

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.



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

O-rings: EPDM

STERILIZATION:

Gamma: Up to 50 kGy irradiation

COLOR:

Almond

TUBING SIZES:

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



cpcworldwide.com/PMC12

FEATURES

Polypropylene material

EPDM o-ring

CPC thumb latch

Integral terminations

BENEFITS

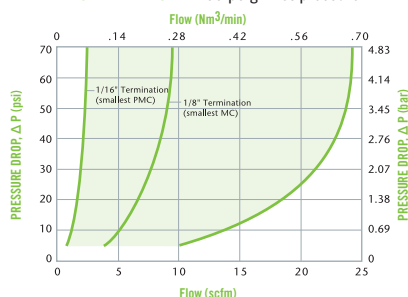
Chemically resistant and gamma sterilizable

Greater chemical resistance

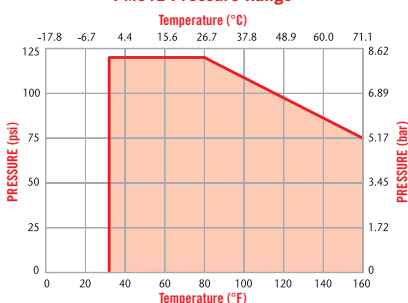
One-hand connection and disconnection

Fewer leak points, shorter assemblies, faster installations

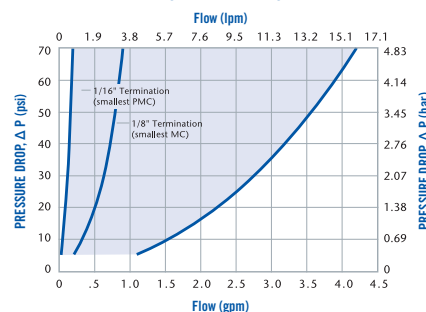
PMC12 AIR FLOW • 100 psig inlet pressure



PMC12 Pressure Range



PMC12 WATER FLOW



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.



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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)

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

S = Specific gravity of liquid

C_v VALUES

INSERTS

[illegible]

PMC12 SERIES DIMENSIONS

COUPLING BODIES - Polypropylene

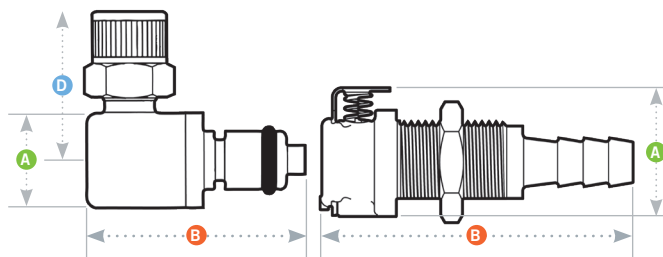
	TERMINATION	TUBING/THREAD SIZE	METRIC EQ	STRAIGHT THRU	SHUTOFF	A	B
	IN-LINE PIPE THREAD	1/8" NPT		PMC100212	PMCD100212	0.88 (22.4)	1 (25.4)
		1/8" BSPT			PMCD100212BSPT	0.88 (22.4)	1 (25.4)
		1/4" NPT		PMC100412	PMCD100412	0.88 (22.4)	1.1 (27.9)
		1/4" BSPT		PMC100412BSPT	PMCD100412BSPT	0.88 (22.4)	1.1 (27.9)
	PANEL MOUNT FERRULELESS POLYTUBE FITTING, PTF†	1/4" OD, 0.17" ID	6.4 mm OD, 4.3 mm ID	PMC120412	PMCD120412	0.79 (20.1)	1.72 (43.7)
	PANEL MOUNT HOSE BARB	1/16" ID	1.6 mm ID	PMC160112	PMCD160112	0.88 (22.4)	1.4 (35.6)
		1/8" ID	3.2 mm ID	PMC160212	PMCD160212	0.88 (22.4)	1.65 (41.9)
		1/4" ID	6.4 mm ID	PMC160412	PMCD160412	0.88 (22.4)	1.85 (47.0)
	IN-LINE FERRULELESS POLYTUBE FITTING, PTF†	1/4" OD, 0.17" ID	6.4 mm OD, 4.3 mm ID		PMCD130412	0.89 (22.6)	1.74 (44.2)
	IN-LINE HOSE BARB	1/16" ID	1.6 mm ID	PMC170112	PMCD170112	0.89 (22.6)	1.42 (36.1)
		1/8" ID	3.2 mm ID	PMC170212	PMCD170212	0.89 (22.6)	1.67 (42.4)
		1/4" ID	6.4 mm ID	PMC170412	PMCD170412	0.89 (22.6)	1.87 (47.5)

PMC12 1/4-28 COUPLING BODIES - Polypropylene

	TERMINATION	SHUTOFF	A	B
	TERMINATION PANEL MOUNT WITH A 1/4-28 FLAT BOTTOM PORT	PMCD18042812	0.88 (22.4)	1.57 (39.9)
	IN-LINE WITH A 1/4-28 FLAT BOTTOM PORT	PMCD19042812	0.89 (22.6)	1.57 (39.9)

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™ 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.

