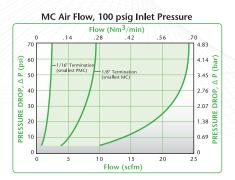
MC SERIES CONNECTOR

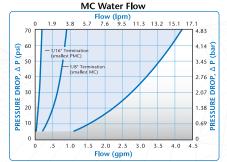


CPC's MC Series chrome-plated brass couplings are

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







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.



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DID YOU KNOW?



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_v values for 1/8" flow MC couplings



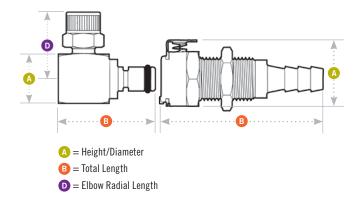
- **Q** = Flow rate in gallons per minute
- Average coefficient across various
- flow rates (see chart) $\Delta \mathbf{P} =$ Pressure drop across coupling (psi)
- S = Specific gravity of liquid

INSERTS	MC 2004	MCD 2004	MC 2006	MCD 2006	MC 2202	MCD 2202	MC 2204	MCD 2204	MC 2402	MCD 2402	MC 2404	MCD 2304	MC 2602	MCD 2304	MC 2104	MCD 2304	MC 2203	MCD 2203
MC1002	.40	.18	.50	.19	.25	.16	.50	.19	.50	.20	.51	.19	.50	.50	.38	.24	.30	.17
MCD1002	.27	.18	.31	.18	.24	.16	.28	.20	.26	.20	.29	.18	.26	.26	.27	.24	.25	.17
MC1004	.40	.21	.50	.24	.26	.18	.50	.24	.50	.20	.51	.24	.50	.50	.38	.26	.30	.19
MCD1004	.29	.19	.32	.23	.25	.17	.30	.23	.27	.21	.28	.23	.27	.28	.29	.24	.25	.183
MC1204	.40	.18	.50	.18	.25	.16	.40	.18	.40	.16	.36	.18	.40	.40	.38	.21	.30	.173
MCD1204	.21	.17	.22	.17	.20	.16	.22	.17	.21	.17	.20	.17	.21	.22	.21	.18	.21	.16
MC1602	.23	.15	.28	.18	.19	.14	.27	.15	.27	.15	.28	.18	.27	.27	.23	.16	.20	.14
MCD1602	.19	.15	.19	.15	.17	.14	.19	.15	.18	.15	.18	.15	.18	.19	.19	.15	.18	.14
MC1604	.33	.23	.44	.24	.24	.18	.44	.23	.44	.20	.38	.24	.38	.44	.33	.26	.26	.19
MCD1604	.23	.17	.26	.21	.22	.16	.26	.21	.26	.19	.25	.21	.21	.26	.23	.24	.22	.16
MC1703	.25	.20	.30	.20	.20	.17	.30	.20	.30	.19	.28	.20	.28	.30	.25	.18	.21	.17
MCD1703	.20	.17	.20	.17	.19	.15	.21	.17	.19	.17	.20	.17	.19	.20	.20	.16	.19	.16

Smart fluid handling to take you forward, faster.

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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

	TERMINATION IN-LINE PIPE THREAD	TUBING/THREAD SIZ 1/8" NPT 1/8" BSPT 1/4" NPT 1/4" BSPT	E METRIC EQ.	STRAIGHT THRU MC1002 MC1002BSPT MC1004 MC1004BSPT	SHUTOFF MCD1002 MCD1002BSPT MCD1004 MCD1004BSPT	A .76 .76 .76 .76	B 1.00 1.00 1.10 1.10
TT	PANEL MOUNT 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	MC12025 MC1204	MCD12025 MCD1204	.76 .76	1.67 1.77
or from	PANEL MOUNT HOSE BARB	1/8" ID 3/16" ID 1/4" ID	3.2mm ID 4.8mm ID 6.4mm ID	MC1602 MC1603 MC1604	MCD1602 MCD1603 MCD1604	.76 .76 .76	1.67 1.89 1.89
N	PANEL MOUNT FEMALE THREAD	10-32 UNF		MC181032	MCD181032	.76	1.22
1	PANEL MOUNT MALE THREAD	1/8" NPT		MC1502	MCD1502	.76	1.20
N. COL	IN-LINE FERRULELESS POLYTUBE FITTING, PTF†	1/4" OD, .17" ID	6.4mm OD, 4.3mm ID	MC1304	MCD1304	.76	1.77
	IN-LINE HOSE BARB	1/8" ID 3/16" ID 1/4" ID	3.2mm ID 4.8mm ID 6.4mm ID	MC1702 MC1703 MC1704	MCD1702 MCD1703 MCD1704	.76 .76 .76	1.67 1.89 1.89

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

1	TERMINATION IN-LINE PIPE THREAD (non-valved shown)	TUBING/THREAD SIZI 1/8" NPT 1/8" BSPT 1/4" NPT	E METRIC EQ.	STRAIGHT THRU MC2402 MC2402BSPT MC2404	SHUTOFF MCD2402 MCD2402BSPT MCD2404	A .58 .58/.72 .65	B 1.03/1.43 1.03/1.43 1.08/1.43	D
B	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	
o Dia	PANEL MOUNT FERRULELESS POLYTUBE FITTING, PTF†	1/4" OD, .17" ID	6.4mm OD, 4.3mm ID	MC4004	MCD4004	.72	1.75/1.85	
APP	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	
et m	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	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

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