

MPU SERIES CONNECTORS

MPU Connectors' twist-to-connect design

features an easy-to-use locking mechanism that guards against accidental disconnects and provide a reliable, secure connection. The 3/4" and 1" hose barbs provide smooth, rapid media transfer.



SPECIFICATIONS

OPERATING PRESSURE

Vacuum to 35 psi, 2.4 bar

OPERATING TEMPERATURE

-40°F to 300°F (-40°C to 149°C)

STERILIZATION

- Gamma:** Up to 50 kGy irradiation
- Autoclave:** Up to 270°F (132°C), 60 minutes, up to 25 repetitions
Sterilize uncoupled only

TUBING SIZE

3/4" ID (19.0 mm), 1" ID (25.4 mm)

MATERIALS

Main components:

Polysulfone (amber tint)

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

3/4" and 1" hose barb →

Locking feature →

Sharp barb end →

Shrouded, leak-free seal & smooth, internal flow path →

BENEFITS

Facilitates rapid fill and empty of bioprocessing bags

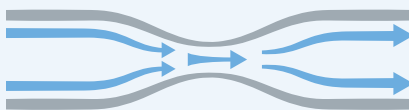
Guards against accidental disconnects

Minimizes fluid turbulence and dead space

Protect valuable fluids and eliminate potential to contaminate fluid path

TYPICAL FLOW RATE:

Cv Value Range: 18 - 41
for MPU



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/MPU

DID YOU KNOW

The MPU connectors are perfect for attaching to single-use mixers or single-use bioreactors when a large amount of media needs to be transferred.

MPU SERIES DIMENSIONS

COUPLING BODIES - Polysulfone



TERMINATION	METRIC EQ.	PART NO.	A	B
3/4" ID HOSE BARB	19.0 mm ID	MPU171239	1.75" (44.5 mm)	2.37" (60.2 mm)
1" ID HOSE BARB	25.4 mm ID	MPU171639	1.75" (44.5 mm)	2.37" (60.2 mm)

COUPLING INSERTS - Polysulfone



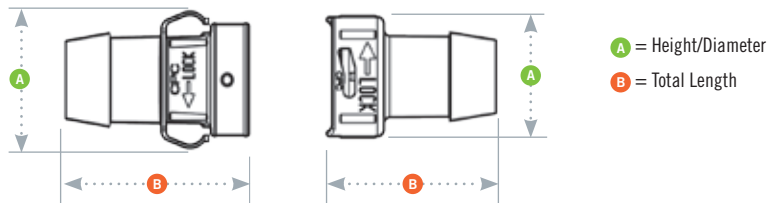
TERMINATION	METRIC EQ.	PART NO.	A	B
3/4" ID HOSE BARB	19.0 mm ID	MPU221239M	1.9" (48.3 mm)	2.88" (73.2 mm)
1" ID HOSE BARB	25.4 mm ID	MPU221639M	1.9" (48.3 mm)	2.88" (73.2 mm)

SEALING COMPONENTS - Polysulfone



SEALING CAP	MATERIAL	A	B
MPU32039	Polysulfone	1.75" (44.5mm)	.79" (20.1mm)
MPU30039M	Polysulfone	1.56" (39.6mm)	1.38" (35.1mm)

PRODUCT DIMENSIONS



MPU ASSEMBLY PROCEDURE

STEP 1



To connect two MPU components, line up and press the two raised features on the insert (or plug) component into the notches on the body (or cap) component, then twist the two components ¼ turn until the two products latch together.

STEP 2



To disconnect two MPU components, depress the two latches on the insert (or plug) component while twisting the two separate MPU components ¼ turn to separate.