP-12M-6M**
12	8	**67PLP-12M-8M**
14	10	**67PLP-14M-10M**
14	12	**67PLP-14M-12M**
14	6	**67PLP-14M-6M**
14	8	**67PLP-14M-8M**

32PLPSP Tube Expander



1 Tube size (mm)	2 Tube size (mm)	Part number
6	4	**32PLPSP-6M-4M**
8	6	**32PLPSP-8M-6M**
10	8	**32PLPSP-10M-8M**
12	10	**32PLPSP-12M-10M**

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322PLPSP Barbed Connector



OD 1	OD 2	OD 3	Part number
4	3.2	5.0	**322PLPSP-3M-4M**
4	5.0	7.0	**322PLPSP-5M-4M**
6	5.0	7.0	**322PLPSP-5M-6M**
8	6.3	8.5	**322PLPSP-6M-8M**
8	8.0	10.0	**322PLPSP-8M-8M**
10	6.3	8.0	**322PLPSP-6M-10M**
10	8.0	10.0	**322PLPSP-8M-10M**
12	8.0	10.0	**322PLPSP-8M-12M**
12	10.0	12.0	**322PLPSP-1012M**
12	12.5	14.5	**322PLPSP-1212M**
14	12.5	14.5	**322PLPSP-1214M**
14	14.0	16.0	**322PLPSP-1414M**

Push-to-Connect, Prestolok Metal

W68PLP Male Connector



Tube size (in.)	Pipe thd (NPTF)	Part number
1/8	1/16	**W68PLP-2-1**
1/8	1/8	**W68PLP-2-2**
1/8	1/4	**W68PLP-2-4**
3/16	1/8	**W68PLP-3-2**
3/16	1/4	**W68PLP-3-4**
5/32	1/16	**W68PLP-5/32-1**
5/32	1/8	**W68PLP-5/32-2**
5/32	1/4	**W68PLP-5/32-4**
1/4	1/16	**W68PLP-4-1**
1/4	1/8	**W68PLP-4-2**
1/4	1/4	**W68PLP-4-4**
1/4	3/8	**W68PLP-4-6**
5/16	1/8	**W68PLP-5-2**
5/16	1/4	**W68PLP-5-4**
5/16	3/8	**W68PLP-5-6**
3/8	1/8	**W68PLP-6-2**
3/8	1/4	**W68PLP-6-4**
3/8	3/8	**W68PLP-6-6**
3/8	1/2	**W68PLP-6-8**
1/2	1/4	**W68PLP-8-4**
1/2	3/8	**W68PLP-8-6**
1/2	1/2	**W68PLP-8-8**
5/32	1/4-28	**68PLP-5/32-4LT***

*SAE-LT Threads

☐ Most popular.

W68PLPR Round Body Male Connector



Tube size (in.)	Thread size NPTF	Part number
5/32	1/16	**W68PLPR-5/32-1**
5/32	1/8	**W68PLPR-5/32-2**
1/4	1/16	**W68PLPR-4-1**
1/4	1/8	**W68PLPR-4-2**
1/4	1/4	**W68PLPR-4-4**

*10-32 seal is neoprene

W68PW Male Connector (Nickel Plated)



Tube size (in.)	Thread size NPTF	Part number
1/4	1/8	**W68PW-4-2**
1/4	1/4	**W68PW-4-4**
1/4	3/8	**W68PW-4-6**
5/16	1/8	**W68PW-5-2**
5/16	1/4	**W68PW-5-4**
5/16	3/8	**W68PW-5-6**
3/8	1/8	**W68PW-6-2**
3/8	1/4	**W68PW-6-4**
3/8	3/8	**W68PW-6-6**
3/8	1/2	**W68PW-6-8**
1/2	1/4	**W68PW-8-4**
1/2	3/8	**W68PW-8-6**
1/2	1/2	**W68PW-8-8**

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W169PLP Male Elbow Swivel 90°



Tube size (in.)	Pipe thread (NPTF)	Part number
1/8	1/16	**W169PLP-2-1**
1/8	1/8	**W169PLP-2-2**
1/8	10-32	**169PLP-2-0***
1/8	1/4	**W169PLP-2-4**
3/16	1/8	**W169PLP-3-2**
5/32	1/16	**W169PLP-5/32-1**
5/32	1/8	**W169PLP-5/32-2**
5/32	1/4	**W169PLP-5/32-4**
5/32	10-32	**169PLP-5/32-0***
1/4	1/16	**W169PLP-4-1**
1/4	1/8	**W169PLP-4-2**
1/4	1/4	**W169PLP-4-4**
1/4	3/8	**W169PLP-4-6**
1/4	10-32	**169PLP-4-0***
5/16	1/8	**W169PLP-5-2**
5/16	1/4	**W169PLP-5-4**
3/8	1/8	**W169PLP-6-2**
3/8	1/4	**W169PLP-6-4**
3/8	3/8	**W169PLP-6-6**
3/8	1/2	**W169PLP-6-8**
1/2	1/4	**W169PLP-8-4**
1/2	3/8	**W169PLP-8-6**
1/2	1/2	**W169PLP-8-8**

*10-32 seal is neoprene

W169PLPNS Male Elbow 90°



Tube size (in.)	Pipe thread (NPTF)	Part number
1/8	1/8	**W169PLPNS-2-2**
5/32	1/8	**W169PLPNS5/32-2**
5/32	1/4	**W169PLPNS5/32-4**
1/4	1/8	**W169PLPNS-4-2**
1/4	1/4	**W169PLPNS-4-4**
5/16	1/8	**W169PLPNS-5-2**
5/16	1/4	**W169PLPNS-5-4**
3/8	1/4	**W169PLPNS-6-4**
3/8	3/8	**W169PLPNS-6-6**
3/8	1/2	**W169PLPNS-6-8**
1/2	3/8	**W169PLPNS-8-6**
1/2	1/2	**W169PLPNS-8-8**
5/32	1/4-28	**169PLPNS532-4LT***

* SAE-LT Threads

W169PW Male Elbow Swivel 90° (Nickel Plated)



Tube size (in.)	Thread (NPTF)	Part number
1/4	1/8	**W169PW-4-2**
1/4	1/4	**W169PW-4-4**
1/4	3/8	**W169PW-4-6**
5/16	1/8	**W169PW-5-2**
5/16	1/4	**W169PW-5-4**
3/8	1/8	**W169PW-6-2**
3/8	1/4	**W169PW-6-4**
3/8	3/8	**W169PW-6-6**
3/8	1/2	**W169PW-6-8**
1/2	1/4	**W169PW-8-4**
1/2	3/8	**W169PW-8-6**
1/2	1/2	**W169PW-8-8**

