

HFC35 & 57 SERIES CONNECTORS

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 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.



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

FEATURES

| | | |
|------------------------|---|---|
| Polysulfone (HFC35) | → | Physically strong and autoclavable |
| UV Polysulfone (HFC57) | → | Physically strong and UV resistant |
| High efficiency valve | → | More flow and less spillage in a compact size |
| Ergonomic design | → | Easy to grip, simple to operate |
| Compatible | → | Mates with HFC12 couplings |

BENEFITS

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.



cpcworldwide.com/HFC35-57



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



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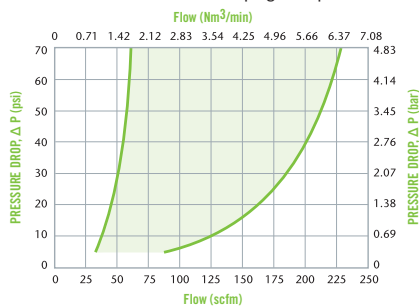
NSF

NSF OPTION AVAILABLE

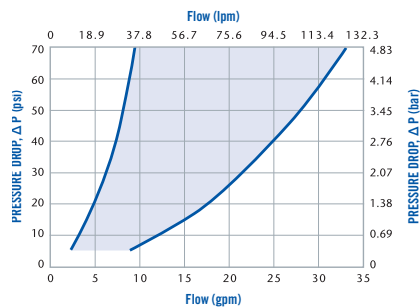
This product has an NSF compatible product for food applications. Our food-grade couplings are superior to general fittings for fluid control because they incorporate built-in shutoff valves, enabling tubing to be disconnected without having to turn off the water supply. Scan the QR code to be taken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



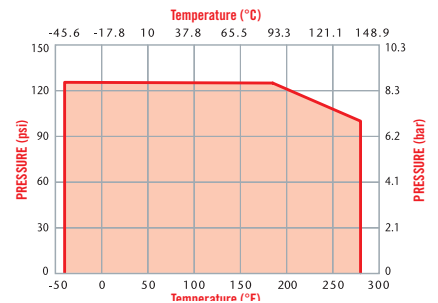
HFC35/57 AIR FLOW • 100 psig inlet pressure



HFC 35/57 WATER FLOW







HFC35/37 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.

HFC35 SERIES DIMENSIONS

COUPLING BODIES - Polysulfone

|  | TERMINATION | TUBING/THREAD SIZE | METRIC EQ | STRAIGHT THRU | SHUTOFF | A | B |
|---|--------------------------------|--------------------|-----------|---------------|----------------|-------------|-------------|
| | IN-LINE PIPE THREAD | 3/8" NPT | | HFC10635 | HFCD10635 | 1.44 (36.6) | 2.73 (69.3) |
|  | IN-LINE PIPE THREAD (FEMALE) | 3/8" BSPT | | HFC10635BSPT | HFCD10635BSPT | 1.44 (36.6) | 2.73 (69.3) |
| | | 1/2" NPT | | HFC10835 | HFCD10835 | 1.44 (36.6) | 2.88 (73.2) |
| | | 1/2" BSPT | | HFC10835BSPT | HFCD10835BSPT | 1.44 (36.6) | 2.88 (73.2) |
| | | 3/4" NPT | | HFC101235 | HFCD101235 | 1.44 (36.6) | 3.12 (79.2) |
| | | 3/4" BSPT | | HFC101235BSPT | HFCD101235BSPT | 1.44 (36.6) | 3.12 (79.2) |
|  | BULKHEAD PANEL MOUNT HOSE BARB | 3/4" GHT | | HFC101235GHT | HFCD101235GHT | 1.44 (36.6) | 2.94 (74.7) |
| | | 3/4" BSPP | | HFC191235BSPP | HFCD191235BSPP | 1.44 (36.6) | 2.70 (68.6) |
| | | 3/8" ID | 9.5mm ID | HFC16635 | HFCD16635 | 1.44 (36.6) | 2.82 (71.6) |
| | | 1/2" ID | 12.7mm ID | HFC16835 | HFCD16835 | 1.44 (36.6) | 2.82 (71.6) |
|  | IN-LINE HOSE BARB | 5/8" ID | 15.9mm ID | HFC161035 | HFCD161035 | 1.44 (36.6) | 2.94 (74.7) |
| | | 3/4" ID | 19.0mm ID | | HFCD161235 | 1.44 (36.6) | 2.94 (74.7) |
| | | 3/8" ID | 9.5mm ID | HFC17635 | HFCD17635 | 1.44 (36.6) | 2.82 (71.6) |
| | | 1/2" ID | 12.7mm ID | HFC17835 | HFCD17835 | 1.44 (36.6) | 2.82 (71.6) |
| | | 5/8" ID | 15.9mm ID | HFC171035 | HFCD171035 | 1.44 (36.6) | 2.94 (74.7) |
| | | 3/4" ID | 19.0mm ID | HFC171235 | HFCD171235 | 1.44 (36.6) | 2.94 (74.7) |

