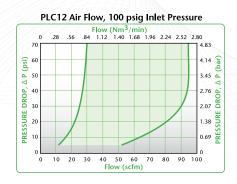


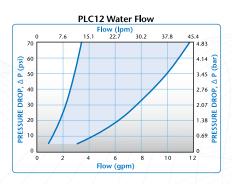
# PLC12 SERIES CONNECTOR



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

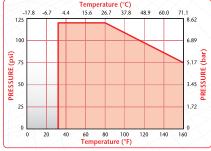
### **TUBING SIZES:**

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.

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.

PLC12 Pressure Range



## **Liquid Flow Rate Information for Couplings**

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

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

**Q** = Flow rate in gallons per minute

C<sub>v</sub> = Average coefficient across various flow rates (see chart)

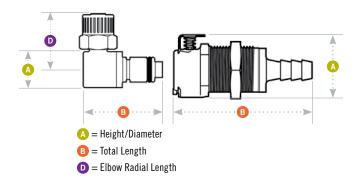
 $\Delta P$  = Pressure drop across coupling (psi)

S = Specific gravity of liquid

### C<sub>v</sub> values for 1/4" flow plc12 couplings

BODIES INSERTS	PLC12 20004	PLCD12 20004	PLC12 20006	PLCD12 20006	PLC12 22004	PLCD12 22004	PLC12 22006	PLCD12 22006	PLC12 24004	PLCD12 24004	PLC12 24006	PLCD12 24006	PLC12 26004
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

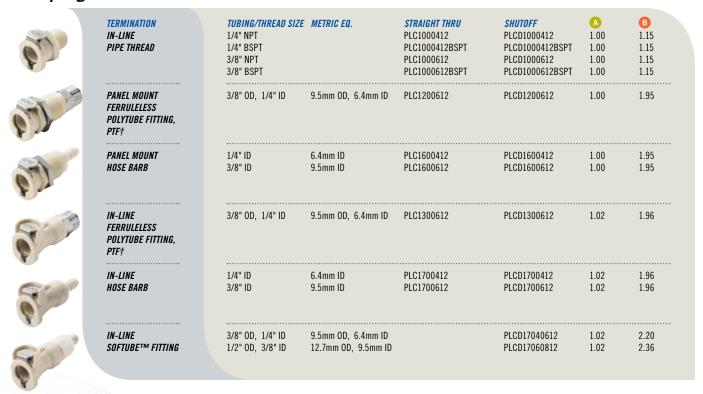


### **Panel Dimensions**

	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**

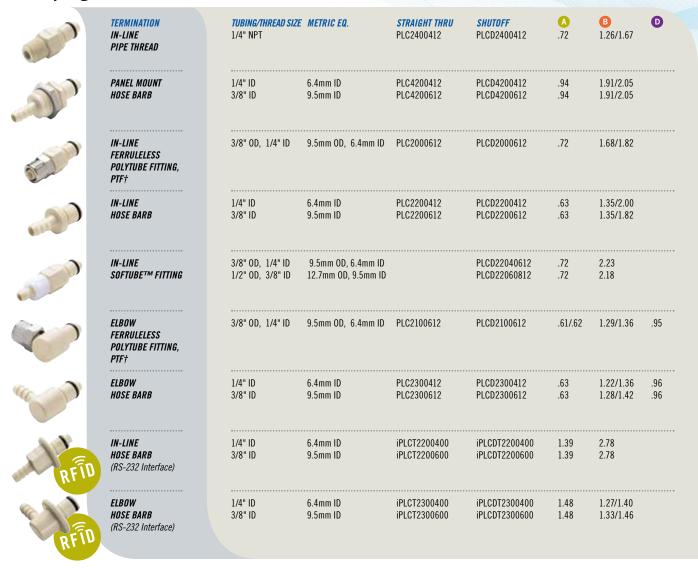


## **PLC12 Coupling Readers • POLYPROPYLENE**



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**



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.

