



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

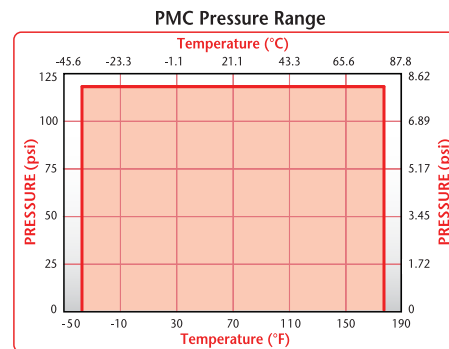
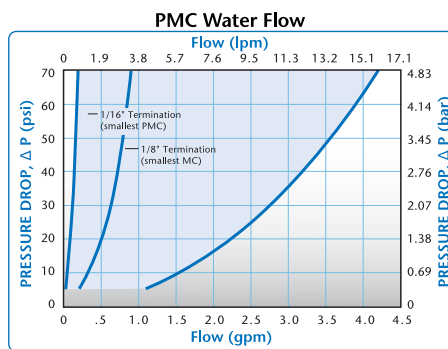
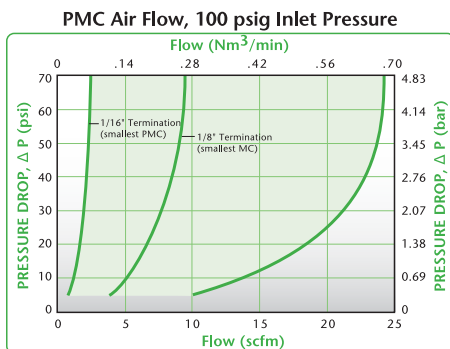
WARNING: Pressure, temperature, chemicals, and operating environment can affect the performance of couplings. It is the customer's responsibility to test the suitability of Colder products in their own application conditions.

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	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 2304	PMC 2203	PMCD 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
PMCD1002	.27	.18	.31	.18	.24	.16	.28	.20	.26	.20	.29	.18	.26	.26	.27	.24	.25	.17	.03
PMC1004	.40	.21	.50	.24	.26	.18	.50	.24	.50	.20	.51	.24	.50	.50	.38	.26	.30	.19	.03
PMCD1004	.29	.19	.32	.23	.25	.17	.30	.23	.27	.21	.28	.23	.27	.28	.29	.24	.25	.18	.03
PMC1204	.40	.18	.50	.18	.25	.16	.40	.18	.40	.16	.36	.18	.40	.40	.38	.21	.30	.17	.03
PMCD1204	.21	.17	.22	.17	.20	.16	.22	.17	.21	.17	.20	.17	.21	.22	.21	.18	.21	.16	.03
PMC1602	.23	.15	.28	.18	.19	.14	.27	.15	.27	.15	.28	.18	.27	.27	.23	.16	.20	.14	.03
PMCD1602	.19	.15	.19	.15	.17	.14	.19	.15	.18	.15	.18	.15	.18	.19	.19	.15	.18	.14	.03
PMC1604	.33	.23	.44	.24	.24	.18	.44	.23	.44	.20	.38	.24	.38	.44	.33	.26	.26	.19	.03
PMCD1604	.23	.17	.26	.21	.22	.16	.26	.21	.26	.19	.25	.21	.21	.26	.23	.24	.22	.16	.03
PMC1703	.25	.20	.30	.20	.20	.17	.30	.20	.30	.19	.28	.20	.28	.30	.25	.18	.21	.17	.03
PMCD1703	.20	.17	.20	.17	.19	.15	.21	.17	.19	.17	.20	.17	.19	.20	.20	.16	.19	.16	.03
PMC1701	.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	.02	.02



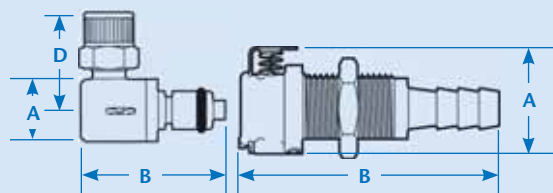
DID YOU KNOW ...

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.

