

PMC SERIES CONNECTOR



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 CPC products in their own application conditions.

The 1/8" flow PMC coupling covers a wide variety of general-purpose applications. Featuring the CPC 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.

FEATURES

Hose barb shroud

Integral terminations

Compatible

Clicks when connected

BENEFITS

Extra protection for the 1/16" hose barb

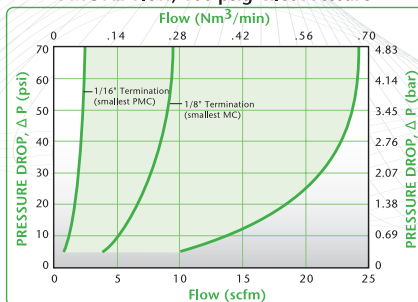
Fewer leak points, shorter assemblies, faster installations

Mates with PMC12 and MC Series couplings

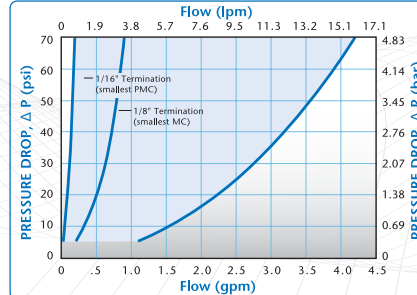
Assurance of a reliable connection

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.

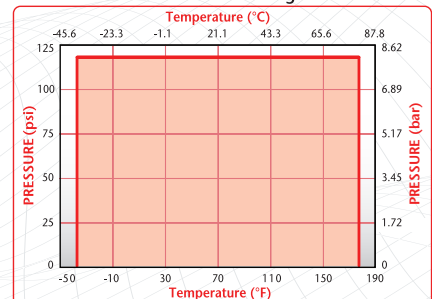
PMC Air Flow, 100 psig Inlet Pressure



PMC Water Flow



PMC Pressure Range



NOTES:

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 at the right.

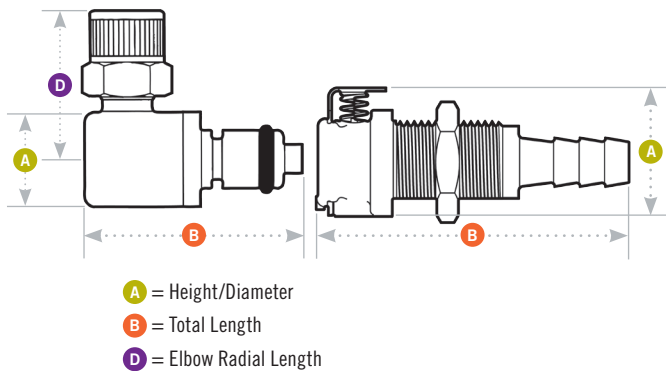
$$Q = C_v \sqrt{\frac{\Delta P}{S}}$$

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

| INSERTS BODIES | PMC 2004 | PMCD 2004 | PMC 2006 | PMCD 2006 | PMC 2202 | PMCD 2202 | PMC 2204 | PMCD 2204 | PMC 2402 | PMCD 2402 | PMC 2404 | PMCD 2304 | PMC 2602 | PMCD 2304 | PMC 2104 | 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 | .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 | .02 | .02 |






PMC DIMENSIONS



Panel Dimensions

| | PANEL OPENING | PANEL THICKNESS MAX. – MIN. | PANEL NUT HEX | PANEL NUT THREAD |
|-------------------------|------------------|--------------------------------|------------------|---------------------|
| COUPLING BODIES | see drawing | .50 – .05 | 5/8 | 1/2-24UNS |
| COUPLING INSERTS | 1/2 | .30 – .05 | 5/8 | 1/2-24UNS |

