



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

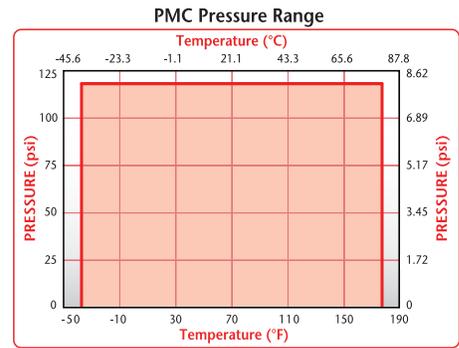
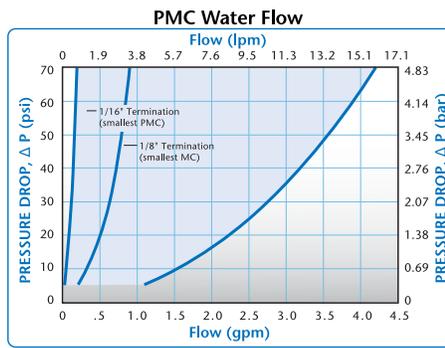
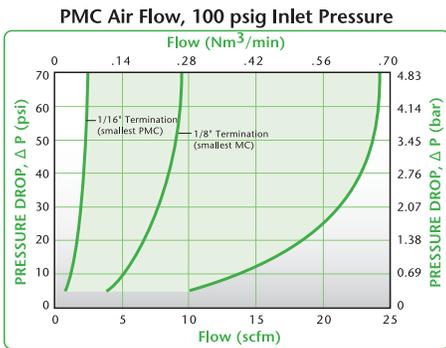
WARNING: Pressure, temperature, chemicals, and operating environment can affect the performance of couplings. It is the customer's responsibility to test the suitability of Colder products in their own application conditions.

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 33 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 28 and 32)
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_v=Average coefficient across various flow rates (see chart)
 ΔP=Pressure drop across coupling (psi)
 S=Specific gravity of liquid

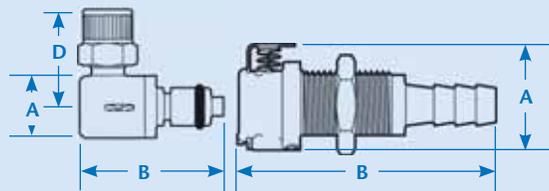
C_v Values for 1/8" Flow PMC Couplings

BODIES	PMC 2004		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
	2004	2004	2006	2006	2202	2202	2204	2204	2402	2402	2404	2404	2602	2304	2104	2304	2203	2203	2201	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	.16	.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

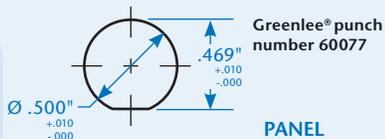


DID YOU KNOW ...

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.



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



Greenlee® punch number 60077

	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 Bodies

ACETAL

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

TERMINATION IN-LINE PIPE THREAD	THREAD SIZE		STRAIGHT THRU	SHUTOFF	A	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		
TERMINATION PANEL MOUNT FERRULELESS POLYTUBE FITTING, PTF†	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	A	B		
	1/4" OD, .17" ID	6.4mm OD, 4.3mm ID	PMC4004	PMCD4004	.72	1.70/1.82		
TERMINATION PANEL MOUNT HOSE BARB	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	A	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		
TERMINATION IN-LINE FERRULELESS POLYTUBE FITTING, PTF†	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	A	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		
TERMINATION IN-LINE HOSE BARB	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	A	B		
	1/16" ID	1.6mm ID	PMC2201	PMCD2201	.50	.80/1.47		
	1/8" ID	3.2mm ID	PMC2202	PMCD2202	.50	1.00/1.67		
	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		
TERMINATION IN-LINE FEMALE THREAD	THREAD SIZE		STRAIGHT THRU	SHUTOFF	A	B		
	10-32 UNF		PMC281032	PMCD281032	.58	.63/1.31		
TERMINATION ELBOW FERRULELESS POLYTUBE FITTING, PTF†	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	A	B	D	
	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	
TERMINATION ELBOW HOSE BARB	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	A	B	D	
	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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PM C12 SERIES