W171PLP Male Run Tee Swivel



Tube size (in.)	Pipe thread (NPTF)	Part number
1/8	1/8	**W171PLP-2-2**
5/32	1/8	**W171PLP-5/32-2**
1/4	1/8	**W171PLP-4-2**
1/4	1/4	**W171PLP-4-4**
1/4	3/8	**W171PLP-4-6**
5/16	1/8	**W171PLP-5-2**
5/16	1/4	**W171PLP-5-4**
3/8	1/4	**W171PLP-6-4**
3/8	3/8	**W171PLP-6-6**
1/2	3/8	**W171PLP-8-6**
1/2	1/2	**W171PLP-8-8**

W171PW Male Run Tee Swivel (Nickel Plated)



Tube size (in.)	Pipe thread (NPTF)	Part number
1/4	1/8	**W171PW-4-2**
1/4	1/4	**W171PW-4-4**
1/4	3/8	**W171PW-4-6**
5/16	1/8	**W171PW-5-2**
5/16	1/4	**W171PW-5-4**
3/8	1/4	**W171PW-6-4**
3/8	3/8	**W171PW-6-6**
1/2	3/8	**W171PW-8-6**
1/2	1/2	**W171PW-8-8**

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W172PLP Male Branch Tee Swivel



Tube size (in.)	Pipe thread (NPTF)	Part number
1/8	1/8	**W172PLP-2-2**
3/16	1/8	**W172PLP-3-2**
5/32	1/8	**W172PLP-5/32-2**
1/4	1/8	**W172PLP-4-2**
1/4	1/4	**W172PLP-4-4**
1/4	3/8	**W172PLP-4-6**
5/16	1/8	**W172PLP-5-2**
5/16	1/4	**W172PLP-5-4**
3/8	1/4	**W172PLP-6-4**
3/8	3/8	**W172PLP-6-6**
1/2	1/4	**W172PLP-8-4**
1/2	3/8	**W172PLP-8-6**
1/2	1/2	**W172PLP-8-8**

W172PW Male Branch Tee Swivel (Nickel Plated)



Tube size (in.)	Thread (NPTF)	Part number
1/4	1/8	**W172PW-4-2**
1/4	1/4	**W172PW-4-4**
1/4	3/8	**W172PW-4-6**
5/16	1/8	**W172PW-5-2**
5/16	1/4	**W172PW-5-4**
3/8	1/4	**W172PW-6-4**
3/8	3/8	**W172PW-6-6**
1/2	1/4	**W172PW-8-4**
1/2	3/8	**W172PW-8-6**
1/2	1/2	**W172PW-8-8**

62PLP Union



Tube size (in.)	Part number
1/8	**62PLP-2**
3/16	**62PLP-3**
5/32	**62PLP-5/32**
1/4	**62PLP-4**
5/16	**62PLP-5**
3/8	**62PLP-6**
1/2	**62PLP-8**

62PW Union (Nickel Plated)



Tube size (in.)	Part number
1/4	**62PW-4**
5/16	**62PW-5**
3/8	**62PW-6**
1/2	**62PW-8**

164PLP Union Tee



Tube size (in.)	Part number
1/8	**164PLP-2**
3/16	**164PLP-3**
5/32	**164PLP-5/32**
1/4	**164PLP-4**
5/16	**164PLP-5**
3/8	**164PLP-6**
1/2	**164PLP-8**

164PW Union Tee (Nickel Plated)



Tube size (in.)	Part number
1/4	**164PW-4**
5/16	**164PW-5**
3/8	**164PW-6**
1/2	**164PW-8**

165PLP Union Elbow



Tube size (in.)	Part number
1/8	**165PLP-2**
5/32	**165PLP-5/32**
3/16	**165PLP-3**
1/4	**165PLP-4**
5/16	**165PLP-5**
3/8	**165PLP-6**
1/2	**165PLP-8**

165PW Union Elbow (Nickel Plated)



Tube size (in.)	Part number
1/4	**165PW-4**
5/16	**165PW-5**
3/8	**165PW-6**
1/2	**165PW-8**

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66PLP Female Connector



Tube size (in.)	Pipe thread (NPTF)	Part number
1/8	1/8	**66PLP-2-2**
1/8	1/4	**66PLP-2-4**
3/16	1/8	**66PLP-3-2**
5/32	1/8	**66PLP-5/32-2**
5/32	1/4	**66PLP-5/32-4**
1/4	1/8	**66PLP-4-2**
1/4	1/4	**66PLP-4-4**
5/16	1/8	**66PLP-5-2**
5/16	1/4	**66PLP-5-4**
3/8	1/4	**66PLP-6-4**
3/8	3/8	**66PLP-6-6**

66PW Female Connector (Nickel Plated)



Tube size (in.)	Pipe thread (NPTF)	Part number
1/4	1/8	**66PW-4-2**
1/4	1/4	**66PW-4-4**
5/16	1/8	**66PW-5-2**
5/16	1/4	**66PW-5-4**
3/8	1/4	**66PW-6-4**
3/8	3/8	**66PW-6-6**

62PLPBH Bulkhead Union



Tube size (in.)	Part number
1/8	**62PLPBH-2**
5/32	**62PLPBH-5/32**
1/4	**62PLPBH-4**
5/16	**62PLPBH-5**
3/8	**62PLPBH-6**
1/2	**62PLPBH-8**

66PLPBH Female Bulkhead



Tube size (in.)	Pipe thd (NPTF)	Part number
5/32	1/4	**66PLPBH-5/32-4**
1/4	1/4	**66PLPBH-4-4**
3/8	3/8	**66PLPBH-6-6**
1/2	3/8	**66PLPBH-8-6**

62PWBH Bulkhead Union (Nickel Plated)



Tube Size (in.)	Bulkhead Hole Dia. B	Part number
1/4	9/16	**62PWBH-4**
5/16	5/8	**62PWBH-5**
3/8	3/4	**62PWBH-6**
1/2	7/8	**62PWBH-8**

66PWBH Female Bulkhead (Nickel Plated)



Tube size (in.)	Thread (NPTF)	Bulkhead hole dia.	Part number
1/4	1/4	9/16	**66PWBH-4-4**
3/8	3/8	7/8	**66PWBH-6-6**
1/2	3/8	1	**66PWBH-8-6**

PLPHBF4-B Male Connector BSPP



Tube size (in.)	Pipe thd BSPP	Part number
3/16	1/8-28	**3-1/8PLPHBF4-B**
3/16	1/4-19	**3-1/4PLPHBF4-B**
1/4	1/8-28	**4-1/8PLPHBF4-B**
1/4	1/4-19	**4-1/4PLPHBF4-B**
1/4	3/8-19	**4-3/8PLPHBF4-B**
3/8	1/4-19	**6-1/4PLPHBF4-B**
3/8	3/8-19	**6-3/8PLPHBF4-B**
3/8	1/2-14	**6-1/2PLPHBF4-B**
1/2	3/8-19	**8-3/8PLPHBF4-B**
1/2	1/2-14	**8-1/2PLPHBF4-B**

