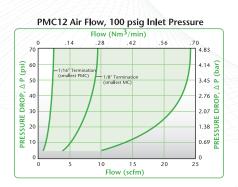
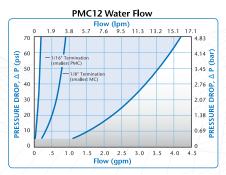
PMC12 SERIES CONNECTOR



The 1/8" flow polypropylene PMC12 offers many of the same configuration options as the PMC. The polypropylene material adds greater chemical resistance and is gamma sterilizable. The PMC12 also mates to small diameter rigid tubing. Available with a 1/4-28 flat bottom port and 1/4-28 UNF threads, these couplings eliminate the need to thread and re-thread common compression nuts each time a tubing connection is made.

FEATURES	BENEFITS
Polypropylene material	Chemically resistant and gamma- sterilizable
EPDM o-ring	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 spring and pin: Stainless steel

0-rings: EPDM

STERILIZATION:

Gamma: Up to 50 kGy irradiation

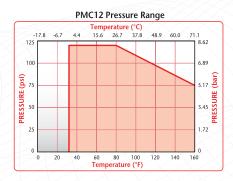
COLOR: Almond

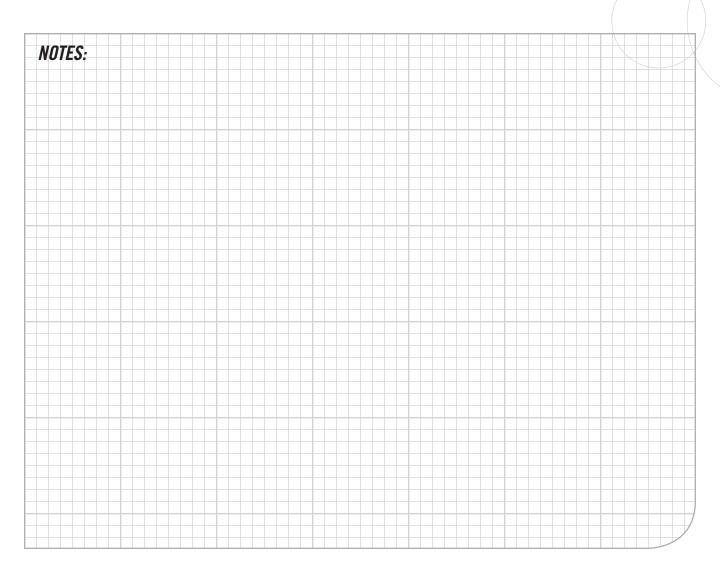
TUBING SIZES:

Microbore to 1/4" ID, Microbore to 6.4mm 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 products in their own application conditions. Use the graph to 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.





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.

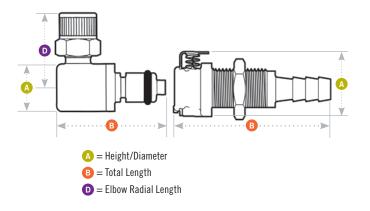


- ${f Q}~=~{\sf Flow}$ rate in gallons per minute
- C_v = Average coefficient across various flow rates (see chart)
- ΔP = Pressure drop across coupling (psi)
- S = Specific gravity of liquid

C _v VALUES F	OR 1/8" FLOW	PMC12 COUPLINGS	S
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INSERTS	PMC 200412	PMCD 200412	PMC 200612	PMCD 200612	PMC 220212	PMCD 220212	PMC 220412	PMCD 220412	PMC 240212	PMCD 240212	PMC 240412	PMC 230412	PMC 210412	PMCD 230412	PMC 220312	PMCD 220312	PMC 220112	PMCD 220112
PMC100212	.40	.18	.50	.19	.25	.16	.50	.19	.50	.20	.51	.50	.38	.24	.30	.17	.03	.03
PMCD100212	.27	.18	.31	.18	.24	.16	.28	.20	.26	.20	.29	.26	.27	.24	.25	.17	.03	.03
PMC100412	.40	.21	.50	.24	.26	.18	.50	.24	.50	.20	.51	.50	.38	.26	.30	.19	.03	.03
PMCD100412	.29	.19	.32	.23	.25	.17	.30	.23	.27	.21	.28	.28	.29	.24	.25	.18	.03	.03
PMC120412	.40	.18	.50	.18	.25	.16	.40	.18	.40	.16	.36	.40	.38	.21	.30	.17	.03	.03
PMCD120412	.21	.17	.22	.17	.20	.16	.22	.17	.21	.17	.20	.22	.21	.18	.21	.16	.03	.03
PMC160212	.23	.15	.28	.18	.19	.14	.27	.15	.27	.15	.28	.27	.23	.16	.20	.14	.03	.03
PMCD160212	.19	.15	.19	.15	.17	.14	.19	.15	.18	.15	.18	.19	.19	.15	.18	.14	.03	.03
PMC160412	.33	.23	.44	.24	.24	.18	.44	.23	.44	.20	.38	.44	.33	.26	.26	.19	.03	.03
PMCD160412	.23	.17	.26	.21	.22	.16	.26	.21	.26	.19	.25	.26	.23	.24	.22	.16	.03	.03
PMC170312	.25	.20	.30	.20	.20	.17	.30	.20	.30	.19	.28	.30	.25	.18	.21	.17	.03	.03
PMCD170312	.20	.17	.20	.17	.19	.15	.21	.17	.19	.17	.20	.20	.20	.16	.19	.16	.03	.03
PMC170112	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.02
PMCD170112	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.02	.02

