



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

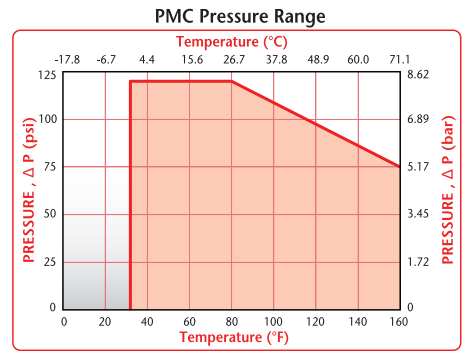
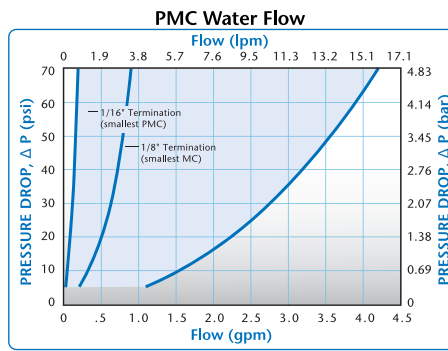
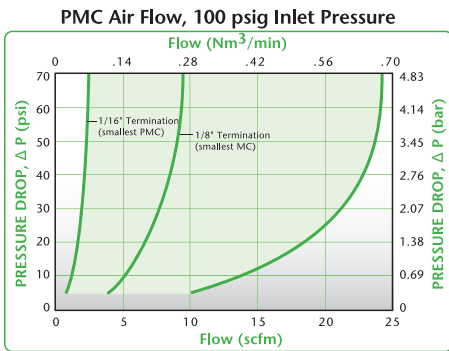
**WARNING:** Pressure, temperature, chemicals, and operating environment can affect the performance of couplings. It is the customer's responsibility to test the suitability of Colder products in their own application conditions.

Don't forget: you can always visit [www.colder.com](http://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	Benefits
Hose barb shroud	Extra protection for the 1/16" hose barb
Integral terminations	Fewer leak points, shorter assemblies, faster installations
Compatible	Mates with PMC12 and MC Series couplings (see pages 20 and 24)
Clicks when connected	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<sub>v</sub>=Average coefficient across various flow rates (see chart)  
 ΔP=Pressure drop across coupling (psi)  
 S=Specific gravity of liquid

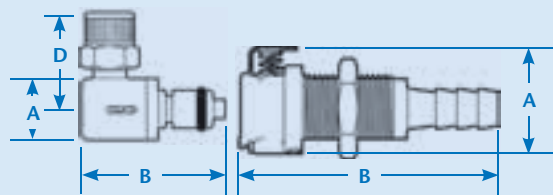
### C<sub>v</sub> Values for 1/8" Flow PMC Couplings

BODIES	PMC 2004		PMC 2006		PMC 2202		PMC 2204		PMC 2402		PMC 2404		PMC 2602	PMC 2304	PMC 2104	PMC 2304	PMC 2203	PMC 2203	PMC 2201	PMC 2201
	PMCD	PMCD	PMCD	PMCD	PMCD	PMCD	PMCD	PMCD	PMCD	PMCD										
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

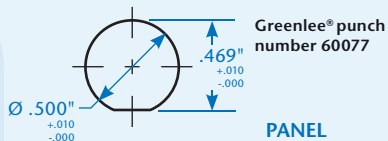


## DID YOU KNOW ...

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](http://www.colder.com).



