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

0-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, 9.5mm to 19.0mm 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" 0D or 1/2" 0D, +0.010/-0.000



cpcworldwide.com/HFC12

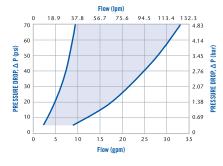
FEATURES BENEFITS

High efficiency valve — More flow in a compact size

Polypropylene material — Chemically resistant and gamma sterilizable

Compatible — Mates with HFC35 and HFC57 couplings

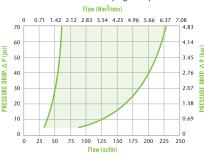
HFC WATER FLOW



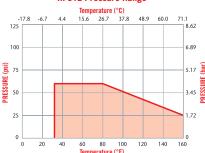
NOTE

Optional o-ring and spring materials are available, please contact CPC for details.

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.



NSF

NSF OPTION AVAILABLE

This product has an NSF compatible product for food applications. Our food-grade couplings are superior to general fittings for fluid control because they incorporate built-in shutoff valves, enabling tubing to be disconnected without having to turn off the water supply. Scan the QR code to be taken to the NSF specific product web page.



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.



 ${f Q}~=~{\sf Flow}$ 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

INSERTS

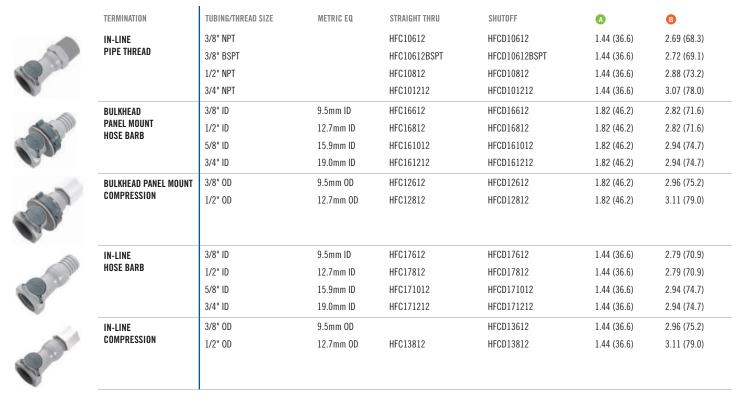
	HFC 22612	HFCD 22612	HFC 22812	HFCD 22812	HFC 23612	HFCD 23612	HFC 23812	HFCD 23812	HFC 24612	HFCD 24612	HFC 24812	HFCD 24812	HFCD 221212	HFC 221212
HFCD10612	1.27	1.27	1.62	1.51	1.14	1.14	1.46	1.36	1.80	1.58	1.70	1.65	-	-
HFCD10812	1.28	1.34	1.62	1.51	1.15	1.24	1.46	1.36	1.81	1.54	1.72	1.56	-	-
HFCD16612	1.07	1.00	1.17	1.14	0.96	0.90	1.05	1.03	1.33	1.26	1.30	1.24	-	-
HFCD16812	1.25	1.23	1.61	1.52	1.13	1.11	1.45	1.37	1.79	1.60	1.68	1.56	-	-
HFCD17612	1.07	1.00	1.17	1.14	0.96	0.90	1.05	1.03	1.33	1.26	1.30	1.24	-	-
HFCD17812	1.25	1.23	1.61	1.52	1.13	1.11	1.45	1.37	1.79	1.60	1.68	1.56	-	-
HFC171212	-	-	-	-	-	-	-	-	-	-	-	-	3.94	-
HFCD171212	-	-	-	-	-	-	-	-	-	-	-	-	-	2.04



C_v VALUES

HFC12 SERIES DIMENSIONS

COUPLING BODIES - Polypropylene

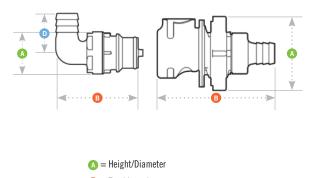


All measurements are in inches (millimeters) unless otherwise noted. Tubing must meet stated inside and outside diameters.

ACCESSORIES

DESCRIPTION	MATERIAL	PART NO.
PANEL MOUNT GASKET REPLACEMENT: FOR Sealing panel mount bodies listed above	EPDM	621200

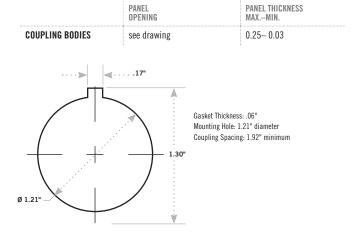
PRODUCT DIMENSIONS



B = Total Length

Elbow Radial Length

PANEL DIMENSIONS



PANEL



COUPLING INSERTS - Polypropylene









TERMINATION	TUBING/THREAD SIZE	METRIC EQ	STRAIGHT THRU	SHUTOFF	A	В	D
IN-LINE	3/8" NPT		HFC24612	HFCD24612	1.16 (29.5)	1.77/1.89 (45.0/48.0)	
PIPE THREAD	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)	
IN-LINE	3/8" ID	9.5mm ID	HFC22612	HFCD22612	1 (25.4)	1.97/2.09 (50.0/53.1)	
HOSE BARB (NON-VALVED SHOWN)	1/2" ID	12.7mm ID	HFC22812	HFCD22812	1 (25.4)	1.97/2.09 (50.0/53.1)	
(NON-VALVED SHOWN)	5/8" ID	15.9mm ID	HFC221012	HFCD221012	1 (25.4)	2.01/2.13 (51.1/54.1)	
	3/4" ID	19.0mm ID	HFC221212	HFCD221212	1 (25.4)	2.14/2.26 (54.4/57.4)	
IN-LINE	3/8" OD	9.5mm OD	HFC20612	HFCD20612	1 (25.4)	2.14/2.26 (54.4/57.4)	
COMPRESSION (NON-VALVED SHOWN)	1/2" OD	12.7mm OD	HFC20812	HFCD20812	1 (25.4)	2.29/2.41 (58.2/61.2)	
ELBOW	3/8" ID	9.5mm ID	HFC23612	HFCD23612	1 (25.4)	1.93/2.05 (49.0/52.1)	0.93 (23.6)
HOSE BARB (NON-VALVED SHOWN)	1/2" ID	12.7mm ID	HFC23812	HFCD23812	1 (25.4)	1.97/2.09 (50.0/53.1)	0.93 (23.6)
(HOH-TALTED SHOWN)	3/4" ID	19.0mm 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 nonvalved. 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.

