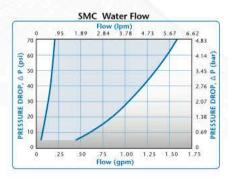
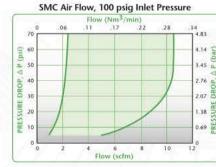


The SMC and SMF1 are among CPC's smallest couplings. These twistto-connect couplings provide a reliable and more secure alternative to luer-type connections. They also allow for the tubing to rotate freely when connected. This important feature prevents both kinked tubing and accidental disconnection during use.

The SMC Series is also available with optional RFID (Radio Frequency Identification) capability (page 98) and in polycarbonate material (page 102).

FEATURES	BENEFITS	
Twist to connect	Prevents accidental disconnects	
Free coupling rotation	Eliminates kinked tubing	
Quarter turn latch clicks when connected	Prevents damage due to over torquing	





# Specifications • • •

## PRESSURE:

Vacuum to 100 psi, 6.9 bar

#### TEMPERATURE:

Acetal, Chrome-Plated Brass: -40°F to 180°F (-40°C to 82°C)

Polypropylene: 32°F to 180°F (0°C to 82°C)

-40°F to 160°F (-40°C to 71°C)

#### MATERIALS:

Main Components: ABS, acetal, polypropylene, chrome-plated brass, stainless steel

Locking sleeves: Acetal

Valves: Acetal

Valve spring: 316 stainless steel

O-rings: Buna-N with acetal or chrome-plated brass, EPDM with polypropylene

### COLOR:

Main components: Natural white (acetal and ABS), almond (polypropylene), chrome and black

### **TUBING SIZES:**

1/16" to 1/8" ID, 1.6mm to 3.2mm and 5.0mm

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.

> SMC products manufactured in CPC's cleanroom also available. See page

These graphs are intended to give you a general idea of the performance capabilities of each product line. The shaded area of each 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

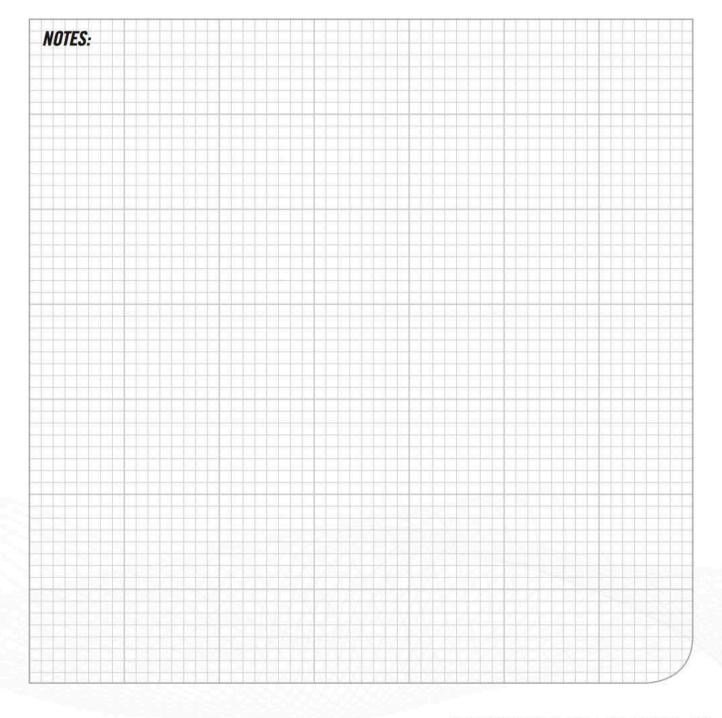
**Liquid Flow Rate Information for Couplings**The chart below shows the flow rate for CPC couplings. Each coupling was tested with water at 70°F (21°C). To determine flow rates for specific coupling configurations use the formula below.

## C<sub>v</sub> VALUES FOR SUBMINIATURE COUPLINGS

SMM02	SMM01	BODIES INSERTS SMM01	
.03	.03	SMF01	
.03	.03	SMFD01	
.19	.03	SMF02	
.08	.03	SMFD02	
.19	.03	SMPT02	
.08	.03	SMFD02	



- Q = Flow rate in gallons per
- C<sub>v</sub> = Average coefficient across various flow rates (see chart)
- AP = Pressure drop across coupling (psi)
- S = Specific gravity of liquid



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