

EFC12 SERIES CONNECTOR

The 9/32" flow EFC12 Series couplings feature a high efficiency valve design that provides a greater flow capability than any other coupling its size. Chemically resistant polypropylene material makes it ideal for harsh environments. The EFC12 Series adds a bulkhead panel mount option for tight seals against tank walls and drums.



SPECIFICATIONS

PRESSURE:

Vacuum to 105 psi, 7.2 bar

TEMPERATURE:

32°F to 160°F (0°C to 71°C)

MATERIALS:

Main components and valves: Polypropylene

Thumb latch: Polypropylene

Valve spring: 316 stainless steel

Panel mount gasket: EPDM

External springs: 302 stainless steel

O-rings: EPDM

COLOR:

Gray with dark gray latch

TUBING SIZES:

1/4" and 3/8" ID, 6.4mm and 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 CPC's products in their own application conditions. Use the graph at the right as a guide.



cpcworldwide.com/EFC12

FEATURES

High efficiency valve

Plastic thumb latch

Polypropylene material

Compatible

BENEFITS

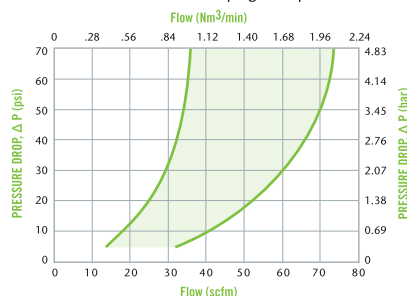
More flow than PLC Series in a compact size

Fewer moving parts

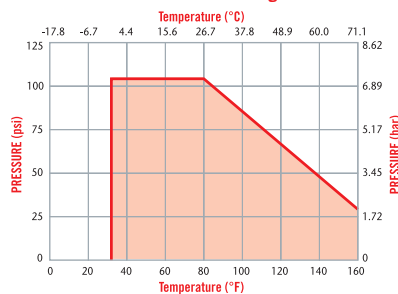
Chemically resistant and gamma sterilizable

Mates with most APC couplings

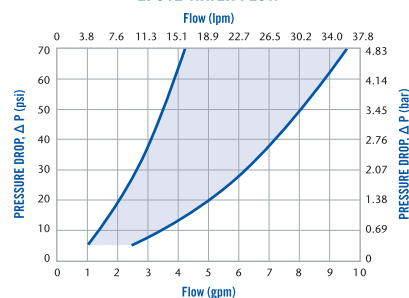
EFC12 AIR FLOW • 100 psig inlet pressure



EFC12 Pressure Range



EFC12 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.

EFC12 SERIES DIMENSIONS

COUPLING BODIES - Polypropylene

TERMINATION	TUBING/THREAD SIZE	METRIC EQ	STRAIGHT THRU	SHUTOFF	A	B	D
IN-LINE PIPE THREAD	1/4" NPT			EFGD10412	0.93 (23.6)	2.29 (58.2)	
	3/8" NPT			EFGD10612	0.93 (23.6)	2.29 (58.2)	
BULKHEAD PANEL MOUNT HOSE BARB	1/4" ID	6.4mm ID		EFGD16412	0.93 (23.6)	2.23 (56.6)	
	3/8" ID	9.5mm ID		EFGD16612	0.93 (23.6)	2.23 (56.6)	
IN-LINE HOSE BARB	1/4" ID	6.4mm ID		EFGD17412	0.93 (23.6)	2.23 (56.6)	
	3/8" ID	9.5mm ID		EFGD17612	0.93 (23.6)	2.23 (56.6)	

COUPLING INSERT - Polypropylene

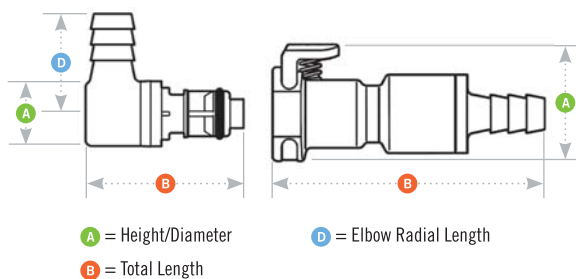
TERMINATION	TUBING/THREAD SIZE	METRIC EQ	STRAIGHT THRU	SHUTOFF	A	B	D
IN-LINE PIPE THREAD	1/4" NPT			EFGD24412	0.72 (18.3)	1.77 (45.0)	
	3/8" NPT			EFGD24612	0.72 (18.3)	1.77 (45.0)	
IN-LINE HOSE BARB	1/4" ID	6.4mm ID	EFGD22412	EFGD22412	0.60/0.72 (15.2/18.3)	1.33/2.08 (33.8/52.8)	
	3/8" ID	9.5mm ID	EFGD22612	EFGD22612	0.60/0.72 (15.2/18.3)	1.33/2.08 (33.8/52.8)	
ELBOW HOSE BARB	1/4" ID	6.4mm ID	EFGD23412	EFGD23412	0.63 (16.0)	1.32/1.45 (33.5/36.8)	0.96 (24.4)
	3/8" ID	9.5mm ID	EFGD23612	EFGD23612	0.63 (16.0)	1.32/1.45 (33.5/36.8)	0.96 (24.4)

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

ACCESSORIES

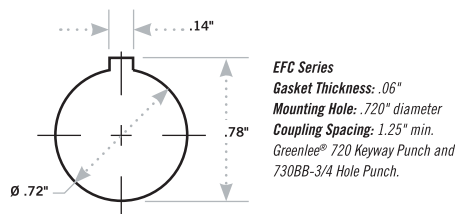
DESCRIPTION	MATERIAL	PART NO.
PANEL MOUNT GASKET REPLACEMENT	Buna-N	1830300

PRODUCT DIMENSIONS



PANEL DIMENSIONS

	PANEL OPENING	PANEL THICKNESS MAX.-MIN.	PANEL NUT HEX	PANEL NUT THREAD
COUPLING BODIES	see drawing	0.25 - 0.03	13/16	11/16-24UNF



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 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

	EFC 2000412	EFGD 2000412	EFC 2000612	EFGD 2000612	EFC 2200412	EFGD 2200412	EFC 2200612	EFGD 2200612	EFC 2400412	EFGD 2400412
EFGD10412	0.51	0.51	0.51	0.51	0.50	0.45	0.50	0.50	0.51	0.51
EFGD10612	0.61	0.51	1.13	0.72	0.50	0.45	0.81	0.69	0.51	0.72
EFGD16412	0.51	0.51	0.51	0.51	0.50	0.45	0.50	0.50	0.51	0.51
EFGD16612	0.61	0.51	1.13	0.72	0.50	0.45	0.81	0.69	0.51	0.72
EFGD17412	0.51	0.51	0.51	0.51	0.50	0.45	0.50	0.50	0.51	0.51
EFGD17612	0.61	0.51	1.13	0.72	0.50	0.45	0.81	0.69	0.51	0.72

INSERTS