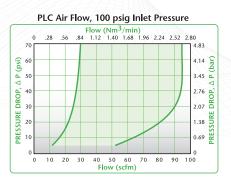
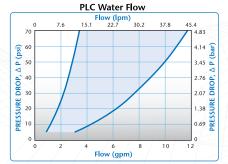
PLC SERIES CONNECTOR



The 1/4" flow PLC Series is proven worldwide in thousands of applications and offers the widest selection of sizes and configurations. PLC couplings are injection molded from acetal thermoplastic and are resistant to most mild chemical solutions. One-hand connection/disconnection, plus integral terminations make the PLC Series the choice for ease of use and manufacture.

FEATURES	BENEFITS			
CPC thumb latch	One-hand connection and disconnection			
Integral terminations	Fewer leak points, shorter assemblies, faster installations			
Clicks when connected	Assurance of a reliable connection			
Compatible	Mates with LC and PLC12 Series coupling			





Specifications • • •

PRESSURE:

Vacuum to 120 psi, 8.3 bar

TEMPERATURE: -40°F to 180° F (-40°C to 82°C)

MATERIALS:

Main components and valves: Acetal Thumb latch: Stainless steel Valve spring: 316 stainless steel External springs and pin: Stainless steel O-rings: Buna-N

COLOR: Natural white, others available

TUBING SIZES:

1/4" to 3/8" ID, 6.4mm to 9.5mm ID

JG® TUBING SPECIFICATIONS:

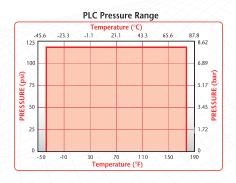
Tube tolerances: 1/4" OD, +0.001/-0.004 | 3/8" OD, +0.001/-0.004

Tube Types: Plastic tube: Polyethylene, nylon, polyurethane. For soft or thin wall tubing with JG[®] terminations, tube supports are recommended.

Metal tube: Brass, copper and mild steel

Also available in NSF listed versions, please visit our website for part number information.

These graphs are intended to give you a general idea of the performance capabilities of each product line. The shaded area of each graph represents the operating range of the product family, i.e., upper and lower values are shown. Therefore, depending on the exact coupling configurations selected, you can reasonably expect values to fall within the shaded area.



Decoding Coupling Options

Often times, it can be an overwhelming task to decipher which coupling best fits your application needs. The chart below helps to decode popular CPC couplings.

1/4" FLOW OPTIONS	PRIMARY MATERIAL	0-RING	APPLICATION BENEFITS	
PLC	Acetal	Buna-N	General purpose plastic connector with metal latch	
PLC12	Polypropylene EPDM		Expanded chemical compatibility	
LC	Chrome-Plated Brass	Buna-N	Higher operating temperature and pressure	
APC	Acetal	Buna-N	Plastic thumb latch	
BREAKAWAY®	Acetal	Buna-N	Breakaway latch	
NS4	Glass-filled polypropylene	EPDM	Drybreak, non-spill connect and disconnect, even under pressure	

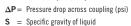
For further information please contact CPC Customer Service at 1-800-444-2474 or 651-645-0091.

Liquid Flow Rate Information for Couplings

The chart below shows the flow rate for CPC couplings. Each coupling was tested with water at 70°F (21°C). To determine flow rates for specific coupling configurations use the formula at the right.



- **Q** = Flow rate in gallons per minute
- **Cv** = Average coefficient across various flow rates (see chart)



