



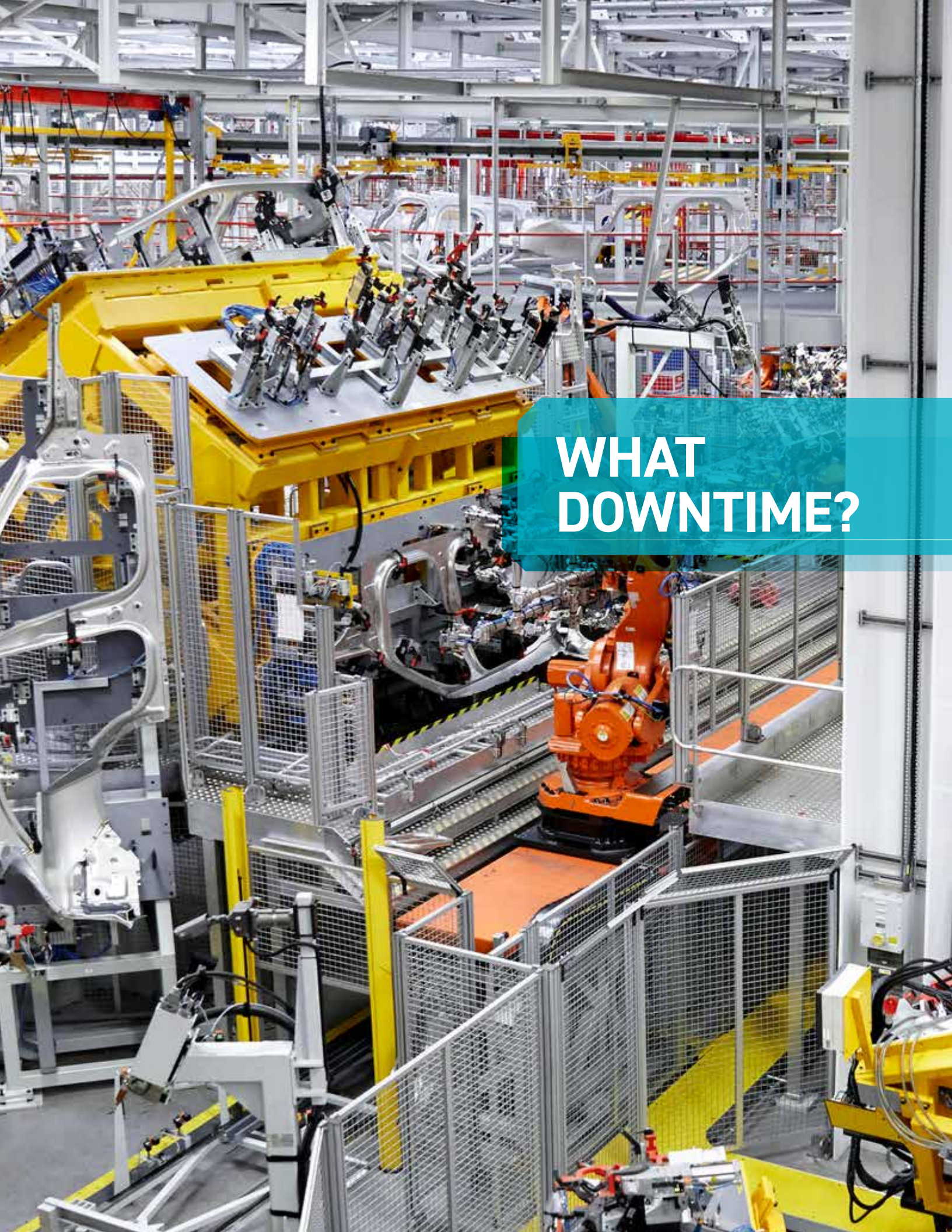
Robotic Welding Solutions

Fittings & Tubing That Meet UL94 V-0 Standard
for Flame Resistance

Bulletin 3501-RWS | May 2023



ENGINEERING YOUR SUCCESS.



WHAT DOWNTIME?



THE QUALITY OF YOUR CONNECTORS MAKES A DIFFERENCE

When a line or machine stops due to a defective part, the cost of the downtime is greater than the cost of all the connectors. That's why we guarantee the quality and traceability of every connector we sell. And why our products meet or exceed both national and international standards.

It's what keeps your employees safe, your lines and machines running, and your productivity high.

REACH ✓

FDA



RoHS
2002/95/EC

CE

NSF

DIN



ISO

SAE



UL

WRAS
APPROVED
PRODUCT

The Fitting You've Been Waiting For

An economical and robust metal fitting suited for welding and factory automation applications.



For years, the main options available for welding applications have been composite fittings, which have the propensity to break during installation, or metal fittings, known for their hefty price tag. Parker's PLP Metal Push-to-Connect Fittings are designed to provide a more robust connection than composite alternatives, without burning a hole in your budget like other metal fittings.

Parker has taken our classic PLP Metal Push-to-Connect fitting and innovated the design to meet the requirements of UL94-V0 flame resistance standards. Now available in both inch and metric tube diameters and NPTF, BSPT, and BSPP thread forms. Our PLP fitting is strong enough for weld applications and economical enough to be used in general pneumatic applications where composite fittings are not preferred. Parker's PLP fittings offer greater temperature and pressure ratings than competitive product and are also silicone-free, making them suitable for additional applications such as painting, blow molding, etc.. Most fitting manufacturers, both domestic and international, have different product offerings for weld and automation applications. With Parker PLP Metal, you'll have less skews to manage, reduced inventory, and a lower cost of ownership.

Sourcing fittings from international manufacturers also comes with additional headaches like tariffs and long lead times. These lead times can leave manufacturing and purchasing managers scrambling to find product quickly or even buying in bulk to avoid production delays, subsequently taking up valuable warehouse space and reducing cash flow. Parker PLP Metal fittings are manufactured in the United States at our Lakeview, Michigan facility and are readily available through our extensive distribution network.

Made in the USA

A quality product available when you need it

Durable

Dress a robot without the risk of breaking fittings during installation

Economical

A cost-competitive metal fitting that won't break the bank

Multiple Uses

Suited for weld and all general pneumatic applications

Less SKU's

Using one product line means managing fewer SKU's

Whether you're an OEM, weld integrator, manufacturing facility, or simply managing a tool crib, Parker's newly improved PLP Metal Push-to-Connect Fittings offer numerous benefits to save you time and money. Contact your nearest Parker Territory Manager or Distributor to learn more or request a sample.

WARNING These products can expose you to chemicals including LEAD which is known to the state of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.





PLP Metal Push-to-Connect Fittings

Prestolok PLP metal push-to-connect fittings offers a wide variety of configurations, allowing you to find the perfect product to meet your needs, optimizing the use of your equipment.