DB Dust / Weld Spatter Boot



Tube size (in.)	Part number
1/4	**DB-4**
3/8	**DB-6**
1/2	**DB-8**

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FPB Male Connector NPT



Tube size (mm)	NPT	Part number
4	1/8-27	**W68PLP-5/32-2**
4	1/4-18	**W68PLP-5/32-4**
6	1/8-27	**FPB6-1/8**
6	1/4-18	**FPB6-1/4**
10	1/4-18	**FPB10-1/4**
10	3/8-18	**FPB10-3/8**
12	3/8-18	**FPB12-3/8**

C6PB Adjustable Male Elbow NPT



Tube size (mm)	NPT	Part number
6	1/4-18	**C6PB6-1/4**
6	3/8-18	**C6PB6-3/8**
10	1/4-18	**C6PB10-1/4**
10	3/8-18	**C6PB10-3/8**
12	1/2-14	**C6PB12-1/2**

HPB Equal Union



Tube size (mm)	Part number
4	**HPB4**
5	**HPB5**
6	**HPB6**
8	**HPB8**
10	**HPB10**
12	**HPB12**
14	**HPB14**

JPB Union Tee



Tube size (mm)	Part number
4	**JPB4**
5	**JPB5**
6	**JPB6**
8	**JPB8**
10	**JPB10**
12	**JPB12**
14	**JPB14**

EPB 90° Union Elbow



Tube size (mm)	Part number
4	**EPB4**
5	**EPB5**
6	**EPB6**
8	**EPB8**
10	**EPB10**
12	**EPB12**
14	**EPB14**

☐ Most popular.

WBMPB Mixed Bulkhead Union



Tube 1 size (mm)	Tube 2 size (mm)	Bulkhead hole dia.	Part number
4	4	8mm	**WBMPB4**
6	6	10mm	**WBMPB6**
8	8	12mm	**WBMPB8**
10	10	14mm	**WBMPB10**
12	12	16mm	**WBMPB12**
14	14	18mm	**WBMPB14**

WPB Bulkhead Union



Tube Size (mm)	Bulkhead hole dia.	Part number
4	11mm	**WPB4**
6	13mm	**WPB6**
8	16mm	**WPB8**
10	18mm	**WPB10**
12	23mm	**WPB12**
14	24mm	**WPB14**

Jam nut is supplied loose in box

WE6PB Adjustable Bulkhead Union Elbow



Tube Size (mm)	Bulkhead hole dia.	Part number
4	11mm	**WE6PB4**
6	13mm	**WE6PB6**
8	15mm	**WE6PB8**
10	18mm	**WE6PB10**
12	23mm	**WE6PB12**

G4PB Female Connector BSPP



Tube size (mm)	BSPP	Part number
4	1/8	**G4PB4-1/8**
6	1/8	**G4PB6-1/8**
6	1/4	**G4PB6-1/4**
8	1/8	**G4PB8-1/8**
8	1/4	**G4PB8-1/4**

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WG4PB Bulkhead Union Female BSPP



Tube size (mm)	BSPP	Part number
4	G1/8	**WG4PB4-1/8**
6	G1/8	**WG4PB6-1/8**
6	G1/4	**WG4PB6-1/4**
8	G1/8	**WG4PB8-1/8**
8	G1/4	**WG4PB8-1/4**
10	G3/8	**WG4PB10-3/8**
12	G3/8	**WG4PB12-3/8**
12	G1/2	**WG4PB12-1/2**

C64PB Adjustable Male Elbow BSPP



Tube size (mm)	BSPP	Part number
4	1/8	**C64PB4-1/8**
4	1/4	**C64PB4-1/4**
6	1/8	**C64PB6-1/8**
6	1/4	**C64PB6-1/4**
8	1/8	**C64PB8-1/8**
8	1/4	**C64PB8-1/4**
8	3/8	**C64PB8-3/8**
10	1/4	**C64PB10-1/4**
10	3/8	**C64PB10-3/8**
12	1/4	**C64PB12-1/4**
12	3/8	**C64PB12-3/8**
12	1/2	**C64PB12-1/2**
14	3/8	**C64PB14-3/8**
14	1/2	**C64PB14-1/2**

C64SPB Compact Adjustable Male Elbow BSPP



Tube size (mm)	BSPP	Part number
4	1/8	**C64SPB4-1/8**
6	1/8	**C64SPB6-1/8**
6	1/4	**C64SPB6-1/4**
8	1/8	**C64SPB8-1/8**
8	1/4	**C64SPB8-1/4**
8	3/8	**C64SPB8-3/8**
10	1/4	**C64SPB10-1/4**
10	3/8	**C64SPB10-3/8**
12	1/8	**C64SPB12-1/4**
12	3/8	**C64SPB12-3/8**
12	1/2	**C64SPB12-1/2**

☐ Most popular.

F4PB Compact Male Connector BSPP



Tube size (mm)	BSPP	Part number
4	1/8	**F4PB4-1/8**
4	1/4	**F4PB4-1/4**
6	1/8	**F4PB6-1/8**
6	1/4	**F4PB6-1/4**
8	1/4	**F4PB8-1/4**
8	1/8	**F4PB8-1/8**
8	3/8	**F4PB8-3/8**
10	1/4	**F4PB10-1/4**
10	3/8	**F4PB10-3/8**
10	1/2	**F4PB10-1/2**
12	1/4	**F4PB12-1/4**
12	3/8	**F4PB12-3/8**
12	1/2	**F4PB12-1/2**
14	3/8	**F4PB14-3/8**
14	1/2	**F4PB14-1/2**

R64PB Swivel Male Branch Run Tee BSPP



Tube size (mm)	BSPP	Part number
4	1/8	**R64PB4-1/8**
4	1/4	**R64PB4-1/4**
6	1/8	**R64PB6-1/8**
6	1/4	**R64PB6-1/4**
8	1/8	**R64PB8-1/8**
8	1/4	**R64PB8-1/4**
8	3/8	**R64PB8-3/8**
10	1/4	**R64PB10-1/4**
10	3/8	**R64PB10-3/8**
12	1/4	**R64PB12-1/4**
12	3/8	**R64PB12-3/8**
14	3/8	**R64PB14-3/8**
14	1/2	**R64PB14-1/2**

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S64PB Swivel Male Branch Tee BSPP



