

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.



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, 6.4 mm to 9.5 mm 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

FEATURES

CPC thumb latch

Integral terminations

Clicks when connected

Compatible

BENEFITS

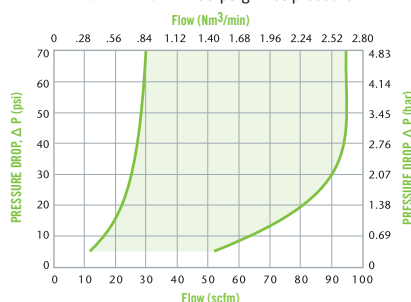
One-hand connection and disconnection

Fewer leak points, shorter assemblies, faster installations

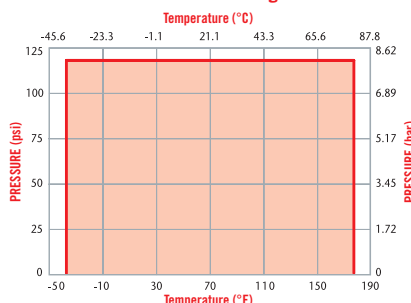
Assurance of a reliable connection

Mates with LC and PLC12 Series couplings

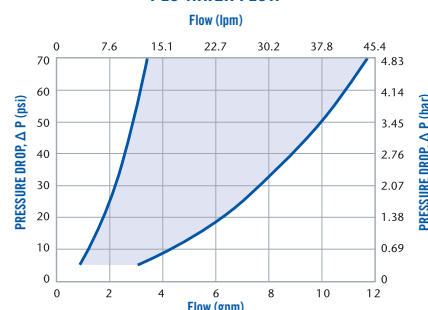
PLC AIR FLOW • 100 psig inlet pressure



PLC Pressure Range



PLC WATER FLOW



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.



cpcworldwide.com/PLC



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NSF OPTION AVAILABLE

This product has an NSF compatible product for food applications. Our food-grade couplings are superior to general fittings for fluid control because they incorporate built-in shutoff valves, enabling tubing to be disconnected without having to turn off the water supply. Scan the QR code to be taken to the NSF specific product web page.



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 to the right.

$$Q=C_v\sqrt{\frac{\Delta P}{S}}$$

Q = Flow rate in gallons per minute

C_v = Average coefficient across various flow rates (see chart)

ΔP = Pressure drop across coupling (psi)

S = Specific gravity of liquid

C_v VALUES

		INSERTS												
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	0.40	0.36	1.05	0.58	0.83	0.56	1.40	0.82	1.40	0.75	1.40	0.77	0.83
	PLCD10004	0.36	0.31	0.73	0.48	0.66	0.41	0.82	0.50	0.80	0.45	0.77	0.45	0.81
	PLC10006	0.40	0.36	1.05	0.60	0.83	0.56	1.40	0.81	1.40	0.76	1.40	0.76	0.83
	PLCD10006	0.37	0.31	0.81	0.47	0.70	0.43	1.02	0.51	0.98	0.46	0.99	0.48	0.98
	PLC12006	0.38	0.36	0.84	0.63	0.74	0.56	1.14	0.75	1.14	0.70	1.14	0.72	0.74
	PLCD12006	0.38	0.33	0.78	0.49	0.68	0.44	0.84	0.49	0.81	0.43	0.82	0.44	0.81
	PLC16004	0.38	0.37	0.87	0.54	0.95	0.51	1.00	0.70	0.95	0.64	1.00	0.66	0.95
	PLCD16004	0.37	0.31	0.61	0.44	0.57	0.41	0.78	0.44	0.78	0.43	0.75	0.46	0.78
	PLC16006	0.38	0.37	1.00	0.57	0.95	0.53	1.40	0.80	1.40	0.71	1.40	0.73	1.40
	PLCD16006	0.38	0.32	0.71	0.49	0.63	0.42	0.89	0.51	0.96	0.45	0.92	0.49	0.97

