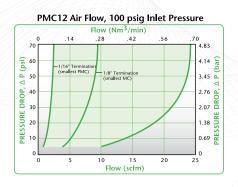


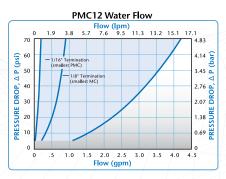
## PMC12 SERIES CONNECTOR



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

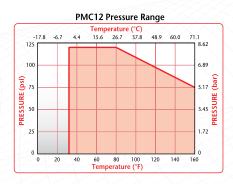
COLOR: Almond

#### **TUBING SIZES:**

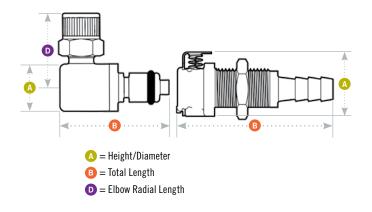
Microbore to 1/4" ID, Microbore to 6.4mm ID

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.



# PMC12 DIMENSIONS



### Panel Dimensions

	PANEL OPENING	PANEL THICKNESS MAX. – MIN.	PANEL NUT HEX	PANEL NUT THREAD
<b>COUPLING BODIES</b>	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	.88 .88 .88 .88	B 1.00 1.00 1.10 1.10
P. Company	PANEL MOUNT FERRULELESS POLYTUBE FITTING, PTF†	1/4" OD, .17" ID	6.4mm OD, 4.3mm ID	PMC120412	PMCD120412	.79	1.72
EN .	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. tNOTE: 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	<b>TUBING/THREAD SIZE</b> 1/8" NPT	METRIC EQ.	STRAIGHT THRU PMC240212	SHUTOFF PMCD240212	.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	••••••
	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
Was a	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 TF PMC240428		.50	B 1.48	
PANEL MOUNT WITH A 1/4-28 FLAT BOTTOM PORT		PMCD48042812	.72	1.55	

#### **Nuts Ferrules**





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.

## **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)
- $\Delta P$  = Pressure drop across coupling (psi)
- S = Specific gravity of liquid

### C<sub>v</sub> Values for 1/8" Flow PMC12 couplings

, ,,,,,,,,		, 0			0.2															
INSERTS	PMC12 2004	PMCD12 <b>2004</b>	PMC12 2006	PMCD12 <b>2006</b>	PMC12 2202	PMCD12 <b>2202</b>	PMC12 2204	PMCD12 <b>2204</b>	PMC12 <b>2402</b>	PMCD12 <b>2402</b>	PMC12 <b>2404</b>	PMCD12 <b>2304</b>	PMC12 <b>2602</b>	PMCD12 <b>2304</b>	PMC12 <b>2104</b>	PMCD12 <b>2304</b>	PMC12 <b>2203</b>	PMCD12 <b>2203</b>	PMC12 <b>2201</b>	PMCD12 <b>2201</b>
PMC100212	.40	.18	.50	.19	.25	.16	.50	.19	.50	.20	.51	.19	.50	.50	.38	.24	.30	.17	.03	.03
PMCD100212	.27	.18	.31	.18	.24	.16	.28	.20	.26	.20	.29	.18	.26	.26	.27	.24	.25	.17	.03	.03
PMC100412	.40	.21	.50	.24	.26	.18	.50	.24	.50	.20	.51	.24	.50	.50	.38	.26	.30	.19	.03	.03
PMCD100412	.29	.19	.32	.23	.25	.17	.30	.23	.27	.21	.28	.23	.27	.28	.29	.24	.25	.18	.03	.03
PMC120412	.40	.18	.50	.18	.25	.16	.40	.18	.40	.16	.36	.18	.40	.40	.38	.21	.30	.17	.03	.03
PMCD120412	.21	.17	.22	.17	.20	.16	.22	.17	.21	.17	.20	.17	.21	.22	.21	.18	.21	.16	.03	.03
PMC160212	.23	.15	.28	.18	.19	.14	.27	.15	.27	.15	.28	.18	.27	.27	.23	.16	.20	.14	.03	.03
PMCD160212	.19	.15	.19	.15	.17	.14	.19	.15	.18	.15	.18	.15	.18	.19	.19	.15	.18	.14	.03	.03
PMC160412	.33	.23	.44	.24	.24	.18	.44	.23	.44	.20	.38	.24	.38	.44	.33	.26	.26	.19	.03	.03
PMCD160412	.23	.17	.26	.21	.22	.16	.26	.21	.26	.19	.25	.21	.21	.26	.23	.24	.22	.16	.03	.03
PMC170312	.25	.20	.30	.20	.20	.17	.30	.20	.30	.19	.28	.20	.28	.30	.25	.18	.21	.17	.03	.03
PMCD170312	.20	.17	.20	.17	.19	.15	.21	.17	.19	.17	.20	.17	.19	.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	.03	.03	.02
PMCD170112	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.02	.02
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