A = Height/Diameter  
B = Total Length (including valve)  
D = Elbow Radial Length



	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	1/2-24UNS


## Coupling Bodies

### ACETAL

	<b>TERMINATION</b> IN-LINE PIPE THREAD	<b>THREAD SIZE</b> 1/8" NPT 1/8" BSPT 1/4" NPT 1/4" BSPT		<b>STRAIGHT THRU</b> PMC1002 PMC1002BSPT PMC1004 PMC1004BSPT	<b>SHUTOFF</b> PMCD1002 PMCD1002BSPT PMCD1004 PMCD1004BSPT	<b>A</b> .79 .79 .79 .79	<b>B</b> 1.00 1.00 1.10 1.10
	<b>TERMINATION</b> PANEL MOUNT FERRULELESS POLYTUBE FITTING, PTF†	<b>TUBING SIZE</b> 5/32" OD, .10" ID 1/4" OD, .17" ID	<b>METRIC EQ.</b> 4.0mm OD, 2.0mm ID 4.0mm OD, 2.5mm ID 6.4mm OD, 4.3mm ID	<b>STRAIGHT THRU</b> PMC12M42 PMC12025 PMC1204	<b>SHUTOFF</b> PMCD12M42 PMCD12025 PMCD1204	<b>A</b> .77 .77 .77	<b>B</b> 1.65 1.70 1.72
	<b>TERMINATION</b> PANEL MOUNT HOSE BARB	<b>TUBING SIZE</b> 1/16" ID 1/8" ID 3/16" ID 1/4" ID	<b>METRIC EQ.</b> 1.6mm ID 3.2mm ID 4.8mm ID 6.4mm ID	<b>STRAIGHT THRU</b> PMC1601 PMC1602 PMC1603 PMC1604	<b>SHUTOFF</b> PMCD1601 PMCD1602 PMCD1603 PMCD1604	<b>A</b> .77 .77 .77 .77	<b>B</b> 1.40 1.65 1.85 1.85
	<b>TERMINATION</b> PANEL MOUNT FEMALE THREAD	<b>THREAD SIZE</b> 10-32 UNF		<b>STRAIGHT THRU</b> PMC181032	<b>SHUTOFF</b> PMCD181032	<b>A</b> .77	<b>B</b> 1.25
	<b>TERMINATION</b> IN-LINE FERRULELESS POLYTUBE FITTING, PTF†	<b>TUBING SIZE</b> 5/32" OD, .10" ID 1/4" OD, .17" ID	<b>METRIC EQ.</b> 4.0mm OD, 2.0mm ID 4.0mm OD, 2.5mm ID 5.0mm OD, 3.0mm ID 6.4mm OD, 4.3mm ID	<b>STRAIGHT THRU</b> PMC13M42 PMC13025 PMC13M5 PMC1304	<b>SHUTOFF</b> PMCD13M42 PMCD13025 PMCD13M5 PMCD1304	<b>A</b> .81 .81 .81 .81	<b>B</b> 1.65 1.65 1.72 1.75
	<b>TERMINATION</b> IN-LINE HOSE BARB	<b>TUBING SIZE</b> 1/16" ID 1/8" ID 3/16" ID 1/4" ID	<b>METRIC EQ.</b> 1.6mm ID 3.2mm ID 4.8mm ID 6.4mm ID	<b>STRAIGHT THRU</b> PMC1701 PMC1702 PMC1703 PMC1704	<b>SHUTOFF</b> PMCD1701 PMCD1702 PMCD1703 PMCD1704	<b>A</b> .81 .81 .81 .81	<b>B</b> 1.41 1.45 1.65 1.65
	<b>TERMINATION</b> IN-LINE FEMALE THREAD	<b>THREAD SIZE</b> 10-32 UNF		<b>STRAIGHT THRU</b> PMC191032	<b>SHUTOFF</b> PMCD191032	<b>A</b> .81	<b>B</b> 1.25

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.