COUPLING INSERTS - Polysulfone

|  | TERMINATION | TUBING/THREAD SIZE | METRIC EQ | STRAIGHT THRU | SHUTOFF | A | B | D |
|---|---|--------------------|-----------|---------------|----------------|-------------|-----------------------|-------------|
| | IN-LINE PIPE THREAD (NON-VALVED SHOWN) | 3/8" NPT | | HFC24635 | HFCD24635 | 1.16 (29.5) | 1.82/1.94 (46.2/49.3) | |
|  | IN-LINE PIPE THREAD (FEMALE) (NON-VALVED SHOWN) | 3/8" BSPT | | HFC24635BSPT | HFCD24635BSPT | 1.16 (29.5) | 1.97/2.09 (50.0/53.1) | |
| | | 1/2" NPT | | HFC24835 | HFCD24835 | 1.16 (29.5) | 1.97/2.09 (50.0/53.1) | |
| | | 1/2" BSPT | | HFC24835BSPT | HFCD24835BSPT | 1.16 (29.5) | 1.17/2.09 (29.7/53.1) | |
| | | 3/4" NPT | | HFC241235 | HFCD241235 | 1.23 (31.2) | 2.22/2.34 (56.4/59.4) | |
| | | 3/4" BSPT | | HFC241235GHT | HFCD241235BSPT | 1.23 (31.2) | 2.21/2.33 (56.1/59.2) | |
| | | 3/4" GHT | | HFC241235GHT | HFCD241235GHT | 1.23 (31.2) | 2.03/2.15 (51.6/54.6) | |
|  | IN-LINE HOSE BARB (NON-VALVED SHOWN) | 3/4" GHT | | HFC261235GHT | HFCD261235GHT | 1.37 (34.8) | 1.79/1.91 (45.5/48.5) | |
| | | 3/4" BSPP | | HFC261235BSPP | HFCD261235BSPP | 1.37 (34.8) | 1.79/1.91 (45.5/48.5) | |
| | | 3/8" ID | 9.5mm ID | HFC22635 | HFCD22635 | 1 (25.4) | 1.91/2.03 (48.5/51.6) | |
| | | 1/2" ID | 12.7mm ID | HFC22835 | HFCD22835 | 1 (25.4) | 1.91/2.03 (48.5/51.6) | |
|  | ELBOW HOSE BARB (NON-VALVED SHOWN) | 5/8" ID | 15.9mm ID | HFC221035 | HFCD221035 | 1 (25.4) | 2.03/2.15 (51.6/54.6) | |
| | | 3/4" ID | 19.0mm ID | HFC221235 | HFCD221235 | 1 (25.4) | 2.03/2.15 (51.6/54.6) | |
| | | 3/8" ID | 9.5mm ID | HFC23635 | HFCD23635 | 1 (25.4) | 1.92/2.04 (48.8/51.8) | 0.93 (23.6) |
| | | 1/2" ID | 12.7mm ID | HFC23835 | HFCD23835 | 1 (25.4) | 1.96/2.08 (49.8/52.8) | 0.93 (23.6) |





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

HFC35 & HFC57 ACCESSORIES




| DESCRIPTION | MATERIAL | PART NO. |
|---|----------|----------|
| PANEL MOUNT GASKET REPLACEMENT: FOR SEALING PANEL MOUNT BODIES LISTED ABOVE | EPDM | 621200 |
| GHT GASKET REPLACEMENT: FOR SEALING FEMALE THREADS | FDA EPDM | 2339400 |

