

# 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.

Scan code to visit webpage



cpcworldwide.com/MPU

### FEATURES

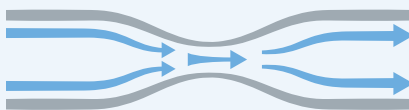
- 3/4" and 1" hose barb →
- Locking feature →
- Sharp barb end →
- Shrouded, leak-free seal & smooth, internal flow path →

### 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](http://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.



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# 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



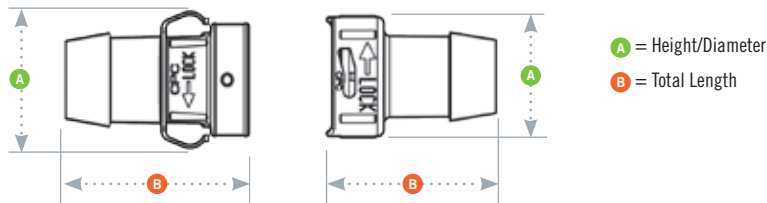
TERMINATION	METRIC EQ.	PART NO.	A	B
3/4" ID HOSE BARB	19.0 mm ID	MPU221239M	1.9" (48.3 mm)	2.88" (73.2 mm)
1" ID HOSE BARB	25.4 mm ID	MPU221639M	1.9" (48.3 mm)	2.88" (73.2 mm)

## 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.

WARRANTY: All sales are subject to Colder Products Company's limited express warranty set forth in the CPC catalog. Contact your local distributor or CPC Customer Service for warranty provisions.

Warning: Due to the wide variety of possible fluid media and operating conditions, unintended consequences may result from the use of this product, all of which are beyond the control of CPC. It is the user's responsibility to carefully determine and test for compatibility for use with their application. All such risks shall be assumed by the buyer.

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