

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, 6.4mm to 9.5mm ID

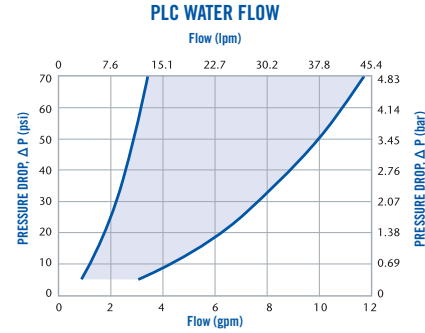
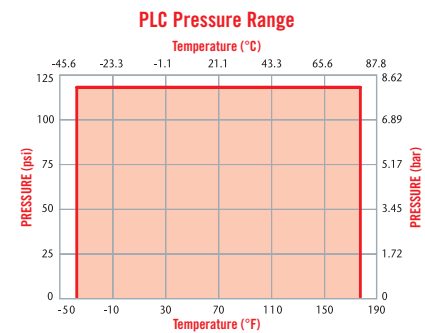
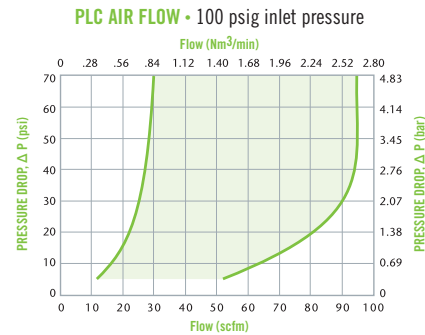
JG[®] Tubing Specifications:
Tube tolerances: 1/4" OD, +0.001/-0.004 | 3/8" OD, +0.001/-0.004
Tube Types: Plastic tube: Polyethylene, nylon, polyurethane. For soft or thin wall tubing with JG[®] terminations, tube supports are recommended.
Metal tube: Brass, copper and mild steel



FEATURES

- 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 couplings

BENEFITS



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.

Metal or plastic quick disconnects?

Download the tech guide to learn about performance, weight, and compatibility considerations.



READ TECH GUIDE →



cpcworldwide.com/LC-HP-Plastic-Guide

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

	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

BODIES