Tube size (mm)	BSPP	Part number
4	1/8	**S64PB4-1/8**
4	1/4	**S64PB4-1/4**
6	1/8	**S64PB6-1/8**
6	1/4	**S64PB6-1/4**
8	1/8	**S64PB8-1/8**
8	1/4	**S64PB8-1/4**
8	3/8	**S64PB8-3/8**
10	1/4	**S64PB10-1/4**
10	3/8	**S64PB10-3/8**
12	1/4	**S64PB12-1/4**
12	3/8	**S64PB12-3/8**
14	3/8	**S64PB14-3/8**
14	1/2	**S64PB14-1/2**

C68PB Adjustable Male Elbow Metric Straight Thread



Tube size (mm)	Thread (mm)	Part number
4	M5x0.8	**C68PB4M5**
6	M5x0.8	**C68PB6M5**

C68SPB Compact Adjustable Male Elbow Metric Straight Thread



Tube size (mm)	Thread (mm)	Part number
4	M5x0.8	**C68SPB4M5**
6	M5x0.8	**C68SPB6M5**

F28PB Male Connector Metric Straight Thread



Tube size (mm)	Thread (mm)	Part number
4	M3x0.5	**F28PB4M3**
4	M5x0.8	**F28PB4M5**
6	M5x0.8	**F28PB6M5**

This fitting has been designed for use where space is at a premium. It is assembled using the internal hexagon and an allen key.

F8PB Male Connector Metric Straight Thread



Tube size (mm)	Thread (mm)	Part number
4	M5x0.8	**F8PB4M5**
4	M10x1	**F8PB4M10**
6	M5x0.8	**F8PB6M5**
6	M10x1	**F8PB6M10**
6	M12x1.5	**F8PB6M12**
8	M12x1.5	**F8PB8M12**
8	M16x1.5	**F8PB8M16**
8	M22x1.5	**F8PB8M22**

☐ Most popular.

R68PB Adjustable Male Run Tee Metric Straight Thread



Tube size (mm)	Thread (mm)	Part number
4	M3x0.5	**R68PB4M3**
4	M5x0.8	**R68PB4M5**
6	M5x0.8	**R68PB6M5**

S68PB Adjustable Male Branch Tee Metric Straight Thread



Tube size (mm)	Thread (mm)	Part number
4	M3x0.5	**S68PB4M3**
4	M5x0.8	**S68PB4M5**
6	M5x0.8	**S68PB6M5**

FNPB Plug



Tube size (mm)	Part number
4	**FNPB4**
6	**FNPB6**
8	**FNPB8**
10	**FNPB10**
12	**FNPB12**
14	**FNPB14**

TEPB Tube End Expander



Tube 1 Size (mm)	Tube 2 Size (mm)	Part number
4	6	TEPB4-6

TRPB Tube End Reducer



Tube 1 size (mm)	Tube 2 size (mm)	Part number
6	4	**TRPB6-4**
8	4	**TRPB8-4**
8	6	**TRPB8-6**
10	4	**TRPB10-4**
10	6	**TRPB10-6**
10	8	**TRPB10-8**
12	6	**TRPB12-6**
12	8	**TRPB12-8**
12	10	**TRPB12-10**
14	8	**TRPB14-8**
14	10	**TRPB14-10**
14	12	**TRPB14-12**

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207ACBH Anchor Coupling



Female pipe thread	Straight thread	Max. bulkhead	Part number
1/8	5/8-18	.89	**207ACBH-2**
1/8	5/8-18	.35	**207ACBHS-2**
1/4	3/4-16	.81	**207ACBH-4**
1/4	3/4-16	.26	**207ACBHS-4**
3/8	1-14	.62	**207ACBH-6**
1/2	1-1/8-14	.75	**207ACBH-8**
3/4	1-5/16-12	.65	**207ACBH-12**
1	1-5/8-14	1.00	**207ACBH-16***

*Lock washer not available

207P Coupling



Pipe thread	C Hex	Part number
1/8	9/16	**207P-2**
1/4	3/4	**207P-4**
3/8	7/8	**207P-6**
1/2	1-1/16	**207P-8**
3/4	1-3/8	**207P-12**

208P Reducer Coupling



1 Pipe thread	2 Pipe thread	C Hex	Part number
1/4	1/8	3/4	**208P-4-2**
3/8	1/4	7/8	**208P-6-4**
1/2	1/4	1-1/16	**208P-8-4**
1/2	3/8	1-1/16	**208P-8-6**
3/4	3/8	1-3/8	**208P-12-6**
3/4	1/2	1-3/8	**208P-12-8**

209P Bushing



1 Pipe thread	2 Pipe thread	C Hex	Part number
1/8	1/4	9/16	**209P-4-2**
1/8	3/8	11/16	**209P-6-2**
1/4	3/8	3/4	**209P-6-4**
1/8	1/2	7/8	**209P-8-2**
1/4	1/2	7/8	**209P-8-4**
3/8	1/2	7/8	**209P-8-6**
1/8	3/4	1-1/8	**209P-12-2**
1/4	3/4	1-1/8	**209P-12-4**
3/8	3/4	1-1/8	**209P-12-6**
1/2	3/4	1-1/8	**209P-12-8**
1/2	1	1-3/8	**209P-16-8**
3/4	1	1-3/8	**209P-16-12**

210P Lock Nut



Pipe thread	C Hex	Part number
1/8 NPSL	11/16	**210P-2**
1/4 NPSL	7/8	**210P-4**
3/8 NPSL	1	**210P-6**
1/2 NPSL	1-1/8	**210P-8**

211P Square-Head Plug



Pipe thread	Part number
1/8	**211P-2**
1/4	**211P-4**
3/8	**211P-6**
1/2	**211P-8**
3/4	**211P-12**

212P Union



Pipe thread	C Hex	Part number
1/4	1-3/16	**212P-4**
3/8	1-1/4	**212P-6**

213P Cap



Pipe thread	C Hex	Part number
1/8	9/16	**213P-2**
1/4	11/16	**213P-4**
3/8	13/16	**213P-6**
1/2	1-1/16	**213P-8**
3/4	1-1/4	**213P-12**

215PN Close Nipple



Pipe thread	Part number
1/8	**215PN-2**
1/4	**215PN-4**
3/8	**215PN-6**
1/2	**215PN-8**
3/4	**215PN-12**

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215PNL Long Nipple



Pipe thread	Part number
1/8	**215PNL-2-15**
1/4	**215PNL-4-15**
3/8	**215PNL-6-15**
1/2	**215PNL-8-15**
1/8	**215PNL-2-20**
1/4	**215PNL-4-20**
3/8	**215PNL-6-20**
1/2	**215PNL-8-20**
1/8	**215PNL-2-25**
1/4	**215PNL-4-25**
3/8	**215PNL-6-25**
1/2	**215PNL-8-25**
1/8	**215PNL-2-30**
1/4	**215PNL-4-30**
3/8	**215PNL-6-30**
1/2	**215PNL-8-30**
1/8	**215PNL-2-35**
1/4	**215PNL-4-35**
3/8	**215PNL-6-35**
1/2	**215PNL-8-35**

