Stainless Steel Core Pigtails

A high-pressure all-stainless steel pigtail for high-purity, zero effusion applications.

Gentec's Flex Hose HP stainless steel core pigtails are the ultimate product for demanding, high end specialty gas applications.
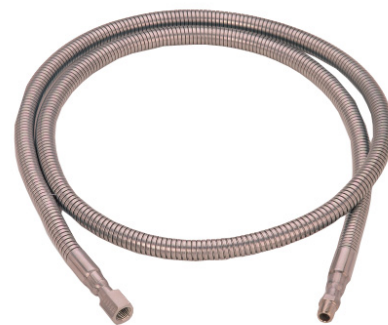
Flex Hose HP pigtails are constructed with an annular close-corrugation 316 stainless steel core, ensuring high-purity, zero effusion, and excellent flexibility. Two stainless steel braids provide extremely high working pressure - 3850 PSI MAWP with 4:1 safety factor. Welded end connections are constructed using 316 stainless steel. Optional stainless steel armor is flexible, provides braid protection, reduces incidents of crushed hoses, and helps reduce kinking under moderate loading.

Each Flex Hose HP assembly is permanently marked with manufacturer, pressure rating, and date of manufacture. These pigtails are ideal for small molecule gases such as helium and hydrogen that may effuse through the walls of other types of pigtails. Consider Ultraflex HP for permanent on-site installations in connection to distribution and switch-over manifolds*. Each pigtail assembly is pressure tested at 125% of the rated working pressure using nitrogen under water. Optional testing can include mass spectrometer helium leak tests using customer specifications.

End fitting options are male NPT, female NPT, compression tube or VCR (male or female). Assemblies can be cleaned for oxygen service to meet CGA specification G-4.1. CGA nuts, nipples, check-valve nipples, hand-tight nuts, elbows, or distance pieces may be specified to be installed on the assemblies.

Materials

- Hose — T316 Stainless Steel
- Braid — T304 Stainless Steel
- Ends — T316L Stainless Steel NPT, Compression Tube, or VCR
- Armor — T304L Stainless Steel
- Temperature — Cryogenic to + 1500 °F

Hose Size (In)	No. of Braids	O.D. w/o armor (In)	O.D. w/ armor (In)	Max WP (PSIG)	Burst Pressure (PSI)	Max Flow Rate (Gas)	Max Flow Rate (Liquid)	Min. Dynamic Bend Radius w/ armor (In)	Min. Dynamic Bend Radius w/o armor (In)
1/4	2	0.640	0.810	3,850	15,400	240ft³/hr	120ft³/hr	6.25	4.00

* Note: Due to the damaging effects of high velocity gases on the corrugated innercore, metallic core hose is not recommended for cylinder filling applications.

Creating A Part Number For Flex Hose HP Stainless Steel Core Pigtails

To create a part number for the desired hose, use the key below:

Style	Hose Size	Fitting - End #1	Fitting - End #2	Overall Length (In)	Specify Armor Casing	Specify Oxygen Clean
FHHP22	025 (1/4' ID)	21, 24H, 22T, VCRM, or VCRF	21, 24H, 22T, VCRM, or VCRF	24.0", 36.0", etc	A	CCB

For example, for an assembly in the standard 1/4" I.D. size, with 1/4" MNPT one end and 1/4" FNPT on the other end, 36" overall length, complete with armor casing and cleaned, capped, and bagged for oxygen service would read as follows:

FHHP22-025-21-24H-36.0"-A-CCB

Style	Flex Hose FHHP22 Hose
Hose Size	025 for 1/4"
Fittings	21 for 316SS MNPT hex end • 24H for 316SS female NPT hex end • 22T for 316SS compression tube end • VCRM for 316SS face seal male • VCRF for 316SS face seal female.
Overall Length	Expressed in inches
Armor Casing	"A" to denote full armor casing
Oxygen Clean	Specify CCB for cleaning per CGA G-4.1 for oxygen service

"Flex Hose HP" FHHP22 Stainless Steel Core Pigtail Accessories

Tube Adapters

CGA Fittings

Cable Tether

Part	Description
MS	Mass Spectrometer Helium Leak Testing
T	Cable Tethering
BL-4HP	Brass Street Elbow Installed & Pressure Tested
Specify CGA Part #	Brass CGA Wrench-Tight Nut & Nipple Installed & Pressure Tested
Specify CGA Part #	Brass CGA Hand-Tight Nut & Soft Tip Nipple Installed & Pressure Tested
Specify CGA Part #	Plastic CGA Hand-Tight Nut & Soft Tip Nipple Installed & Pressure Tested
Specify CGA Part #	Brass CGA Nut & Check Valve Nipple Installed & Pressure Tested

Doc. No.: GR-FLY-SPGFH0815 Rev. Level: V1

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