

# ***Flex Hose USA***

## **All Metal Hose Products**



### **Hose Option Examples**



**Spring Guards**



**Protective Jackets**



**Insulating Jackets**

### **End Connection Examples**



**Female VCR® or Female VCO®**



**Compression Fitting 2 Ferrule Design**



**Male Pipe Thread**

- Nominal Hose sizes range from 1/4" up to 12"
- Your choice of virtually any end connection
- Hose ends can match or be different
- Your choice of hose length
- Hoses do not allow for gas permeation

*[info@flexhoseusa.com](mailto:info@flexhoseusa.com)*

# ***Benefits in using an all metal Flexible Hose***

**PERMEATION CONCERNS.** Non-metal hose is susceptible to gas permeation through the hose wall and into the atmosphere. Metal hose, on the other hand, does not allow permeation. If containing the gases inside the hose is important, metal hose may be required.

**TEMPERATURE EXTREMES.** If either the temperature of the media going through the hose or the surrounding atmospheric temperature is very cold or hot, metal may be the only material that can withstand such temperature extremes.

**CHEMICAL COMPATIBILITY.** Metal hose can handle a wider variety of chemicals than most other hose types. If the hose will be exposed to aggressive chemicals (either internally or externally), metal hose should be considered.

**FIRE SAFETY.** Other hose types will melt when exposed to fire, while metal hose maintains its integrity up to 1300° F.

**ACHIEVING FULL VACUUM.** Under full vacuum, metal hose maintains its shape while other hose types may collapse.

**POTENTIAL FOR CATASTROPHIC FAILURE.** When a metal hose fails, it usually develops small holes or cracks. Other hose types tend to develop larger cracks or come apart completely. If a sudden hose failure is potentially catastrophic, a metal hose may help minimize the effects of a failure by leaking product at a slower rate.

**ABRASION AND OVERBENDING CONCERNS.** To prevent abrasion and overbending, a metal hose can be used as a protective cover over wires or even other hoses.

**FLEXIBILITY IN CHOOSING HOSE END CONNECTIONS.** Virtually any type of fitting can be attached to metal hose, while other hose types require special shanks and collars.

# ***Steps In Getting Price And Delivery On Your Hose***

- 1. Choose what TYPE of END CONNECTIONS you want on each end of your hose. End connections can be the same or different. Choose from the end connections below, or advise of other end connections you would need.**
- 2. Choose what SIZE OF END CONNECTIONS you will need on each side of the hose.**
- 3. Provide us with I.D. of hose you are requiring, hoses are typically sized by Inside Diameter(I.D.)**
- 4. Choose the OVERALL LENGTH OF HOSE you would like, from end to end/overall length.**
- 5. Advise us of the number of overbraids you would like, 1, 2 or "unbraided".**
- 6. Let us know your working pressure requirements, your temperature requirements and your system media.**
- 7. Advise of us any Bend Radius requirements you may have.**
- 8. Send us a drawing if available.**