216P Hex Nipple



Pipe thread	C Hex	Part number
1/8	7/16	**216P-2**
1/4	9/16	**216P-4**
3/8	11/16	**216P-6**
1/2	7/8	**216P-8**
3/4	1-1/16	**216P-12**

218P Hex-Head Plug



Pipe thread	C Hex	Part number
1/8	7/16	**218P-2**
1/4	9/16	**218P-4**
3/8	11/16	**218P-6**
1/2	7/8	**218P-8**
3/4	1-1/16	**218P-12**

219P Countersunk Hex-Head Plug



Pipe thread	C Hex	Part number
1/8	3/16	**219P-2**
1/4	1/4	**219P-4**
3/8	5/16	**219P-6**
1/2	3/8	**219P-8**
3/4	9/16	**219P-12**

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220P Slotted-Head Plug



Pipe thread	Part number
1/8	**220P-2**
1/4	**220P-4**
3/8	**220P-6**

222P Adapter



1 Pipe thread	2 Pipe thread	C Hex	Part number
1/8	1/8	9/16	**222P-2-2**
1/4	1/8	3/4	**222P-4-2**
1/4	1/4	3/4	**222P-4-4**
3/8	1/8	7/8	**222P-6-2**
3/8	1/4	7/8	**222P-6-4**
3/8	3/8	7/8	**222P-6-6**
1/2	1/4	1	**222P-8-4**
1/2	3/8	1-1/16	**222P-8-6**
1/2	1/2	1-1/16	**222P-8-8**
3/4	3/8	1-3/8	**222P-12-6**
3/4	1/2	1-3/8	**222P-12-8**
3/4	3/4	1-3/8	**222P-12-12**

1200P-2200P 90° Union Elbow



Pipe thread	Part number
1/8	**1200P-2-2**
1/8	**2200P-2-2**
1/4	**1200P-4-4**
1/4	**2200P-4-4**
3/8	**1200P-6-6**
3/8	**2200P-6-6**
1/2	**2200P-8-8**

1202P-2202P 90° Street Elbow



1 Pipe thread	2 Pipe thread	Part number
1/8	1/8	**1202P-2-2**
1/8	1/8	**2202P-2-2**
1/8	1/8	**2202PA-2-2***
1/4	1/8	**2202P-4-2**
1/4	1/4	**1202P-4-4**
1/4	1/4	**2202P-4-4**
1/4	1/4	**2202PA-4-4***
1/4	3/8	**2202P-4-6**
3/8	1/4	**1202P-6-4**
3/8	3/8	**1202P-6-6**
3/8	3/8	**2202P-6-6**
3/8	3/8	**2202PA-6-6***

*Meets SAE Dimensions

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1203P-2203P Union Tee



Pipe thread	Part number
1/8	**1203P-2**
1/8	**2203P-2**
1/4	**1203P-4**
1/4	**2203P-4**
3/8	**2203P-6**
1/2	**1203P-8**
1/2	**2203P-8**
3/4	**2203P-12**

1204P Male Elbow



Pipe thread	Part number
1/8	**1204P-2**
1/4	**1204P-4**
3/8	**1204P-6**
1/2	**1204P-8**

2224P Male Branch Tee



Pipe thread	Part number
1/8	**2224P-2**
1/4	**2224P-4**
3/8	**2224P-6**
1/2	**2224P-8**
3/4	**2224P-12**

2225P Street Tee



Pipe thread	Part number
1/8	**2225P-2**
1/4	**2225P-4**
3/8	**2225P-6**
1/2	**2225P-8**
3/4	**2225P-12**

1201P-2201P 45° Female Elbow



1201P



2201P

Pipe thread	Part number
1/8	**2201P-2-2**
1/2	**1201P-8-8**

2205P Cross



Pipe thread	Part number
1/8	**2205P-2**
1/4	**2205P-4**
3/8	**2205P-6**
1/2	**2205P-8**
3/4	**2205P-12**

2214P 45° Street Elbow



Pipe thread	Part number
1/8	**2214P-2-2**
1/4	**2214P-4-4**
3/8	**2214P-6-6**
1/2	**2214P-8-8**

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DD44 Pipe 90° Elbow BSPP



BSPP	C Hex	Part number
1/8	14	**1/8DD44B**
1/4	17	**1/4DD44B**
3/8	22	**3/8DD44B**
1/2	27	**1/2DD44B**

FF44 Pipe Nipples BSPP



BSPP	C Hex	Part number
1/8	14	**1/8FF44B**
1/4	17	**1/4FF44B**
3/8	22	**3/8FF44B**
1/2	27	**1/2FF44B**

FHG4 Adapter Male NPTF BSPP



BSPP 1	NPTF 2	C Hex	Part number
1/8	1/8	0.562	**1/8FHG4-B**
1/4	1/4	0.750	**1/4FHG4-B**
3/8	3/8	0.875	**3/8FHG4-B**
1/2	1/2	1.062	**1/2FHG4-B**

GG44 Pipe Connector BSPP



BSPP	C Hex	Part number
1/8	14	**1/8GG44B**
1/4	17	**1/4GG44B**
3/8	22	**3/8GG44B**
1/2	27	**1/2GG44B**
3/4	32	**3/4GG44B**
1	41	**1GG44B**

KMMOO4 Pipe Cross BSPP



BSPP	C Hex	Part number
1/8	14	**1/8KMMOO4B**
1/4	17	**1/4KMMOO4B**
3/8	22	**3/8KMMOO4B**
1/2	27	**1/2KMMOO4B**

MMO444 Pipe Tee BSPP



BSPP	C Hex	Part number
1/8	14	**1/8MMO444B**
1/4	17	**1/4MMO444B**
3/8	22	**3/8MMO444B**
1/2	27	**1/2MMO444B**
3/4	32	**3/4MMO444B**
1	40	**1MMO444B**

WGG44 Bulkhead Female Union BSPP



BSPP	Straight thread	C Hex	Part number
1/8	M16x1.5	19	**1/8WGG44B**
1/4	M20x1.5	24	**1/4WGG44B**
3/8	M23x1.5	27	**3/8WGG44B**
1/2	M27x1.5	32	**1/2WGG44B**
3/4	M34x1.5	41	**3/4WGG44B**
1	M45x2	55	**1WGG44B**

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Safety Guide For Selecting And Using Pneumatic Division Products And Related Accessories

⚠ WARNING:

FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF PNEUMATIC DIVISION PRODUCTS, ASSEMBLIES OR RELATED ITEMS ("PRODUCTS") CAN CAUSE DEATH, PERSONAL INJURY, AND PROPERTY DAMAGE. POSSIBLE CONSEQUENCES OF FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THESE PRODUCTS INCLUDE BUT ARE NOT LIMITED TO:

- Unintended or mistimed cycling or motion of machine members or failure to cycle
- Work pieces or component parts being thrown off at high speeds.
- Failure of a device to function properly for example, failure to clamp or unclamp an associated item or device.
- Explosion
- Suddenly moving or falling objects.
- Release of toxic or otherwise injurious liquids or gasses.

