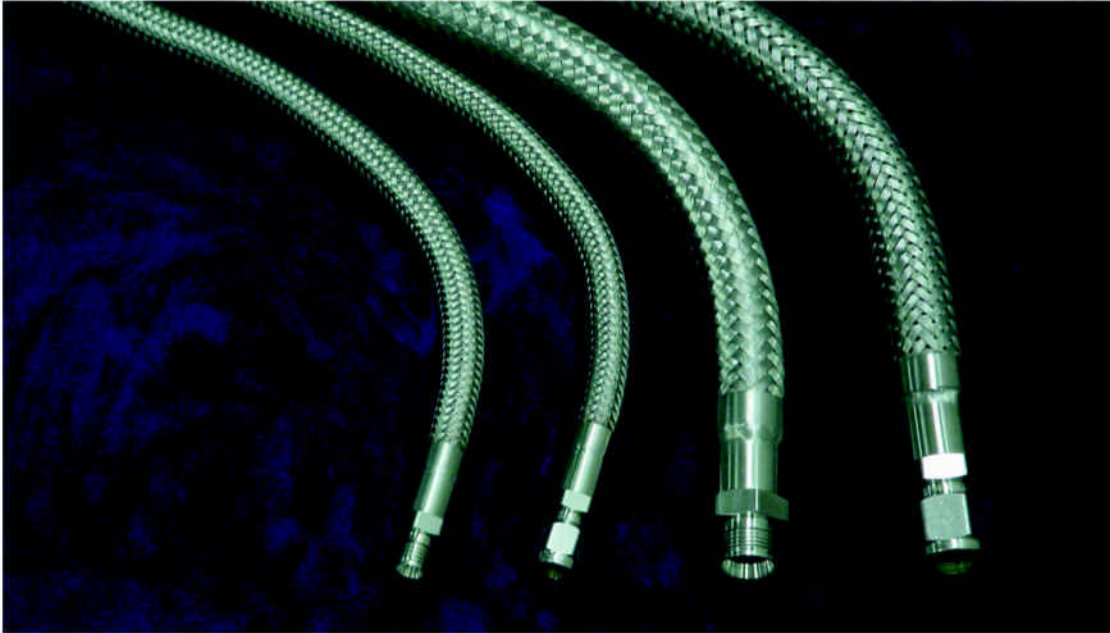


Hy-Lok[®] Flexible Metal Hose



- 1/4"-2" Fractional, 6-10mm Metric end connections
- Stainless steel construction
- Up to 5800psig

When to use metal Hose

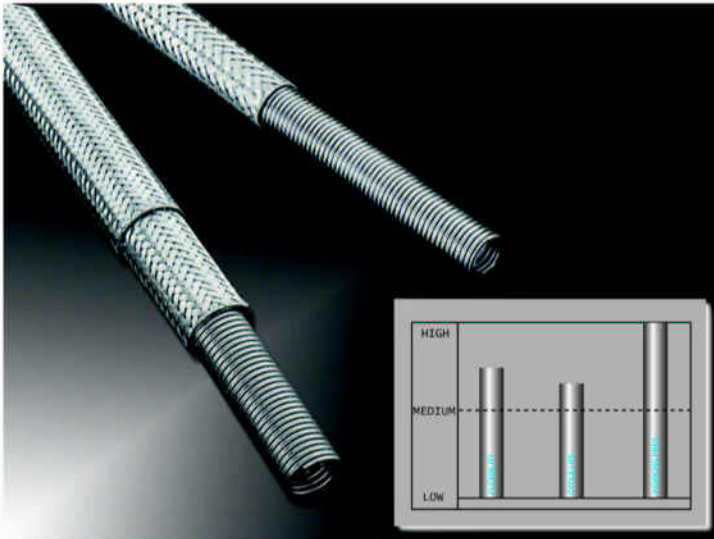
There are many different types of hose available on the market. They include metal, rubber, composite, PTFE and fabric. The decision of which hose type to buy depends on the application for which the hose is to be in use. Generally, there are several factors that should alert you to use metal hose