**Email us the information above so we can provide your price and delivery information**

***[info@flexhoseusa.com](mailto:info@flexhoseusa.com)***

# Choose From The Fitting Options Below

Other fitting options are available upon your request

## **Female VCR®**



**Alloys** – 316 Stainless Steel  
**Sizes**–1/8" thru 1"

## **Male VCR®**



**Alloys** – 316 Stainless Steel  
**Sizes**–1/8" thru 1"

## **Female VCO®**



**Alloys** – 316 Stainless Steel  
**Sizes**–1/8" thru 1"

## **DK-lok® Compression Nut with Ferrules**



**Alloys** – 316 Stainless Steel, Carbon Steel, Brass, HC-276

**Sizes** – 1/8" thru 2"

## **AN Male Flare 37°**



**Alloys** – 316 Stainless Steel, Carbon Steel, HC-276

**Sizes** – 1/8" thru 2"

## **Tube End**



**Alloys** – 304 Stainless Steel and 316 Stainless Steel, Carbon Steel

**Sizes** – 1/8" thru 8" (seamless and welded)

**Wall Thickness** – various

## Male Pipe



**Alloys** – 304 Stainless Steel and 316 Stainless Steel, Carbon Steel, HC-276

**Sizes** – 1/8" thru 8"

**Schedules** – 40 and 80

## Hex Male Pipe



**Alloys** – 304 Stainless Steel and 316 Stainless Steel, Carbon Steel, Brass

**Sizes** – 1/4" thru 4"

## Hex Female Pipe



**Alloys** – 304 Stainless Steel and 316 Stainless Steel, Carbon Steel, Malleable Iron, Brass

**Sizes** – 1/4" thru 4"

**Class** – 125#, 150# (3000# Carbon Steel Only)

## Female Half Coupling (Threaded/Socket Weld)



**Alloys** – 304 Stainless Steel and 316 Stainless Steel, Carbon Steel

**Sizes** – 1/4" thru 4"

**Class** – 150# (3000#)

## Beveled Pipe End



**Alloys** – 304 Stainless Steel and 316 Stainless Steel, Carbon Steel, HC-276

**Sizes** – 1/8" thru 8"

**Schedules** – Various

## Grooved-End Fitting



**Alloys** – 304 Stainless Steel and 316 Stainless Steel, Carbon Steel

**Sizes** – 1" thru 8"

**Schedule** – 40

## Swivel Fitting



**Alloys** – 304 Stainless Steel

**Sizes** – 1/4" thru 2"

## 1, 2, or 3 Piece Female SAE (JIC)



**Alloys** – 316 Stainless Steel, Carbon Steel, Brass (nut only)

**Sizes** – 1/4" thru 2"

## 45° and 90° SAE (JIC)



**Alloys** – 316 Stainless Steel, Carbon Steel

**Sizes** – 1/2" thru 2"

## Sanitary Flange



**Alloys** – 304 Stainless Steel and 316 Stainless Steel,

**Sizes** – 1" thru 3"



## Slip-on Flange



**Alloys** – 304 Stainless Steel and 316 Stainless Steel, Carbon Steel

**Sizes** – 1/2" thru 12"

**Class** – 150#, 300#

## Plate Flange



**Alloys** – 304 Stainless Steel and 316 Stainless Steel, Carbon Steel

**Sizes** – 1/2" thru 12"

**Class** – 150#

## Weld Neck Flange



**Alloys** – 304 Stainless Steel and 316 Stainless Steel, Carbon Steel

**Sizes** – 1/2" thru 6"

**Class** – 150#, 300#

## TTMA Flange



**Alloys** – 316 Stainless Steel, Carbon Steel

**Sizes** – 2" thru 6"

## C Stub with Floating Flange



**Alloys** – 304 Stainless Steel and 316 Stainless Steel,

**Sizes** – 1/2" thru 10"

**Schedule** – 10

## A Stub with Lap Joint Flange



**Alloys** – 304 Stainless Steel and 316 Stainless Steel, Carbon Steel, 276

**Sizes** – 1/2" thru 8"

**Schedules** – 10, 40

## **TTMC C Stub Swivel**



**Alloys** – 304 Stainless Steel and 316 Stainless Steel,

**Sizes** – 4" thru 6"

**Schedule** – 10

## **Part A and Part D (Cam-Lock)**



**Alloys** – T316 Stainless Steel, Brass, Aluminum

**Sizes** – 1/2" thru 8"

## **Short and Long Radius Elbows (45° and 90°)**



**Alloys** – 304 Stainless Steel and 316 Stainless Steel, Carbon Steel, HC-276

**Sizes** – 1/4" thru 6"

## Reducer



**Alloys** – 304 Stainless Steel and 316 Stainless Steel, Carbon Steel

**Sizes** – 3/4" thru 6"

**Schedule** – 10 (40 Carbon Steel)

## Beveled Pipe End



**Alloys** – 304 Stainless Steel and 316 Stainless Steel, Carbon Steel, HC-276

**Sizes** – 1/8" thru 8"

**Schedules** – Various

## Ground Joint Female



**Alloys** – Carbon Steel

**Sizes** – 1/2" thru 4"

### **Specialty Gas Nuts**



**Alloys** – Brass

**Sizes** – A, B, C, D

**Thread Type** – SAE and BSP

**In order to receive your hose quote send us a drawing if available and provide:**

**1st End Connection required**

**2nd End Connection required**

**Inside Diameter of Hose required**

**End to End length of Hose required( length including installed fittings)**

**Number of Stainless Steel Overbraids required--1 or 2 or unbraided**

**Operating Pressures and Temperatures on your application**

**Bend Radius Required**

**Flex Hose USA**

**4355 Technology Drive, Unit G**

**Livermore, CA. 94551**

**(O)925-443-8500 [info@flexhoseusa.com](mailto:info@flexhoseusa.com)**