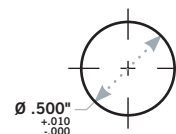
PRODUCT DIMENSIONS



- A = Height/Diameter
- B = Total Length
- D = Elbow Radial Length

PANEL DIMENSIONS

	PANEL OPENING	PANEL THICKNESS MAX. – MIN.	PANEL NUT HEX	PANEL NUT THREAD
COUPLING BODIES	see drawing	0.50 – 0.05	5/8	1/2-24UNS
COUPLING INSERTS	see drawing	0.30 – 0.06	5/8	1/2-24UNS



COUPLING INSERTS - Polypropylene

	TERMINATION	TUBING/THREAD SIZE	METRIC EQ	STRAIGHT THRU	SHUTOFF	A	B	D
	IN-LINE PIPE THREAD	1/8" NPT		PMC240212	PMCD240212	0.58 (14.7)	1.03/1.45 (26.16/36.83)	
	PANEL MOUNT IN-LINE HOSE BARB	1/16" ID	3.2 mm ID	PMC420212	PMCD420212	0.72 (18.3)	1.74/1.82 (44.2/46.2)	
		1/8" ID	1.6 mm ID		PMCD420112	0.72 (18.3)	1.57 (39.9)	
		1/4" ID	6.4 mm ID		PMCD420412	0.72 (18.3)	2.04 (51.8)	
		1/4" ID	6.4 mm ID		PMCD400412	0.72 (18.3)	1.81 (46.0)	
	IN-LINE FERRULELESS POLYTUBE FITTING, PTF†	1/4" OD, 0.17" ID	6.4 mm OD, 4.3 mm ID	PMC200412	PMCD200412	0.58 (14.7)	1.15/1.58 (29.2/40.1)	
	IN-LINE HOSE BARB (NON-VALVED SHOWN)	1/16" ID	1.6 mm ID	PMC220112	PMCD220112	0.5 (12.7)	0.80/1.47 (20.3/37.3)	
		1/8" ID	3.2 mm ID	PMC220212	PMCD220212	0.5 (12.7)	1.05/1.67 (26.7/42.4)	
		1/4" ID	6.4 mm ID	PMC220412	PMCD220412	0.5 (12.7)	1.20/1.71 (30.5/43.4)	
	IN-LINE STRAIGHT THREAD PORT SAE	5/16 SAE-5		PMC24082012		0.72 (18.3)	1.05/1.15 (26.7/29.2)	
	ELBOW FERRULELESS POLYTUBE FITTING, PTF†	5/32" OD, 0.10" ID	4.0 mm OD, 2.5 mm ID	PMC2102512	PMCD2102512	0.5 (12.7)	1.09/1.21 (27.7/30.7)	0.77 (19.6)
		1/4" OD, 0.17" ID	6.4 mm OD, 4.3 mm ID	PMC210412	PMCD210412	0.5 (12.7)	1.17/1.21 (29.7/30.7)	0.77 (19.6)
	ELBOW HOSE BARB	1/8" ID	3.2 mm ID	PMC230212	PMCD230212	0.5 (12.7)	1.09/1.21 (27.7/30.7)	0.69 (17.5)
		1/4" ID	6.4 mm ID	PMC230412	PMCD230412	0.5 (12.7)	1.09/1.21 (27.7/30.7)	0.9 (22.8)

PMC12 1/4-28 COUPLING INSERTS - Polypropylene

	TERMINATION	STRAIGHT THRU	SHUTOFF	A	B	D
	IN-LINE WITH 1/4-28 UNF THREADS	PMC24042812	PMCD24042812	0.50 (12.70)	1.5 37.6	
	PANEL MOUNT WITH A 1/4-28 FLAT BOTTOM PORT		PMCD48042812	0.72 (18.29)	1.6 39.4	

NUTS

TUBING SIZE	DESCRIPTION	PART NO.
1/16" and 1.8 mm	1/4-28 Polypropylene Nut (natural)	2418900
1/8" and 3 mm	1/4-28 Polypropylene Nut (natural)	2419000

FERRULES

TUBING SIZE	DESCRIPTION	PART NO.
1/16"	Ferrule, ETFE (blue)	2419300
1/8"	Ferrule, ETFE (yellow)	2419400

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WARRANTY: All sales are subject to the Colder Products Company® limited express warranty set forth in the CPC catalog. Contact your local distributor or CPC Customer Service for warranty provisions.

Warning: Due to the wide variety of possible fluid media and operating conditions, unintended consequences may result from the use of this product, all of which are beyond the control of CPC. It is the user's responsibility to carefully determine and test for compatibility for use with their application. All such risks shall be assumed by the buyer.

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