

# HFC35 & HFC57 SERIES CONNECTOR



**HFC35 Series polysulfone couplings** are able to withstand demanding applications and feature physical strength, chemical resistance and autoclavability.

**HFC57 Series polysulfone couplings** are UV resistant and able to withstand continued exposure to harmful UV rays without affecting performance.

Both can operate in harsh environments in temperatures from -40°F to 280°F (-40°C to 138°C) and pressures from vacuum to 125 psi (8.6 bar). 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 exceptionally low spillage. Both series also add bulkhead panel mount, garden hose thread and Hastelloy® C spring options.

## FEATURES

Polysulfone (HFC35)

UV Polysulfone (HFC57)

High efficiency valve

Ergonomic design

Compatible

## BENEFITS

Physically strong and autoclavable

Physically strong and UV resistant

More flow and less spillage in a compact size

Easy to grip, simple to operate

Mates with HFC12 couplings

## Specifications

### PRESSURE:

Vacuum to 125 psi, 8.6 bar

### TEMPERATURE:

-40°F to 280°F (-40°C to 138°C)

### MATERIALS:

**Main components and valves:**

HFC35 - Polysulfone

HFC57 - UV-resistant polysulfone

### THUMB LATCH:

HFC35 - Polysulfone

HFC57 - UV-resistant polysulfone

**Valve spring:** 316 stainless steel

**External springs:** 316 stainless steel

**O-rings:** EPDM

**Panel mount gasket:** EPDM

**Female GHT gasket:** FDA EPDM

### COLORS:

HCF35 - Natural white, dark gray latch

HCF57 - Black, black latch

### TUBING SIZES:

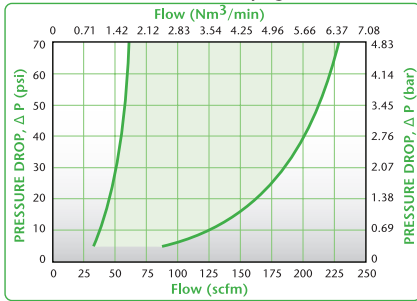
3/8" to 3/4" ID, 9.5mm to 19.0mm ID

**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 products in their own application conditions. Use the graphs on the following page as a guide.

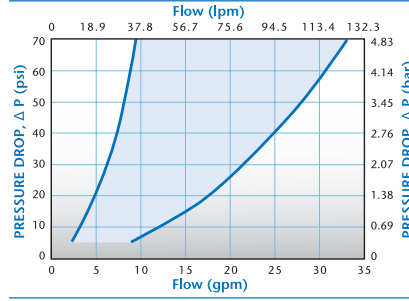
*Also available in NSF listed versions, please visit our website for part number information.*



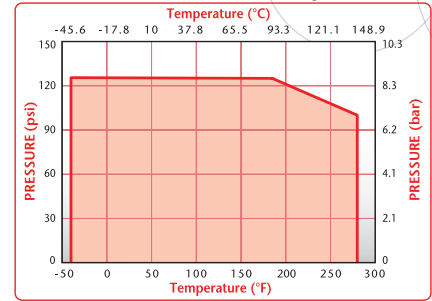
HFC35/57 Air Flow, 100 psig Inlet Pressure



HFC35/57 Water Flow



HFC35/57 Pressure Range



## DID YOU KNOW?

### THE HFC57 SERIES POLYSULFONE COUPLINGS ARE UV-RESISTANT AND ABLE TO WITHSTAND CONTINUED EXPOSURE TO HARMFUL RAYS WITHOUT AFFECTING PERFORMANCE?

These couplings offer all the same features as our HFC12 and HFC35 Series with the added advantage of UV-resistance to protect the strength and durability of your fluid connections. Use the HFC57 couplings in outdoor applications such as watercraft, lawn irrigation systems and solar heating on roofs and decks where a connector is subjected to the harsh rays of the sun.

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.