Before selecting or using any of these Products, it is important that you read and follow the instructions below.

1. GENERAL INSTRUCTIONS

1.1. Scope: This safety guide is designed to cover general guidelines on the installation, use, and maintenance of Pneumatic Division Valves, FRLs (Filters, Pressure Regulators, and Lubricators), Vacuum products and related accessory components.

1.2. Fail-Safe: Valves, FRLs, Vacuum products and their related components can and do fail without warning for many reasons. Design all systems and equipment in a fail-safe mode, so that failure of associated valves, FRLs or Vacuum products will not endanger persons or property.

1.3 Relevant International Standards: For a good guide to the application of a broad spectrum of pneumatic fluid power devices see: ISO 4414:1998, Pneumatic Fluid Power – General Rules Relating to Systems. See www.iso.org for ordering information.

1.4. Distribution: Provide a copy of this safety guide to each person that is responsible for selection, installation, or use of Valves, FRLs or Vacuum products. Do not select, or use Parker valves, FRLs or vacuum products without thoroughly reading and understanding this safety guide as well as the specific Parker publications for the products considered or selected.

1.5. User Responsibility: Due to the wide variety of operating conditions and applications for valves, FRLs, and vacuum products Parker and its distributors do not represent or warrant that any particular valve, FRL or vacuum product is suitable for any specific end use system. This safety guide does not analyze all technical parameters that must be considered in selecting a product. The user, through its own analysis and testing, is solely responsible for:

- Making the final selection of the appropriate valve, FRL, Vacuum component, or accessory.
- Assuring that all user's performance, endurance, maintenance, safety, and warning requirements are met and that the application presents no health or safety hazards.
- Complying with all existing warning labels and / or providing all appropriate health and safety warnings on the equipment on which the valves, FRLs or Vacuum products are used; and,
- Assuring compliance with all applicable government and industry standards.

1.6. Safety Devices: Safety devices should not be removed, or defeated.

1.7. Warning Labels: Warning labels should not be removed, painted over or otherwise obscured.

1.8. 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, or call 1-800-CPARKER, or go to www.parker.com, for telephone numbers of the appropriate technical service department.

2. PRODUCT SELECTION INSTRUCTIONS

2.1. Flow Rate: The flow rate requirements of a system are frequently the primary consideration when designing any pneumatic system. System components need to be able to provide adequate flow and pressure for the desired application.

2.2. Pressure Rating: Never exceed the rated pressure of a product. Consult product labeling, Pneumatic Division catalogs or the instruction sheets supplied for maximum pressure ratings.

2.3. Temperature Rating: Never exceed the temperature rating of a product. Excessive heat can shorten the life expectancy of a product and result in complete product failure.

2.4. Environment: Many environmental conditions can affect the integrity and suitability of a product for a given application. Pneumatic Division products are designed for use in general purpose industrial applications. If these products are to be used in unusual circumstances such as direct sunlight and/or corrosive or caustic environments, such use can shorten the useful life and lead to premature failure of a product.

2.5. Lubrication and Compressor Carryover: Some modern synthetic oils can and will attack nitrile seals. If there is any possibility of synthetic oils or greases migrating into the pneumatic components check for compatibility with the seal materials used. Consult the factory or product literature for materials of construction.

2.6. Polycarbonate Bowls and Sight Glasses: To avoid potential polycarbonate bowl failures:

- Do not locate polycarbonate bowls or sight glasses in areas where they could be subject to direct sunlight, impact blow, or temperatures outside of the rated range.
- Do not expose or clean polycarbonate bowls with detergents, chlorinated hydro-carbons, keytones, esters or certain alcohols.
- Do not use polycarbonate bowls or sight glasses in air systems where compressors are lubricated with fire resistant fluids such as phosphate ester and di-ester lubricants.

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2.7. Chemical Compatibility: For more information on plastic component chemical compatibility see Pneumatic Division technical bulletins Tec-3, Tec-4, and Tec-5

2.8. Product Rupture: Product rupture can cause death, serious personal injury, and property damage.
- Do not connect pressure regulators or other Pneumatic Division products to bottled gas cylinders.
- Do not exceed the maximum primary pressure rating of any pressure regulator or any system component.
- Consult product labeling or product literature for pressure rating limitations.

3. PRODUCT ASSEMBLY AND INSTALLATION INSTRUCTIONS

3.1. Component Inspection: Prior to assembly or installation a careful examination of the valves, FRLs or vacuum products must be performed. All components must be checked for correct style, size, and catalog number. DO NOT use any component that displays any signs of nonconformance.

3.2. Installation Instructions: Parker published Installation Instructions must be followed for installation of Parker valves, FRLs and vacuum components. These instructions are provided with every Parker valve or FRL sold, or by calling 1-800-CPARKER, or at www.parker.com.

3.3. Air Supply: The air supply or control medium supplied to Valves, FRLs and Vacuum components must be moisture-free if ambient temperature can drop below freezing

4. VALVE AND FRL MAINTENANCE AND REPLACEMENT INSTRUCTIONS

4.1. Maintenance: Even with proper selection and installation, valve, FRL and vacuum products service life may be significantly reduced without a continuing maintenance program. The severity of the application, risk potential from a component failure, and experience with any known failures in the application or in similar applications should determine the frequency of inspections and the servicing or replacement of Pneumatic Division products so that products are replaced before any failure occurs. A maintenance program must be established and followed by the user and, at minimum, must include instructions 4.2 through 4.10.

4.2. Installation and Service Instructions: Before attempting to service or replace any worn or damaged parts consult the appropriate Service Bulletin for the valve or FRL in question for the appropriate practices to service the unit in question. These Service and Installation Instructions are provided with every Parker valve and FRL sold, or are available by calling 1-800-CPARKER, or by accessing the Parker web site at www.parker.com.