PLC® SERIES DIMENSIONS

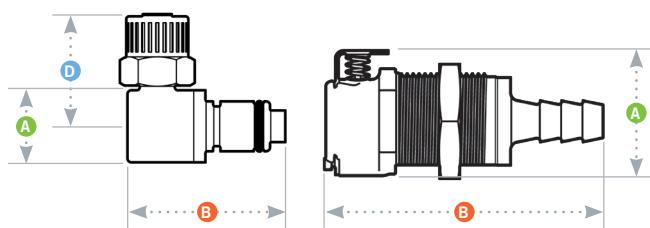
COUPLING BODIES - Acetal

	TERMINATION	TUBING/THREAD SIZE	METRIC EQ	STRAIGHT THRU	SHUTOFF	A	B
	IN-LINE PIPE THREAD	1/4" NPT		PLC10004	PLCD10004	0.9 (22.9)	1.17 (29.7)
		1/4" BSPT		PLC10004BSPT	PLCD10004BSPT	0.9 (22.9)	1.15 (29.2)
		3/8" NPT		PLC10006	PLCD10006	0.9 (22.9)	1.15 (29.2)
		3/8" BSPT		PLC10006BSPT	PLCD10006BSPT	0.9 (22.9)	1.15 (29.2)
	PANEL MOUNT FERRULELESS POLYTUBE FITTING, PTF†	1/4" OD, 0.17" ID	6.4 mm OD, 4.3 mm ID	PLC12004	PLCD12004	0.88 (22.4)	1.87 (47.5)
			8.0 mm OD, 6.0 mm ID	PLC120M8	PLCD120M8	0.88 (22.4)	1.95 (49.5)
		3/8" OD, 0.25" ID	9.5 mm OD, 6.4 mm ID	PLC12006	PLCD12006	0.88 (22.4)	1.95 (49.5)
			10.0 mm OD, 8.0 mm ID	PLC120M10	PLCD120M10	0.88 (22.4)	1.95 (49.5)
	PANEL MOUNT HOSE BARB	1/4" ID	6.4 mm ID	PLC16004	PLCD16004	0.88 (22.4)	1.95 (49.5)
		5/16" ID	7.9 mm ID	PLC16005	PLCD16005	0.88 (22.4)	1.95 (49.5)
		3/8" ID	9.5 mm ID	PLC16006	PLCD16006	0.88 (22.4)	1.95 (49.5)
	PANEL MOUNT JG® PUSH-TO- CONNECT	1/4" OD	6.4 mm OD	PLC11004	PLCD11004	0.88 (22.4)	1.95 (49.5)
	IN-LINE FERRULELESS POLYTUBE FITTING, PTF†	1/4" OD, 0.17" ID	6.4 mm OD, 4.3 mm ID	PLC13004	PLCD13004	0.94 (23.9)	1.82 (46.2)
			8.0 mm OD, 6.0 mm ID	PLC130M8	PLCD130M8	0.94 (23.9)	1.95 (49.5)
		3/8" OD, 0.25" ID	9.5 mm OD, 6.4 mm ID	PLC13006	PLCD13006	0.94 (23.9)	1.95 (49.5)
			10.0 mm OD, 8.0 mm ID	PLC130M10	PLCD130M10	0.94 (23.9)	1.95 (49.5)
	IN-LINE HOSE BARB	1/4" ID	6.4 mm ID	PLC17004	PLCD17004	0.94 (23.9)	1.80/1.95 (45.7/49.5)
		5/16" ID	7.9 mm ID	PLC17005	PLCD17005	0.94 (23.9)	1.95 (49.5)
		3/8" ID	9.5 mm ID	PLC17006	PLCD17006	0.94 (23.9)	1.80/1.95 (45.7/49.5)
	IN-LINE JG® PUSH-TO- CONNECT	1/4" OD	6.4 mm OD	PLC14004	PLCD14004	0.94 (23.9)	1.95 (49.5)
		3/8" OD	9.5 mm OD	PLC14006	PLCD14006	0.94 (23.9)	2.09 (53.1)
		(See page 167 for JG accessories)					

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.

†NOTE: CPC™ 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.

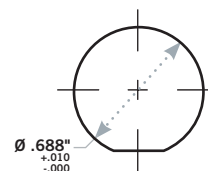
PRODUCT DIMENSIONS



- A = Height/Diameter
- B = Total Length
- D = Elbow Radial Length

PANEL DIMENSIONS

	PANEL OPENING	PANEL THICKNESS MAX.-MIN.	PANEL NUT HEX	PANEL NUT THREAD
COUPLING BODIES	see drawing	0.50 – 0.05	13/16	11/16-24UNEF
COUPLING INSERTS	see drawing	0.30 – 0.05	13/16	11/16-24UNEF



