MPC
SERIES CONNECTORS

MPC Series Connecters 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
or
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.
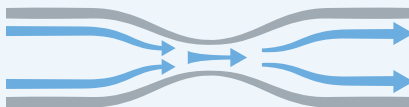
FEATURES

Ergonomic thumb latch ⟶

Parting line-free hose barb ⟶

Optional locking sleeve ⟶

Various options on termination size and material ⟶

BENEFITS

Easy to operate – even with gloved hands

Prevent potential leak path

Prevents accidental disconnection

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.

NOTE
Validation and Extractables data can be requested at 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

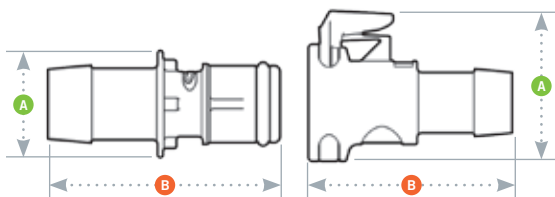| TERMINATION	METRIC EQ.	POLYCARBONATE PART NO.	POLYSULFONE PART NO.	A	B
1/8" HOSE BARB	3.2 mm ID	MPC17002T03	MPC17002T39	0.96" (24.4 mm)	1.10" (27.9 mm)
1/4" HOSE BARB	6.4 mm ID	MPC17004T03	MPC17004T39	0.96" (24.4 mm)	1.30" (33.0 mm)
3/8" HOSE BARB	9.5 mm ID	MPC17006T03	MPC17006T39	0.96" (24.4 mm)	1.30" (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" (27.7mm)
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