Product Features:

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

Markets:

- Industrial
- Automotive
- Climate Control
- Welding
- Robotic Welding

Compatible Media:

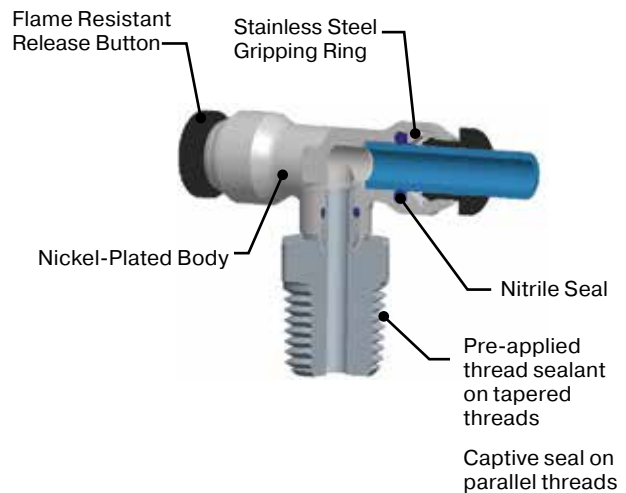
- Air
- Oil
- Inert Gases

Specifications:

Pressure Range	Up to 300 PSI (20.6 bar) depending on tubing
Temperature Range	0° to +200° F (-17.7° to 93.3° C)
Vacuum Rating	28" Hg
Note: Vacuum applications are dependent upon temperature and type of tubing used	

Compatible Tubing:

- 95FR Microweld
- Polyethylene
- Polypropylene
- Semi Rigid Nylon
- Rigid Nylon
- Polyurethane 95 Durometer Shore A



Assembly Instructions

1. Cut tubing squarely – maximum of 15° angle allowable.
2. Check that port or mating part is clean and free of debris.
3. Mark tubing to appropriate tube insertion length. (see Tube Insertion Chart on page 15)
4. Insert tubing until it bottoms
5. Pull on tubing to verify it is fully inserted
6. To disassemble, simply press release button, hold against body and pull tubing out of fitting.

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Inch

■ Threaded Fittings

66PLP

Female Connector – NPTF
p. 8



W68PLP

Male Connector – NPTF
p. 8



W169PLP

Male Elbow Swivel 90° – NPTF
p. 9



W171PLP

Male Run Tee Swivel – NPTF
p. 10



W172PLP

Male Branch Tee Swivel – NPTF
p. 10



■ Tube to Tube Fittings

62PLP

Union – Inch
p. 8



62PLP

Unequal Union – Inch
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164PLP

Union Tee – Inch
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165PLP

Union Elbow – Inch
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362PLP

Union Y (PVDF) – Inch
p. 10



■ Bulkhead Unions

62PLPBH

Bulkhead Union – Inch
p. 8



66PLPBH

Female Bulkhead Union – NPTF
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■ Plug-In Fittings

62PLPSP

Tube Expander – Inch
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67PLP

Tube Reducer – Inch
p. 10



■ Accessories

TPL

Plug (PVDF) – Inch
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DB

Dust/Weld Spatter Boot
p. 10



PTC-001

Tube Cutter
p. 15



3000 70 00

Quick Release Tool
p. 15



3000 71 00

Tube Cutter
p. 15



95FR

MicroWeld Tubing
p. 17



PST

Skive Tool
p. 17



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Metric

Threaded Fittings

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Female Connector – BSPP
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68PLP

Male Connector – BSPP
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W68PLP

Male Connector – BSPT
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68PLPR

Round Male Connector – BSPP/M5
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169PLP

Male Elbow Swivel 90° – BSPP
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W169PLP

Male Elbow Swivel 90° – BSPT
p. 13



171PLP

Male Run Tee Swivel – BSPP
p. 13



W171PLP

Male Run Tee Swivel – BSPT
p. 13



172PLP

Male Branch Tee Swivel – BSPP
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W172PLP

Male Branch Tee Swivel – BSPT
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Tube to Tube Fittings

62PLP

Union – Metric
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62PLP

Unequal Union – Metric
p. 11



164PLP

Union Tee – Metric
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165PLP

Union Elbow – Metric
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362PLP

Union Y (PVDF) – Metric
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Bulkhead Unions

62PLPBH

Bulkhead Union – Metric
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66PLPBH

Female Bulkhead – BSPP
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Plug-In Fittings

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Tube Expander – Metric
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Tube Reducer – Metric
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Accessories

139PLP

Plug – Metric
p. 14



PTC-001

Tube Cutter
p. 15



3000 70 00

Quick Release Tool
p. 15



3000 71 00

Tube Cutter
p. 15



0139

Bi-Material Captive Sealing Washer BSPP
p. 15



95FR

MicroWeld Tubing
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PST

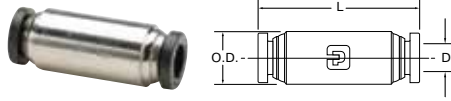
Skive Tool
p. 17



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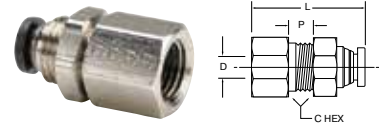


Inch



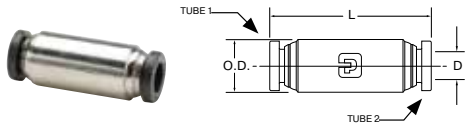
62PLP Union – Inch

PART NO.	TUBE SIZE IN	O.D.	L IN	FLOW DIA. D
62PLP-4	1/4	.500	1.43	.188
62PLP-6	3/8	.625	1.66	.312
62PLP-8	1/2	.750	1.82	.375



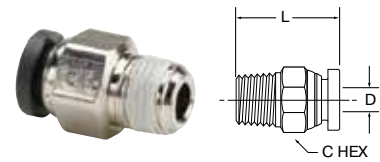
66PLPBH Female Bulkhead – NPTF

PART NO.	TUBE SIZE IN	PIPE THD NPTF	C HEX	P MAX.	L IN	FLOW DIA. D	BKHD HOLE DIA.
66PLPBH-4-4	1/4	1/4	11/16	.24	1.35	.188	9/16
66PLPBH-6-6	3/8	3/8	1	.22	1.47	.312	7/8
66PLPBH-8-6	1/2	3/8	1	.35	1.56	.344	7/8



62PLP Unequal Union – Inch

PART NO.	TUBE 1 SIZE IN	TUBE 2 SIZE IN	O.D.	L	FLOW DIA. D
62PLP-4-6	1/4	3/8	.625	1.66	.188
62PLP-6-8	3/8	1/2	.750	1.82	.312



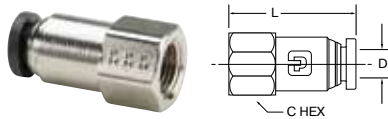
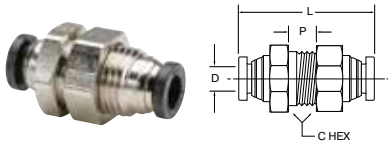
W68PLP Male Connector – NPTF

