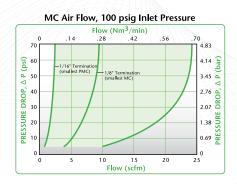
MC SERIES CONNECTOR

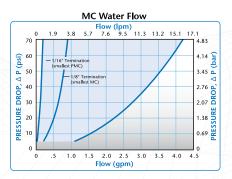


CPC's MC Series chrome-plated brass couplings are

built tough and made to last in the most demanding applications. Ideal for use with higher temperatures or pressures, MC Series couplings feature one-hand operation for swift and easy connects and disconnects. These couplings offer the flexibility of multiple configurations and terminations and mate with both PMC acetal and PMC12 polypropylene couplings.

FEATURES	BENEFITS					
Brass material	Durable and able to withstand higher pressure and temperature					
High temperature capability	Versions rated to 400°F (204°C)					
CPC thumb latch	One-hand connection and disconnection					
Compatible	MC mates with PMC and PMC12 Series couplings					





Specifications • • •





PRESSURE:

Vacuum to 250 psi, 17.3 bar

TEMPERATURE:

-40°F to 180°F (-40°C to 82°C) (High temperature versions available with ratings to 400°F)

MATERIALS:

Main components: Chrome-plated brass

Thumb latch: Stainless steel

Valves: Acetal

Valve spring: 316 stainless steel

External springs and pin: Stainless steel

O-rings: Buna-N

FINISH: Chrome

TUBING SIZES:

1/8" to 1/4" ID, 3.2mm 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. Use the graph to the right as a guide.

High temperature

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



Liquid Flow Rate Information for Couplings

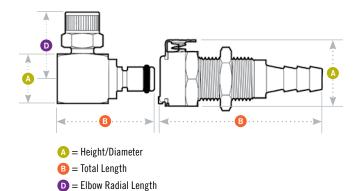
The chart below shows the flow rate for CPC couplings. Each coupling was tested with water at 70° F (21°C). To determine flow rates for specific coupling configurations use the formula at the right.

- **Q** = Flow rate in gallons per minute
 - 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 MC couplings

BODIES INSERTS	MC12 2004	MCD12 2004	MC12 2006	MCD12 2006	MC12 2202	MCD12 2202	MC12 2204	MCD12 2204	MC12 2402	MCD12 2402	MC12 2404	MCD12 2304	MC12 2602	MCD12 2304	MC12 2104	MCD12 2304	MC12 2203	MCD12 2203
MC100212	.40	.18	.50	.19	.25	.16	.50	.19	.50	.20	.51	.19	.50	.50	.38	.24	.30	.17
MCD100212	.27	.18	.31	.18	.24	.16	.28	.20	.26	.20	.29	.18	.26	.26	.27	.24	.25	.17
MC100412	.40	.21	.50	.24	.26	.18	.50	.24	.50	.20	.51	.24	.50	.50	.38	.26	.30	.19
MCD100412	.29	.19	.32	.23	.25	.17	.30	.23	.27	.21	.28	.23	.27	.28	.29	.24	.25	.183
MC120412	.40	.18	.50	.18	.25	.16	.40	.18	.40	.16	.36	.18	.40	.40	.38	.21	.30	.173
MCD120412	.21	.17	.22	.17	.20	.16	.22	.17	.21	.17	.20	.17	.21	.22	.21	.18	.21	.16
MC160212	.23	.15	.28	.18	.19	.14	.27	.15	.27	.15	.28	.18	.27	.27	.23	.16	.20	.14
MCD160212	.19	.15	.19	.15	.17	.14	.19	.15	.18	.15	.18	.15	.18	.19	.19	.15	.18	.14
MC160412	.33	.23	.44	.24	.24	.18	.44	.23	.44	.20	.38	.24	.38	.44	.33	.26	.26	.19
MCD160412	.23	.17	.26	.21	.22	.16	.26	.21	.26	.19	.25	.21	.21	.26	.23	.24	.22	.16
MC170312	.25	.20	.30	.20	.20	.17	.30	.20	.30	.19	.28	.20	.28	.30	.25	.18	.21	.17
MCD170312	.20	.17	.20	.17	.19	.15	.21	.17	.19	.17	.20	.17	.19	.20	.20	.16	.19	.16