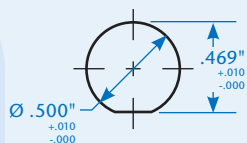


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A = Height/Diameter
B = Total Length (including valve)
D = Elbow Radial Length



Greenlee® punch
number 60077

COUPLING BODIES
COUPLING INSERTS

PANEL OPENING	MAX. PANEL THICKNESS	MIN. PANEL THICKNESS
see drawing	.50	.05
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 1/8" NPT 1/8" BSPT 1/4" NPT 1/4" BSPT		STRAIGHT THRU PMC2402 PMC2402BSPT PMC2404 PMC2404BSPT	SHUTOFF PMCD2402 PMCD2402BSPT PMCD2404 PMCD2404BSPT	A .58 .58 .65 .65	B 1.03/1.45 1.03/1.44 1.13/1.42 1.13/1.42	
TERMINATION PANEL MOUNT FERRULELESS POLYTUBE FITTING, PTF†	TUBING SIZE 1/4" OD, .17" ID	METRIC EQ. 6.4mm OD, 4.3mm ID	STRAIGHT THRU PMC4004	SHUTOFF PMCD4004	A .72	B 1.70/1.82	
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 PMC4201 PMC4202 PMC4203 PMC4204	SHUTOFF PMCD4201 PMCD4202 PMCD4203 PMCD4204	A .72 .72 .72 .72	B 1.38/1.50 1.63/1.75 1.83/1.95 1.83/1.95	
TERMINATION IN-LINE FERRULELESS POLYTUBE FITTING, PTF†	TUBING SIZE 5/32" OD, .10" ID 1/4" OD, .17" ID 3/8" OD, .25" ID	METRIC EQ. 4.0mm OD, 2.0mm ID 4.0mm OD, 2.5mm ID 6.4mm OD, 4.3mm ID 9.5mm OD, 6.4mm ID	STRAIGHT THRU PMC20M42 PMC20025 PMC2004 PMC2006	SHUTOFF PMCD20M42 PMCD20025 PMCD2004 PMCD2006	A .58 .58 .58 .65	B 1.08/1.60 1.13/1.65 1.15/1.57 1.40/1.52	
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 PMC2201 PMC2202 PMC2203 PMC2204	SHUTOFF PMCD2201 PMCD2202 PMCD2203 PMCD2204	A .50 .50 .50 .50	B .80/1.47 1.00/1.67 1.20/1.88 1.22/1.70	
TERMINATION IN-LINE FEMALE THREAD	THREAD SIZE 10-32 UNF		STRAIGHT THRU PMC281032	SHUTOFF PMCD281032	A .58	B .63/1.31	
TERMINATION ELBOW FERRULELESS POLYTUBE FITTING, PTF†	TUBING SIZE 5/32" OD, .10" ID 1/4" OD, .17" ID	METRIC EQ. 4.0mm OD, 2.5mm ID 6.4mm OD, 4.3mm ID	STRAIGHT THRU PMC21025 PMC2104	SHUTOFF PMCD2104	A .50 .50	B 1.17 1.17/1.21	D .75 .77
TERMINATION ELBOW HOSE BARB	TUBING SIZE 1/8" ID 1/4" ID	METRIC EQ. 3.2mm ID 6.4mm ID	STRAIGHT THRU PMC2302 PMC2304	SHUTOFF PMCD2302 PMCD2304	A .50 .50	B .85/1.21 1.00/1.21	D .75/.69 .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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PMC12 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

Polypropylene material

EPDM o-ring

Colder thumb latch

Integral terminations

Benefits

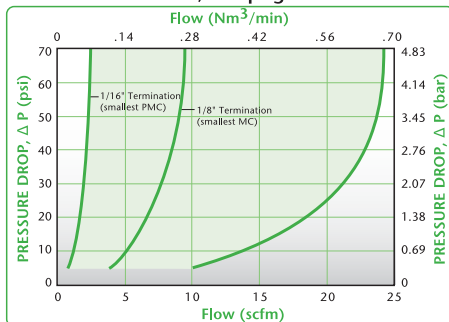
Chemically resistant and gamma-sterilizable