PART NO.	TUBE SIZE IN	PIPE THD NPTF	C HEX	L IN	FLOW DIA. D
68PLP-4-0*	1/4	10-32	1/2	.96	.094
W68PLP-4-1	1/4	1/16	1/2	1.07	.141
W68PLP-4-2	1/4	1/8	1/2	.89	.188
W68PLP-4-4	1/4	1/4	9/16	1.00	.188
W68PLP-4-6	1/4	3/8	3/4	1.04	.188
W68PLP-6-2	3/8	1/8	5/8	1.21	.250
W68PLP-6-4	3/8	1/4	5/8	1.08	.312
W68PLP-6-6	3/8	3/8	11/16	1.02	.312
W68PLP-6-8	3/8	1/2	7/8	1.28	.312
W68PLP-8-4	1/2	1/4	13/16	1.44	.344
W68PLP-8-6	1/2	3/8	13/16	1.24	.344
W68PLP-8-8	1/2	1/2	7/8	1.35	.375

*10-32 seal is neoprene

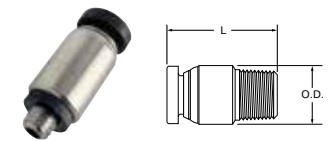
62PLPBH Bulkhead Union – Inch

PART NO.	TUBE SIZE IN	BULKHEAD HOLE DIA. B	C HEX	P MAX.	L IN	D IN
62PLPBH-4	1/4	9/16	11/16	.29	1.43	.188
62PLPBH-5	5/16	5/8	3/4	.60	1.65	.250
62PLPBH-6	3/8	3/4	7/8	.54	1.66	.312
62PLPBH-8	1/2	7/8	1	.66	2.04	.375



66PLP Female Connector – NPTF

PART NO.	TUBE SIZE IN	PIPE THREAD NPTF	C HEX	L	FLOW DIA. D
66PLP-4-2	1/4	1/8	9/16	1.17	.188
66PLP-4-4	1/4	1/4	11/16	1.38	.188
66PLP-6-4	3/8	1/4	11/16	1.46	.312
66PLP-6-6	3/8	3/8	13/16	1.51	.312



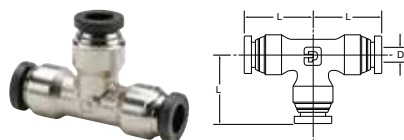
68PLPR Round Male Connector – NPTF/UNF

PART NO.	TUBE SIZE IN	THREAD SIZE NPTF	INTERNAL HEX BROACH	BODY DIA. O.D.	L	FLOW DIA.
68PLPR-4-0*	1/4	10-32	3/32	1/2	0.95	.094
W68PLPR-4-1	1/4	1/16	5/32	1/2	1.06	.156
W68PLPR-4-2	1/4	1/8	3/16	1/2	0.88	.188
W68PLPR-4-4	1/4	1/4	3/16	5/8	0.99	.188

*10-32 seal is neoprene

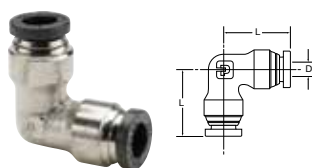
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Inch



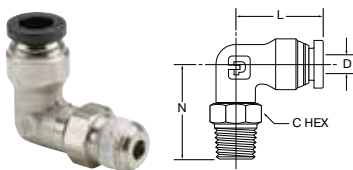
164PLP Union Tee – Inch

PART NO.	TUBE SIZE IN	L IN	FLOW DIA. D
164PLP-4	1/4	.85	.188
164PLP-6	3/8	1.01	.250
164PLP-8	1/2	1.15	.375



165PLP Union Elbow – Inch

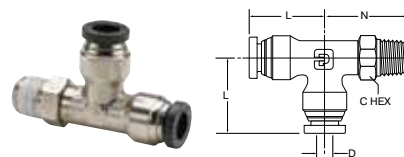
PART NO.	TUBE SIZE IN	L IN	FLOW DIA. D
165PLP-4	1/4	.85	.188
165PLP-6	3/8	1.01	.312
165PLP-8	1/2	1.15	.375



W169PLP Male Elbow Swivel 90° – NPTF

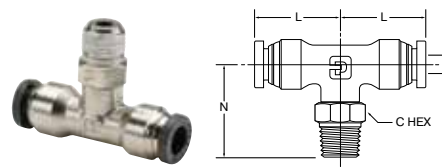
PART NO.	TUBE SIZE IN	PIPE THREAD NPTF	C HEX	L IN	N IN	FLOW DIA. D
169PLP-4-0*	1/4	10-32	3/8	.85	.74	.080
W169PLP-4-1	1/4	1/16	3/8	.84	.93	.160
W169PLP-4-2	1/4	1/8	7/16	.85	.92	.156
W169PLP-4-4	1/4	1/4	9/16	.85	1.10	.156
W169PLP-4-6	1/4	3/8	11/16	.85	1.19	.156
W169PLP-6-2	3/8	1/8	9/16	1.01	1.02	.250
W169PLP-6-4	3/8	1/4	9/16	1.01	1.24	.250
W169PLP-6-6	3/8	3/8	11/16	1.01	1.24	.250
W169PLP-6-8	3/8	1/2	7/8	1.01	1.48	.250
W169PLP-8-4	1/2	1/4	9/16	1.15	1.28	.312
W169PLP-8-6	1/2	3/8	11/16	1.15	1.31	.312
W169PLP-8-8	1/2	1/2	7/8	1.15	1.52	.312

*10-32 seal is neoprene



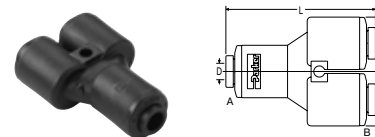
W171PLP Male Run Tee Swivel – NPTF

PART NO.	TUBE SIZE IN	PIPE THREAD NPTF	C HEX	L IN	N IN	FLOW DIA. D
W171PLP-4-2	1/4	1/8	7/16	.85	.92	.156
W171PLP-4-4	1/4	1/4	9/16	.85	1.10	.156
W171PLP-4-6	1/4	3/8	11/16	.85	1.24	.156
W171PLP-6-4	3/8	1/4	9/16	1.01	1.24	.250
W171PLP-6-6	3/8	3/8	11/16	1.01	1.24	.250
W171PLP-8-6	1/2	3/8	11/16	1.15	1.31	.312
W171PLP-8-8	1/2	1/2	7/8	1.15	1.52	.312



W172PLP Male Branch Tee Swivel – NPTF

PART NO.	TUBE SIZE IN	PIPE THREAD NPTF	C HEX	L IN	N IN	FLOW DIA. D
W172PLP-4-2	1/4	1/8	7/16	.85	.92	.156
W172PLP-4-4	1/4	1/4	9/16	.85	1.10	.156
W172PLP-4-6	1/4	3/8	11/16	.85	1.10	.156
W172PLP-6-4	3/8	1/4	9/16	1.01	1.24	.250
W172PLP-6-6	3/8	3/8	11/16	1.01	1.24	.250
W172PLP-6-8	3/8	1/2	7/8	1.00	1.48	.250
W172PLP-8-4	1/2	1/4	9/16	1.15	1.30	.312
W172PLP-8-6	1/2	3/8	11/16	1.15	1.31	.312
W172PLP-8-8	1/2	1/2	7/8	1.15	1.52	.312