MC DIMENSIONS

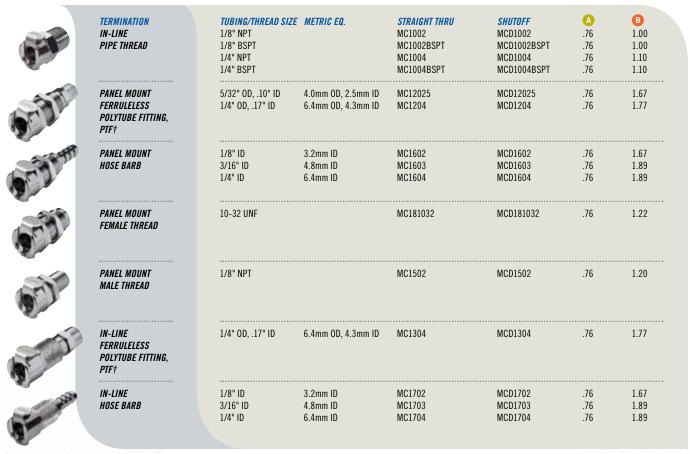


Panel Dimensions

	PANEL OPENING	PANEL THICKNESS MAXMIN.	PANEL NUT HEX	PANEL NUT THREAD
COUPLING BODIES (except male thread)	see drawing	.50 – .05	5/8	1/2-24UNS
MALE THREAD	see drawing	.21 — .06	5/8	1/2-24UNS
COUPLING INSERTS	see drawing	.30 – .06	5/8	1/2-24UNS



Coupling Bodies • CHROME-PLATED BRASS



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. NOTE: Elbow configurations are available. Contact CPC for more information.

Coupling Inserts • CHROME-PLATED BRASS

	TERMINATION IN-LINE PIPE THREAD (non-valved shown)	TUBING/THREAD SIZE 1/8" NPT 1/8" BSPT 1/4" NPT	E METRIC EQ.	STRAIGHT THRU MC2402 MC2402BSPT MC2404	SHUTOFF MCD2402 MCD2402BSPT MCD2404	.58 .58/.72 .65	B 1.03/1.43 1.03/1.43 1.08/1.43	D
50	IN-LINE PIPE THREAD (FEMALE)	1/8" NPT Female 1/4" NPT Female 1/4" BSPP Female		MC2602 MC2604 MC2604BSPP	MCD2602 MCD2604 MCD2604BSPP	.58 .72 .72	.95/1.65 1.15/1.82 1.23/1.91	
THE STATE OF	PANEL MOUNT FERRULELESS POLYTUBE FITTING, PTF†	1/4" OD, .17" ID	6.4mm OD, 4.3mm ID	MC4004	MCD4004	.72	1.75/1.85	••••••••••••
W.	PANEL MOUNT HOSE BARB	1/8" ID 3/16" ID 1/4" ID	3.2mm ID 4.8mm ID 6.4mm ID	MC4202 MC4203 MC4204	MCD4202 MCD4203 MCD4204	.72 .72 .72	1.65/1.75 1.87/1.97 1.87/1.97	••••••••
Th	IN-LINE FERRULELESS POLYTUBE FITTING, PTF†		4.0mm OD, 2.5mm ID 6.4mm OD, 4.3mm ID 9.5mm OD, 6.4mm ID	MC20025 MC2004 MC2006	MCD20025 MCD2004 MCD2006	.58 .58 .58	1.13/1.53 1.15/1.55 1.30/1.50	•••••••
A)P	IN-LINE HOSE BARB	1/8" ID 3/16" ID 1/4" ID	3.2mm ID 4.8mm ID 6.4mm ID	MC2202 MC2203 MC2204	MCD2202 MCD2203 MCD2204	.58 .58 .58	1.05/1.65 1.25/1.85 1.25/1.67	••••••
0.00	IN-LINE FEMALE THREAD	10-32 UNF		MC281032	MCD281032	.58	.63/1.30	
	ELBOW FERRULELESS POLYTUBE FITTING, PTF†	5/32" OD, .10" ID 1/4" OD, .17" ID	4.0mm OD, 2.5mm ID 6.4mm OD, 4.3mm ID	MC21025 MC2104	MCD21025 MCD2104	.63 .63	1.18/1.28 1.18/1.28	.81 .83
	ELBOW HOSE BARB	1/8" ID 1/4" ID	3.2mm ID 6.4mm ID	MC2302 MC2304	MCD2302 MCD2304	.62 .63	1.18/1.28 1.18/1.28	.76 .76

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. NOTE: Elbow configurations are available. Contact CPC for more information.