

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 in a compact size
- Fewer moving parts
- Chemically resistant and gamma sterilizable
- Mates with most APC couplings

EFC12 SERIES

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

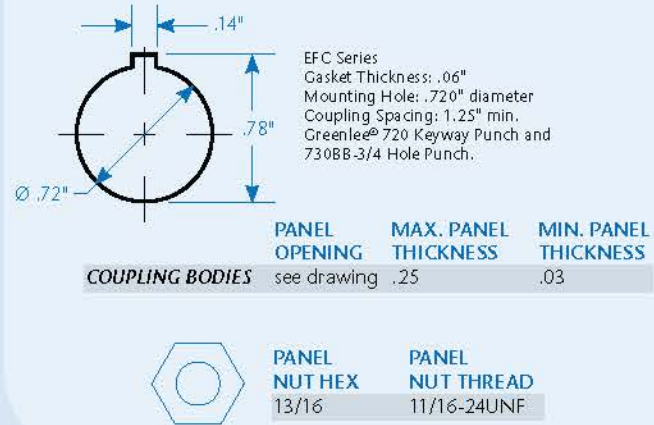
O-rings: EPDM

Color:

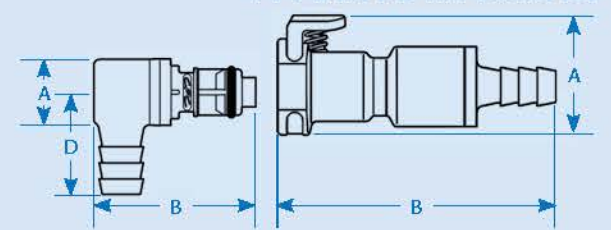
Gray with dark gray latch

Tubing Sizes:

1/4" and 3/8" ID, 6.4mm and 9.5mm ID



Product Dimensions



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

Coupling Bodies

POLYPROPYLENE

TERMINATION	THREAD SIZE	SHUTOFF	A	B	
IN-LINE PIPE THREAD	1/4" NPT	EFCD10412	.93	2.29	
	3/8" NPT	EFCD10612	.93	2.29	
TERMINATION	TUBING SIZE	METRIC EQ.	SHUTOFF	A	B
BULKHEAD PANEL MOUNT HOSE BARB	1/4" ID	6.4mm ID	EFCD16412	.93	2.23
	3/8" ID	9.5mm ID	EFCD16612	.93	2.23
TERMINATION	TUBING SIZE	METRIC EQ.	SHUTOFF	A	B
IN-LINE HOSE BARB	1/4" ID	6.4mm ID	EFCD17412	.93	2.23
	3/8" ID	9.5mm ID	EFCD17612	.93	2.23

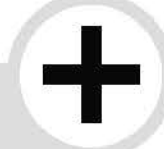
Coupling Inserts

POLYPROPYLENE

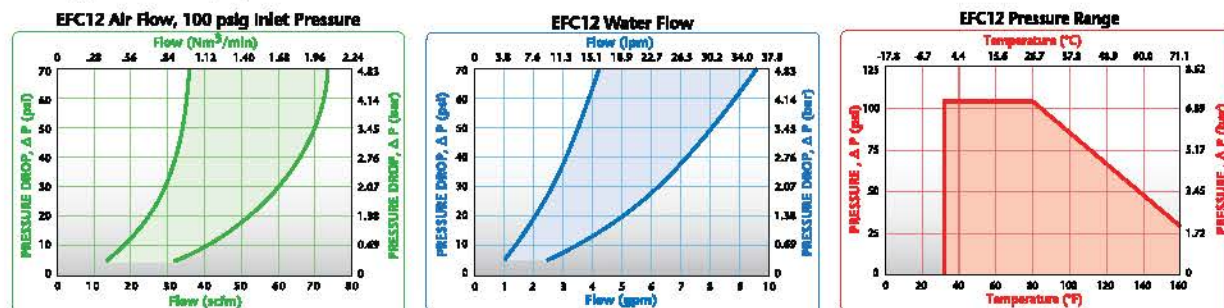
TERMINATION	THREAD SIZE	SHUTOFF	A	B			
IN-LINE PIPE THREAD	1/4" NPT	EFCD24412	.72	1.77			
	3/8" NPT	EFCD24612	.72	1.77			
TERMINATION	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	A	B	
IN-LINE HOSE BARB	1/4" ID	6.4mm ID	EFC22412	EFCD22412	.60/.72	1.33/2.08	
	3/8" ID	9.5mm ID	EFC22612	EFCD22612	.60/.72	1.33/1.90	
TERMINATION	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	A	B	D
ELBOW HOSE BARB	1/4" ID	6.4mm ID	EFC23412	EFCD23412	.63	1.32/1.45	.96
	3/8" ID	9.5mm ID	EFC23612	EFCD23612	.63	1.32/1.45	.96

Accessories

PANEL MOUNT GASKET REPLACEMENT	MATERIAL	PART NO.
For sealing panel mount bodies listed above	EPDM	668400



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 below.

C_v Values for EFC12 Couplings

BODIES	EFC 22412	EFCD 22412	EFC 22612	EFCD 22612	EFC 23412	EFCD 23412	EFC 23612	EFCD 23612	EFC 24412	EFCD 24412
EFCD10412	0.51	0.51	0.51	0.51	0.50	0.45	0.50	0.50	0.51	0.51
EFCD10612	0.61	0.51	1.13	0.72	0.50	0.45	0.81	0.69	0.51	0.72
EFCD16412	0.51	0.51	0.51	0.51	0.50	0.45	0.50	0.50	0.51	0.51
EFCD16612	0.61	0.51	1.13	0.72	0.50	0.45	0.81	0.69	0.51	0.72
EFCD17412	0.51	0.51	0.51	0.51	0.50	0.45	0.50	0.50	0.51	0.51
EFCD17612	0.61	0.51	1.13	0.72	0.50	0.45	0.81	0.69	0.51	0.72

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

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

All measurements are in inches (millimeters) unless otherwise noted. Tubing must meet stated inside and outside diameters. Couplings are pictured with valves unless otherwise noted. Straight thru dimension is listed first when two measurements are provided.