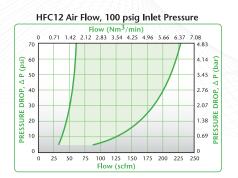
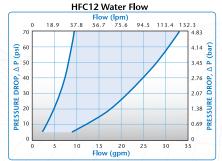
# **HFC12 SERIES CONNECTOR**



**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.

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







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

xternal springs: 510 stan

**0-rings:** EPDM

Panel mount gasket: EPDM

**Compression nut, gripper, ferrule:** Polypropylene

**COLOR:** Gray with dark gray latch

### TUBING SIZES:

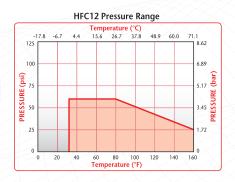
3/8" to 3/4" ID, 9.5mm to 19.0mm ID

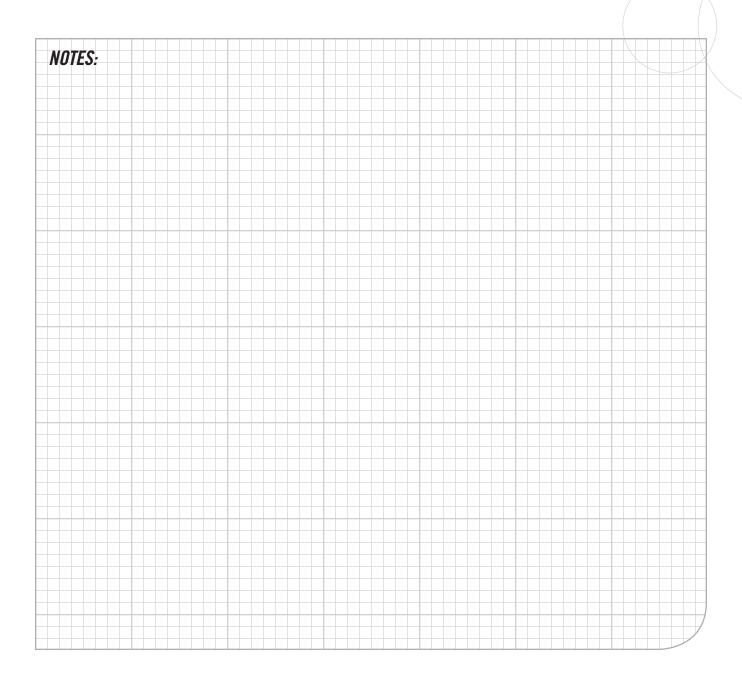
**WARNING:** Pressure, temperature, chemicals, and operating environment can affect the performance of couplings. It is the customer's responsibility to test the suitability of CPC's products in their own application conditions.

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



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.

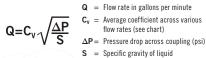




### Liquid Flow Rate Information for Couplings

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.

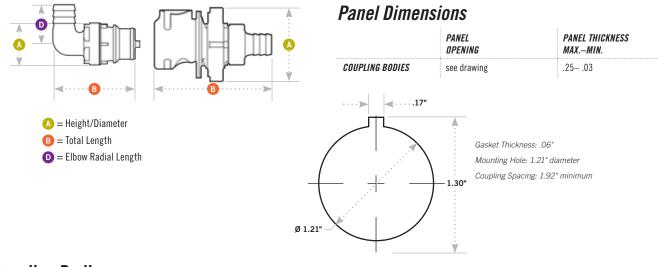
#### C<sub>v</sub> values for hfc12 couplings



- $\mathbf{Q} \hspace{.1in} = \hspace{.1in} \mathsf{Flow} \hspace{.1in} \mathsf{rate} \hspace{.1in} \mathsf{in} \hspace{.1in} \mathsf{gallons} \hspace{.1in} \mathsf{per} \hspace{.1in} \mathsf{minute}$
- $\Delta \mathbf{P}$  = Pressure drop across coupling (psi)
- S = Specific gravity of liquid

	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	-	-		-		X	<u> </u>	- \	-	-	- \	-	3.94	-
HFCD171212	-		-		<u> </u>			<u> </u>	-		-	-	-	2.04

## **HFC12 DIMENSIONS**



### **Coupling Bodies • POLYPROPYLENE**

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

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

#### Accessories

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

**PANEL MOUNT GASKET REPLACEMENT:** For sealing panel mount bodies listed above

MATERIAL P EPDM 6

**PART NO.** 621200

### **Coupling Inserts • POLYPROPYLENE**



TERMINATION IN-LINE PIPE THREAD



IN-LINE **COMPRESSION** (non-valved shown)



<b>TUBING/THREAD SIZE</b> 3/8" NPT 3/8" BSPT 1/2" NPT 3/4" NPT	METRIC EQ.	<i>STRAIGHT THRU</i> HFC24612 HFC24612BSPT HFC24812 HFC241212	SHUTOFF HFCD24612 HFCD24612BSPT HFCD24812 HFCD241212	A 1.16 1.16 1.16 1.23	B 1.77/1.89 1.80/1.92 1.95/2.07 2.14/2.26	0
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	
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	
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.