

# PMC SERIES CONNECTOR



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.

This coupling is NuSeal® compatible (see page 27 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 30 and 34)

Assurance of a reliable connection

## 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:

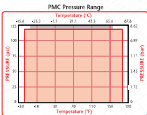
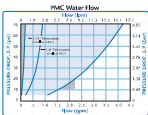
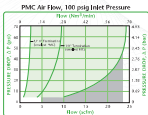
1/16" to 1/4" ID, 1.6mm to 6.4mm ID

**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.

Also available in NSF listed versions. Please visit our website for part number information.



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 configuration selected, you can reasonably expect values to fall within the shaded area.



# NU-SEAL® QUICK DISCONNECT COUPLING

## Nu-Seal® Specifications

### PRESSURE:

Vacuum to 20 psi, 1.4 bar

### MATERIALS:

Main components:  
Low density polyethylene

### COLOR:

Translucent

### TUBING SIZE:

1/8" ID, 3.2mm ID

## Nu-Seal® quick disconnect coupling inserts feature a

patented integral seal and are USP Class VI compliant. These economic inserts are ideal for applications that require limited connect/disconnect cycles.

### FEATURES

Patented integral seal

Low density polyethylene

Chemically resistant

Compatible

### BENEFITS

Economical, allows for disposability and provides leak-free connections

Sterilizable by EtO, E-beam & gamma

Works in many critical USP Class VI material applications

Mates with MC, PMC, PMC12 couplings



TERMINATION  
IN-LINE  
MALE BARB

TUBING SIZE  
1/8" ID

METRIC EQ.  
3.2 mm ID

PART NO.  
DSM2292

HEIGHT  
.50

LENGTH  
.38

## 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.

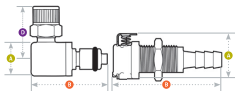
### C<sub>v</sub> VALUES FOR 1/8" FLOW PMC COUPLINGS

COUPLING	PMC 2004	PMC 2004	PMC 2006	PMC 2006	PMC 2202	PMC 2202	PMC 2204	PMC 2204	PMC 2402	PMC 2402	PMC 2404	PMC 2304	PMC 2304	PMC 2301	PMC 2210	PMC 2203	PMC 2201	PMC 2210
PMC1012	.40	.18	.50	.19	.25	.16	.50	.19	.50	.20	.51	.50	.38	.24	.30	.17	.03	.03
PMC1012	.27	.18	.31	.18	.24	.16	.28	.20	.28	.20	.29	.26	.27	.24	.25	.17	.03	.03
PMC1014	.40	.21	.50	.24	.26	.18	.50	.24	.50	.20	.51	.50	.38	.25	.30	.19	.03	.03
PMC1014	.29	.19	.32	.23	.25	.17	.38	.23	.27	.21	.28	.28	.25	.24	.25	.18	.03	.03
PMC1204	.40	.18	.50	.18	.25	.16	.40	.18	.40	.16	.35	.40	.38	.21	.30	.17	.03	.03
PMC1204	.21	.17	.22	.17	.20	.16	.22	.17	.23	.17	.20	.22	.21	.18	.21	.16	.03	.03
PMC1602	.23	.15	.28	.18	.19	.14	.27	.15	.27	.15	.28	.27	.23	.16	.20	.14	.03	.03
PMC1602	.19	.15	.15	.15	.17	.14	.19	.15	.18	.15	.18	.15	.19	.15	.16	.14	.03	.03
PMC1604	.33	.23	.44	.24	.24	.18	.44	.23	.44	.20	.38	.44	.33	.25	.26	.19	.03	.03
PMC1604	.25	.17	.24	.21	.22	.16	.24	.21	.24	.19	.25	.26	.25	.24	.22	.16	.03	.03
PMC1703	.25	.20	.30	.20	.20	.17	.30	.20	.30	.19	.28	.30	.25	.18	.21	.17	.03	.03
PMC20703	.20	.17	.24	.17	.18	.15	.18	.17	.19	.17	.20	.20	.20	.16	.16	.14	.03	.03
PMC1710	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03
PMC1710	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03

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

$Q$  = Flow rate in g/min per minute  
 $C_v$  = Average coefficient across various flow rates (see chart)  
 $\Delta P$  = Pressure drop across coupling (psi)  
 $S$  = Specific gravity of liquid

# PMC DIMENSIONS



- A** = Height/Diameter
- B** = Total Length
- C** = Elbow Radial Length

## Panel Dimensions

	PANEL OPENING	PANEL THICKNESS MAX. - MIN.	PANEL NUT KEY	PANEL NUT THREAD
COMPLING BODIES	see drawing	.50 - .05	5/16	1/7-24UNS
COMPLING INSERTS	1/2	.30 - .05	5/16	1/7-24UNS