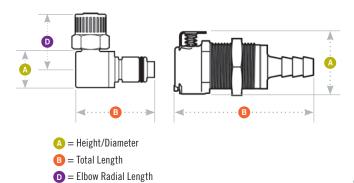
C_v values for 1/4" flow plc couplings

BODIES	PLC 20004	PLCD 20004	PLC 20006	PLCD 20006	PLC 22004	PLCD 22004	PLC 22006	PLCD 22006	PLC 24004	PLCD 24004	PLC 24006	PLCD 24006	PLC 26004
PLC10004	.40	.36	1.05	.58	.83	.56	1.40	.82	1.40	.75	1.40	.77	.83
PLCD10004	.36	.31	.73	.48	.66	.41	.82	.50	.80	.45	.77	.45	.81
PLC10006	.40	.36	1.05	.60	.83	.56	1.40	.81	1.40	.76	1.40	.76	.83
PLCD10006	.37	.31	.81	.47	.70	.43	1.02	.51	.98	.46	.99	.48	.98
PLC12006	.38	.36	.84	.63	.74	.56	1.14	.75	1.14	.70	1.14	.72	.74
PLCD12006	.38	.33	.78	.49	.68	.44	.84	.49	.81	.43	.82	.44	.81
PLC16004	.38	.37	.87	.54	.95	.51	1.00	.70	.95	.64	1.00	.66	.95
PLCD16004	.37	.31	.61	.44	.57	.41	.78	.44	.78	.43	.75	.46	.78
PLC16006	.38	.37	1.00	.57	.95	.53	1.40	.80	1.40	.71	1.40	.73	1.40
PLCD16006	.38	.32	.71	.49	.63	.42	.89	.51	.96	.45	.92	.49	.97

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PLC DIMENSIONS



Panel Dimensions

	PANEL OPENING	PANEL THICKNESS MAXMIN.	PANEL NUT HEX	PANEL NUT THREAD
COUPLING BODIES	see drawing	.50 – .05	13/16	11/16-24UNEF
COUPLING INSERTS	see drawing	.30 – .05	13/16	11/16-24UNEF



Coupling Bodies • ACETAL

Č	TERMINATION IN-LINE PIPE THREAD	TUBING/THREAD SIZE 1/4" NPT 1/4" BSPT 3/8" NPT 3/8" BSPT	METRIC EQ.	STRAIGHT THRU PLC10004 PLC10004BSPT PLC10006 PLC10006BSPT	SHUTOFF PLCD10004 PLCD10004BSPT PLCD10006 PLCD10006BSPT	 A .90 .90 .90 .90 .90 	B 1.17 1.15 1.15 1.15
() E	PANEL MOUNT FERRULELESS POLYTUBE FITTING, PTF†	1/4" OD, .17" ID 3/8" OD, .25" ID	6.4mm OD, 4.3mm ID 8.0mm OD, 6.0mm ID 9.5mm OD, 6.4mm ID 10.0mm OD, 8.0mm ID	PLC12004 PLC120M8 PLC12006 PLC120M10	PLCD12004 PLCD120M8 PLCD12006 PLCD120M10	.88 .88 .88 .88	1.87 1.95 1.95 1.95
()	PANEL MOUNT HOSE BARB	1/4" ID 5/16" ID 3/8" ID	6.4mm ID 7.9mm ID 9.5mm ID	PLC16004 PLC16005 PLC16006	PLCD16004 PLCD16005 PLCD16006	.88 .88 .88	1.95 1.95 1.95
()	PANEL MOUNT JG® PUSH-TO- CONNECT	1/4" OD	6.4mm OD	PLC11004	PLCD11004	.88	1.95
C	IN-LINE FERRULELESS POLYTUBE FITTING, PTF†	1/4" OD, .17" ID 3/8" OD, .25" ID	6.4mm OD, 4.3mm ID 8.0mm OD, 6.0mm ID 9.5mm OD, 6.4mm ID 10.0mm OD, 8.0mm ID	PLC13004 PLC130M8 PLC13006 PLC130M10	PLCD13004 PLCD130M8 PLCD13006 PLCD130M10	.94 .94 .94 .94	1.82 1.95 1.95 1.95
0	IN-LINE HOSE BARB	1/4" ID 5/16" ID 3/8" ID	6.4mm ID 7.9mm ID 9.5mm ID	PLC17004 PLC17005 PLC17006	PLCD17004 PLCD17005 PLCD17006	.94 .94 .94	1.80 /1.95 1.95 1.80 /1.95
00	IN-LINE JG® PUSH-TO- CONNECT	1/4" OD 3/8" OD (See page 162 for JG a	6.4mm OD 9.5mm OD accessories)	PLC14004 PLC14006	PLCD14004 PLCD14006	.94 .94	1.95 2.09

All measurements are in inches (millimeters) unless otherwise noted. Tubing must meet stated inside and outside diameters. †NOTE: CPC's Ferruleless Polytube Fitting terminations do not require ferrules to achieve a secure connection, which makes them easier to use and reuse. PTF fittings are designed for semi-rigid tubing, i.e., polyethylene, nylon, polyurethane, etc. NOTE: JG is a registered trademark of John Guest USA, Inc.

