HFC12 SERIES CONNECTOR

HFC12 Series couplings hav ow comparable to many 1/2 ow 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 ef cient valve design leads to high flow and low spillage.

FEATURES	BENEFITS
High efficiency valve	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

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, 9.5mm to 19.0mm ID

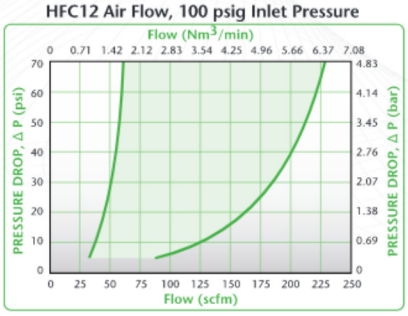
WARNING: *Pressure, temperature, chemicals, and operating environment can affect the performance of couplings. It is the customer's responsibility to test the suitability of CPC's products in their own application conditions.*

For compression termination specifications: 3/8" OD or 1/2" OD, +0.010/-0.000

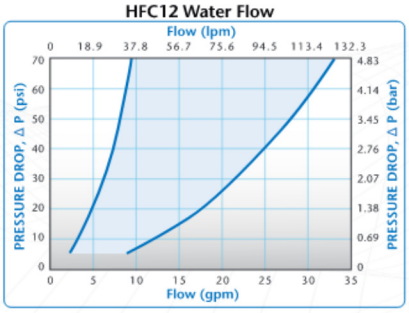
Note: Optional o-ring and spring materials are available, please contact CPC for details.

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.

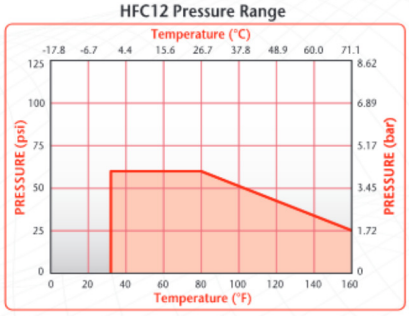
HFC12 Air Flow, 100 psig Inlet Pressure



HFC12 Water Flow



HFC12 Pressure Range



NOTES:

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.

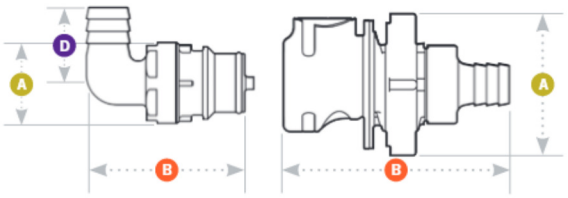
$$Q = C_V \sqrt{\frac{\Delta P}{S}}$$

Q = Flow rate in gallons per minute
C_V = Average coefficient across various flow rates (see chart)
ΔP = Pressure drop across coupling (psi)
S = Specific gravity of liquid

C_V VALUES FOR HFC12 COUPLINGS

BODIES \ 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

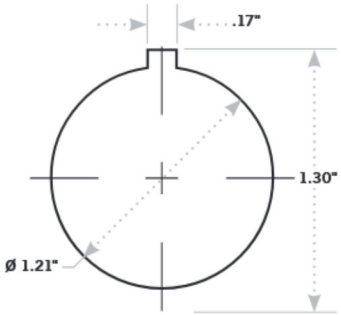
HFC12 DIMENSIONS



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

Panel Dimensions

	PANEL OPENING	PANEL THICKNESS MAX.–MIN.
COUPLING BODIES	see drawing	.25– .03



Gasket Thickness: .06"
Mounting Hole: 1.21" diameter
Coupling Spacing: 1.92" minimum

Coupling Bodies • POLYPROPYLENE

TERMINATION	TUBING/THREAD SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	A	B
IN-LINE PIPE THREAD	3/8" NPT		HFC10612	HFCD10612	1.44	2.69
	3/8" BSPT		HFC10612BSPT	HFCD10612BSPT	1.44	2.72
	1/2" NPT		HFC10812	HFCD10812	1.44	2.88
	3/4" NPT		HFC101212	HFCD101212	1.44	3.07
BULKHEAD PANEL MOUNT HOSE BARB	3/8" ID	9.5mm ID	HFC16612	HFCD16612	1.82	2.82
	1/2" ID	12.7mm ID	HFC16812	HFCD16812	1.82	2.82
	5/8" ID	15.9mm ID	HFC161012	HFCD161012	1.82	2.94
	3/4" ID	19.0mm ID	HFC161212	HFCD161212	1.82	2.94
BULKHEAD PANEL MOUNT COMPRESSION	3/8" OD	9.5mm OD	HFC12612	HFCD12612	1.82	2.96
	1/2" OD	12.7mm OD	HFC12812	HFCD12812	1.82	3.11
IN-LINE HOSE BARB	3/8" ID	9.5mm ID	HFC17612	HFCD17612	1.44	2.79
	1/2" ID	12.7mm ID	HFC17812	HFCD17812	1.44	2.79
	5/8" ID	15.9mm ID	HFC171012	HFCD171012	1.44	2.94
	3/4" ID	19.0mm ID	HFC171212	HFCD171212	1.44	2.94
IN-LINE COMPRESSION	3/8" OD	9.5mm OD	HFC13612	HFCD13612	1.44	2.96
	1/2" OD	12.7mm OD	HFC13812	HFCD13812	1.44	3.11

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

Also available in NSF listed versions, please visit our website for part number information.

NSF

Coupling Inserts • POLYPROPYLENE

TERMINATION	TUBING/THREAD SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	A	B	D
IN-LINE PIPE THREAD	3/8" NPT		HFC24612	HFCD24612	1.16	1.77/1.89	
	3/8" BSPT		HFC24612BSPT	HFCD24612BSPT	1.16	1.80/1.92	
	1/2" NPT		HFC24812	HFCD24812	1.16	1.95/2.07	
	3/4" NPT		HFC241212	HFCD241212	1.23	2.14/2.26	
IN-LINE HOSE BARB *(non-valved shown)*	3/8" ID	9.5mm ID	HFC22612	HFCD22612	1.00	1.97/2.09	
	1/2" ID	12.7mm ID	HFC22812	HFCD22812	1.00	1.97/2.09	
	5/8" ID	15.9mm ID	HFC221012	HFCD221012	1.00	2.01/2.13	
	3/4" ID	19.0mm ID	HFC221212	HFCD221212	1.00	2.14/2.26	
IN-LINE COMPRESSION *(non-valved shown)*	3/8" OD	9.5mm OD	HFC20612	HFCD20612	1.00	2.14/2.26	
	1/2" OD	12.7mm OD	HFC20812	HFCD20812	1.00	2.29/2.41	
ELBOW HOSE BARB *(non-valved shown)*	3/8" ID	9.5mm ID	HFC23612	HFCD23612	1.00	1.93/2.05	.93
	1/2" ID	12.7mm ID	HFC23812	HFCD23812	1.00	1.97/2.09	.93
	3/4" ID	19.0mm ID	HFC231212	HFCD231212	1.00	1.95/2.07	.93

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.