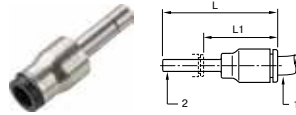
362PLP – Union Y (PVDF) – Inch

PART NO.	TUBE SIZE IN	TUBE SIZE IN	L IN	W IN	FLOW DIA. D
362PLP-4	1/4	1/4	2.100	1.43	0.190
362PLP-4-6	3/8	1/4	2.100	1.43	0.190
362PLP-6	3/8	3/8	2.175	1.75	0.250
362PLP-6-8	1/2	3/8	2.370	1.93	0.250
362PLP-8	1/2	1/2	2.370	1.93	0.380

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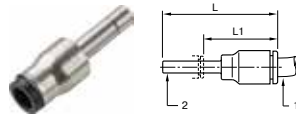


Inch



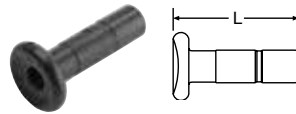
62PLPSP – Tube Expander – Inch

PART NO.	1 TUBE SIZE IN	2 TUBE SIZE IN	L IN	L1 IN
62PLPSP-4-5/32	1/4	5/32	1.39	.71
62PLPSP-6-4	3/8	1/4	1.66	.89



67PLP – Tube Reducer – Inch

PART NO.	1 TUBE SIZE IN	2 TUBE SIZE IN	L IN	L1 IN
67PLP-4-6	1/4	3/8	1.75	1.07
67PLP-4-8	1/4	1/2	1.85	1.17
67PLP-6-8	3/8	1/2	1.97	1.2



TPL – Plug (PVDF) – Inch

PART NO.	TUBE SIZE IN	L IN
FB4TPL	1/4	.88
139PLP-8M	5/16	1.10
FB6TPL	3/8	1.45
FB8TPL	1/2	1.50

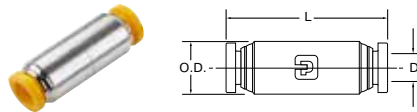


DB – Dust/Weld Spatter Boot

PART NO.	TUBE SIZE IN	L IN	D IN
DB-4	1/4 (6MM)	.50	.40
DB-6	3/8 (10MM)	.50	.63
DB-8	1/2 (12MM)	.50	.75

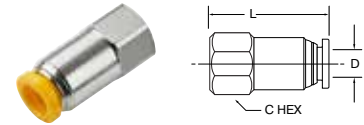
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Metric



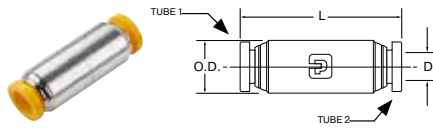
62PLP Union – Metric

PART NO.	TUBE SIZE MM	O.D.	L IN	FLOW DIA. D
62PLP-6M	6	12.70	34.4	4.775
62PLP-8M	8	14.27	41.8	6.350
62PLP-10M	10	17.46	40.9	7.925
62PLP-12M	12	19.05	40.9	9.525



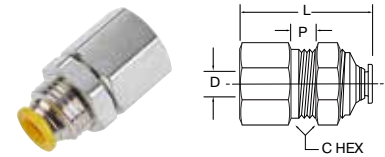
66PLP Female Connector – BSPP

PART NO.	TUBE SIZE MM	THREAD BSPP	C HEX	L MM	FLOW DIA. D
66PLP-6M-2G	6	1/8	9/16	30.05	4.775
66PLP-6M-4G	6	1/4	11/16	36.40	4.775
66PLP-8M-2G	8	1/8	9/16	33.60	6.350
66PLP-8M-4G	8	1/4	11/16	40.46	6.350
66PLP-10M-4G	10	1/4	11/16	38.23	7.925
66PLP-10M-6G	10	3/8	13/16	39.50	7.925



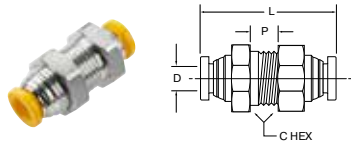
62PLP Unequal Union – Metric

PART NO.	TUBE 1 SIZE IN	TUBE 2 SIZE IN	O.D.	L MM	FLOW DIA. D
62PLP-6M-8M	6	8	12.70	34.94	4.17
62PLP-8M-10M	8	10	14.27	40.59	6.22
62PLP-12M-10M	10	12	17.46	41.36	10.26



66PLPBH Female Bulkhead – BSPP

PART NO.	TUBE SIZE MM	THREAD BSPP	C HEX	P MAX.	L MM	FLOW DIA. D	BKHD HOLE DIA.
66PLPBH-6M-4G	6	1/4	11/16	3.91	36.40	4.775	14
66PLPBH-10M-6G	10	3/8	1	4.93	39.50	7.925	22
66PLPBH-12M-6G	12	3/8	1	7.62	41.61	9.525	22



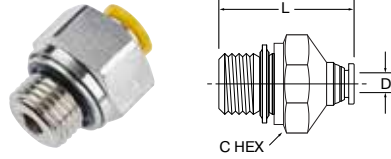
62PLPBH Bulkhead Union – Metric

PART NO.	TUBE SIZE MM	BULKHEAD HOLE DIA. B	C HEX	P MAX.	L MM	D MM
62PLPBH-6M	6	14	11/16	7.57	34.07	4.775
62PLPBH-8M	8	16	3/4	14.67	41.79	6.350
62PLPBH-10M	10	19	7/8	11.66	40.91	7.925
62PLPBH-12M	12	22	1	14.99	50.94	9.525

WARNING These products can expose you to chemicals including LEAD which is known to the state of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



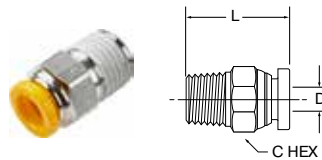
Metric



68PLP Male Connector – BSPP

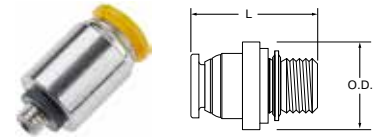
PART NO.	TUBE SIZE MM	THREAD BSPP	C HEX	L MM	FLOW DIA. D
68PLP-6M-M5*	6	M5X0.8	1/2	23.39	2.80
68PLP-6M-2G	6	1/8	9/16	22.00	4.775
68PLP-6M-4G	6	1/4	3/4	28.10	4.775
68PLP-6M-6G	6	3/8	7/8	31.90	4.775
68PLP-8M-2G	8	1/8	9/16	29.67	6.350
68PLP-8M-4G	8	1/4	3/4	30.05	6.350
68PLP-8M-6G	8	3/8	7/8	35.14	6.350
68PLP-10M-4G	10	1/4	3/4	31.88	7.925
68PLP-10M-6G	10	3/8	7/8	26.80	7.925
68PLP-10M-8G	10	1/2	1 1/16	31.88	7.925
68PLP-12M-4G	12	1/4	13/16	35.76	8.738
68PLP-12M-6G	12	3/8	7/8	33.22	9.525
68PLP-12M-8G	12	1/2	1 1/16	33.47	9.525