## NOTES:

# HFC35 DIMENSIONS

## HFC35 Coupling Bodies • POLYSULFONE

TERMINATION	TUBING/THREAD SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	A	B
<b>IN-LINE PIPE THREAD</b>	3/8" NPT		HFC10635	HFCD10635	1.44	2.73
	3/8" BSPT		HFC10635BSPT	HFCD10635BSPT	1.44	2.73
	1/2" NPT		HFC10835	HFCD10835	1.44	2.88
	1/2" BSPT		HFC10835BSPT	HFCD10835BSPT	1.44	2.88
	3/4" NPT		HFC101235	HFCD101235	1.44	3.12
	3/4" BSPT		HFC101235BSPT	HFCD101235BSPT	1.44	3.12
	3/4" GHT		HFC101235GHT	HFCD101235GHT	1.44	2.94
<b>IN-LINE PIPE THREAD (FEMALE)</b>	3/4" GHT		HFC191235GHT	HFCD191235GHT	1.44	2.70
	3/4" BSPP		HFC191235BSPP	HFCD191235BSPP	1.44	2.70
<b>BULKHEAD PANEL MOUNT HOSE BARB</b>	3/8" ID	9.5mm ID	HFC16635	HFCD16635	1.44	2.82
	1/2" ID	12.7mm ID	HFC16835	HFCD16835	1.44	2.82
	5/8" ID	15.9mm ID	HFC161035	HFCD161035	1.44	2.94
	3/4" ID	19.0mm ID	HFC161235	HFCD161235	1.44	2.94
<b>IN-LINE HOSE BARB</b>	3/8" ID	9.5mm ID	HFC17635	HFCD17635	1.44	2.82
	1/2" ID	12.7mm ID	HFC17835	HFCD17835	1.44	2.82
	5/8" ID	15.9mm ID	HFC171035	HFCD171035	1.44	2.94
	3/4" ID	19.0mm ID	HFC171235	HFCD171235	1.44	2.94

## HFC35 Coupling Inserts • POLYSULFONE

TERMINATION	TUBING/THREAD SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	A	B	D
<b>IN-LINE PIPE THREAD</b> (non-valved shown)	3/8" NPT		HFC24635	HFCD24635	1.16	1.82/1.94	
	3/8" BSPT		HFC24635BSPT	HFCD24635BSPT	1.16	1.97/2.09	
	1/2" NPT		HFC24835	HFCD24835	1.16	1.97/2.09	
	1/2" BSPT		HFC24835BSPT	HFCD24835BSPT	1.16	1.17/2.09	
	3/4" NPT		HFC241235	HFCD241235	1.23	2.22/2.34	
	3/4" BSPT		HFC241235BSPT	HFCD241235BSPT	1.23	2.21/2.33	
	3/4" GHT		HFC241235GHT	HFCD241235GHT	1.23	2.03/2.15	
<b>IN-LINE PIPE THREAD (FEMALE)</b> (non-valved shown)	3/4" GHT		HFC261235GHT	HFCD261235GHT	1.37	1.79/1.91	
	3/4" BSPP		HFC261235BSPP	HFCD261235BSPP	1.37	1.79/1.91	
<b>IN-LINE HOSE BARB</b> (non-valved shown)	3/8" ID	9.5mm ID	HFC22635	HFCD22635	1.00	1.91/2.03	
	1/2" ID	12.7mm ID	HFC22835	HFCD22835	1.00	1.91/2.03	
	5/8" ID	15.9mm ID	HFC221035	HFCD221035	1.00	2.03/2.15	
	3/4" ID	19.0mm ID	HFC221235	HFCD221235	1.00	2.03/2.15	
<b>ELBOW HOSE BARB</b> (non-valved shown)	3/8" ID	9.5mm ID	HFC23635	HFCD23635	1.00	1.92/2.04	.93
	1/2" ID	12.7mm ID	HFC23835	HFCD23835	1.00	1.96/2.08	.93

### ⚡ HFC35 & HFC57 Accessories ⚡

#### DESCRIPTION

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

#### MATERIAL

EPDM

#### PART NO.

621200

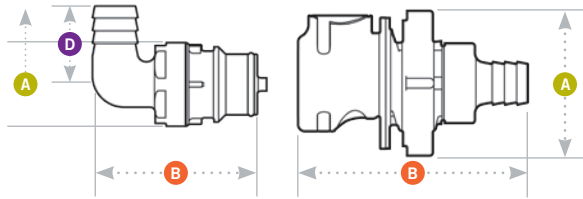
**GHT GASKET REPLACEMENT:** For sealing female threads