- **Temperature extremes** - If either the temperature of the media passing through the hose or the surrounding atmospheric temperature is very cold or hot, metal may be the only material that can withstand the temperature extremes.
- **Chemical Compatibility** - Metal hose can handle a wider variety of chemicals either internally or externally, metal hose should be considered.
- **Permeation concerns** - Non-metal hose is susceptible to having gases permeate through the hose wall and 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.
- **Potential 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 failure of the hose can be catastrophic, a metal hose may help minimize the effects of a failure by leaking product at a lower rate.
- **Abrasion Over-bending concerns** - To prevent abrasion and over-bending, a metal hose can be used as a protective cover over wires or even other hose.
- **Fire Safety** - Other types will melt when exposed to fire while metal hose maintains integrity up to 1200 degrees Fahrenheit.
- **Achieving full vacuum** - Under full vacuum, metal hose maintains its shape while other hose types may collapse.



HY-LOK CORPORATION

HP-Flex Metal Hose



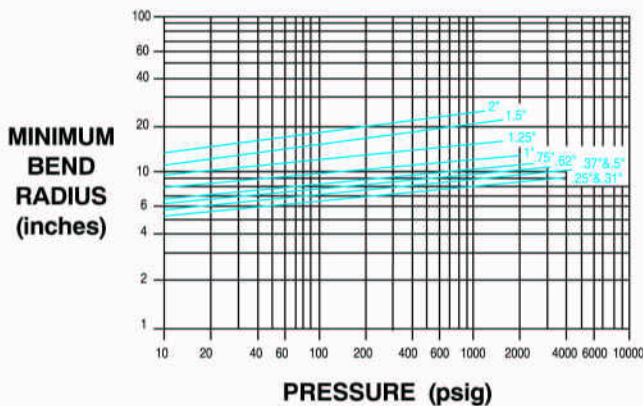
- High-Pressures
- 316 inner tube
- Minimal turbulence
- Lengths up to 80 feet
- Mix and match end connections
- Special end connections available

Metal hose is used when temperature extremes, corrosive media, or permeation preclude the use of rubber, PTFE, or plastic hose.

Typical applications for HP-Flex are found in the medical equipment manufacturing, power generating, and metal processing industries. These include high pressure steam hydraulic and lubrication applications.

Technical Data

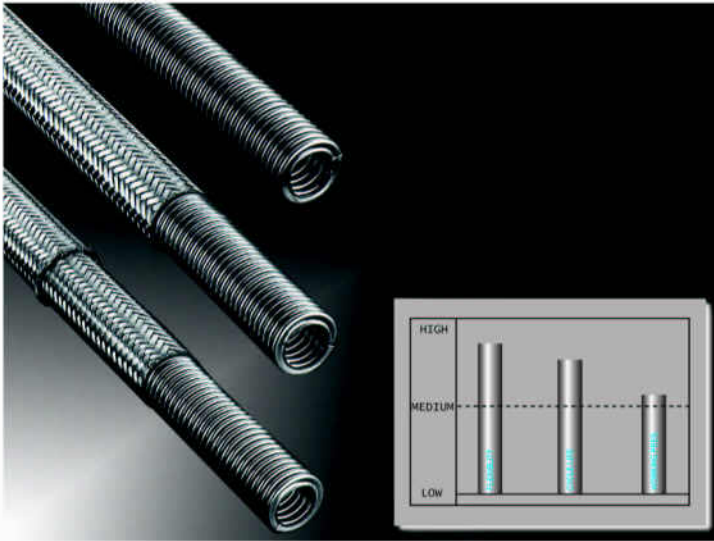
INSIDE DIAMETER (in.)	NUMBER OF BRAIDS (#)	OUTSIDE DIAMETER (in.)	STATIC MIN. BEND RADIUS (in.)	DYNAMIC MIN. BEND RADIUS (in.)	WORKING PRESSURE (psig)	BURST PRESSURE (psig)	WEIGHT PER FOOT (lbs.)
1/4	1	0.52	1.1	5.0	4600	18400	0.21
	2	0.62			5800	23200	0.32
5/16	1	0.62	1.2	5.1	4000	16000	0.29
	2	0.74			4800	19200	0.45
3/8	1	0.70	1.4	5.5	3800	15200	0.36
	2	0.82			4000	16000	0.57
1/2	1	0.82	1.6	5.7	2600	10400	0.43
	2	0.94			3700	14800	0.69
5/8	1	0.97	2.2	6.1	2400	9600	0.51
	2	1.09			2700	10800	0.82
3/4	1	1.19	2.8	6.5	2000	8000	0.64
	2	1.31			2200	8800	1.03
1	1	1.39	3.5	7.9	1500	6000	0.78
	2	1.51			2000	8000	1.25
1-1/4	1	1.75	4.1	9.4	1100	4400	1.15
	2	1.87			1600	6400	1.70
1-1/2	1	2.07	5.1	12.2	1000	4000	1.45
	2	2.19			1500	6000	2.16
2	1	2.55	6.7	14.6	750	3000	1.97
	2	2.67			1100	4400	2.83



