MPC SERIES CONNECTOR



MPC Series couplings add ease of use and security to critical fluid handling applications. Choose from a full line of connectors and configurations, including pressure sealing caps and plugs, in sizes to fit 1/8" to 3/8" tubing. MPC couplings offer optional locking sleeves to further guard against accidental disconnects. In addition, coupling halves can be rotated when connected to reduce tube kinks.

FEATURES	BENEFITS
Ergonomic thumb latch	Easy to operate – even with gloved hands
USP Class VI materials	Meet biocompatibility requirements
Sterilizable by autoclave, EtO, e-beam, or gamma	Reusable, yet economical enough to allow disposability
Parting line-free hose barb	Eliminates potential leak path
ADCF-free materials	Meet BSE/TSE requirements

Specifications

PRESSURE:

Vacuum to 60 psi, 4.1 bar

TEMPERATURE:

Polycarbonate:
-40°F to 250°F (-40°C to 121°C)
Polysulfone:
-40°F to 300°F (-40°C to 149°C)

MATERIALS:

Main components:
Polycarbonate (purple tint), USP Class VI, ADCF
Polysulfone (amber tint), USP Class VI, ADCF

Locking sleeves:
Polysulfone (white), USP Class VI , ADCF

Thumb Latches:
Polycarbonate (white), USP Class VI, ADCF
PVDF (white), USP Class VI, ADCF

O-rings: Silicone (clear), platinum-cured, USP Class VI, ADCF

STERILIZATION:

Gamma: Up to 50 kGy irradiation

Autoclave:

Polycarbonate: Up to 250°F (121°C), 30 minutes, up to 10 repetitions. Sterilize uncoupled only.

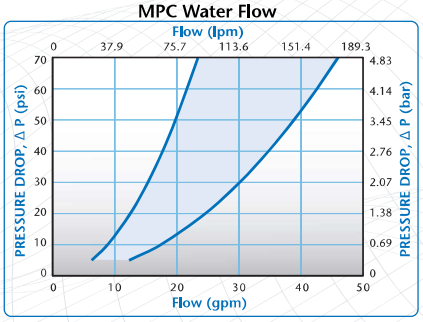
Polysulfone: Up to 270°F (132°C) for 60 minutes, up to 25 repetitions. Sterilize uncoupled only.

TUBING SIZES:

1/8" to 3/8" ID (3.2mm to 9.5mm)

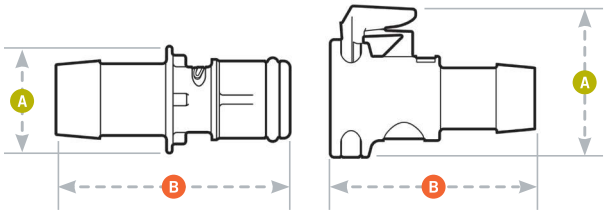
***WARNING**: Pressure, temperature, chemicals, and operating environment can affect the performance of couplings. It is the customer's responsibility to test the suitability of CPC's products in their own application conditions.*

This graph is intended to give you a general idea of the performance capabilities of each product line. The shaded area of the 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.



MPC SERIES CONNECTOR DIMENSIONS

A = Height/Diameter
B = Total Length



A = Height/Diameter
B = Total Length

Coupling Bodies

• POLYCARBONATE



TERMINATION	TUBING	METRIC EQ.	FLOW	STRAIGHT THRU	A	B
IN-LINE HOSE BARB	1/8" ID	3.2mm ID	.09"	MPC17002T03	.96 (24.4)	1.10 (27.9)
	1/4" ID	6.4mm ID	.21"	MPC17004T03	.96 (24.4)	1.10 (27.9)
	3/8" ID	9.5mm ID	.29"	MPC17006T03	.96 (24.4)	1.10 (27.9)
IN-LINE HOSE BARB WITH LOCK	1/8" ID	3.2mm ID	.09"	MPCK17002T03	.99 (25.2)	1.10 (27.9)
	1/4" ID	6.4mm ID	.21"	MPCK17004T03	.99 (25.2)	1.30 (33.0)
	3/8" ID	9.5mm ID	.29"	MPCK17006T03	.99 (25.2)	1.30 (33.0)

• POLYSULFONE



TERMINATION	TUBING	METRIC EQ.	FLOW	STRAIGHT THRU	A	B
IN-LINE HOSE BARB	1/8" ID	3.2mm ID	.09"	MPC17002T39	.96 (24.4)	1.10 (27.9)
	1/4" ID	6.4mm ID	.21"	MPC17004T39	.96 (24.4)	1.10 (27.9)
	3/8" ID	9.5mm ID	.29"	MPC17006T39	.96 (24.4)	1.10 (27.9)
IN-LINE HOSE BARB WITH LOCK	1/8" ID	3.2mm ID	.09"	MPCK17002T39	.99 (25.2)	1.10 (27.9)
	1/4" ID	6.4mm ID	.21"	MPCK17004T39	.99 (25.2)	1.30 (33.0)
	3/8" ID	9.5mm ID	.29"	MPCK17006T39	.99 (25.2)	1.30 (33.0)

Coupling Inserts

• POLYCARBONATE



TERMINATION	TUBING	METRIC EQ.	FLOW	STRAIGHT THRU	O-RING	A	B
IN-LINE HOSE BARB	1/8" ID	3.2mm ID	.09"	MPC22002T03M	Silicone Seal USP Class VI	.60 (15.2)	1.10 (27.9)
	1/4" ID	6.4mm ID	.21"	MPC22004T03M	Silicone Seal USP Class VI	.60 (15.2)	1.30 (33.0)
	3/8" ID	9.5mm ID	.29"	MPC22006T03M	Silicone Seal USP Class VI	.60 (15.2)	1.30 (33.0)

• POLYSULFONE



TERMINATION	TUBING	METRIC EQ.	FLOW	STRAIGHT THRU	O-RING	A	B
IN-LINE HOSE BARB	1/8" ID	3.2mm ID	.09"	MPC22002T39M	Silicone Seal USP Class VI	.60 (15.2)	1.10 (27.9)
	1/4" ID	6.4mm ID	.21"	MPC22004T39M	Silicone Seal USP Class VI	.60 (15.2)	1.30 (33.0)
	3/8" ID	9.5mm ID	.29"	MPC22006T39M	Silicone Seal USP Class VI	.60 (15.2)	1.30 (33.0)

MPC SERIES CONNECTOR (cont.)

Mating Parts



SEALING CAP	SEALING CAP W/LOCK	MATERIAL	A	B
MPC32003	MPCK32003	Polycarbonate	.96 (24.4)	1.30 (33.0)
MPC32039	MPCK32039	Polysulfone	.99 (25.2)	1.30 (33.0)

SEALING PLUG	O-RING	MATERIAL	A	B
MPC30003M	Silicone Seal USP Class VI	Polycarbonate	.75 (19.1)	1.24 (31.5)
MPC30039M	Silicone Seal USP Class VI	Polysulfone	.75 (19.1)	1.24 (31.5)

PART NO.	DESCRIPTION	MATERIALS
MPC30L	Leash plug for MPC body	Soft, flexible, medical-grade PVC
MPC32L	Leash cap for MPC insert	Soft, flexible, medical-grade PVC

Note: MPC Series mates with Back-to-Back Adapters (page 9), Sanitary Series and SaniQuik™ (pages 12-15).