COUPLING INSERTS - Acetal

	TERMINATION	TUBING/THREAD SIZE	METRIC EQ	STRAIGHT THRU	SHUTOFF	A	B	D
	IN-LINE PIPE THREAD	1/4" NPT		PLC24004	PLCD24004	0.72 (18.3)	1.25/1.66 (31.8/42.2)	
		1/4" BSPT		PLC24004BSPT	PLCD24004BSPT	0.72 (18.3)	1.53/1.66 (38.9/42.2)	
		3/8" NPT		PLC24006	PLCD24006	0.87 (22.1)	1.25/1.63 (31.8/41.4)	
		3/8" BSPT		PLC24006BSPT	PLCD24006BSPT	0.87 (22.1)	1.51/1.63 (38.4/41.4)	
	PANEL MOUNT FERRULELESS POLYTUBE FITTING, PTF†	1/4" OD, 0.17" ID	6.4 mm OD, 4.3 mm ID	PLC40004	PLCD40004	0.94 (23.9)	1.78/1.91 (45.2/48.5)	
			8.0 mm OD, 6.0 mm ID	PLC400M8	PLCD400M8	0.94 (23.9)	1.91/2.03 (48.5/51.6)	
		3/8" OD, 0.25" ID	9.5 mm OD, 6.4 mm ID		PLCD40006	0.94 (23.9)	1.91/2.05 (48.5/52.1)	
			10.0 mm OD, 8.0 mm ID	PLC400M10	PLCD400M10	0.94 (23.9)	1.91/2.05 (48.5/52.1)	
	PANEL MOUNT HOSE BARB	1/4" ID	6.4 mm ID	PLC42004	PLCD42004	0.94 (23.9)	1.91/2.05 (48.5/52.1)	
		5/16" ID	7.9 mm ID	PLC42005	PLCD42005	0.94 (23.9)	1.91/2.05 (48.5/52.1)	
		3/8" ID	9.5 mm ID	PLC42006	PLCD42006	0.94 (23.9)	1.91/2.05 (48.5/52.1)	
	PANEL MOUNT JG® PUSH-TO- CONNECT	1/4" OD	6.4 mm OD	PLC41004	PLCD41004	0.94 (23.9)	1.91/2.05 (48.5/52.1)	
		1/4" OD, 0.17" ID	6.4 mm OD, 4.3 mm ID	PLC20004	PLCD20004	0.72 (18.3)	1.25/1.88 (31.8/73.2)	
			8.0 mm OD, 6.0 mm ID	PLC200M8	PLCD200M8	0.72 (18.3)	1.38/1.82 (35.1/46.2)	
		3/8" OD, 0.25" ID	9.5 mm OD, 6.4 mm ID	PLC20006	PLCD20006	0.72 (18.3)	1.38/1.82 (35.1/46.2)	
	IN-LINE FERRULELESS POLYTUBE FITTING, PTF†		10.0 mm OD, 8.0 mm ID	PLC200M10	PLCD200M10	0.72 (18.3)	1.38/1.82 (35.1/46.2)	
		1/4" ID	6.4 mm ID	PLC22004	PLCD22004	0.62 (15.7)	1.35/1.99 (34.3/50.6)	
		5/16" ID	7.9 mm ID	PLC22005	PLCD22005	0.62 (15.7)	1.35/1.99 (34.3/50.6)	
		3/8" ID	9.5 mm ID	PLC22006	PLCD22006	0.62 (15.7)	1.36/1.81 (34.5/46.0)	
	IN-LINE JG® PUSH-TO- CONNECT	1/4" OD	6.4 mm OD	PLC29004	PLCD29004	0.62 (15.7)	1.35/1.95 (34.3/49.5)	
		3/8" OD	9.5 mm OD	PLC29006	PLCD29006	0.78 (19.8)	1.51/2.11 (38.4/53.6)	
	ELBOW FERRULELESS POLYTUBE FITTING, PTF†	3/8" OD, 0.25" ID	9.5 mm OD, 6.4 mm ID	PLC21006	PLCD21006	.61/.62 (15.45/15.8)	1.22/1.35 (31.0/34.3)	0.85/0.96 (21.6/24.4)
	ELBOW HOSE BARB	1/4" ID	6.4 mm ID	PLC23004	PLCD23004	.67/.63 (17.0/16.0)	1.10/1.28 (27.9/32.5)	0.85/0.96 (21.6/24.4)
		3/8" ID	9.5 mm ID	PLC23006	PLCD23006	.67/.63 (17.0/16.0)	1.25/1.28 (31.8/32.5)	0.90/0.96 (22.9/24.4)

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WARRANTY: All sales are subject to the Colder Products Company® limited express warranty set forth in the CPC catalog. Contact your local distributor or CPC Customer Service for warranty provisions.

Warning: Due to the wide variety of possible fluid media and operating conditions, unintended consequences may result from the use of this product, all of which are beyond the control of CPC. It is the user's responsibility to carefully determine and test for compatibility for use with their application. All such risks shall be assumed by the buyer.

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