



PMC SERIES

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:

1/16" to 1/4" ID, 1.6mm 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 Colder products in their own application conditions.

Don't forget: you can always visit www.colder.com for more product information.

The 1/8" flow PMC coupling covers a wide variety of general-purpose applications. Featuring the Colder thumb latch, the PMC is easier to use than ball-and-sleeve designs. One-hand connection/disconnection and integral terminations make the PMC the choice for ease of use and manufacture.

This coupling is NuSeal compatible. See page 25 for details.

Features

Hose barb shroud
Integral terminations

Compatible

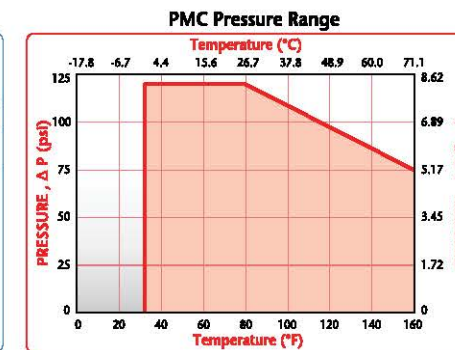
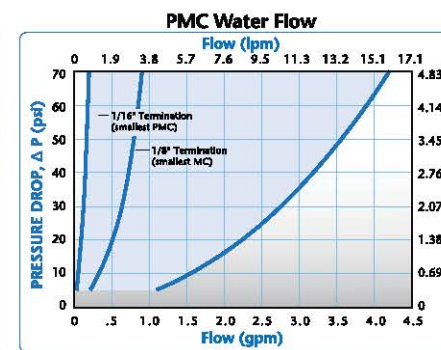
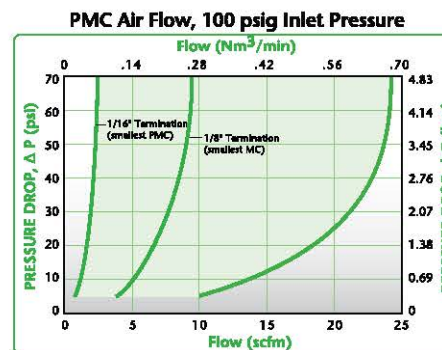
Clicks when connected

Benefits

Extra protection for the 1/16" hose barb
Fewer leak points, shorter assemblies, faster installations

Mates with PMC12 and MC Series couplings (see pages 20 and 24)

Assurance of a reliable connection



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 Rates

Liquid Flow Rate Information for Couplings

The chart below shows the flow rate for Colder 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 for 1/8" Flow PMC Couplings

BODIES	PMC 2004	PMCD 2004	PMC 2006	PMCD 2006	PMC 2202	PMCD 2202	PMC 2204	PMCD 2204	PMC 2402	PMCD 2402	PMC 2404	PMCD 2404	PMC 2602	PMC 2304	PMCD 2104	PMC 2304	PMCD 2203	PMC 2203	PMC 2201	PMCD 2201
PMC1002	.40	.18	.50	.19	.25	.16	.50	.19	.50	.20	.51	.19	.50	.50	.38	.24	.30	.17	.03	.03
PMCD1002	.27	.18	.31	.18	.24	.16	.28	.20	.26	.20	.29	.18	.26	.26	.27	.24	.25	.17	.03	.03
PMC1004	.40	.21	.50	.24	.26	.18	.50	.24	.50	.20	.51	.24	.50	.50	.38	.26	.30	.19	.03	.03
PMCD1004	.29	.19	.32	.23	.25	.17	.30	.23	.27	.21	.28	.23	.27	.28	.29	.24	.25	.18	.03	.03
PMC1204	.40	.18	.50	.18	.25	.16	.40	.18	.40	.16	.36	.18	.40	.40	.38	.21	.30	.17	.03	.03
PMCD1204	.21	.17	.22	.17	.20	.16	.22	.17	.21	.17	.20	.17	.21	.22	.21	.18	.21	.16	.03	.03
PMC1602	.23	.15	.28	.18	.19	.14	.27	.15	.27	.15	.28	.18	.27	.27	.23	.16	.20	.14	.03	.03
PMCD1602	.19	.15	.19	.15	.17	.14	.19	.15	.18	.15	.18	.15	.18	.19	.19	.15	.18	.14	.03	.03
PMC1604	.33	.23	.44	.24	.24	.18	.44	.23	.44	.20	.38	.24	.38	.44	.33	.26	.26	.19	.03	.03
PMCD1604	.23	.17	.26	.21	.22	.16	.26	.21	.26	.19	.25	.21	.21	.26	.23	.24	.22	.16	.03	.03
PMC1703	.25	.20	.30	.20	.20	.17	.30	.20	.30	.19	.28	.20	.28	.30	.25	.18	.21	.17	.03	.03
PMCD1703	.20	.17	.20	.17	.19	.15	.21	.17	.19	.17	.20	.17	.19	.20	.20	.16	.19	.16	.03	.03
PMC1701	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.02
PMCD1701	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.02



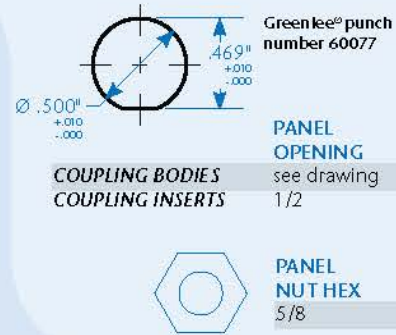
DID YOU KNOW ...