*M5 seal is neoprene



W68PLP Male Connector – BSPT

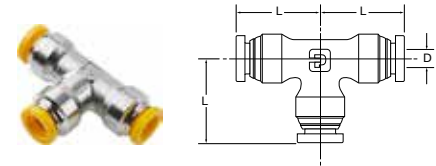
PART NO.	TUBE SIZE MM	THREAD BSPT	C HEX	L MM	FLOW DIA. D
W68PLP-6M-2R	6	1/8	1/2	22.00	4.775
W68PLP-6M-4R	6	1/4	9/16	26.74	4.775
W68PLP-6M-6R	6	3/8	11/16	26.46	4.775
W68PLP-8M-2R	8	1/8	9/16	29.80	6.350
W68PLP-8M-4R	8	1/4	9/16	26.24	6.350
W68PLP-8M-6R	8	3/8	11/16	27.51	6.350
W68PLP-10M-4R	10	1/4	5/8	29.72	7.925
W68PLP-10M-6R	10	3/8	11/16	27.18	7.925
W68PLP-10M-8R	10	1/2	7/8	34.24	7.925
W68PLP-12M-4R	12	1/4	13/16	36.90	8.738
W68PLP-12M-6R	12	3/8	13/16	30.85	9.525
W68PLP-12M-8R	12	1/2	7/8	33.85	9.525



68PLPR Round Male Connector – BSPP/M5

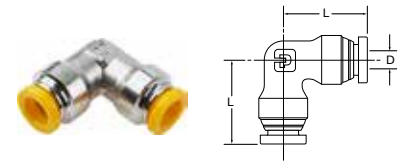
PART NO.	TUBE SIZE MM	THREAD BSPP/M5	INTERNAL HEX BROACH	BODY DIA. O. D.	L MM	FLOW DIA.
68PLPR-6M-M5*	6	M5X0.8	2.46	11.94	23.91	2.801
68PLPR-6M-2G	6	1/8	4.85	11.94	22.13	5.602
68PLPR-6M-4G	6	1/4	4.85	11.94	26.95	5.602

*M5 seal is neopren



164PLP Union Tee – Metric

PART NO.	TUBE SIZE MM	L MM	FLOW DIA. D
164PLP-6M	6	20.47	4.775
164PLP-8M	8	24.58	6.350
164PLP-10M	10	24.90	7.137
164PLP-12M	12	28.77	9.525



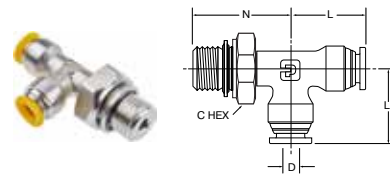
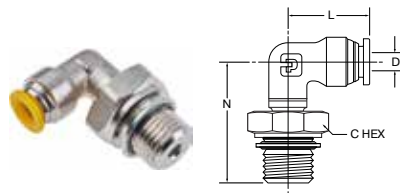
165PLP Union Elbow – Metric

PART NO.	TUBE SIZE MM	L MM	FLOW DIA. D
165PLP-6M	6	20.14	4.775
165PLP-8M	8	24.21	6.350
165PLP-10M	10	23.75	7.925
165PLP-12M	12	27.13	9.525

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Metric



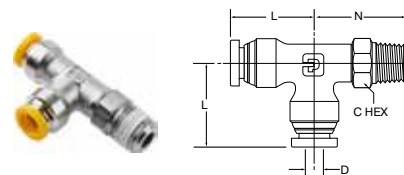
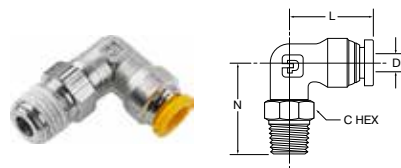
169PLP Male Elbow Swivel 90° – BSPP

PART NO.	TUBE SIZE MM	THREAD BSPP	C HEX	L MM	N MM	FLOW DIA. D
169PLP-6M-M5*	6	M5X0.8	3/8	19.12	18.52	2.425
169PLP-6M-2G	6	1/8	9/16	19.12	22.94	3.960
169PLP-6M-4G	6	1/4	3/4	19.12	29.23	3.960
169PLP-6M-6G	6	3/8	11/16	19.12	31.04	2.425
169PLP-8M-2G	8	1/8	9/16	24.25	27.13	6.350
169PLP-8M-4G	8	1/4	3/4	24.20	33.25	6.350
169PLP-8M-6G	8	3/8	11/16	24.25	33.22	6.350
169PLP-10M-4G	10	1/4	3/4	23.75	32.77	6.350
169PLP-10M-6G	10	3/8	11/16	23.75	32.61	6.350
169PLP-10M-8G	10	1/2	1 1/16	23.75	37.59	6.350
169PLP-12M-4G	12	1/4	3/4	26.63	35.20	7.950
169PLP-12M-6G	12	3/8	7/8	26.63	53.20	9.525
169PLP-12M-8G	12	1/2	1 1/16	26.63	38.96	9.525

*M5 seal is neoprene

171PLP Male Run Tee Swivel – BSPP

PART NO.	TUBE SIZE MM	THREAD BSPP	C HEX	L MM	N MM	FLOW DIA. D
171PLP-6M-2G	6	1/8	9/16	20.90	23.92	4.77
171PLP-6M-4G	6	1/4	3/4	20.90	30.27	4.77
171PLP-6M-6G	6	3/8	7/8	20.90	32.30	4.77
171PLP-8M-2G	8	1/8	9/16	24.40	26.92	6.35
171PLP-8M-4G	8	1/4	3/4	24.20	33.02	6.35
171PLP-8M-6G	8	3/8	7/8	24.20	33.02	6.35
171PLP-10M-4G	10	1/4	3/4	25.52	33.02	7.13
171PLP-10M-6G	10	3/8	7/8	25.52	33.02	7.13
171PLP-10M-8G	10	1/2	1 1/16	25.52	37.84	7.13
171PLP-12M-4G	12	1/4	3/4	29.15	35.30	9.52
171PLP-12M-6G	12	3/8	7/8	29.15	35.30	9.52
171PLP-12M-8G	12	1/2	1 1/16	29.15	38.86	9.52