NOTES: The minimum bend radius is measured from the center line of the hose. The minimum bend radius increases with pressure (see chart)

Technical data is meant to be used as a guide. If more specific information is required, consult your Authorized Hy-Lok Sales and Service Representative

Super-Flex Metal Hose



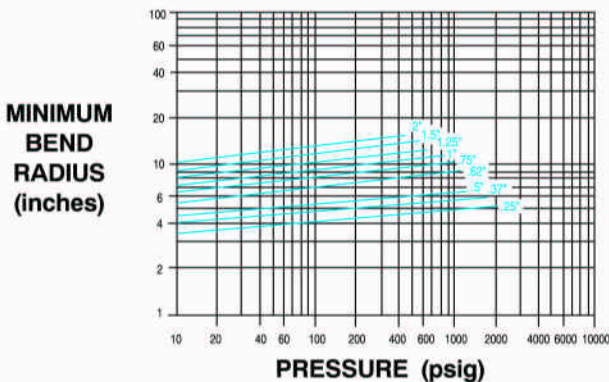
- Extreme flexibility
- High flex cycles
- 316L inner tube
- Lengths up to 100 feet
- Mix and match end connections
- Special end connections available

Metal hose is used when temperature extremes, corrosive media, or permeation preclude the use of rubber, PTFE, or plastic hose.

Super Flex is ideally suited for header and manifold systems in the following applications : bulk lube oil, caster cut-off torch, petroleum bottom loading and chemical barge transfer. Other applications include LPG loading vapor systems, and mono/duo flow rotary union connections.

Technical Data










INSIDE DIAMETER (in.)	NUMBER OF BRAIDS (#)	OUTSIDE DIAMETER (in.)	STATIC MIN. BEND RADIUS (in.)	DYNAMIC MIN. BEND RADIUS (in.)	WORKING PRESSURE (p.s.i.)	BURST PRESSURE (p.s.i.)	WEIGHT PER FOOT (lbs.)
1/4	0	0.42	0.9	3.7	90	7233	0.07
	1	0.48			1800		0.14
	2	0.54			2700		0.21
3/8	0	0.65	1.0	4.0	70	6230	0.20
	1	0.71			1558		0.30
	2	0.77			2336		0.40
1/2	0	0.77	1.2	4.4	70	4743	0.22
	1	0.83			1186		0.33
	2	0.89			1779		0.44
5/8	0	0.96	1.4	5.6	57	4820	0.31
	1	1.02			1205		0.47
	2	1.08			1808		0.63
3/4	0	1.16	1.7	6.4	43	3591	0.33
	1	1.22			898		0.51
	2	1.28			1347		0.69
1	0	1.47	2.1	7.1	43	2872	0.45
	1	1.53			718		0.69
	2	1.59			1077		0.93
1-1/4	0	1.75	2.5	7.9	43	2581	0.56
	1	1.83			645		0.88
	2	1.91			968		1.20
1-1/2	0	2.08	3.1	8.7	28	2125	0.82
	1	2.16			531		1.20
	2	2.24			797		1.58
2	0	2.61	4.0	10.3	14	1797	0.95
	1	2.69			449		1.47
	2	2.77			674		1.99



