

# HFC12 SERIES CONNECTOR

**HFC12 Series couplings** have flow comparable to many 1/2" flow couplings in a 3/8" body size. Compact and lightweight, HFC couplings replace bulky and heavy brass ball-and-sleeve couplings in a wide range of applications. An ergonomic design and a large, shrouded thumb latch pad produce a coupling that is easy to grip and simple to operate. An efficient valve design leads to high flow and low spillage.



## SPECIFICATIONS

### PRESSURE:

Vacuum to 60 psi, 4.2 bar

### TEMPERATURE:

32°F to 160°F (0°C to 71°C)

### MATERIALS:

**Main components and valves:** Polypropylene

**Thumb latch:** Polypropylene

**Valve spring (wetted):** 316 stainless steel

**External springs:** 316 stainless steel

**O-rings:** EPDM

**Panel mount gasket:** EPDM

**Compression nut, gripper, ferrule:**

Polypropylene

**COLOR:** Gray with dark gray latch

### TUBING SIZES:

3/8" to 3/4" ID, 9.5 mm to 19.0 mm 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. For compression termination specifications: 3/8" OD or 1/2" OD, +0.010/-0.000



cpcworldwide.com/HFC12

## FEATURES

High efficiency valve



## BENEFITS

More flow in a compact size

Ergonomic design



Easy to grip, simple to operate

Polypropylene material



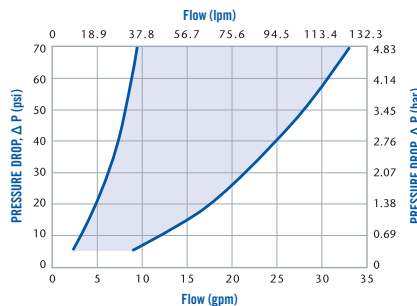
Chemically resistant and gamma sterilizable

Compatible

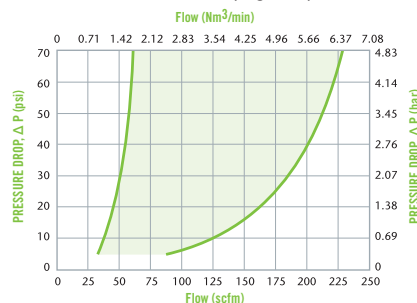


Mates with HFC35 and HFC57 couplings

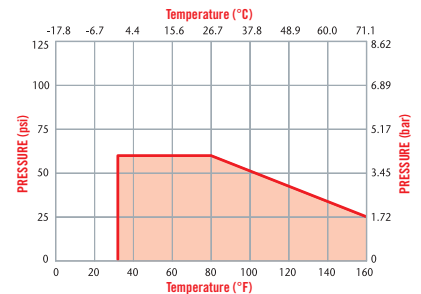
HFC12 WATER FLOW



HFC12 AIR FLOW • 100 psig inlet pressure



HFC12 Pressure Range



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.



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# HFC12 SERIES DIMENSIONS

## COUPLING BODIES - Polypropylene

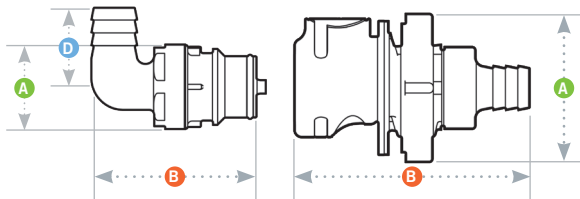
TERMINATION	TUBING/THREAD SIZE	METRIC EQ	STRAIGHT THRU	SHUTOFF	A	B	D
 IN-LINE PIPE THREAD	3/8" NPT		HFC10612	HFCD10612	1.44 (36.6)	2.69 (68.3)	
	3/8" BSPT		HFC10612BSPT	HFCD10612BSPT	1.44 (36.6)	2.72 (69.1)	
	1/2" NPT		HFC10812	HFCD10812	1.44 (36.6)	2.88 (73.2)	
	3/4" NPT		HFC101212	HFCD101212	1.44 (36.6)	3.07 (78.0)	
 BULKHEAD PANEL MOUNT HOSE BARB	3/8" ID	9.5 mm ID	HFC16612	HFCD16612	1.82 (46.2)	2.82 (71.6)	
	1/2" ID	12.7 mm ID	HFC16812	HFCD16812	1.82 (46.2)	2.82 (71.6)	
	5/8" ID	15.9 mm ID	HFC161012	HFCD161012	1.82 (46.2)	2.94 (74.7)	
	3/4" ID	19.0 mm ID	HFC161212	HFCD161212	1.82 (46.2)	2.94 (74.7)	
 BULKHEAD PANEL MOUNT ELBOW HOSE BARB	3/8" ID	9.5 mm ID	HFC33612PM	HFCD33612PM	1.82 (46.2)	2.9 (73.66)	0.93 (23.6)
	1/2" ID	12.7 mm ID	HFC33812PM	HFCD33812PM	1.82 (46.2)	2.9 (73.66)	0.93 (23.6)
 BULKHEAD PANEL MOUNT COMPRESSION	3/8" OD	9.5 mm OD	HFC12612	HFCD12612	1.82 (46.2)	2.96 (75.2)	
	1/2" OD	12.7 mm OD	HFC12812	HFCD12812	1.82 (46.2)	3.11 (79.0)	
 IN-LINE HOSE BARB	3/8" ID	9.5 mm ID	HFC17612	HFCD17612	1.44 (36.6)	2.79 (70.9)	
	1/2" ID	12.7 mm ID	HFC17812	HFCD17812	1.44 (36.6)	2.79 (70.9)	
	5/8" ID	15.9 mm ID	HFC171012	HFCD171012	1.44 (36.6)	2.94 (74.7)	
	3/4" ID	19.0 mm ID	HFC171212	HFCD171212	1.44 (36.6)	2.94 (74.7)	
 IN-LINE COMPRESSION	3/8" OD	9.5 mm OD		HFCD13612	1.44 (36.6)	2.96 (75.2)	
	1/2" OD	12.7 mm OD	HFC13812	HFCD13812	1.44 (36.6)	3.11 (79.0)	

