



The SMC is a twist-to-connect coupling that provides a reliable and more secure alternative to luer-type connections. It also allows for the tubing to rotate freely when connected. This important feature prevents both kinked tubing and accidental disconnection during use.

**Features**

- Twist to connect
- Free coupling rotation
- Safer; prevents misconnections

**Benefits**

- Prevents accidental disconnects
- Eliminates kinked tubing
- Does not mate to luers

**SMC SERIES**

**Specifications**

- Pressure:** Vacuum to 100 psi, 6.9 bar
- Temperature:** -40°F to 250°F (-40°C to 121°C)
- Materials:**
  - Main components: Polycarbonate, USP Class VI, ADCF
  - Locking sleeves: Polycarbonate, USP Class VI, ADCF
  - O-rings: Buna-N, USP Class V, ADCF
- Color:**
  - Main components: Purple tint
- Sterilization:**
  - Gamma: Up to 50 kGy irradiation

**Tubing Sizes:** 1/16" to 1/8" ID, 1.6mm to 3.2mm ID

**WARNING:** Pressure, temperature, chemicals, and operating environment can affect the performance of couplings. It is the customer's responsibility to test the suitability of Colder products in their own application conditions.

**Liquid Flow Rates**

**Liquid Flow Rate Information for Couplings**

The chart below shows the flow rate for Colder couplings. Each coupling was tested with water at 70°F (21°C). To determine flow rates for specific coupling configurations use the formula to the right.

**C<sub>v</sub> Values for Subminiature Couplings**

BODIES	SMM01	SMM02
SMF01	.03	.03
SMF02	.03	.19

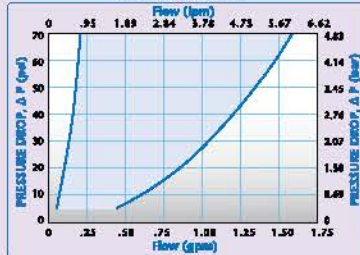
$$Q = C_v \sqrt{\frac{\Delta P}{S}}$$

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

SMC Air Flow, 100 psig Inlet Pressure



SMC Water Flow



These graphs are 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.

**Coupling Body**

TERMINATION	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	Product Dimensions (See drawing on page 14)	
				A	B
<b>POLYCARBONATE</b> IN-LINE	1/16" ID	1.6mm ID	SMF0191	.48	.75/.90
HOSE BARB	1/8" ID	3.2mm ID	SMF0291	.48	.90

**Coupling Insert**

TERMINATION	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	Product Dimensions (See drawing on page 14)	
				A	B
<b>POLYCARBONATE</b> IN-LINE	1/16" ID	1.6mm ID	SMM0191	.48	.75
HOSE BARB	1/8" ID	3.2mm ID	SMM0291	.48	.90

**Coupling Set**

TERMINATION	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	Product Dimensions (See drawing on page 14)	
				A	B
<b>POLYCARBONATE</b> HOSE BARB	1/16" ID	1.6mm ID	SMC0191	.48	1.32
	1/8" ID	3.2mm ID	SMC0291	.48	1.61



The new SRC connector is a small bore connector that eliminates the potential for misconnections with luer fittings. The intuitive design is simple for end users to operate and provides an audible "click" for added assurance and a secure, leak-free connection. This new connector features a unique elastomeric seal with a smooth, gap-free flow path that provides better flow characteristics and eliminates stagnant flow areas.

**Features**

- Prevents misconnections
- Reliable elastomeric seals
- Audible "click" and positive feel
- Allows tubing rotation

**Benefits**

- Won't connect to IV lines and other non-compatible applications
- Leak-free connections
- Operators know when a secure, reliable connection is made
- Prevents accidental disconnect or kinked tubing

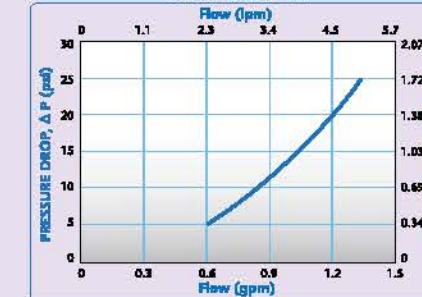
**SRC SERIES**

**Specifications**

- Pressure:** Vacuum to 25 psi, 1.7 bar
- Temperature:** 32° to 110° F (0° to 43° C) (rated for shipment uncoupled up to 160° F)
- Materials:**
  - Main components: Polypropylene with overmolded TPE\* pads, USP Class VI, ADCF
  - Integral seals: Overmolded TPE\*, USP Class VI, ADCF
- Color:** White with blue pads
- Sterilization:** EtO, e-beam or gamma
- Tubing Sizes:** 1/8" to 3/16" ID, 3.2mm to 4.8mm ID

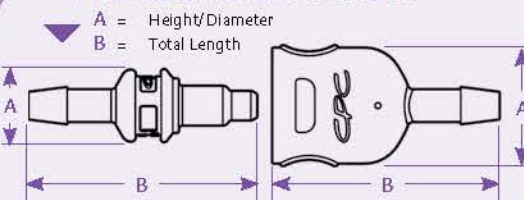
Add "CL" to the end of the plastic SRC part numbers below for cleanroom manufactured versions.

SRC Water Flow



This graph is intended to give you a general idea of the performance capabilities of the product.

**Product Dimensions**



	PANEL OPENING	MAX. PANEL THICKNESS	MIN. PANEL THICKNESS
<b>COUPLING BODIES AND INSERTS</b>	7/16	.21	.03
	PANEL NUT HEX	PANEL NUT THREAD	
	1/2	7/16-24UNS	

**Coupling Bodies POLYPROPYLENE**

TERMINATION	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	A	B
<b>POLYPROPYLENE</b> IN-LINE	1/8" ID	3.2mm ID	SRC1702	.62	1.18
HOSE BARB	3/16" ID	4.8mm ID	SRC1703	.62	1.18

**Coupling Inserts POLYPROPYLENE**

TERMINATION	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	A	B
<b>POLYPROPYLENE</b> IN-LINE	1/8" ID	3.2mm ID	SRC2202	.38	1.19
HOSE BARB	3/16" ID	4.8mm ID	SRC2203	.38	1.19

**CHROME-PLATED BRASS**

TERMINATION	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	A	B
<b>CHROME-PLATED BRASS</b> PANEL MOUNT	1/8" ID	3.2mm ID	SRC4202CB	.57	1.66
HOSE BARB	3/16" ID	4.8mm ID	SRC4203CB	.57	1.66

**Accessories**

PART NO.	DESCRIPTION	MATERIALS
SRC3L	Tethered cap and plug for SRC body and insert	White medical-grade TPE

Call toll free 1-800-444-2474 or visit us at [www.colder.com](http://www.colder.com)

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