W169PLP Male Elbow Swivel 90° – BSPT

PART NO.	TUBE SIZE MM	THREAD BSPT	C HEX	L MM	N MM	FLOW DIA. D
W169PLP-6M-2R	6	1/8	7/16	19.13	22.91	3.962
W169PLP-6M-4R	6	1/4	9/16	19.13	27.48	3.962
W169PLP-6M-6R	6	3/8	11/16	19.13	29.74	3.962
W169PLP-8M-2R	8	1/8	9/16	24.20	26.16	6.350
W169PLP-8M-4R	8	1/4	9/16	24.20	31.75	6.350
W169PLP-8M-6R	8	3/8	9/16	24.20	31.75	6.350
W169PLP-10M-4R	10	1/4	9/16	23.75	31.49	6.350
W169PLP-10M-6R	20	3/8	11/16	23.75	31.75	6.350
W169PLP-10M-8R	10	1/2	7/8	23.75	37.69	6.350
W169PLP-12M-4R	12	1/4	11/16	27.63	32.86	7.950
W169PLP-12M-6R	12	3/8	11/16	27.63	33.78	9.525
W169PLP-12M-8R	12	1/2	7/8	27.63	38.96	9.525

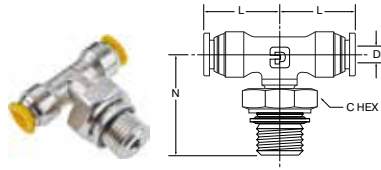
W171PLP Male Run Tee Swivel – BSPT

PART NO.	TUBE SIZE MM	THREAD BSPT	C HEX	L MM	N MM	FLOW DIA. D
W171PLP-6M-2R	6	1/8	7/16	20.90	23.92	4.77
W171PLP-6M-4R	6	1/4	9/16	20.90	28.49	4.77
W171PLP-6M-6R	6	3/8	11/16	20.90	30.78	4.77
W171PLP-8M-2R	8	1/8	9/16	24.20	26.16	6.35
W171PLP-8M-4R	8	1/4	9/16	24.20	31.75	6.35
W171PLP-8M-6R	8	3/8	11/16	24.20	31.75	6.35
W171PLP-10M-4R	10	1/4	9/16	25.52	31.75	7.13
W171PLP-10M-6R	10	3/8	11/16	25.52	31.75	7.13
W171PLP-10M-8R	10	1/2	7/8	25.52	37.84	7.13
W171PLP-12M-4R	12	1/4	11/16	29.15	32.77	9.52
W171PLP-12M-6R	12	3/8	11/16	29.15	33.52	9.52
W171PLP-12M-8R	12	1/2	7/8	29.15	38.86	9.52

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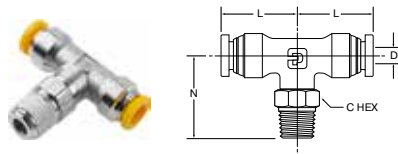


Metric



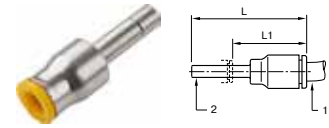
172PLP Male Branch Tee Swivel – BSPP

PART NO.	TUBE SIZE MM	THREAD BSPP	C HEX	L MM	N MM	FLOW DIA. D
172PLP-6M-2G	6	1/8	9/16	21.15	23.92	3.96
172PLP-6M-4G	6	1/4	3/4	21.15	30.27	3.96
172PLP-6M-6G	6	3/8	7/8	21.15	32.30	3.96
172PLP-8M-2G	8	1/8	9/16	24.20	27.33	6.35
172PLP-8M-4G	8	1/4	3/4	24.20	33.42	6.35
172PLP-8M-6G	8	3/8	7/8	24.20	33.42	6.35
172PLP-10M-4G	10	1/4	3/4	25.52	33.42	6.35
172PLP-10M-6G	10	3/8	7/8	25.52	33.42	6.35
172PLP-10M-8G	10	1/2	1 1/16	25.52	38.25	6.35
172PLP-12M-4G	12	1/4	3/4	28.65	35.56	7.95
172PLP-12M-6G	12	3/8	7/8	28.65	35.56	9.52
172PLP-12M-8G	12	1/2	1 1/16	28.65	39.11	9.52



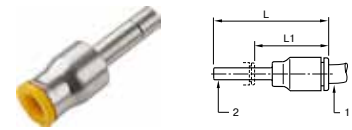
W172PLP Male Branch Tee Swivel – BSPT

PART NO.	TUBE SIZE MM	THREAD BSPT	C HEX	L MM	N MM	FLOW DIA. D
W172PLP-6M-2R	6	1/8	7/16	21.15	23.92	3.96
W172PLP-6M-4R	6	1/4	9/16	21.15	28.49	3.96
W172PLP-6M-6R	6	3/8	11/16	21.15	30.78	3.96
W172PLP-8M-2R	8	1/8	9/16	24.20	26.56	6.35
W172PLP-8M-4R	8	1/4	9/16	24.20	32.15	6.35
W172PLP-8M-6R	8	3/8	11/16	24.20	32.15	6.35
W172PLP-10M-4R	10	1/4	9/16	25.53	32.14	7.14
W172PLP-10M-6R	10	3/8	11/16	25.53	32.14	7.14
W172PLP-10M-8R	10	1/2	7/8	25.53	32.24	7.14
W172PLP-12M-4R	12	1/4	9/16	28.65	33.02	9.53
W172PLP-12M-6R	12	3/8	11/16	28.65	33.78	9.53
W172PLP-12M-8R	12	1/2	7/8	28.65	39.11	9.53



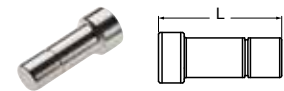
62PLPSP – Tube Expander – Metric

PART NO.	1 TUBE SIZE MM	2 TUBE SIZE MM	L IN	L1 IN
62PLPSP-10M-8M	10	8	42.7	21.2
62PLPSP-12M-10M	12	10	48.5	24
62PLPSP-6M-4M	6	4	33	21
62PLPSP-8M-6M	8	6	39.6	26.1



67PLP – Tube Reducer – Metric

PART NO.	1 TUBE SIZE MM	2 TUBE SIZE MM	L MM	L1 MM
67PLP-10M-12M	10	12	48.8	25.8
67PLP-4M-10M	4	10	37.6	16.1
67PLP-4M-6M	4	6	34.5	24.5
67PLP-4M-8M	4	8	40.1	21.6
67PLP-6M-10M	6	10	41.4	20.9
67PLP-6M-12M	6	12	44.2	21.2
67PLP-6M-8M	6	8	38.6	23.1
67PLP-8M-10M	8	10	47	26.5
67PLP-8M-12M	8	12	49.3	24.8



139PLP – Plug – Metric

PART NO.	TUBE SIZE MM	L IN
139PLP-6M	6	.92
139PLP-8M	5/16 (8mm)	1.10
139PLP-10M	10	1.22
139PLP-12M	12	1.34

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Accessories



Tube Cutter

PART NO.	DESCRIPTION
PTC-001	Plastic Tube Cutter – May be used with polyethylene, polypropylene, nylon, and other thermoplastic tubing. For tube O.D. sizes 1/8" to 1/2"
PTC-001RB	Replacement Blades



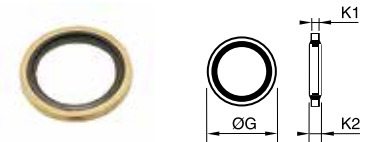
Quick Release Tool

PART NO.	DESCRIPTION
3000 70 00	Quick release tool makes disconnection of tube adapters and tubing a breeze.