Coupling Inserts • ACETAL

	TERMINATION IN-LINE PIPE THREAD	TUBING/THREAD SIZE 1/4" NPT 1/4" BSPT 3/8" NPT 3/8" BSPT	METRIC EQ.	STRAIGHT THRU PLC24004 PLC24004BSPT PLC24006 PLC24006BSPT	SHUTOFF PLCD24004 PLCD24004BSPT PLCD24006 PLCD24006BSPT	A .72 .72 .87 .87	B 1.25/1.66 1.53/1.66 1.25/1.63 1.51/1.63	0
	PANEL MOUNT FERRULELESS POLYTUBE FITTING, PTF†	1/4" OD, .17" ID 3/8" OD, .25" ID	6.4mm OD, 4.3mm ID 8.0mm OD, 6.0mm ID 9.5mm OD, 6.4mm ID 10.0mm OD, 8.0mm ID	PLC40004 PLC400M8 PLC40006 PLC400M10	PLCD40004 PLCD400M8 PLCD40006 PLCD400M10	.94 .94 .94 .94	1.78/1.91 1.91/2.03 1.91/2.05 1.91/2.05	
	PANEL MOUNT HOSE BARB	1/4" ID 5/16" ID 3/8" ID	6.4mm ID 7.9mm ID 9.5mm ID	PLC42004 PLC42005 PLC42006	PLCD42004 PLCD42005 PLCD42006	.94 .94 .94	1.91/2.05 1.91/2.05 1.91/2.05	
N	PANEL MOUNT JG® PUSH-TO- CONNECT	1/4" OD	6.4mm OD	PLC41004	PLCD41004	.94	1.91/2.05	
	IN-LINE FERRULELESS POLYTUBE FITTING, PTF†	1/4" OD, .17" ID 3/8" OD, .25" ID	6.4mm OD, 4.3mm ID 8.0mm OD, 6.0mm ID 9.5mm OD, 6.4mm ID 10.0mm OD, 8.0mm ID	PLC20004 PLC200M8 PLC20006 PLC200M10	PLCD20004 PLCD200M8 PLCD20006 PLCD200M10	.72 .72 .72 .72 .72	1.25/1.88 1.38/1.82 1.38/1.82 1.38/1.82	
	IN-LINE HOSE BARB	1/4" ID 5/16" ID 3/8" ID	6.4mm ID 7.9mm ID 9.5mm ID	PLC22004 PLC22005 PLC22006	PLCD22004 PLCD22005 PLCD22006	.62 .62 .62	1.35/1.99 1.35/1.99 1.36/1.81	
	IN-LINE JG® PUSH-TO- CONNECT	1/4" OD 3/8" OD	6.4mm OD 9.5mm OD	PLC29004 PLC29006	PLCD29004 PLCD29006	.63 .78	1.35/1.95 1.51/2.11	
	ELBOW FERRULELESS POLYTUBE FITTING, PTF†	3/8" OD, .25" ID	9.5mm OD, 6.4mm ID	PLC21006	PLCD21006	.61/.62	1.22/1.35	.85/.96
	ELBOW HOSE BARB	1/4" ID 3/8" ID	6.4mm ID 9.5mm ID	PLC23004 PLC23006	PLCD23004 PLCD23006	.67/.63 .67/.63	1.10/1.28 1.25/1.28	.85/.96 .90/.96

All measurements are in inches (millimeters) unless otherwise noted. Tubing must meet stated inside and outside diameters. Couplings are pictured with valves unless otherwise noted.

tNOTE: CPC's Ferruleless Polytube Fitting terminations do not require ferrules to achieve a secure connection, which makes them easier to use and reuse. PTF fittings are designed for semi-rigid tubing, i.e., polyethylene, nylon, polyurethane, etc. NOTE: JG is a registered trademark of John Guest USA, Inc.

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