

HCI Flexible Hose Connectors

MECHANICAL SPECIFICATIONS



These hoses have been specially designed for operating conditions in heating and air conditioning, the elastomer is not sensitive to Glycol or water treatment products.

Each hose is made up of several quality components and the special crimping on the ferrule under strict quality control gives this hose security against any leakage.

The special EPDM core meets a fully defined specification: Shore hardness, resistance to ageing, mechanical resistance (elasticity, tensile fracture, stretching), ability to accept chemical agents in contact with the elastomer and non-toxic. ASTM Fire rated hoses meet 25/50 flammability and smoke development classification requirements of codes and specifications when tested by ASTM E 84 method.

HOSES ARE DESIGNED FOR HYDRONIC HEATING/COOLING NOT FOR GAS.

Temperature Ratings:

All Sizes: 5 Deg. F to 230 Deg. F
Less than 41 Deg. F with use of Glycol additive.

Max. Operating & Burst Pressure Rating:

1/2" 375 PSI OP/ 1500 PSI BP	1-1/4" 200 PSI OP / 800 PSI BP
3/4" 300 PSI OP / 1200 PSI BP	1-1/2" 175 PSI OP / 600 PSI BP
1" 225 PSI OP / 900 PSI BP	2" 150 PSI OP / 500 PSI BP

Dimensional Information & Material Specifications:

1/2" - 1" MNPT x Female swivel NPSM Male Cone x Hose Adaptor (Gasket Less Connection)
1-1/4" - 2" MNPT X Female swivel Male x BA-U Gasket & Hose Adaptor
***Adaptor connections : Male NPT, Female NPT & Copper Swt.**

Model # Size	HCA	HCB	HCC	HCD	HCE	HCF
12" LENGTH	1/2"	3/4"	1"	NA	NA	NA
18" LENGTH	1/2"	3/4"	1"	1-1/4"	1-1/2"	NA
24" LENGTH	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
36" LENGTH	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"

External Braiding:	Stainless Steel AISI 304
Crimping Ferrules:	Stainless Steel AISI 304
Connectors:	Machined Brass / Nickel Plated Brass
Fiber Gasket:	BA-U Fiber Washer
Core:	Formulated EPDM

CV*	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
12" LENGTH	3.3	11.0	20.9	NA	NA	NA
18" LENGTH	3.2	10.7	20.3	37.9	64.4	NA
24" LENGTH	3.1	9.9	19.5	36.9	61.0	110.7
36" LENGTH	3.0	9.3	18.2	34.7	55.0	100.8

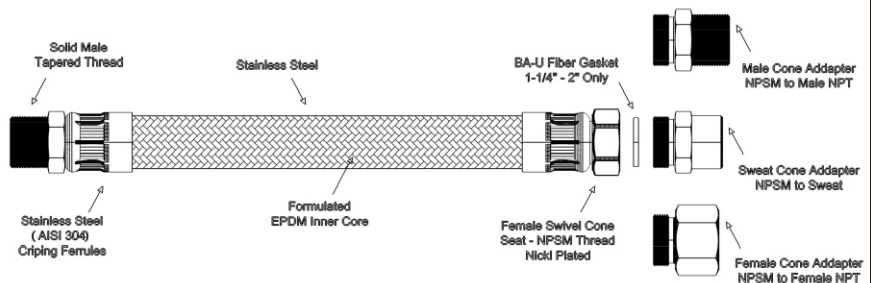
Note the CV factor is the flow rate, in GPM through the hose at 1 PSID

Specs for application and installation:

- ON INSTALLATION : Avoid absolutely any tension due to stretching, twisting or torsion during the course of tightening the connectors.
 - Install and tighten the fixed male connector (if applicable)
 - Install and tighten the union adaptor (if applicable)
 - Install and tighten the swivel nut
 Use two spanners in order to screw in the union: One to hold the hexagon of the adaptor. The other to tighten the nut at the same time.

IMPORTANT - Do not re-screw the fixed connector or adaptor after tightening of the swivel nut; this will cause tensioning of the flexible with a risk of rapid deterioration at this point. On removal, take the same precautions. If the flexible incorporates two fixed connectors, at least one must be installed on a counter-part fitted with a screw connector.

***BEFORE INSTALLING REFER TO THE INSTALLATION & OPERATION INSTRUCTIONS FOR COMPLETE DETAILS. WARNING: FAILURE TO FOLLOW THE INSTALLATION & OPERATION INSTRUCTIONS COULD RESULT IN IMPROPER INSTALLATION.**



Gasket Less Swivel Connection 1/2" - 1"
BA-U Fiber Gasket 1-1/4" - 2"

Typical Specifications:

Furnish and install where indicated on plans **Flexible Connectors** as provided by **Hydronic Components, Inc.** Hoses shall be temperature rated: 5 Deg. To 230 Deg. F. Pressured rated from 375 PSI to 150 PSI based on hose diameter. Constructed specifically for operating conditions in heating and air conditioning with solid brass connectors, stainless steel ferrules, AISI 304 stainless steel braid, and formulated EPDM inner core design to not be sensitive to Glycol or water treatment products. Hoses shall meet 25/50 flammability and smoke development classification requirements of codes and specifications when tested by ASTM E 84 method.

JOB: _____ ENGINEER: _____
REP: _____ CONTRACTOR: _____

HCI innovative hydronic components and accessories for the HVAC industry.
7243 Miller Drive - Suite 200 - Warren, MI 48092 Phone: 1-800-313-HVAC Fax: 1-866-340-0991

HCI-20/1-11

This specification is provided for reference only. HCI reserves the right to change any portion of this specification without notice and without incurring obligation to make such changes to HCI products previously and subsequently sold.