CAD models are available for all Colder couplings. These files are available in many formats including STEP, IGES and native file formats. You can see them online at www.colder.com.

Coupling Bodies

ACETAL

TERMINATION	THREAD SIZE	STRAIGHT THRU	SHUTOFF	A	B
IN-LINE PIPE THREAD	1/8" NPT	PMC1002	PMCD1002	.79	1.00
	1/8" BSPT	PMC1002BSPT	PMCD1002BSPT	.79	1.00
	1/4" NPT	PMC1004	PMCD1004	.79	1.10
	1/4" BSPT	PMC1004BSPT	PMCD1004BSPT	.79	1.10
PANEL MOUNT FERRULELESS POLYTUBE FITTING, PTF†	5/32" OD, .10" ID	PMC12M42	PMCD12M42	.77	1.65
	1/4" OD, .17" ID	PMC1204	PMCD1204	.77	1.72
PANEL MOUNT HOSE BARB	1/16" ID	PMC1601	PMCD1601	.77	1.40
	1/8" ID	PMC1602	PMCD1602	.77	1.65
	3/16" ID	PMC1603	PMCD1603	.77	1.85
	1/4" ID	PMC1604	PMCD1604	.77	1.85
PANEL MOUNT FEMALE THREAD	10-32 UNF	PMC181032	PMCD181032	.77	1.25
IN-LINE FERRULELESS POLYTUBE FITTING, PTF†	5/32" OD, .10" ID	PMC13M42	PMCD13M42	.81	1.65
	1/4" OD, .17" ID	PMC1304	PMCD1304	.81	1.75
IN-LINE HOSE BARB	1/16" ID	PMC1701	PMCD1701	.81	1.41
	1/8" ID	PMC1702	PMCD1702	.81	1.45/1.65
	3/16" ID	PMC1703	PMCD1703	.81	1.65/1.85
	1/4" ID	PMC1704	PMCD1704	.81	1.65/1.85
IN-LINE FEMALE THREAD	10-32 UNF	PMC191032	PMCD191032	.81	1.25



	PANEL OPENING	MAX. PANEL THICKNESS	MIN. PANEL THICKNESS
COUPLING BODIES	see drawing	.50	.05
COUPLING INSERTS	1/2	.30	.05

	PANEL NUT HEX	PANEL NUT THREAD
	5/8	1/2-24UNF

Coupling Inserts ACETAL

TERMINATION	THREAD SIZE	STRAIGHT THRU	SHUTOFF	A	B
IN-LINE PIPE THREAD	1/8" NPT	PMC2402	PMCD2402	.58	1.03/1.45
	1/8" BSPT	PMC2402BSPT	PMCD2402BSPT	.58	1.03/1.44
	1/4" NPT	PMC2404	PMCD2404	.65	1.13/1.42
	1/4" BSPT	PMC2404BSPT	PMCD2404BSPT	.65	1.13/1.42
PANEL MOUNT FERRULELESS POLYTUBE FITTING, PTF†	1/4" OD, .17" ID	PMC4004	PMCD4004	.72	1.70/1.82
PANEL MOUNT HOSE BARB	1/16" ID	PMC4201	PMCD4201	.72	1.38/1.50
	1/8" ID	PMC4202	PMCD4202	.72	1.63/1.75
	3/16" ID	PMC4203	PMCD4203	.72	1.83/1.95
	1/4" ID	PMC4204	PMCD4204	.72	1.83/1.95
IN-LINE FERRULELESS POLYTUBE FITTING, PTF†	5/32" OD, .10" ID	PMC20M42	PMCD20M42	.58	1.08/1.60
	1/4" OD, .17" ID	PMC2004	PMCD2004	.58	1.15/1.57
	3/8" OD, .25" ID	PMC2006	PMCD2006	.65	1.40/1.52
IN-LINE HOSE BARB	1/16" ID	PMC2201	PMCD2201	.50	.80/1.47
	1/8" ID	PMC2202	PMCD2202	.50	1.00/1.67
	3/16" ID	PMC2203	PMCD2203	.50	1.20/1.88
	1/4" ID	PMC2204	PMCD2204	.50	1.22/1.70
IN-LINE FEMALE THREAD	10-32 UNF	PMC281032	PMCD281032	.58	.63/1.31
ELBOW FERRULELESS POLYTUBE FITTING, PTF†	5/32" OD, .10" ID	PMC21025	PMCD21025	.50	1.17
	1/4" OD, .17" ID	PMC2104	PMCD2104	.50	1.17/1.21
ELBOW HOSE BARB	1/8" ID	PMC2302	PMCD2302	.50	.85/1.21
	1/4" ID	PMC2304	PMCD2304	.50	1.00/1.21

Also available in NSF listed versions, please visit our web site for part number information.

All measurements are in inches (millimeters) unless otherwise noted. Tubing must meet stated inside and outside diameters. **†NOTE:** Colder'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.

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:** Colder'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.