Greater chemical resistance

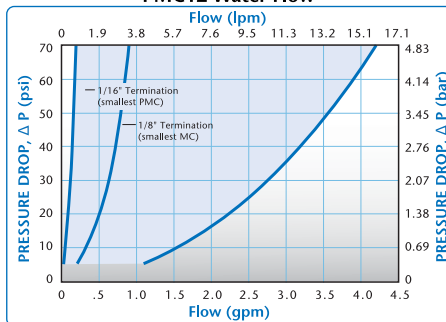
One-hand connection and disconnection

Fewer leak points, shorter assemblies, faster installations

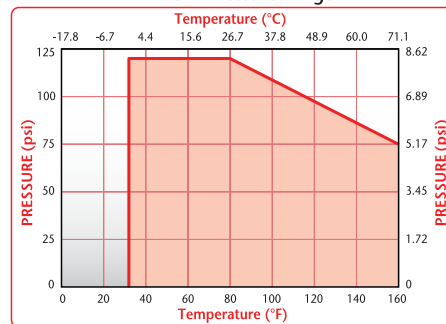
PMC12 Air Flow, 100 psig Inlet Pressure



PMC12 Water Flow



PMC12 Pressure Range



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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	PMCD12 2304	PMC12 2203	PMCD12 2203	PMC12 2201	PMCD12 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:

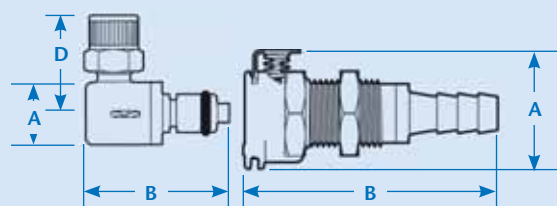
- Use one APC coupling and one PLC coupling.
- Use one MC/PMC size and one LC/PLC size.
- Use one panel mount body and one panel mount insert.
- Use Multi-Mount couplings (connect 3-5 lines simultaneously).



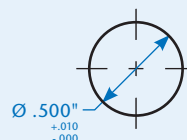
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Product Dimensions



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



COUPLING BODIES
COUPLING INSERTS

PANEL OPENING	MAX. PANEL THICKNESS	MIN. PANEL THICKNESS
see drawing	.50	.05
see drawing	.30	.06



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

Coupling Bodies

POLYPROPYLENE

	TERMINATION <i>IN-LINE PIPE THREAD</i>	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 <i>PANEL MOUNT FERRULELESS POLYTUBE FITTING, PTF†</i>	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 <i>PANEL MOUNT HOSE BARB</i>	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 <i>IN-LINE FERRULELESS POLYTUBE FITTING, PTF†</i>	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 <i>IN-LINE HOSE BARB</i>	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 <i>PANEL MOUNT WITH A 1/4-28 FLAT BOTTOM PORT</i>		SHUTOFF PMCD18042812	A 0.88	B 1.57
	TERMINATION <i>IN-LINE WITH A 1/4-28 FLAT BOTTOM PORT</i>		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 1/8" ID 1/4" ID	METRIC EQ. 1.6mm ID 3.2mm ID 6.4mm ID	STRAIGHT THRU PMC220112 PMC220212 PMC220412	SHUTOFF PMCD220112 PMCD220212 PMCD220412	A .50 .50 .50	B .80/1.47 1.05/1.67 1.20/1.71	
TERMINATION ELBOW FERRULELESS POLYTUBE FITTING, PTF†	TUBING SIZE 5/32" OD, .10" ID 1/4" OD, .17" ID	METRIC EQ. 4.0mm OD, 2.5mm ID 6.4mm OD, 4.3mm ID	STRAIGHT THRU PMC2102512 PMC210412	SHUTOFF PMCD2102512 PMCD210412	A .50 .50	B 1.09/1.21 1.17/1.21	D .77 .77
TERMINATION ELBOW HOSE BARB	TUBING SIZE 1/8" ID 1/4" ID	METRIC EQ. 3.2mm ID 6.4mm ID	STRAIGHT THRU PMC230212 PMC230412	SHUTOFF PMCD230212 PMCD230412	A .50 .50	B 1.09/1.21 1.09/1.21	D .69 .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.



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