Tube Cutter

PART NO.	DESCRIPTION
3000 71 11	Tube cutter for tubing and push-on hose. for hoses up to 1" (25mm). Weight: 1.09oz.
3000 71 11 05	Replacement Blades



0139 Bi-Material Captive Sealing Washer BSP

PART NO.	C BSPP	G MM	G2 MM	K MM	WT. OZ
0139 10 00	G1/8	14	1	1.8	.001
0139 13 00	G1/4	17	1	1.8	.001
0139 17 00	G3/8	22	1.3	2.1	.001
0139 21 00	G1/2	26	1.6	2.4	.002

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Brass Flow Controls

Specifications:

Working Pressure 15 to 150 psi (1.0 to 10.34 bar)

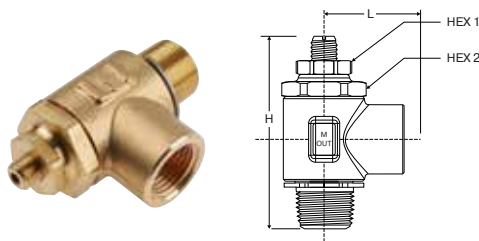
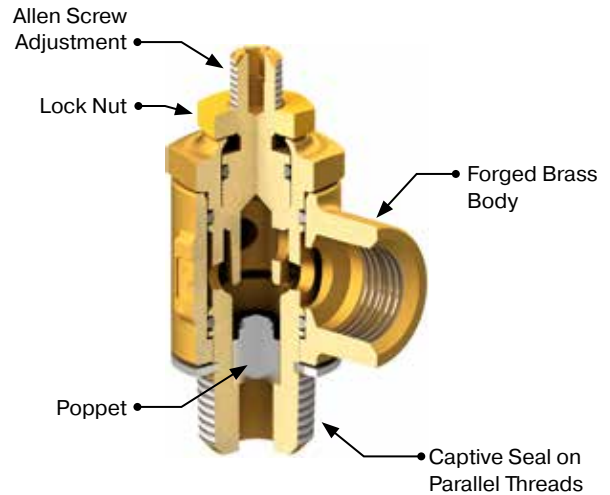
Working Temperature 0° to +200° F (-17.8° to +93.3° C)

Product Features:

- Controls the speed of a pneumatic actuator
- All brass Construction
- Allen wrench adjusting screw
- NPT and BSPP threads
- Threaded and Push-to-Connect bodies
- UL94 V-0 Flame Resistance Standard
- Silicone Free

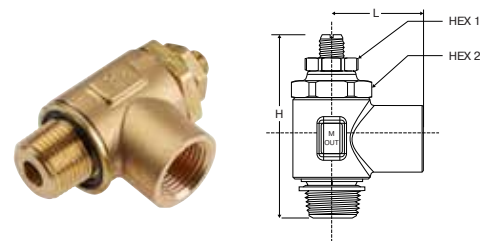
Applications: Robotic Welding, End-of-Arm Tooling, Factory Automation, Automotive Assembly, Packaging, etc.

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



FC703 Threaded Port Meter Out Metal Flow Control – NPT

PART NO.	NPT	HEX 1	HEX 2	H OPEN	H CLOSED	L
FC703-2	1/8	7/16	5/8	1.84	1.70	.67
FC703-4	1/4	5/8	15/16	2.52	2.34	1.00
FC703-6	3/8	5/8	15/16	2.44	2.29	1.00
FC703-8	1/2	13/16	1 1/8	2.72	2.60	1.31

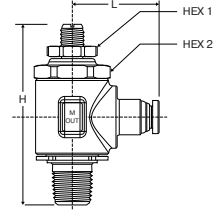
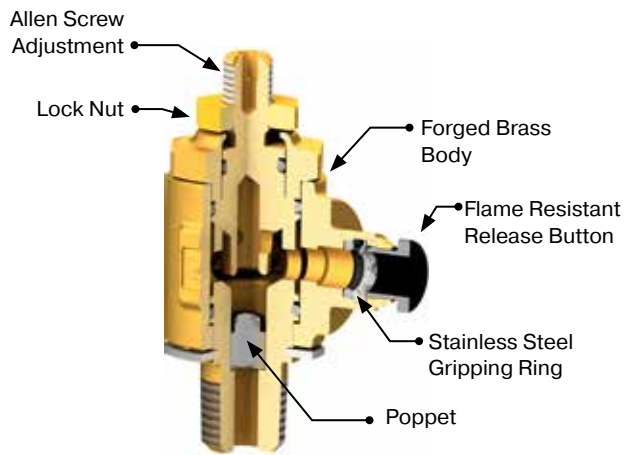


FC703 Threaded Port Meter Out Metal Flow Control – BSPP

PART NO.	BSPP	HEX 1	HEX 2	H OPEN	H CLOSED	L
FC703-2G	1/8	7/16	5/8	1.84	1.70	.78
FC703-4G	1/4	5/8	15/16	2.52	2.34	1.05
FC703-6G	3/8	5/8	15/16	2.44	2.29	1.20
FC703-8G	1/2	13/16	1 1/8	2.72	2.60	1.55

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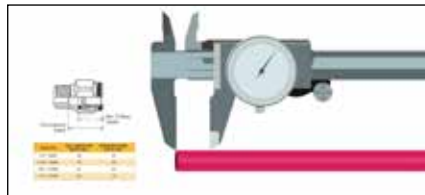
FC703 Push-To-Connect Meter Out Metal Flow Control – NPT

PART NO.	TUBE SIZE IN	NPT	HEX 1	HEX 2	H OPEN	H CLOSED	L
FC703-4-2	1/4	1/8	7/16	5/8	1.84	1.70	1.21
FC703-4-4	1/4	1/4	5/8	15/16	2.52	2.34	1.21
FC703-6-4	3/8	1/4	5/8	15/16	2.52	2.34	1.29
FC703-6-6	3/8	3/8	5/8	15/16	2.44	2.29	1.29

Prestolok PLP Fittings Installation Guide



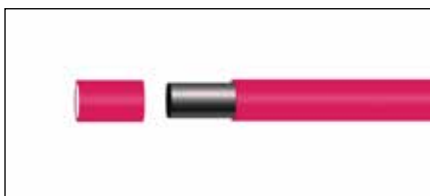
1. Cut tubing squarely – maximum of 15° angle allowable.



