

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

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

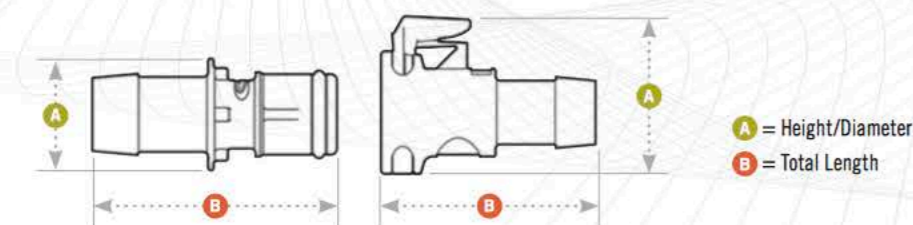
Meet biocompatibility requirements

Reusable, yet economical enough to allow disposability

Eliminates potential leak path

Meet BSE/TSE requirements

Product Dimensions



Specifications

PRESSURE:

Vacuum to 60 psi, 4.1 bar

TEMPERATURE:

ABS:

-40°F to 160°F (-40°C to 71°C)

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:

ABS (white), USP Class VI

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

Polysulfone (amber tint), USP Class VI, ADCF

O-rings: Silicone (clear), platinum-cured, USP Class VI, ADCF and Buna-N (black), USP Class V

STERILIZATION:

Gamma: Up to 50 kGy irradiation

Autoclave:

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

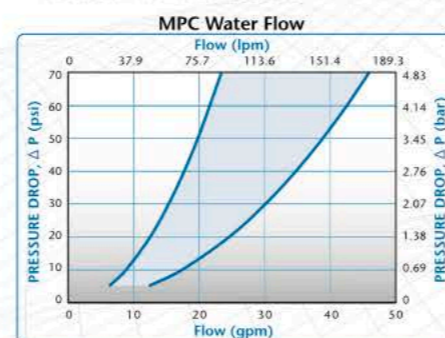
Polysulfone: Up to 270°F (132°C) for 60 minutes, up to 25 repetitions. Sterilize uncoupled only.

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

Coupling Bodies

A = Height/Diameter
B = Total Length

• ABS

TERMINATION	TUBING	METRIC EQ.	FLOW	STRAIGHT THRU	A	B
IN-LINE HOSE BARB	1/4" ID	6.4mm ID	.21"	MPC17004T	.96 (24.4)	1.30 (33.0)
	3/8" ID	9.5mm ID	.29"	MPC17006T	.96 (24.4)	1.30 (33.0)

• 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

• ABS

TERMINATION	TUBING	METRIC EQ.	FLOW	STRAIGHT THRU	O-RING	A	B
IN-LINE HOSE BARB	1/4" ID	6.4mm ID	.21"	MPC22004TM	Silicone Seal USP Class VI	.60 (15.2)	1.30 (33.0)
	3/8" ID	9.5mm ID	.29"	MPC22006TM	Silicone Seal USP Class VI	.60 (15.2)	1.30 (33.0)
IN-LINE HOSE BARB	1/4" ID	6.4mm ID	.21"	MPC22004T	Buna-N Seal USP Class V	.60 (15.2)	1.30 (33.0)
	3/8" ID	9.5mm ID	.29"	MPC22006T	Buna-N Seal USP Class V	.60 (15.2)	1.30 (33.0)

• 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)
IN-LINE HOSE BARB	1/8" ID	3.2mm ID	.09"	MPC22002T03	Buna-N Seal USP Class V	.60 (15.2)	1.10 (27.9)
	1/4" ID	6.4mm ID	.21"	MPC22004T03	Buna-N Seal USP Class V	.60 (15.2)	1.30 (33.0)
	3/8" ID	9.5mm ID	.29"	MPC22006T03	Buna-N Seal USP Class V	.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)