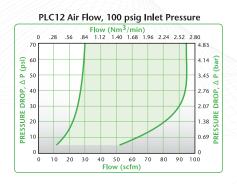
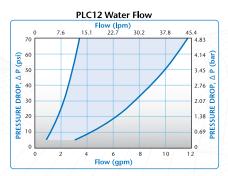
PLC12 SERIES CONNECTOR



The 1/4" flow polypropylene PLC12 offers many of the same configuration options as the PLC. The polypropylene material adds greater chemical resistance for more demanding applications. PLC12 couplings are also gamma sterilizable. PLC12 coulings are also gamma sterilizable and available with optional RFID (Radio Frequency Identification) capability (see page 96).

FEATURES	BENEFITS				
Polypropylene material	Chemically resistant and gamma sterilizable				
EPDM o-rings	Greater chemical resistance				
CPC thumb latch	One-hand connection and disconnection				
Integral terminations	Fewer leak points, shorter assemblies, faster installations				





Specifications • • •







PRESSURE:

Vacuum to 120 psi, 8.3 bar

TEMPERATURE:

32°F to 160°F (0°C to 71°C)

MATERIALS:

Main components and valves:

Polypropylene

Thumb latch: Stainless steel Valve spring: 316 stainless steel

External springs and pin: Stainless steel

0-rings: EPDM

STERILIZATION:

Gamma: Up to 50 kGy irradiation

COLOR: Almond

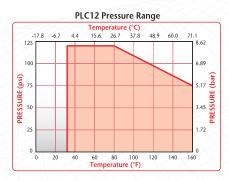
TUBING SIZES:

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

WARNING: Pressure, temperature, chemicals, and operating environment can affect the performance of couplings. It is the customer's responsibility to test the suitability of CPC's products in their own application conditions. Use the graph at the right as a guide.

PLC12 Couplings are

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.



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.



 ${f Q}~=~{\sf Flow}$ rate in gallons per minute

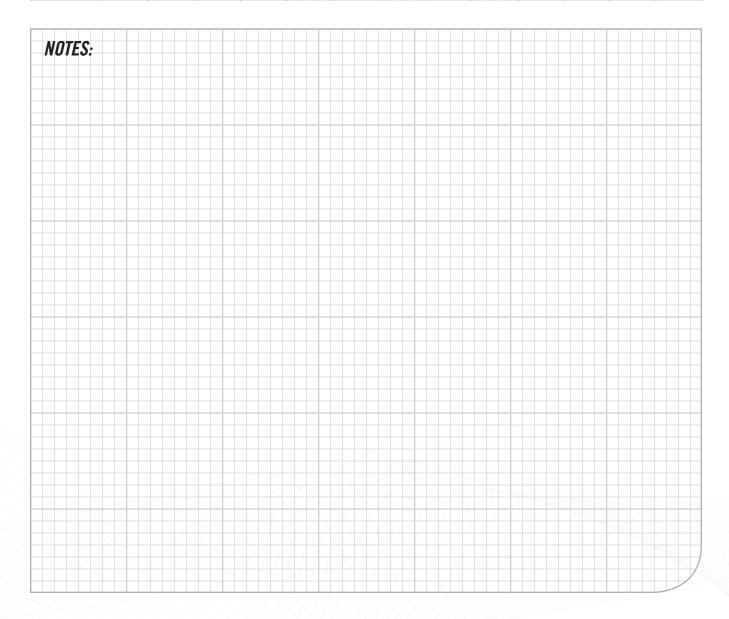
C_v = Average coefficient across various flow rates (see chart)

 ΔP = Pressure drop across coupling (psi)