4.3. Lockout / Tagout Procedures: Be sure to follow all required lockout and tagout procedures when servicing equipment. For more information see: OSHA Standard – 29 CFR, Part 1910.147, Appendix A, The Control of Hazardous Energy – (Lockout / Tagout)

4.4. Visual Inspection: Any of the following conditions requires immediate system shut down and replacement of worn or damaged components:
- Air leakage: Look and listen to see if there are any signs of visual damage to any of the components in the system. Leakage is an indication of worn or damaged components.
- Damaged or degraded components: Look to see if there are any visible signs of wear or component degradation.
- Kinked, crushed, or damaged hoses. Kinked hoses can result in restricted air flow and lead to unpredictable system behavior.
- Any observed improper system or component function: Immediately shut down the system and correct malfunction.
- Excessive dirt build-up: Dirt and clutter can mask potentially hazardous situations.

Caution: Leak detection solutions should be rinsed off after use.

4.5. Routine Maintenance Issues:
- Remove excessive dirt, grime and clutter from work areas.
- Make sure all required guards and shields are in place.

4.6. Functional Test: Before initiating automatic operation, operate the system manually to make sure all required functions operate properly and safely.

4.7. Service or Replacement Intervals: It is the user's responsibility to establish appropriate service intervals. Valves, FRLs and vacuum products contain components that age, harden, wear, and otherwise deteriorate over time. Environmental conditions can significantly accelerate this process. Valves, FRLs and vacuum components need to be serviced or replaced on routine intervals. Service intervals need to be established based on:
- Previous performance experiences.
- Government and / or industrial standards.
- When failures could result in unacceptable down time, equipment damage or personal injury risk.

4.8. Servicing or Replacing of any Worn or Damaged Parts: To avoid unpredictable system behavior that can cause death, personal injury and property damage:
- Follow all government, state and local safety and servicing practices prior to service including but not limited to all OSHA Lockout Tagout procedures (OSHA Standard – 29 CFR, Part 1910.147, Appendix A, The Control of Hazardous Energy – Lockout / Tagout).
- Disconnect electrical supply (when necessary) before installation, servicing, or conversion.
- Disconnect air supply and depressurize all air lines connected to system and Pneumatic Division products before installation, service, or conversion.
- Installation, servicing, and / or conversion of these products must be performed by knowledgeable personnel who understand how pneumatic products are to be applied.
- After installation, servicing, or conversions air and electrica supplies (when necessary) should be connected and the product tested for proper function and leakage. If audible leakage is present, or if the product does not operate properly, do not put product or system into use.
- Warnings and specifications on the product should not be covered or painted over. If masking is not possible, contact your local representative for replacement labels.

4.9. Putting Serviced System Back into Operation: Follow the guidelines above and all relevant Installation and Maintenance Instructions supplied with the valve FRL or vacuum component to insure proper function of the system.

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1. Terms and Conditions. Seller's willingness to offer Products, or accept an order for Products, to or from Buyer is subject to these Terms and Conditions or any newer version of the terms and conditions found on-line at www.parker.com/saleterms/. Seller objects to any contrary or additional terms or conditions of Buyer's order or any other document issued by Buyer.

2. Price Adjustments; Payments. Prices stated on Seller's quote or other documentation offered by Seller are valid for 30 days, and do not include any sales, use, or other taxes unless specifically stated, Unless otherwise specified by Seller, all prices are F.C.A. Seller's facility (INCOTERMS 2010). Payment is subject to credit approval and is due 30 days from the date of invoice or such other term as required by Seller's Credit Department, after which Buyer shall pay interest on any unpaid invoices at the rate of 1.5% per month or the maximum allowable rate under applicable law.

3. Delivery Dates; Title and Risk; Shipment. All delivery dates are approximate and Seller shall not be responsible for any damages resulting from any delay. Regardless of the manner of shipment, title to any products and risk of loss or damage shall pass to Buyer upon placement of the products with the shipment carrier at Seller's facility. Unless otherwise stated, Seller may exercise its judgment in choosing the carrier and means of delivery. No deferment of shipment at Buyers' request beyond the respective dates indicated will be made except on terms that will indemnify, defend and hold Seller harmless against all loss and additional expense. Buyer shall be responsible for any additional shipping charges incurred by Seller due to Buyer's acts or omissions.

4. Warranty. Seller warrants that the Products sold hereunder shall be free from defects in material or workmanship for a period of twelve months from the date of delivery to Buyer or 2,000 hours of normal use, whichever occurs first. The prices charged for Seller's products are based upon the exclusive limited warranty stated above, and upon the following disclaimer: **DISCLAIMER OF WARRANTY: THIS WARRANTY COMPRISES THE SOLE AND ENTIRE WARRANTY PERTAINING TO PRODUCTS PROVIDED HEREUNDER. SELLER DISCLAIMS ALL OTHER WARRANTIES, EXPRESS AND IMPLIED, INCLUDING DESIGN, MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.**

5. Claims; Commencement of Actions. Buyer shall promptly inspect all Products upon delivery. No claims for shortages will be allowed unless reported to the Seller within 10 days of delivery. No other claims against Seller will be allowed unless asserted in writing within 30 days after delivery. Buyer shall notify Seller of any alleged breach of warranty within 30 days after the date the defect is or should have been discovered by Buyer. Any action based upon breach of this agreement or upon any other claim arising out of this sale (other than an action by Seller for an amount due on any invoice) must be commenced within 12 months from the date of the breach without regard to the date breach is discovered.

6. LIMITATION OF LIABILITY. UPON NOTIFICATION, SELLER WILL, AT ITS OPTION, REPAIR OR REPLACE A DEFECTIVE PRODUCT, OR REFUND THE PURCHASE PRICE. **IN NO EVENT SHALL SELLER BE LIABLE TO BUYER FOR ANY SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF, OR AS THE RESULT OF, THE SALE, DELIVERY, NON-DELIVERY, SERVICING, USE OR LOSS OF USE OF THE PRODUCTS OR ANY PART THEREOF, OR FOR ANY CHARGES OR EXPENSES OF ANY NATURE INCURRED WITHOUT SELLER'S WRITTEN CONSENT, EVEN IF SELLER HAS BEEN NEGLIGENT, WHETHER IN CONTRACT, TORT OR OTHER LEGAL THEORY. IN NO EVENT SHALL SELLER'S LIABILITY UNDER ANY CLAIM MADE BY BUYER EXCEED THE PURCHASE PRICE OF THE PRODUCTS.**

7. User Responsibility. The user, through its own analysis and testing, is solely responsible for making the final selection of the system and Product and assuring that all performance, endurance, maintenance, safety and warning requirements of the application are met. The user must analyze all aspects of the application and follow applicable industry standards and Product information. If Seller provides Product or system options, the user is responsible for determining that such data and specifications are suitable and sufficient for all applications and reasonably foreseeable uses of the Products or systems.