FDA EPDM

2339400

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

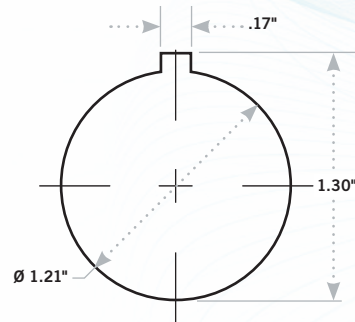
# HFC57 DIMENSIONS



- 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

## HFC57 Coupling Bodies • UV POLYSULFONE

TERMINATION	TUBING/THREAD SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	A	B
<b>IN-LINE PIPE THREAD</b>	3/8" BSPT		HFC10657BSPT	HFCD10657BSPT	1.44	2.73
	1/2" NPT		HFC10857	HFCD10857	1.44	2.88
	1/2" BSPT		HFC10857BSPT	HFCD10857BSPT	1.44	2.88
	3/4" BSPT		HFC101257BSPT	HFCD101257BSPT	1.44	3.12
	3/4" GHT		HFC101257GHT	HFCD101257GHT	1.44	2.94
<b>IN-LINE PIPE THREAD (FEMALE)</b>	3/4" GHT		HFC191257GHT	HFCD191257GHT	1.44	2.70
	3/4" BSPP		HFC191257BSPP	HFCD191257BSPP	1.44	2.70
<b>BULKHEAD PANEL MOUNT HOSE BARB</b>	3/8" ID	9.5mm ID		HFCD16657	1.82	2.82
	1/2" ID	12.7mm ID		HFCD16857	1.82	2.82
	5/8" ID	15.9mm ID		HFCD161057	1.82	2.94
	3/4" ID	19.0mm ID		HFCD161257	1.82	2.94
<b>IN-LINE HOSE BARB</b>	3/8" ID	9.5mm ID	HFC17657	HFCD17657	1.44	2.82
	1/2" ID	12.7mm ID	HFC17857	HFCD17857	1.44	2.82
	5/8" ID	15.9mm ID	HFC171057	HFCD171057	1.44	2.94
	3/4" ID	19.0mm ID	HFC171257	HFCD171257	1.44	2.94

## HFC57 Coupling Inserts • UV POLYSULFONE

TERMINATION	TUBING/THREAD SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	A	B
<b>IN-LINE PIPE THREAD (non-valved shown)</b>	3/8" BSPT		HFC24657BSPT	HFCD24657BSPT	1.16	1.84/1.96
	1/2" BSPT		HFC24857BSPT	HFCD24857BSPT	1.16	1.99/2.07
	1/2" NPT		HFC24857	HFCD24857	1.16	1.95/2.11
	3/4" BSPT		HFC241257BSPT	HFCD241257BSPT	1.23	2.19/2.31
	3/4" GHT		HFC241257GHT	HFCD241257GHT	1.16	2.15/2.27
<b>IN-LINE PIPE THREAD (FEMALE) (non-valved shown)</b>	3/4" GHT		HFC261257GHT	HFCD261257GHT	1.37	1.79/1.91
	3/4" BSPP		HFC261257BSPP	HFCD261257BSPP	1.37	1.79/1.91
<b>IN-LINE HOSE BARB (non-valved shown)</b>	3/8" ID	9.5mm ID	HFC22657	HFCD22657	1.00	1.91/2.03
	1/2" ID	12.7mm ID	HFC22857	HFCD22857	1.00	1.91/2.03
	5/8" ID	15.9mm ID	HFC221057	HFCD221057	1.00	2.03/2.15
	3/4" ID	19.0mm ID	HFC221257	HFCD221257	1.00	2.03/2.15

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.





Distributed by:



**Infiltec GmbH**  
Alte Rheinhäuser Str. 6-8  
67346 Speyer am Rhein

Tel: +49 6232 100332 0  
Fax: +49 6232 100332 42  
info@infiltec.de  
infiltec.de

**COLDER PRODUCTS COMPANY**  
2820 CLEVELAND AVE. N.  
ROSEVILLE, MN 55113  
U.S.A.

**PHONE:** +1 651-645-0091  
**FAX:** +1 651-645-5404

info@cpeworldwide.com  
cpeworldwide.com

**COLDER PRODUCTS COMPANY GMBH**  
KURHESSENSTR. 15  
64546 MÖRFELDEN-WALLDORF  
GERMANY

**PHONE:** +49-6026-9973-0

cpcgmbh@cpeworldwide.com  
cpcworldwide.com

**COLDER PRODUCTS COMPANY LIMITED**  
LEVEL 19,  
TWO INTERNATIONAL FINANCE CENTRE  
8 FINANCE STREET, CENTRAL, HONG KONG

**PHONE:** +852 2987-5272  
**FAX:** +852-2987-2509

asiapacific@cpeworldwide.com  
cpcworldwide.com



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