Coupling Bodies • ACETAL

| | TERMINATION | TUBING/THREAD SIZE | METRIC EQ. | NSF PN | STANDARD PN | A | B |
|---|---|--------------------|--------------------|---------|------------------|-----|------|
|  | IN-LINE PIPE THREAD | 1/8" NPT | | 11700 | PMC1002 NSF | .79 | 1.00 |
| | | 1/8" NPT | | 11800 | PMCD1002 NSF | .79 | 1.00 |
| | | 1/8" BSPT | | 12000 | PMCD1002BSPT NSF | .79 | 1.00 |
| | | 1/4" NPT | | 10700 | PMC1004 NSF | .79 | 1.10 |
| | | 1/4" NPT | | 12100 | PMCD1004 NSF | .79 | 1.10 |
|  | PANEL MOUNT FERRULELESS POLYTUBE FITTING, PTF† | 1/4" OD, .17" ID | 6.4mm OD, 4.3mm ID | 12400 | PMC1204 NSF | .77 | 1.72 |
| | | 1/4" OD, .17" ID | 6.4mm OD, 4.3mm ID | 12500 | PMCD1204 NSF | .77 | 1.72 |
|  | PANEL MOUNT HOSE BARB | 1/8" ID | 3.2mm ID | 12600 | PMC1602 NSF | .77 | 1.65 |
| | | 1/8" ID | 3.2mm ID | 12700 | PMCD1602 NSF | .77 | 1.65 |
| | | 3/16" ID | 4.8mm ID | 9001800 | PMCD1603 NSF | .77 | 1.85 |
| | | 1/4" ID | 6.4mm ID | 12900 | PMCD1604 NSF | .77 | 1.85 |
|  | PANEL MOUNT FEMALE THREAD | 10-32 UNF | | 9007200 | PMC181032 NSF | .77 | 1.25 |
|  | IN-LINE HOSE BARB | 1/8" ID | 3.2mm ID | 13200 | PMC1702 NSF | .81 | 1.45 |
| | | 1/8" ID | 3.2mm ID | 13300 | PMCD1702 NSF | .81 | 1.65 |
| | | 3/16" ID | 4.8mm ID | 9001900 | PMC1703 NSF | .81 | 1.65 |
| | | 1/4" ID | 6.4mm ID | 10900 | PMC1704 NSF | .81 | 1.65 |
| | | 1/4" ID | 6.4mm ID | 11400 | PMCD1704 NSF | .81 | 1.85 |

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

| TUBING/THREAD SIZE | METRIC EQ. | NSF PN | STANDARD PN | A | B | D |
|--------------------|--------------------|--------|-----------------|-----|------|---|
| 1/8" NPT | | 13400 | PMC2402 NSF | .58 | 1.03 | |
| 1/8" BSPT | | 13500 | PMC2402BSPT NSF | .58 | 1.03 | |
| 1/4" NPT | | 13700 | PMCD2404 NSF | .65 | 1.42 | |
| 1/4" OD, .17" ID | 6.4mm OD, 4.3mm ID | 14100 | PMCD4004 NSF | .72 | 1.82 | |

PANEL MOUNT FERRULELESS POLYTUBE FITTING, PTF†

PANEL MOUNT HOSE BARB

| | | | | | | |
|---------|----------|-------|--------------|-----|------|--|
| 1/8" ID | 3.2mm ID | 14200 | PMC4202 NSF | .72 | 1.63 | |
| 1/8" ID | 3.2mm ID | 14300 | PMCD4202 NSF | .72 | 1.75 | |
| 1/4" ID | 6.4mm ID | 11000 | PMCD4204 NSF | .72 | 1.95 | |

IN-LINE FERRULELESS POLYTUBE FITTING, PTF†

| | | | | | | |
|------------------|--------------------|-------|--------------|-----|------|--|
| 1/4" OD, .17" ID | 6.4mm OD, 4.3mm ID | 14500 | PMC2004 NSF | .58 | 1.15 | |
| 1/4" OD, .17" ID | 6.4mm OD, 4.3mm ID | 14600 | PMCD2004 NSF | .58 | 1.57 | |

IN-LINE HOSE BARB

| | | | | | | |
|----------|----------|----------|--------------|-----|------|--|
| 1/8" ID | 3.2mm ID | 14700 | PMC2202 NSF | .50 | 1.00 | |
| 1/8" ID | 3.2mm ID | 10400 | PMCD2202 NSF | .50 | 1.67 | |
| 3/16" ID | 4.8mm ID | 90019003 | PMC2203 NSF | .50 | 1.20 | |
| 1/4" ID | 6.4mm ID | 11600 | PMC2204 NSF | .50 | 1.22 | |
| 1/4" ID | 6.4mm ID | 10800 | PMCD2204 NSF | .50 | 1.70 | |

ELBOW FERRULELESS POLYTUBE FITTING, PTF†

| | | | | | | |
|------------------|--------------------|-------|-------------|-----|------|-----|
| 1/4" OD, .17" ID | 6.4mm OD, 4.3mm ID | 10600 | PMC2104 NSF | .50 | 1.17 | .77 |
|------------------|--------------------|-------|-------------|-----|------|-----|

ELBOW HOSE BARB

| | | | | | | |
|---------|----------|---------|--------------|-----|------|-----|
| 1/8" ID | 3.2mm ID | 14900 | PMC2302 NSF | .50 | .85 | .75 |
| 1/8" ID | 3.2mm ID | 15000 | PMCD2302 NSF | .50 | 1.21 | .69 |
| 1/4" ID | 6.4mm ID | 9000100 | PMC2304 NSF | .50 | 1.00 | .95 |
| 1/4" ID | 6.4mm ID | 9000200 | PMCD2304 NSF | .50 | 1.21 | .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: CPC'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.