HFC57 SERIES DIMENSIONS

COUPLING BODIES - UV Polysulfone

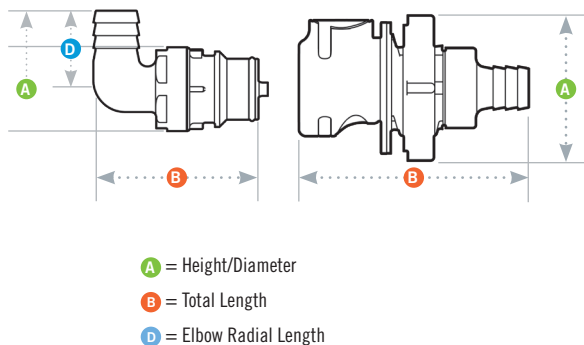
| TERMINATION | TUBING/THREAD SIZE | METRIC EQ | STRAIGHT THRU | SHUTOFF | A | B |
|---|---------------------------------------|-----------|---------------|---------------|-------------|-------------|
|  | IN-LINE PIPE THREAD | 3/8" BSPT | HFC10857 | HFCD10657BSPT | 1.44 (36.6) | 2.73 (69.3) |
| | | 1/2" NPT | | HFCD10857 | 1.44 (36.6) | 2.88 (73.2) |
| | | 1/2" BSPT | | HFCD10857BSPT | 1.44 (36.6) | 2.88 (73.2) |
| | | 3/4" BSPT | | HFCD101257GHT | 1.44 (36.6) | 3.12 (79.2) |
| | | 3/4" GHT | | HFCD101257GHT | 1.44 (36.6) | 2.94 (74.7) |
|  | IN-LINE PIPE THREAD (FEMALE) | 3/4" GHT | HFC191257GHT | HFCD191257GHT | 1.44 (36.6) | 2.70 (68.6) |
|  | BULKHEAD PANEL MOUNT HOSE BARB | 3/8" ID | | HFCD16657 | 1.82 (46.2) | 2.82 (71.6) |
| | | 1/2" ID | | HFCD16857 | 1.82 (46.2) | 2.82 (71.6) |
| | | 5/8" ID | | HFCD161057 | 1.82 (46.2) | 2.94 (74.7) |
| | | 3/4" ID | | HFCD161257 | 1.82 (46.2) | 2.94 (74.7) |
|  | IN-LINE HOSE BARB | 3/8" ID | HFC17657 | HFCD17657 | 1.44 (36.6) | 2.82 (71.6) |
| | | 1/2" ID | HFC17857 | HFCD17857 | 1.44 (36.6) | 2.82 (71.6) |
| | | 5/8" ID | | HFCD171057 | 1.44 (36.6) | 2.94 (74.7) |
| | | 3/4" ID | HFC171257 | HFCD171257 | 1.44 (36.6) | 2.94 (74.7) |

COUPLING INSERTS - UV Polysulfone

| TERMINATION | TUBING/THREAD SIZE | METRIC EQ | STRAIGHT THRU | SHUTOFF | A | B |
|---|--|-----------|---------------|----------------|-------------|-----------------------|
|  | IN-LINE PIPE THREAD | 3/8" BSPT | HFC24657BSPT | HFCD24657BSPT | 1.16 (29.5) | 1.84/1.96 (46.7/49.8) |
| | | 1/2" BSPT | HFC24857BSPT | HFCD24857BSPT | 1.16 (29.5) | 1.99/2.07 (50.6/52.6) |
| | | 1/2" NPT | HFC24857 | HFCD24857 | 1.16 (29.5) | 1.95/2.11 (49.5/53.6) |
| | | 3/4" BSPT | | HFCD241257BSPT | 1.23 (31.2) | 2.19/2.31 (55.6/58.7) |
| | | 3/4" GHT | HFC241257GHT | HFCD241257GHT | 1.16 (29.5) | 2.15/2.27 (54.6/57.7) |
|  | IN-LINE PIPE THREAD (FEMALE) (NON-VALVED SHOWN) | 3/4" GHT | HFC261257GHT | HFCD261257GHT | 1.37 (34.8) | 1.79/1.91 (45.5/48.5) |
|  | IN-LINE HOSE BARB (NON-VALVED SHOWN) | 3/8" ID | HFC22657 | HFCD22657 | 1 (25.4) | 1.91/2.03 (48.5/51.6) |
| | | 1/2" ID | HFC22857 | HFCD22857 | 1 (25.4) | 1.91/2.03 (48.5/51.6) |
| | | 5/8" ID | | HFCD221057 | 1 (25.4) | 2.03/2.15 (51.6/54.6) |
| | | 3/4" ID | HFC221257 | HFCD221257 | 1 (25.4) | 2.03/2.15 (51.6/54.6) |

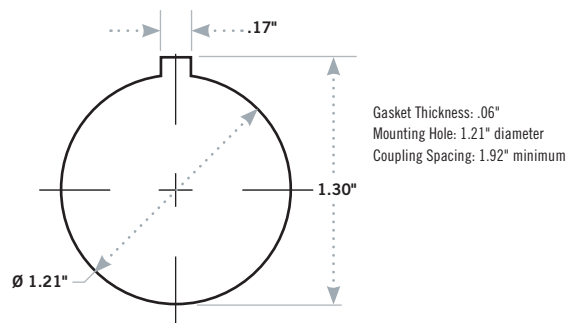
All measurements are in inches (millimeters) unless otherwise noted. Tubing must meet stated inside and outside diameters. Couplings are pictured with valves unless otherwise noted.

PRODUCT DIMENSIONS



PANEL DIMENSIONS

| | PANEL OPENING | PANEL THICKNESS MAX.-MIN. |
|------------------------|---------------|---------------------------|
| COUPLING BODIES | see drawing | 0.25–0.03 |



WARRANTY: All sales are subject to Colder Products Company's 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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