# Coupling Inserts ACETAL

<b>TERMINATION</b> IN-LINE PIPE THREAD	<b>THREAD SIZE</b>		<b>STRAIGHT THRU</b>	<b>SHUTOFF</b>	<b>A</b>	<b>B</b>		
	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			
<b>TERMINATION</b> PANEL MOUNT FERRULELESS POLYTUBE FITTING, PTF†	<b>TUBING SIZE</b>	<b>METRIC EQ.</b>	<b>STRAIGHT THRU</b>	<b>SHUTOFF</b>	<b>A</b>	<b>B</b>	 non-valved shown	
	1/4" OD, .17" ID	6.4mm OD, 4.3mm ID	PMC4004	PMCD4004	.72	1.70/1.82		
<b>TERMINATION</b> PANEL MOUNT HOSE BARB	<b>TUBING SIZE</b>	<b>METRIC EQ.</b>	<b>STRAIGHT THRU</b>	<b>SHUTOFF</b>	<b>A</b>	<b>B</b>		
	1/16" ID	1.6mm ID	PMC4201	PMCD4201	.72	1.38/1.50		
	1/8" ID	3.2mm ID	PMC4202	PMCD4202	.72	1.63/1.75		
	3/16" ID	4.8mm ID	PMC4203	PMCD4203	.72	1.83/1.95		
1/4" ID	6.4mm ID	PMC4204	PMCD4204	.72	1.83/1.95			
<b>TERMINATION</b> IN-LINE FERRULELESS POLYTUBE FITTING, PTF†	<b>TUBING SIZE</b>	<b>METRIC EQ.</b>	<b>STRAIGHT THRU</b>	<b>SHUTOFF</b>	<b>A</b>	<b>B</b>		
	5/32" OD, .10" ID	4.0mm OD, 2.0mm ID	PMC20M42	PMCD20M42	.58	1.08/1.60		
	1/4" OD, .17" ID	4.0mm OD, 2.5mm ID	PMC20025	PMCD20025	.58	1.13/1.65		
	3/8" OD, .25" ID	6.4mm OD, 4.3mm ID	PMC2004	PMCD2004	.58	1.15/1.57		
9.5mm OD, 6.4mm ID	PMC2006	PMCD2006	.65	1.40/1.52				
<b>TERMINATION</b> IN-LINE HOSE BARB	<b>TUBING SIZE</b>	<b>METRIC EQ.</b>	<b>STRAIGHT THRU</b>	<b>SHUTOFF</b>	<b>A</b>	<b>B</b>	 non-valved shown	
	1/16" ID	1.6mm ID	PMC2201	PMCD2201	.50	.80/1.47		
	1/8" ID	3.2mm ID	PMC2202	PMCD2202	.50	1.05/1.67		
	3/16" ID	4.8mm ID	PMC2203	PMCD2203	.50	1.20/1.88		
1/4" ID	6.4mm ID	PMC2204	PMCD2204	.50	1.22/1.70			
<b>TERMINATION</b> IN-LINE FEMALE THREAD	<b>THREAD SIZE</b>		<b>STRAIGHT THRU</b>	<b>SHUTOFF</b>	<b>A</b>	<b>B</b>		
	10-32 UNF		PMC281032	PMCD281032	.58	.63/1.31		
<b>TERMINATION</b> ELBOW FERRULELESS POLYTUBE FITTING, PTF†	<b>TUBING SIZE</b>	<b>METRIC EQ.</b>	<b>STRAIGHT THRU</b>	<b>SHUTOFF</b>	<b>A</b>	<b>B</b>	<b>D</b>	
	5/32" OD, .10" ID	4.0mm OD, 2.5mm ID	PMC21025		.50	1.17	.75	
1/4" OD, .17" ID	6.4mm OD, 4.3mm ID	PMC2104	PMCD2104	.50	1.17/1.21	.77		
<b>TERMINATION</b> ELBOW HOSE BARB	<b>TUBING SIZE</b>	<b>METRIC EQ.</b>	<b>STRAIGHT THRU</b>	<b>SHUTOFF</b>	<b>A</b>	<b>B</b>	<b>D</b>	 non-valved shown
	1/8" ID	3.2mm ID	PMC2302	PMCD2302	.50	.85/1.21	.75/.69	
1/4" ID	6.4mm ID	PMC2304	PMCD2304	.50	1.00/1.21	.95/.90		



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.

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