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 6.4mm ID

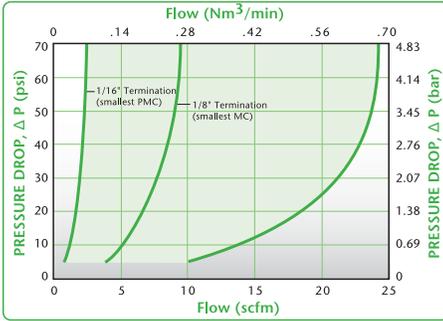
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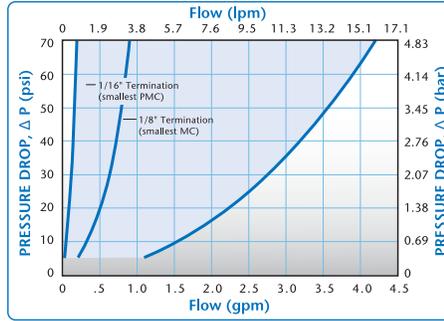
The 1/8" flow polypropylene PMC12 offers many of the same configuration options as the PMC. The polypropylene material adds greater chemical resistance and is gamma sterilizable. The PMC12 also mates to small diameter rigid tubing. Available with a 1/4-28 flat bottom port and 1/4-28 UNF threads, these 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
Colder thumb latch	One-hand connection and disconnection
Integral terminations	Fewer leak points, shorter assemblies, faster installations

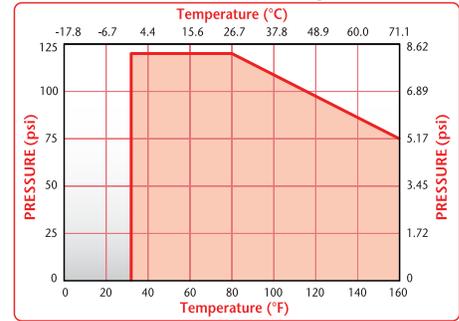
PMC12 Air Flow, 100 psig Inlet Pressure



PMC12 Water Flow



PMC12 Pressure Range



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 PMC12 Couplings

BODIES	PMC12 2004	PMCD12 2004	PMC12 2006	PMCD12 2006	PMC12 2202	PMCD12 2202	PMC12 2204	PMCD12 2204	PMC12 2402	PMCD12 2402	PMC12 2404	PMCD12 2404	PMC12 2602	PMC12 2304	PMCD12 2104	PMC12 2304	PMCD12 2203	PMC12 2203	PMCD12 2201	PMC12 2201
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	.03	.02



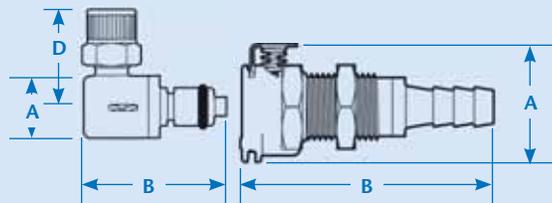
DID YOU KNOW ...

You can prevent misconnections and crossed lines to help protect people and equipment? One method of preventing tubing or line misconnection is by combining different sizes of standard couplings to make correct line connections obvious to users. The following guidelines can help:

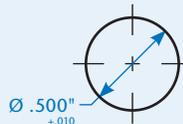
- Use one APC coupling and one PLC coupling.
- Use one MC/PMC size and one LC/PLC size.
- Use one panel mount body and one panel mount insert.
- Use Multi-Mount couplings (connect 3-5 lines simultaneously).



Product Dimensions



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	see drawing	.30	.06



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

Coupling Bodies

POLYPROPYLENE

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

PMC12 1/4-28 Coupling Bodies

POLYPROPYLENE

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

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.

POLYPROPYLENE

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



PMC12 1/4-28 Coupling Inserts

POLYPROPYLENE

TERMINATION IN-LINE WITH 1/4-28 UNF THREADS			STRAIGHT THRU PMC24042812	SHUTOFF PMCD24042812	A .50	B 1.48	
TERMINATION PANEL MOUNT WITH A 1/4-28 FLAT BOTTOM PORT				SHUTOFF PMCD48042812	A .72	B 1.55	



Nuts

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



Ferrules

TUBING SIZE	DESCRIPTION	PART NUMBER
1/16"	Ferrule, ETFE (blue)	2419300
1/8"	Ferrule, ETFE (yellow)	2419400
1.8mm	Ferrule, ETFE (green)	2419500
3.0mm	Ferrule, ETFE (orange)	2419600



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.

COLDER FASTESTER
PMC12 SERIES