

# EFC12 SERIES CONNECTOR



## 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.

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

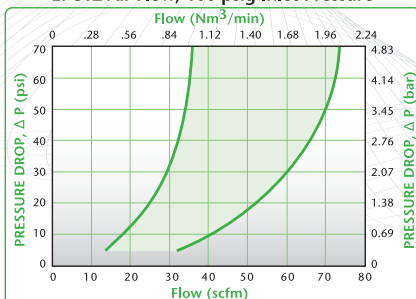
- High efficiency valve
- Plastic thumb latch
- Polypropylene material
- Compatible

## BENEFITS

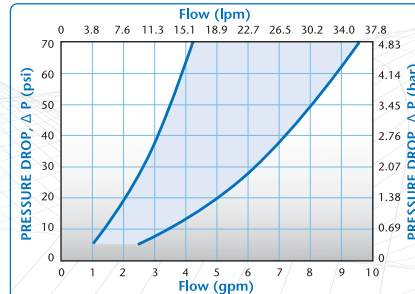
- More flow than PLC Series in a compact size
- Fewer moving parts
- Chemically resistant and gamma sterilizable
- Mates with most APC couplings

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.

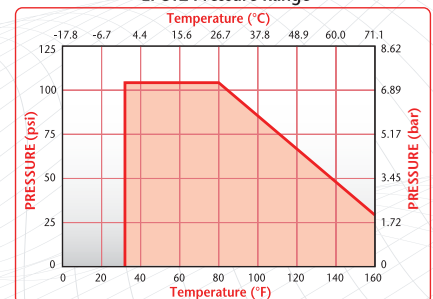
EFC12 Air Flow, 100 psig Inlet Pressure



EFC12 Water Flow



EFC12 Pressure Range



## 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<sub>v</sub> = Average coefficient across various flow rates (see chart)

ΔP = Pressure drop across coupling (psi)

S = Specific gravity of liquid

### C<sub>v</sub> VALUES FOR EFC12 COUPLINGS

INSERTS		EFC	EFC	EFC	EFC	EFC	EFC	EFC	EFC	EFC
BODIES		2000412	2000412	2000612	2000612	2200412	2200412	2200612	2200612	2400412
EFC		2000412	2000412	2000612	2000612	2200412	2200412	2200612	2200612	2400412
EFC	2000412	0.51	0.51	0.51	0.51	0.50	0.45	0.50	0.50	0.51
EFC	2000612	0.61	0.51	1.13	0.72	0.50	0.45	0.81	0.69	0.51
EFC	2200412	0.51	0.51	0.51	0.51	0.50	0.45	0.50	0.50	0.51
EFC	2200612	0.61	0.51	1.13	0.72	0.50	0.45	0.81	0.69	0.51
EFC	2400412	0.51	0.51	0.51	0.51	0.50	0.45	0.50	0.50	0.51
EFC	2400612	0.61	0.51	1.13	0.72	0.50	0.45	0.81	0.69	0.51