2. Mark tubing to appropriate tube insertion length. (See Tube Insertion Chart on p. 15)



3. Skive and remove the measured portion of the flame resistant jacker to expose core tube to be inserted in the fitting. (Skiving tool available from the Parflex Division, Part # PST)



4. Insert tubing until it bottoms



5. Pull on tubing to verify it is fully inserted



6. To disassemble, simply press release button, hold against body and pull tubing out of fitting.

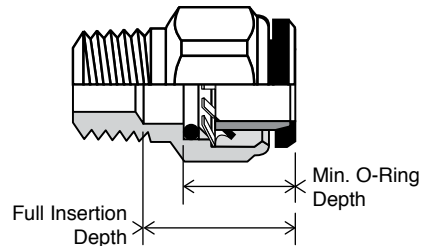
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Tube Insertion Depths

PLP Metal

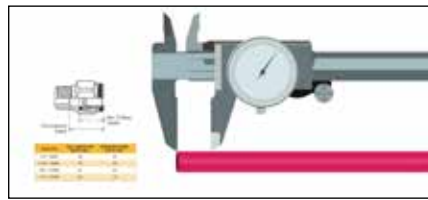
TUBE SIZE	FULL INSERTION DEPTH (IN.)	MINIMUM O-RING DEPTH (IN.)
1/4"	0.67	0.49
5/16"	0.77	0.51
3/8"	0.78	0.51
1/2"	0.85	0.58
6MM	0.59	0.45
8MM	0.77	0.51
10MM	0.71	0.49
12MM	0.81	0.57



PLP Metal with 95FR MicroWeld Tubing Installation Guide



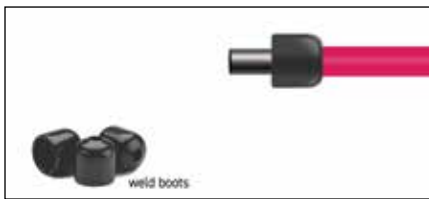
1. Cut tubing squarely – maximum of 15° angle allowable.



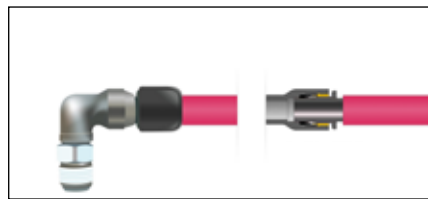
2. Mark tubing to appropriate tube insertion length. (See Tube Insertion Chart above)



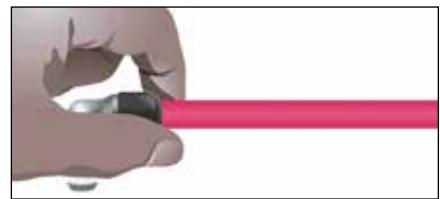
3. Skive and remove the measured portion of the flame resistant jacket to expose core tube to be inserted in the fitting. (Skiving tool available from



the Parflex Division, Part # PST)



4. Attach Weld Boot.



5. Insert tubing until it bottoms.



6. Slide the weld boot over the fitting.



7. Pull on tubing to verify it is fully inserted.

8. To disassemble, simply press release button, hold against body and pull tubing out of fitting.

WARNING These products can expose you to chemicals including LEAD which is known to the state of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



MicroWeld™ Tubing

Series 95FR: Flame Resistant

Parflex 95FR MicroWeld™ Tubing is an ideal option for low to medium pressure air and water supply lines where weld spatter protection is required. The double wall design has a flame resistant jacket made from material that meets the UL94 V-0 standard. The specially formulated jacket material is easy to skive back exposing the core tube for quick insertion into Parker's PLP fittings.

With a lightweight design and excellent flexibility, 95FR can be routed through tight spaces for fast and easy installation. Parflex 95FR MicroWeld tubing is available in multiple colors for easy line identification.

Features

- 95 Shore A durometer polyurethane core tube
- Easily skived flame resistant jacket protects core tube for extended life
- Silicone and halogen free
- Excellent flexibility
- Weld spatter resistant
- Ideal for air/water supply in robotic welding applications

- UL94 V-0 compliant jacket material

Notes

- Suggested operating temperature range is -40°F (-40°C) to +165°F (+75°C) - reference CAT 4660 for Pressure vs. Temperature charts as pressures are lower at elevated temperatures
- Working pressure and burst pressure are at 73°F (23°C)

Parker tubing available from Parflex Division:
(330) 296-2871 | parker.com/parflex

PART NO.	DESCRIPTION	ITEM
PST	SKIVE TOOL	

Compliance

Series 95FR: Jacketed, Fire Resistant Polyurethane Tubing

PART NUMBER	NOMINAL O.D.		NOMINAL I.D.		AVERAGE WALL THICKNESS		FINAL SHEATH O.D.		FINAL SHEATH WALL THICKNESS		WORKING PRESSURE 73°F (23°C)		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		WEIGHT		COLOR
	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	PSI	BAR	PSI	BAR	INCH	MM	LBS./FT.	KG/MTR	
95FR-4-XXX-0250	1/4	6.4	.125	3.2	.045	1.1	.340	8.6	.045	1.1	240	16.5	720	49.6	3/4	19.0	.042	.062	
95FR-4-XXX-0500																			
95FR-6-XXX-0250	3/8	9.5	.250	6.4	.062	1.6	.465	11.8	.045	1.1	230	15.9	690	47.6	1	25.5	.069	.103	
95FR-6-XXX-0500																			
95FR-8-XXX-0250	1/2	12.7	.320	8.1	.090	2.3	.590	15.0	.045	1.1	220	15.2	660	45.5	2	51.0	.108	.161	

Series 95FRM: Jacketed, Fire Resistant Metric Polyurethane Tubing

PART NUMBER	NOMINAL O.D.		NOMINAL I.D.		AVERAGE WALL THICKNESS		FINAL SHEATH O.D.		FINAL SHEATH WALL THICKNESS		WORKING PRESSURE 73°F (23°C)		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		WEIGHT		COLOR
	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	BAR	PSI	BAR	PSI	MM	INCH	KG/MTR	LBS./FT.	
95FRM-6-XXX-0250	6	.236	4.0	.157	1.00	.039	8.0	.315	1.1	.045	15	218	45	652	20.0	3/4	.057	.038	
95FRM-6-XXX-0500																			
95FRM-8-XXX-0250	8	.315	5.0	.197	1.50	.059	10.0	.394	1.1	.045	18	261	54	783	22.0	7/8	.085	.057	
95FRM-8-XXX-0500																			
95FRM-10-XXX-0250	10	.394	6.5	.256	1.75	.069	12.0	.472	1.1	.045	16	232	48	696	26.0	1	.113	.076	
95FRM-12-XXX-0250	12	.472	8.0	.315	2.00	.079	14.0	.551	1.1	.045	16	232	48	696	32.0	1-1/4	.144	.097	

WARNING These products can expose you to chemicals including LEAD which is known to the state of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



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