

# MPC

## SERIES CONNECTORS

**MPC Series Connectors** 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.

## SPECIFICATIONS

### OPERATING PRESSURE

Vacuum to 60 psi, 4.1 bar

### OPERATING TEMPERATURE

#### Polycarbonate:

-40°F to 250°F (-40°C to 121°C)

#### Polysulfone:

-40°F to 300°F (-40°C to 149°C)

### 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),  
60 minutes, up to 25 repetitions  
Sterilize uncoupled only

### TERMINATIONS

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

### MATERIALS

#### Main components:

Polycarbonate (purple tint)

Polysulfone (amber tint)

#### Locking sleeves:

Polysulfone (white)

#### Thumb Latches:

Polycarbonate (white)

PVDF (white)

#### O-rings:

Silicone (clear), platinum-cured

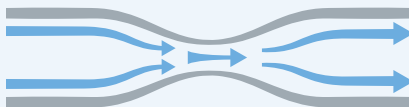
WARNING: Pressure, temperature, chemicals, and operating environment can affect the performance of couplings. It is the customer's responsibility to test the suitability of CPC's products in their own application conditions.

### FEATURES

Ergonomic thumb latch	→	Easy to operate – even with gloved hands
Parting line-free hose barb	→	Prevent potential leak path
Optional locking sleeve	→	Prevents accidental disconnection
Various options on termination size and material	→	Better flexibility to fit more applications

### TYPICAL FLOW RATE:

**Cv Value Range:** 0.1 - 8  
for MPC hose barb terminations



Cv values represent the approximate expected flow rate in gallons per minute of water at room temperature for a 1 PSI pressure drop. The flow is generally constrained by the smallest diameter, which in some cases will be the termination diameter and not the Nominal Flow Path.

### BENEFITS

## NOTE

Validation and Extractables data can be requested at [cpcworldwide.com/MPC](http://cpcworldwide.com/MPC)

## DID YOU KNOW

The MPC and MPX connectors are perfect for smaller bag systems for aliquoted media or other product stored in bags.

# MPC SERIES DIMENSIONS

## COUPLING BODIES



TERMINATION	METRIC EQ.	POLYCARBONATE PART NO.	POLYSULFONE PART NO.	A	B
1/8" HOSE BARB	3.2 mm ID	MPC17002T03	MPC17002T39	0.96" (24.4 mm)	1.10" (27.9 mm)
1/4" HOSE BARB	6.4 mm ID	MPC17004T03	MPC17004T39	0.96" (24.4 mm)	1.30" (33.0 mm)
3/8" HOSE BARB	9.5 mm ID	MPC17006T03	MPC17006T39	0.96" (24.4 mm)	1.30" (33.0 mm)
1/8" HOSE BARB W/ LOCK	3.2 mm ID	MPCK17002T03	MPCK17002T39	1.02" (25.9 mm)	1.10" (27.9 mm)
1/4" HOSE BARB W/ LOCK	6.4 mm ID	MPCK17004T03	MPCK17004T39	1.02" (25.9 mm)	1.30" (33.0 mm)
3/8" HOSE BARB W/ LOCK	9.5 mm ID	MPCK17006T03	MPCK17006T39	1.02" (25.9 mm)	1.30" (33.0 mm)

## COUPLING INSERTS



TERMINATION	METRIC EQ.	POLYCARBONATE PART NO.	POLYSULFONE PART NO.	A	B
1/8" HOSE BARB	3.2 mm ID	MPC22002T03M	MPC22002T39M	0.60" (15.2 mm)	1.09" (27.7 mm)
1/4" HOSE BARB	6.4 mm ID	MPC22004T03M	MPC22004T39M	0.60" (15.2 mm)	1.30" (33.0 mm)
3/8" HOSE BARB	9.5 mm ID	MPC22006T03M	MPC22006T39M	0.60" (15.2 mm)	1.30" (33.0 mm)

## SEALING COMPONENTS

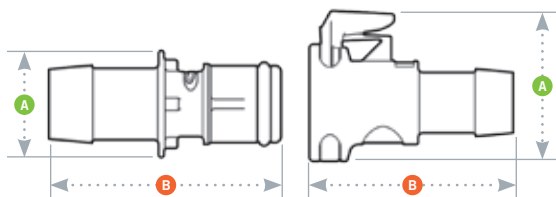


SEALING CAP	W/LOCK	MATERIAL	A	B
MPC32003	MPCK32003	Polycarbonate	0.96" (24.4 mm)	1.30" (33.0 mm)
MPC32039	MPCK32039	Polysulfone	0.99" (25.2 mm)	1.30" (33.0 mm)



SEALING PLUG	MATERIAL	A	B
MPC30003M	Polycarbonate	0.75" (19.1 mm)	1.24" (31.5 mm)
MPC30039M	Polysulfone	0.75" (19.1 mm)	1.24" (31.5 mm)

## PRODUCT DIMENSIONS



A = Height/Diameter

B = Total Length