8. Loss to Buyer's Property. Any designs, tools, patterns, materials, drawings, confidential information or equipment furnished by Buyer or any other items which become Buyer's property, may be considered obsolete and may be destroyed by Seller after two consecutive years have elapsed without Buyer ordering the items manufactured using such property. Seller shall not be responsible for any loss or damage to such property while it is in Seller's possession or control.

9. Special Tooling. A tooling charge may be imposed for any special tooling, including without limitation, dies, fixtures, molds and patterns, acquired to manufacture Products. Such special tooling shall be and remain Seller's property notwithstanding payment of any charges by Buyer. In no event will Buyer acquire any interest in apparatus belonging to Seller which is utilized in the manufacture of the Products, even if such apparatus has been specially converted or adapted for such manufacture and notwithstanding any charges paid by Buyer. Unless otherwise agreed, Seller shall have the right to alter, discard or otherwise dispose of any special tooling or other property in its sole discretion at any time.

10. Buyer's Obligation; Rights of Seller. To secure payment of all sums due or otherwise, Seller shall retain a security interest in the goods delivered and this agreement shall be deemed a Security Agreement under the Uniform Commercial Code. Buyer authorizes Seller as its attorney to execute and file on Buyer's behalf all documents Seller deems necessary to perfect its security interest.

11. Improper use and Indemnity. Buyer shall indemnify, defend, and hold Seller harmless from any claim, liability, damages, lawsuits, and costs (including attorney fees), whether for personal injury, property damage, patent, trademark or copyright infringement or any other claim, brought by or incurred by Buyer, Buyer's employees, or any other person, arising out of: (a) improper selection, improper application or other misuse of Products purchased by Buyer from Seller; (b) any act or omission, negligent or otherwise, of Buyer; (c) Seller's use of patterns, plans, drawings, or specifications furnished by Buyer to manufacture Product; or (d) Buyer's failure to comply with these terms and conditions. Seller shall not indemnify Buyer under any circumstance except as otherwise provided.

12. Cancellations and Changes. Orders shall not be subject to cancellation or change by Buyer for any reason, except with Seller's written consent and upon terms that will indemnify, defend and hold Seller harmless against all direct, incidental and consequential loss or damage. Seller may change product features, specifications, designs and availability with notice to Buyer.

13. Limitation on Assignment. Buyer may not assign its rights or obligations under this agreement without the prior written consent of Seller.

14. Force Majeure. Seller does not assume the risk and shall not be liable for delay or failure to perform any of Seller's obligations by reason of circumstances beyond the reasonable control of Seller (hereinafter "Events of Force Majeure") Events of Force Majeure shall include without limitation: accidents, strikes or labor disputes, acts of any government or government agency, acts of nature, delays or failures in delivery from carriers or suppliers, shortages of materials, or any other cause beyond Seller's reasonable control.

15. Waiver and Severability. Failure to enforce any provision of this agreement will not waive that provision nor will any such failure prejudice Seller's right to enforce that provision in the future. Invalidation of any provision of this agreement by legislation or other rule of law shall not invalidate any other provision herein. The remaining provisions of this agreement will remain in full force and effect.

16. Termination. Seller may terminate this agreement for any reason and at any time by giving Buyer thirty (30) days written notice of termination. Seller may immediately terminate this agreement, in writing, if Buyer: (a) commits a breach of any provision of this agreement (b) appointments a trustee, receiver or custodian for all or any part of Buyer's property (c) files a petition for relief in bankruptcy on its own behalf, or by a third party (d) makes an assignment for the benefit of creditors, or (e) the dissolves or liquidates all or a majority of its assets.

17. Governing Law. This agreement and the sale and delivery of all Products hereunder shall be deemed to have taken place in and shall be governed and construed in accordance with the laws of the State of Ohio, as applicable to contracts executed and wholly performed therein and without regard to conflicts of laws principles. Buyer irrevocably agrees and consents to the exclusive jurisdiction and venue of the courts of Cuyahoga County, Ohio with respect to any dispute, controversy or claim arising out of or relating to this agreement.

18. Indemnity for Infringement of Intellectual Property Rights. Seller shall have no liability for infringement of any patents, trademarks, copyrights, trade dress, trade secrets or similar rights except as provided in this Section. Seller will defend and indemnify Buyer against allegations of infringement of U.S. patents, U.S. trademarks, copyrights, trade dress and trade secrets ("Intellectual Property Rights"). Seller will defend at its expense and will pay the cost of any settlement or damages awarded in an action brought against Buyer based on an allegation that a Product sold pursuant to this Agreement infringes the Intellectual Property Rights of a third party. Seller's obligation to defend and indemnify Buyer is contingent on Buyer notifying Seller within ten (10) days after Buyer becomes aware of such allegations of infringement, and Seller having sole control over the defense of any allegations or actions including all negotiations for settlement or compromise. If a Product is subject to a claim that it infringes the Intellectual Property Rights of a third party, Seller may, at its sole expense and option, procure for Buyer the right to continue using the Product, replace or modify the Product so as to make it noninfringing, or offer to accept return of the Product and return the purchase price less a reasonable allowance for depreciation. Notwithstanding the foregoing, Seller shall have no liability for claims of infringement based on information provided by Buyer, or directed to Products delivered hereunder for which the designs are specified in whole or part by Buyer, or infringements resulting from the modification, combination or use in a system of any Product sold hereunder. The foregoing provisions of this Section shall constitute Seller's sole and exclusive liability and Buyer's sole and exclusive remedy for infringement of Intellectual Property Rights.

19. Entire Agreement. This agreement contains the entire agreement between the Buyer and Seller and constitutes the final, complete and exclusive expression of the terms of sale. All prior or contemporaneous written or oral agreements or negotiations with respect to the subject matter are herein merged.

20. Compliance with Law, U. K. Bribery Act and U.S. Foreign Corrupt Practices Act. Buyer agrees to comply with all applicable laws and regulations, including both those of the United Kingdom and the United States of America, and of the country or countries of the Territory in which the Buyer may operate, including without limitation the U. K. Bribery Act, the U.S. Foreign Corrupt Practices Act ("FCPA") and the U.S. Anti-Kickback Act (the "Anti-Kickback Act"), and agrees to indemnify and hold harmless Seller from the consequences of any violation of such provisions by Buyer, its employees or agents. Buyer acknowledges that they are familiar with the provisions of the U. K. Bribery Act, the FCPA and the Anti-Kickback Act, and certifies that Buyer will adhere to the requirements thereof. In particular, Buyer represents and agrees that Buyer shall not make any payment or give anything of value, directly or indirectly to any governmental official, any foreign political party or official thereof, any candidate for foreign political office, or any commercial entity or person, for the purpose of influencing such person to purchase products or otherwise benefit the business of Seller.

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