# 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

**0-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

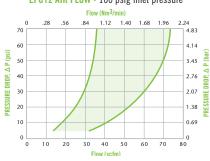
## FEATURES BENEFITS

High efficiency valve — More flow than PLC Series in a compact size

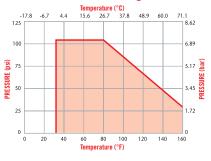
Plastic thumb latch Fewer moving parts

Compatible — Mates with most APC couplings

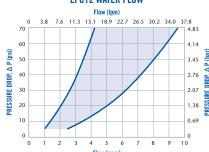
# EFC12 AIR FLOW • 100 psig inlet pressure



### **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.



**COLDER PRODUCTS COMPANY** 

U.S.A.

+1 (651) 645-0091

FAX: +1 (651) 645-5404 FOLL FREE: +1 (800) 444-2474 COLDER PRODUCTS COMPANY GMBH Germany

DOVER (SHANGHAI) INDUSTRIAL CO., LTD ShangHai, China

PHONE: +86 21 2411 2666

TOLL FREE: +86 400 990 1978

info@cpcworldwide.com

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# **EFC12 SERIES DIMENSIONS**

## **COUPLING BODIES** - Polypropylene



# **COUPLING INSERT** - Polypropylene

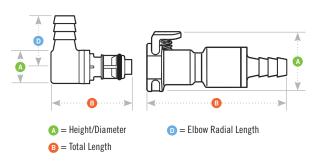


TERMINATION	TUBING/THREAD Size	METRIC Eq	STRAIGHT Thru	SHUTOFF	A	В	D
IN-LINE	1/4" NPT			EFCD24412	0.72 (18.3)	1.77 (45.0)	
PIPE THREAD	3/8" NPT			EFCD24612	0.72 (18.3)	1.77 (45.0)	
IN-LINE	1/4" ID	6.4mm ID	EFC22412	EFCD22412	0.60/0.72 (15.2/18.3)	1.33/2.08 (33.8/52.8)	
HOSE BARB	3/8" ID	9.5mm ID	EFC22612	EFCD22612	0.60/0.72 (15.2/18.3)	1.33/2.08 (33.8/52.8)	
ELBOW	1/4" ID	6.4mm ID	EFC23412	EFCD23412	0.63 (16.0)	1.32/1.45 (33.5/36.8)	0.96 (24.4)
HOSE BARB	3/8" ID	9.5mm ID	EFC23612	EFCD23612	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.

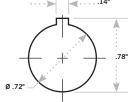
ACCESSORIES	DESCRIPTION	MATERIAL	PART NO.
	PANEL MOUNT GASKET REPLACEMENT	Buna-N	1830300

## 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			
14"							



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

#### 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 = Flow rate in gallons per minute

= Average coefficient across various

 $\Delta P$  = Pressure drop across coupling (psi)

S = Specific gravity of liquid

**C**<sub>v</sub> VALUES

#### **INSERTS**

		EFC 2000412	EFCD 2000412	EFC 2000612	EFCD 2000612	EFC 2200412	EFCD 2200412	EFC 2200612	EFCD 2200612	EFC 2400412	EFCD 2400412
	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

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 CPC. 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.