PMC12 DIMENSIONS



Panel Dimensions

	PANEL OPENING	PANEL THICKNESS MAX. – MIN.	PANEL NUT HEX	PANEL NUT THREAD
COUPLING BODIES	see drawing	.50 — .05	5/8	1/2-24UNS
COUPLING INSERTS	see drawing	.30 – .06	5/8	1/2-24UNS



Coupling Bodies • POLYPROPYLENE

6	TERMINATION IN-LINE PIPE THREAD	TUBING/THREAD SIZE 1/8" NPT 1/8" BSPT 1/4" NPT 1/4" BSPT	METRIC EQ.	STRAIGHT THRU PMC100212 PMC100212BSPT PMC100412 PMC100412BSPT	SHUTOFF PMCD100212 PMCD100212BSPT PMCD100412 PMCD100412BSPT	A .88 .88 .88	B 1.00 1.00 1.10 1.10
e Train	PANEL MOUNT FERRULEIESS POLYTUBE FITTING, PTF†	1/4" OD, .17" ID	6.4mm OD, 4.3mm ID	PMC120412	PMCD120412	.79	1.72
M	PANEL MOUNT HOSE BARB	1/16" ID 1/8" ID 1/4" ID	1.6mm ID 3.2mm ID 6.4mm ID	PMC160112 PMC160212 PMC160412	PMCD160112 PMCD160212 PMCD160412	.88 .88 .88	1.40 1.65 1.85
	IN-LINE FERRULELESS POLYTUBE FITTING, PTF†	1/4" OD, .17" ID	6.4mm OD, 4.3mm ID	PMC130412	PMCD130412	.89	1.74
5	IN-LINE HOSE BARB	1/16" ID 1/8" ID 1/4" ID	1.6mm ID 3.2mm ID 6.4mm ID	PMC170112 PMC170212 PMC170412	PMCD170112 PMCD170212 PMCD170412	.89 .89 .89	1.42 1.67 1.87

PMC12 1/4-28 Coupling Bodies • POLYPROPYLENE



All measurements are in inches (millimeters) unless otherwise noted. Tubing must meet stated inside and outside diameters. †NOTE: CPC's Ferruleless PTF (polytube fitting) terminations do not require ferrules to achieve a secure connection and are therefore easier to use and reuse. PTF fittings are designed for semi-rigid tubing, i.e., polyethylene, nylon, polyurethane, etc.

Coupling Inserts • POLYPROPYLENE

	TERMINATION IN-LINE PIPE THREAD	TUBING/THREAD SIZE 1/8" NPT	E METRIC EQ.	STRAIGHT THRU PMC240212	SHUTOFF PMCD240212	A .58	B 1.03/1.45	0
	IN-LINE FERRULELESS POLYTUBE FITTING, PTF†	1/4" OD, .17" ID	6.4mm OD, 4.3mm ID	PMC200412	PMCD200412	.58	1.15/1.58	
	IN-LINE HOSE BARB (non-valved shown)	1/16" ID 1/8" ID 1/4" ID	1.6mm ID 3.2mm ID 6.4mm ID	PMC220112 PMC220212 PMC220412	PMCD220112 PMCD220212 PMCD220412	.50 .50 .50	.80/1.47 1.05/1.67 1.20/1.71	
on the	IN-LINE STRAIGHT THREAD PORT SAE	5/16 SAE-5		PMC24082012	PMCD24082012	.72	1.05/1.15	••••••
	ELBOW FERRULELESS POLYTUBE FITTING, PTF†	5/32" OD, .10" ID 1/4" OD, .17" ID	4.0mm OD, 2.5mm ID 6.4mm OD, 4.3mm ID	PMC2102512 PMC210412	PMCD2102512 PMCD210412	.50 .50	1.09/1.21 1.17/1.21	.77 .77
Wall of the same	ELBOW HOSE BARB	1/8" ID 1/4" ID	3.2mm ID 6.4mm ID	PMC230212 PMC230412	PMCD230212 PMCD230412	.50 .50	1.09/1.21 1.09/1.21	.69 .90

PMC12 1/4-28 Coupling Inserts • POLYPROPYLENE

	TERMINATION IN-LINE WITH 1/4-28 UNF THREADS	STRAIGHT PMC2404		.50	1.48	
D)	PANEL MOUNT WITH A 1/4-28 FLAT BOTTOM PORT		PMCD48042812	.72	1.55	••••••

Nuts Ferrules



TUBING SIZE	DESCRIPTION	PAR	T NUMBE
L/16" and 1.8mm	1/4-28 Polypropylene Nut	(natural)	2418900
L/8" and 3mm	1/4-28 Polypropylene Nut	(natural)	2419000
L/16" and 1.8mm	1/4-28 Acetal Nut (black)		2419199
1/8" and 3mm	1/4-28 Acetal Nut (black)		2419299



TUBING SIZE 1/16" $1.8 \mathrm{mm}$ 3.0mm

DESCRIPTION Ferrule, ETFE (blue) Ferrule, ETFE (yellow) Ferrule, ETFE (green) Ferrule, ETFE (orange)

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 PTF (polytube fitting) terminations do not require ferrules to achieve a secure connection and are therefore easier to use and reuse. PTF fittings are designed for semi-rigid tubing, i.e., polyethylene, nylon, polyurethane, etc.