



EC4 SERIES

Specifications

- Pressure:** Vacuum to 100 psi, 6.9 bar

- Temperature:** 0°F to 140°F (-18°C to 62°C)

- Materials:**

 - Main components and valves:** Acetal
 - Thumb latch:** Acetal
 - Panel Nut:** Acetal
 - Valve spring:** 316 stainless steel
 - External spring:** 302 stainless steel
 - O-ring:** Buna-N

- Color:** White with blue latch

- Tubing Sizes:**

 - 1/4" to 3/8" ID, 6.4mm to 9.5mm 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's products in their own application conditions.

EC4 Series couplings feature a plastic thumb latch, fewer moving parts and a smooth contoured design to deliver ease-of-use and excellent flow in a compact size. The EC4 connector is an ideal solution for lower pressure and temperature applications.

Compatible with Colder's APC product line.

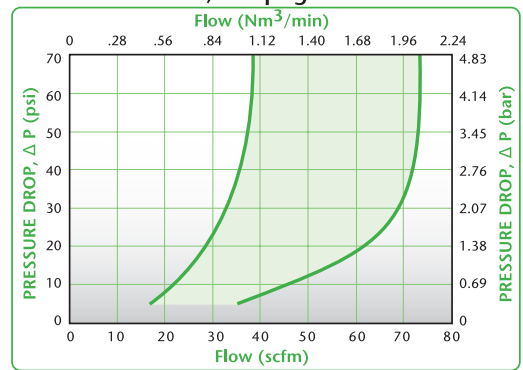
Features

- Plastic thumb latch
- Shrouded thumb latch
- Integral terminations

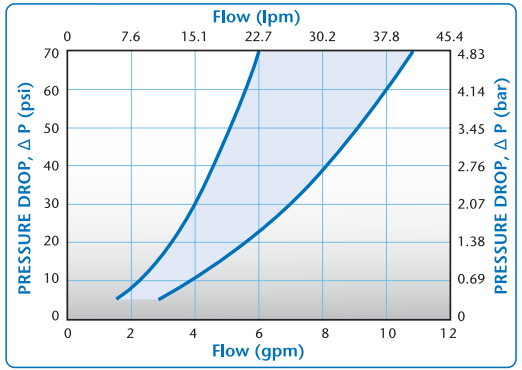
Benefits

- No exposed metal parts
- Protects against accidental disconnects
- Fewer leak points, shorter assemblies, and faster installations

EC4 Air Flow, 100 psig Inlet Pressure



EC4 Water Flow



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 shaded area.

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.

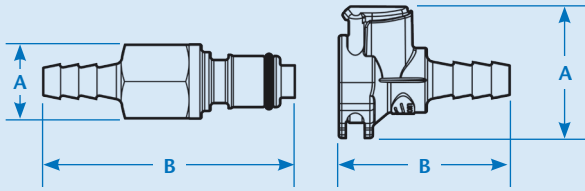
$$Q = C_v \sqrt{\frac{\Delta P}{S}}$$

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

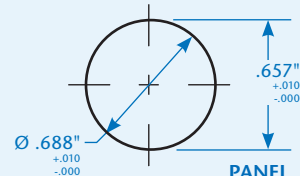
C_v Values for EC4 Couplings

BODIES	EC4 22004	EC4D 22004	EC4 22006	EC4D 22006	EC4 24004
EC417004	1.0	0.7	0.9	0.7	0.8
EC4D17004	0.8	0.6	0.7	0.6	0.7
EC417006	2.4	0.9	4.0	0.9	2.0
EC4D17006	1.2	0.8	1.3	0.7	1.2

Product Dimensions



A = Height/Diameter
B = Total Length (including valve)



COUPLING BODIES	PANEL OPENING see drawing	MAX. PANEL THICKNESS .400	MIN. PANEL THICKNESS .150
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PANEL NUT HEX 13/16	PANEL NUT THREAD 11/16-24UNEF
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Coupling Bodies

ACETAL

TERMINATION	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	A	B
IN-LINE HOSE BARB	1/4" ID	6.4mm ID	EC417004	1.0	1.35
	3/8" ID	9.5mm ID	EC417006	1.0	1.35
IN-LINE HOSE BARB	1/4" ID	6.4mm ID	SHUTOFF EC4D17004	1.0	2.07
	3/8" ID	9.5mm ID	SHUTOFF EC4D17006	1.0	2.07
PANEL MOUNT HOSE BARB	1/4" ID	6.4mm ID	STRAIGHT THRU EC416004	1.0	2.07
	3/8" ID	9.5mm ID	STRAIGHT THRU EC416006	1.0	2.07
			SHUTOFF EC4D16004	1.0	2.07
			SHUTOFF EC4D16006	1.0	2.07



Coupling Inserts

ACETAL

TERMINATION	THREAD	STRAIGHT THRU	A	B
IN-LINE PIPE THREAD	1/4" NPT	EC424004	.63	1.43
IN-LINE HOSE BARB	1/4" ID	STRAIGHT THRU EC422004	.60/.72	1.38/2.10
	3/8" ID	STRAIGHT THRU EC422006	.60/.72	1.38/1.92
		SHUTOFF EC4D22004		
		SHUTOFF EC4D22006		



All measurements are in inches (millimeters) unless otherwise noted. Tubing must meet stated inside and outside diameters.



Quick Couplings & Fittings for Plastic Tubing

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