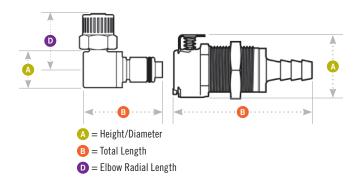
S = Specific gravity of liquid

C_v values for 1/4" flow Plc12 couplings

BODIES	PLC 2000412	PLCD 2000412	PLC 2000612	PLCD 2000612	PLC 2200412	PLCD 2200412	PLC 2200612	PLCD 2200612	PLC 2400412	PLCD 2400412	PLC 2400612	PLCD 2400612	PLC 2600412
PLC1000412	.40	.36	1.05	.58	.83	.56	1.40	.82	1.40	.75	1.40	.77	.83
PLCD1000412	.36	.31	.73	.48	.66	.41	.82	.50	.80	.45	.77	.45	.81
PLC1000612	.40	.36	1.05	.60	.83	.56	1.40	.81	1.40	.76	1.40	.76	.83
PLCD1000612	.37	.31	.81	.47	.70	.43	1.02	.51	.98	.46	.99	.48	.98
PLC1200612	.38	.36	.84	.63	.74	.56	1.14	.75	1.14	.70	1.14	.72	.74
PLCD1200612	.38	.33	.78	.49	.68	.44	.84	.49	.81	.43	.82	.44	.81
PLC1600412	.38	.37	.87	.54	.95	.51	1.00	.70	.95	.64	1.00	.66	.95
PLCD1600412	.37	.31	.61	.44	.57	.41	.78	.44	.78	.43	.75	.46	.78
PLC1600612	.38	.37	1.00	.57	.95	.53	1.40	.80	1.40	.71	1.40	.73	1.40
PLCD1600612	.38	.32	.71	.49	.63	.42	.89	.51	.96	.45	.92	.49	.97



PLC12 DIMENSIONS

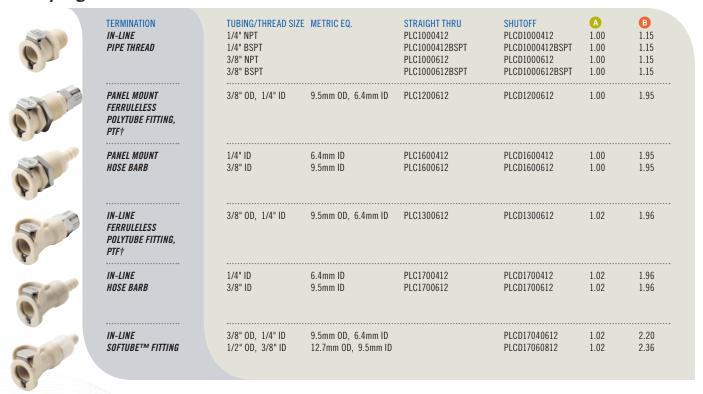


Panel Dimensions

	PANEL OPENING	PANEL THICKNESS MAXMIN.	PANEL NUT HEX	PANEL NUT THREAD
COUPLING BODIES	see drawing	.30 – .02	13/16	11/16-24UNEF
COUPLING INSERTS	see drawing	.30 — .02	13/16	11/16-24UNEF



Coupling Bodies • POLYPROPYLENE



PLC12 Coupling Readers • POLYPROPYLENE



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 • POLYPROPYLENE

Continue of the last	TERMINATION IN-LINE PIPE THREAD	TUBING/THREAD SIZE 1/4" NPT	METRIC EQ.	STRAIGHT THRU PLC2400412	SHUTOFF PLCD2400412	.72	B 1.26/1.67	0
	PANEL MOUNT HOSE BARB	1/4" ID 3/8" ID	6.4mm ID 9.5mm ID	PLC4200412 PLC4200612	PLCD4200412 PLCD4200612	.94 .94	1.91/2.05 1.91/2.05	
	IN-LINE FERRULELESS POLYTUBE FITTING, PTF†	3/8" OD, 1/4" ID	9.5mm OD, 6.4mm ID	PLC2000612	PLCD2000612	.72	1.68/1.82	
	IN-LINE HOSE BARB	1/4" ID 3/8" ID	6.4mm ID 9.5mm ID	PLC2200412 PLC2200612	PLCD2200412 PLCD2200612	.63 .63	1.35/2.00 1.35/1.82	
A THIN	IN-LINE SOFTUBE™ FITTING	3/8" OD, 1/4" ID 1/2" OD, 3/8" ID	9.5mm OD, 6.4mm ID 12.7mm OD, 9.5mm ID		PLCD22040612 PLCD22060812	.72 .72	2.23 2.18	
	ELBOW FERRULELESS POLYTUBE FITTING, PTF†	3/8" OD, 1/4" ID	9.5mm OD, 6.4mm ID	PLC2100612	PLCD2100612	.61/.62	1.29/1.36	.95
	ELBOW HOSE BARB	1/4" ID 3/8" ID	6.4mm ID 9.5mm ID	PLC2300412 PLC2300612	PLCD2300412 PLCD2300612	.63 .63	1.22/1.36 1.28/1.42	.96 .96
RFÎD	IN-LINE HOSE BARB (RS-232 Interface)	1/4" ID 3/8" ID	6.4mm ID 9.5mm ID	iPLCT2200400 iPLCT2200600	iPLCDT2200400 iPLCDT2200600	1.39 1.39	2.78 2.78	
RFÎD	ELBOW HOSE BARB (RS-232 Interface)	1/4" ID 3/8" ID	6.4mm ID 9.5mm ID	iPLCT2300400 iPLCT2300600	iPLCDT2300400 iPLCDT2300600	1.48 1.48	1.27/1.40 1.33/1.46	

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'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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