

EFC12 SERIES CONNECTOR



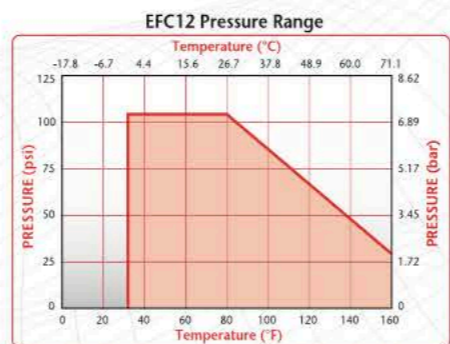
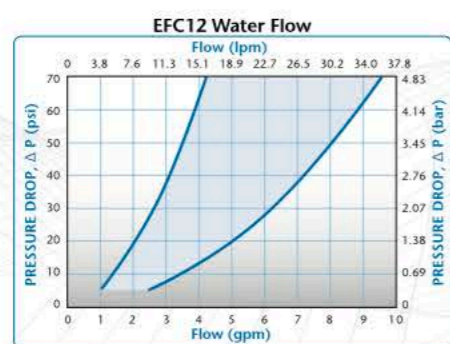
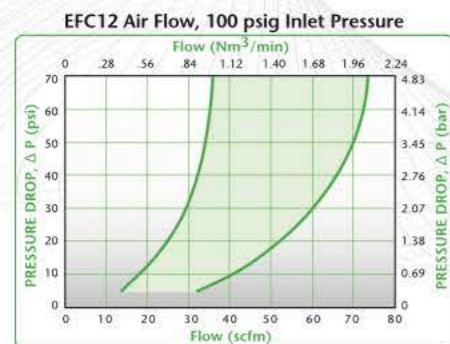
The 9/32" flow EFC12 Series couplings feature a high efficiency valve design that provides a greater flow capability than any other coupling its size. Chemically resistant polypropylene material makes it ideal for harsh environments. The EFC12 Series adds a bulkhead panel mount option for tight seals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

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



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.

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.

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 at the right.

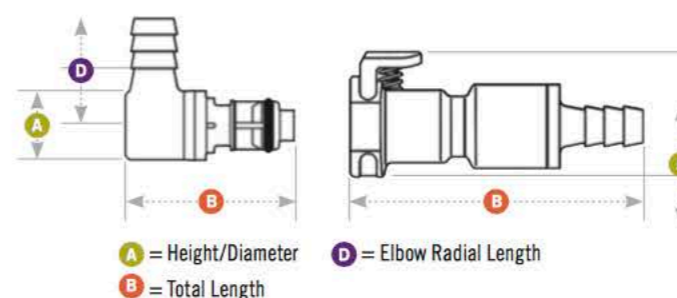
$$Q = C_v \sqrt{\frac{\Delta P}{S}}$$

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 EFC12 COUPLINGS

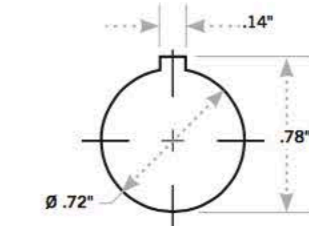
INSERTS	EFC 2000412	EFC 2000412	EFC 2000612	EFC 2000612	EFC 2200412	EFC 2200412	EFC 2200612	EFC 2200612	EFC 2400412	EFC 2400412
EFC10412	0.51	0.51	0.51	0.51	0.50	0.45	0.50	0.50	0.51	0.51
EFC10612	0.61	0.51	1.13	0.72	0.50	0.45	0.81	0.69	0.51	0.72
EFC16412	0.51	0.51	0.51	0.51	0.50	0.45	0.50	0.50	0.51	0.51
EFC16612	0.61	0.51	1.13	0.72	0.50	0.45	0.81	0.69	0.51	0.72
EFC17412	0.51	0.51	0.51	0.51	0.50	0.45	0.50	0.50	0.51	0.51
EFC17612	0.61	0.51	1.13	0.72	0.50	0.45	0.81	0.69	0.51	0.72

EFC12 DIMENSIONS



Panel Dimensions

	PANEL OPENING	PANEL THICKNESS MAX.-MIN.	PANEL NUT HEX	PANEL NUT THREAD
COUPLING BODIES	see drawing	.25 - .03	13/16	11/16-24UNF



EFC Series
Gasket Thickness: .06"
Mounting Hole: .720" diameter
Coupling Spacing: 1.25" min.
Greenlee® 720 Keyway Punch and 730BB-3/4 Hole Punch.

Coupling Bodies • POLYPROPYLENE

TERMINATION	TUBING/THREAD SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	A	B	D
IN-LINE PIPE THREAD	1/4" NPT		EFC10412	EFC10412	.93	2.29	
	3/8" NPT		EFC10612	EFC10612	.93	2.29	
BULKHEAD PANEL MOUNT HOSE BARB	1/4" ID	6.4mm ID	EFC16412	EFC16412	.93	2.23	
	3/8" ID	9.5mm ID	EFC16612	EFC16612	.93	2.23	
IN-LINE HOSE BARB	1/4" ID	6.4mm ID	EFC17412	EFC17412	.93	2.23	
	3/8" ID	9.5mm ID	EFC17612	EFC17612	.93	2.23	

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

Coupling Inserts • POLYPROPYLENE

TERMINATION	TUBING/THREAD SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	A	B	D
IN-LINE PIPE THREAD	1/4" NPT		EFC24412	EFC24412	.72	1.77	
	3/8" NPT		EFC24612	EFC24612	.72	1.77	
IN-LINE HOSE BARB	1/4" ID	6.4mm ID	EFC22412	EFC22412	.60/.72	1.33/2.08	
	3/8" ID	9.5mm ID	EFC22612	EFC22612	.60/.72	1.33/1.90	
ELBOW HOSE BARB	1/4" ID	6.4mm ID	EFC23412	EFC23412	.63	1.32/1.45	.96
	3/8" ID	9.5mm ID	EFC23612	EFC23612	.63	1.32/1.45	.96

Accessories

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