## Coupling Bodies • ACETAL

TERMINATION	TUBING/THREAD SIZE	NETING EQ.	STRAIGHT THRU	SHORT	A	B
<b>IN-LINE PIPE THREAD</b>	1/8" NPT		PMC1002	PMC1002	.79	1.00
	1/8" BSPT		PMC1002BSPT	PMC1002BSPT	.79	1.00
	1/4" NPT		PMC1004	PMC1004	.79	1.10
	1/4" BSPT		PMC1004BSPT	PMC1004BSPT	.79	1.10
<b>PANEL MOUNT FERROUSLESS POLYURE FITTING, PTFE</b>	5/32" OD, .10" ID	4.0mm OD, 2.0mm ID	PMC12042	PMC12042	.77	1.65
	4.0mm OD, 2.5mm ID	4.0mm OD, 2.5mm ID	PMC12025	PMC12025	.77	1.70
	1/4" OD, .17" ID	6.4mm OD, 4.3mm ID	PMC1204	PMC1204	.77	1.72
<b>PANEL MOUNT ROSE BARR</b>	1/16" ID	1.6mm ID	PMC1601	PMC1601	.77	1.60
	1/8" ID	3.2mm ID	PMC1602	PMC1602	.77	1.65
	3/16" ID	4.8mm ID	PMC1603	PMC1603	.77	1.85
	1/4" ID	6.4mm ID	PMC1604	PMC1604	.77	1.85
<b>PANEL MOUNT FEMALE THREAD</b>	10-32 UNF		PMC181032	PMC181032	.77	1.25
<b>IN-LINE FERROUSLESS POLYURE FITTING, PTFE</b>	5/32" OD, .10" ID	4.0mm OD, 2.0mm ID	PMC13042	PMC13042	.81	1.65
	4.0mm OD, 2.5mm ID	4.0mm OD, 2.5mm ID	PMC13025	PMC13025	.81	1.65
	5.0mm OD, 3.0mm ID	5.0mm OD, 3.0mm ID	PMC13045	PMC13045	.81	1.72
	1/4" OD, .17" ID	6.4mm OD, 4.3mm ID	PMC1304	PMC1304	.81	1.75
<b>IN-LINE ROSE BARR</b>	1/16" ID	1.6mm ID	PMC1701	PMC1701	.81	1.61
	1/8" ID	3.2mm ID	PMC1702	PMC1702	.81	1.65/1.65
	3/16" ID	4.8mm ID	PMC1703	PMC1703	.81	1.65/1.85
	1/4" ID	6.4mm ID	PMC1704	PMC1704	.81	1.65/1.85
<b>IN-LINE FEMALE THREAD</b>	10-32 UNF		PMC191032	PMC191032	.81	1.25

All measurements are in inches (millimeters) unless otherwise noted. Tubing must meet stated inside and outside diameters.  
 NOTE: CPC's Ferrousless PTFE (polyure fitting) terminations do not require ferrules to achieve a secure connection and are therefore easier to use and reuse. PTFE fittings are designed for semi-rigid tubing, i.e., polyethylene, nylon, polyurethane, etc.

## Coupling Inserts • ACETAL

TERMINATION	TUBING/THREAD SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	A	B	D
 <b>IN-LINE PIPE THREAD</b>	1/8" NPT		PNC2402	PNC2402	.58	1.03/1.45	
	1/8" BSPT		PNC2402BSPT	PNC2402BSPT	.58	1.03/1.44	
	1/4" NPT		PNC2404	PNC2404	.65	1.13/1.42	
	1/4" BSPT		PNC2404BSPT	PNC2404BSPT	.65	1.13/1.42	
 <b>PANEL MOUNT FERRULELESS POLYURETHANE FITTING (not-valved option)</b>	1/4" OD, .17" ID	6.4mm OD, 4.3mm ID	PNC4004	PNC4004	.72	1.70/1.82	
 <b>PANEL MOUNT ROSE BARB</b>	1/16" ID	1.6mm ID	PNC4201	PNC4201	.72	1.38/1.50	
	1/8" ID	3.2mm ID	PNC4202	PNC4202	.72	1.63/1.75	
	3/16" ID	4.8mm ID	PNC4203	PNC4203	.72	1.83/1.95	
	1/4" ID	6.4mm ID	PNC4204	PNC4204	.72	1.83/1.95	
 <b>IN-LINE FERRULELESS POLYURETHANE FITTING</b>	5/32" OD, .10" ID	4.0mm OD, 2.5mm ID	PNC20042	PNC20042	.58	1.06/1.60	
	1/4" OD, .17" ID	6.4mm OD, 4.3mm ID	PNC2004	PNC2004	.58	1.03/1.57	
	3/8" OD, .25" ID	9.5mm OD, 6.4mm ID	PNC2006	PNC2006	.65	1.40/1.52	
 <b>IN-LINE ROSE BARB (not-valved option)</b>	1/16" ID	1.6mm ID	PNC2201	PNC2201	.50	.80/1.47	
	1/8" ID	3.2mm ID	PNC2202	PNC2202	.50	1.00/1.67	
	3/16" ID	4.8mm ID	PNC2203	PNC2203	.50	1.20/1.88	
	1/4" ID	6.4mm ID	PNC2204	PNC2204	.50	1.22/1.70	
 <b>IN-LINE FEMALE THREAD</b>	16-32 UNF		PNC28032	PNC28032	.58	.63/1.31	
 <b>ELBOW FERRULELESS POLYURETHANE FITTING</b>	5/32" OD, .10" ID	4.0mm OD, 2.5mm ID	PNC21025		.50	1.17	.75
	1/4" OD, .17" ID	6.4mm OD, 4.3mm ID	PNC2104	PNC2104	.50	1.17/1.21	.77
 <b>ELBOW ROSE BARB (not-valved option)</b>	1/8" ID	3.2mm ID	PNC2302	PNC2302	.50	.85/1.21	.75/99
	1/4" ID	6.4mm ID	PNC2304	PNC2304	.50	1.00/1.21	.95/90

All measurements are in inches (millimeters) unless otherwise noted. Tubing used must state ID and outside diameters. Couplings are produced with various crimp styles unless noted. **NOTE:** OPC's Ferruleless PUF (polyurethane fitting) formations do not require ferrules to achieve a secure connection and are therefore easier to use and reuse. **HIF** fittings are designed for semi-rigid tubing, i.e., polyethylene, nylon, polyurethane, etc.