NOTES : The minimum bend radius is measured from the center line of the hose. The minimum bend radius increases with pressure (see chart)

Technical data is meant to be used as a guide. If more specific information is required, consult your Authorized Hy-Lok Sales and Service Representative

Dimension / Ordering Information

End Connection	Hose Size	Part Number	L	End Connection	Hose Size	Part Number	L
Hy-Lok Tube Fitting (Fractional) 	4	-H4-	1.64	Male NPT (BSP/ISO) 	4	-M4N(R)-	1.41
	4	-H6-	1.84		6	-M4N(R)-	1.54
	6	-H6-	2.02		6	-M6N(R)-	1.54
	8	-H8-	2.48		8	-M8N(R)-	1.99
	8	-H10-	2.11		12	-M8N(R)-	2.15
	12	-H12-	2.64		16	-M16N(R)-	2.63
	16	-H16-	3.2		20	-M20N(R)-	3.06
	20	-H20-	4.04		24	-M24N(R)-	3.72
	24	-H24-	4.75		32	-M32N(R)-	4.19
	32	-H32-	5.72				
Hy-Lok Tube Fitting (Metric) 	4	-H6M-	1.84	Female NPT (BSP/ISO) 	4	-F4N(R)-	1.48
	4	-H8M-	1.87		8	-F8N(R)-	2.03
	6	-H10M-	2.10		12	-F12N(R)-	2.20
	8	-H12M-	2.48		16	-F16N(R)-	2.76
Tube Adapter (Fractional) 	4	-TA4-	1.49	HOPE ZCO O-Ring Face Seal Fitting Female Swivel 	4	-ZCO4-	1.3
	6	-TA6-	1.76		8	-ZCO8-	1.36
	8	-TA8-	2.21	HOPE Metal Gasket Face Seal Fitting Male Swivel 	4	-VM4-	2.22
	12	-TA12-	2.52		8	-VM8-	2.67
	16	-TA16-	2.52				
Tube Adapter (Metric) 	4	-TA6M-	1.25	HOPE Metal Gasket Face Seal Fitting Female Swivel 	4	-VF4-	2.22
	6	-TA10M-	1.42		8	-VF8-	2.67
	8	-TA12M-	2.21		12	-VF12-	2.89
					16	-VF16-	3.23

■ **Typical Ordering Number** below specifies a hose assembly using Hy-Lok HP Flex metal hose with 1/2" Hy-Lok Tube Fitting on one end, 1/2" male NPT on the other end and 60 inches in length.

HP

Hose Series

- HP - HP Flex
- SP - Super Flex

8

Hose Size I.D.

- 4 - 1/4"
- 6 - 3/8"
- 8 - 1/2"
- 12 - 3/4"
- 16 - 1"
- 20 - 1 1/4"
- 24 - 1 1/2"
- 32 - 2"

H8 **M8N**

1st 2nd

• End Connection

60

Overall length in inches

S316

Material Designator

- S316 - Stainless Steel Type 316

End Connection Type		End Connection Size			
		Inch		Metric	
Description	Identifier	Size	Identifier	Size	Identifier
Male Pipe Thread	M	1/8"	2	6mm	6M
Female Pipe Thread	F	1/4"	4	8mm	8M
Hy-Lok Tube Fitting	H	3/8"	6	10mm	10M
Hy-Lok Tube Adapter	A	1/2"	8	12mm	12M
HOPE ZCO O-Ring Face Seal Fitting Female Swivel	ZCO	5/8"	10	Threads	
		3/4"	12	Type	Identifier
HOPE Metal Gasket Face Seal Fitting Male Swivel	VM	1"	16	NPT	
		1 1/4"	20	N	
HOPE Metal Gasket Face Seal Fitting Female Swivel	VF	1 1/2"	24	BSP/ISO	
		2"	32	Tapered R	

Distributed by:

Hy-Lok	Tube Fittings
Hy-Pro	Valves
Hy-Pro	Fittings