

# MPC SERIES CONNECTOR

## 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.

**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

Ergonomic thumb latch

USP Class VI materials

Sterilizable by autoclave, EtO, e-beam, or gamma

Parting line-free hose barb

ADCF-free materials

### BENEFITS

Easy to operate – even with gloved hands

Meet biocompatibility requirements

Reusable, yet economical enough to allow disposability

Eliminates potential leak path

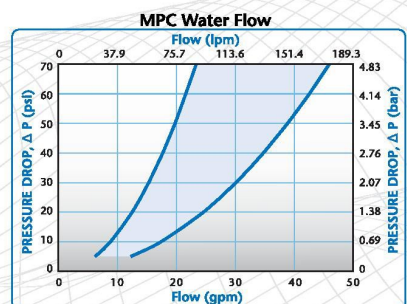
Meet BSE/TSE requirements

### TUBING SIZES:

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

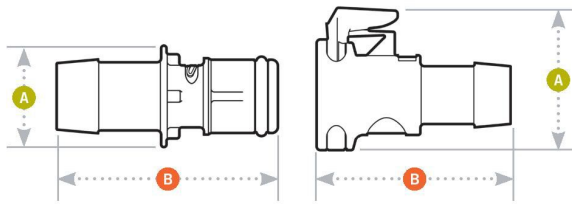
**WARNING:** Pressure, temperature, chemicals, and operating environment can affect the performance of couplings. It is the customer's responsibility to test the suitability of CPC's products in their own application conditions.

✓ 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  
IN-LINE  
HOSE BARB**

TUBING	METRIC EQ.	FLOW	STRAIGHT THRU	A	B
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  
IN-LINE  
HOSE BARB**

TUBING	METRIC EQ.	FLOW	STRAIGHT THRU	A	B
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  
IN-LINE  
HOSE BARB**

TUBING	METRIC EQ.	FLOW	STRAIGHT THRU	O-RING	A	B
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  
IN-LINE  
HOSE BARB**

TUBING	METRIC EQ.	FLOW	STRAIGHT THRU	O-RING	A	B
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)

Confidence at every point of connection. 7

# MPC SERIES CONNECTOR (cont.)



## Mating Parts



**SEALING CAP**  
MPC32003  
MPC32039

**SEALING CAP W/LOCK**  
MPC32003  
MPC32039

**MATERIAL**  
Polycarbonate  
Polysulfone

**A**  
.96 (24.4)  
.99 (25.2)

**B**  
1.30 (33.0)  
1.30 (33.0)

**SEALING PLUG**  
MPC30003M  
MPC30039M

**O-RING**  
Silicone Seal USP Class VI  
Silicone Seal USP Class VI

**MATERIAL**  
Polycarbonate  
Polysulfone

**A**  
.75 (19.1)  
.75 (19.1)

**B**  
1.24 (31.5)  
1.24 (31.5)

**PART NO.**  
MPC30L  
MPC32L

**DESCRIPTION**  
Leash plug for MPC body  
Leash cap for MPC insert

**MATERIALS**  
Soft, flexible, medical-grade PVC  
Soft, flexible, medical-grade PVC

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