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

## ACCESSORIES

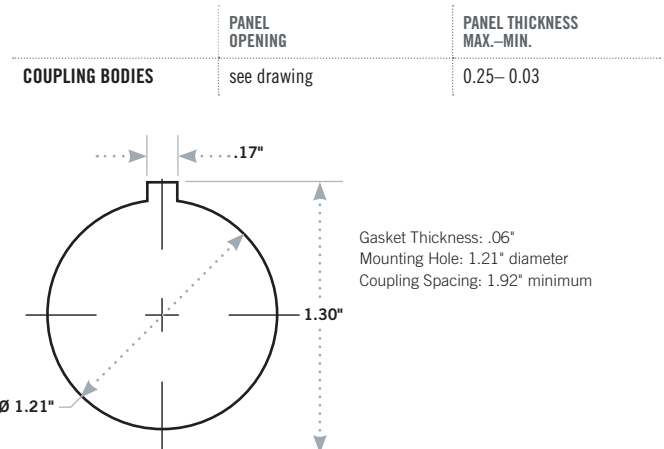
DESCRIPTION	MATERIAL	PART NO.
PANEL MOUNT GASKET REPLACEMENT: FOR SEALING PANEL MOUNT BODIES LISTED ABOVE	EPDM	621200

## PRODUCT DIMENSIONS







- A = Height/Diameter
- B = Total Length
- D = Elbow Radial Length

## PANEL DIMENSIONS



## COUPLING INSERTS - Polypropylene

TERMINATION	TUBING/THREAD SIZE	METRIC EQ	STRAIGHT THRU	SHUTOFF	A	B	D
 <b>IN-LINE PIPE THREAD</b>	3/8" NPT		HFC24612	HFCD24612	1.16 (29.5)	1.77/1.89 (45.0/48.0)	
	3/8" BSPT		HFC24612BSPT	HFCD24612BSPT	1.16 (29.5)	1.80/1.92 (45.7/48.8)	
	1/2" NPT		HFC24812	HFCD24812	1.16 (29.5)	1.95/2.07 (49.5/52.6)	
	3/4" NPT		HFC241212	HFCD241212	1.23 (31.2)	2.14/2.26 (54.4/57.4)	
 <b>IN-LINE HOSE BARB (NON-VALVED SHOWN)</b>	3/8" ID	9.5 mm ID	HFC22612	HFCD22612	1 (25.4)	1.97/2.09 (50.0/53.1)	
	1/2" ID	12.7 mm ID	HFC22812	HFCD22812	1 (25.4)	1.97/2.09 (50.0/53.1)	
	5/8" ID	15.9 mm ID	HFC221012	HFCD221012	1 (25.4)	2.01/2.13 (51.1/54.1)	
	3/4" ID	19.0 mm ID	HFC221212	HFCD221212	1 (25.4)	2.14/2.26 (54.4/57.4)	
 <b>IN-LINE COMPRESSION (NON-VALVED SHOWN)</b>	3/8" OD	9.5 mm OD	HFC20612	HFCD20612	1 (25.4)	2.14/2.26 (54.4/57.4)	
	1/2" OD	12.7 mm OD		HFCD20812	1 (25.4)	2.29/2.41 (58.2/61.2)	
 <b>ELBOW HOSE BARB (NON-VALVED SHOWN)</b>	3/8" ID	9.5 mm ID	HFC23612	HFCD23612	1 (25.4)	1.93/2.05 (49.0/52.1)	0.93 (23.6)
	1/2" ID	12.7 mm ID	HFC23812	HFCD23812	1 (25.4)	1.97/2.09 (50.0/53.1)	0.93 (23.6)
	3/4" ID	19.0 mm ID	HFC231212	HFCD231212	1 (25.4)	1.95/2.07 (49.5/52.6)	0.93 (23.6)

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.

## DID YOU KNOW

When selecting a valved coupling for your application, make sure to order a part number with a D just before the numeric portion of the part number. For example, HFC101212 does not have a shutoff valve; HFCD101212 would be the correct part number to order for a valved coupling.

To visually identify a part to determine whether or not it is valved, disconnect the coupling body and insert, and then look through the part. If you can see light all the way through, your part is non-valved. If there is anything obstructing the light, you probably have a valved part. Please contact Customer Service at 1-800-444-2474 or 651-645-0091 if you need further assistance.

WARRANTY: All sales are subject to the Colder products company® limited express warranty set forth in the CPC catalog. Contact your local distributor or CPC Customer Service for warranty provisions.

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.

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