



## Teflon Flexible Hose

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### Stainless Steel Braided



### Hose Assemblies and End Connections

- Inner Tube Include Teflon PTFE and Teflon PFA
- Fitting Connection Sizes 1/4 to 1 in.
- Optional Silicon Covers, Testing

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*FOR A BETTER* 

All Your Solution Provider "HY-LOK"



*TOMORROW*

### INTRODUCTION

Hy-Lok Teflon flexible hose is an ideal solution for withstands continuous flexing, vibration and impulse for moving equipment high-purity fluids.

Variable length, high flexibility, high pressure and broad chemical compatibility are among the features that make this hose the preferred solution for many applications.

As a customer-focused company, Hy-Lok provides high-quality products and engineering solutions that address our customers' business and technical requirements.

### GENERAL

#### ■ Max. Pressure & Temperature

- Max allowable working pressure : 206 bar(3,000 psi) at 38°C (100°F)
- Max allowable temperature : 204°C (400°F) max.

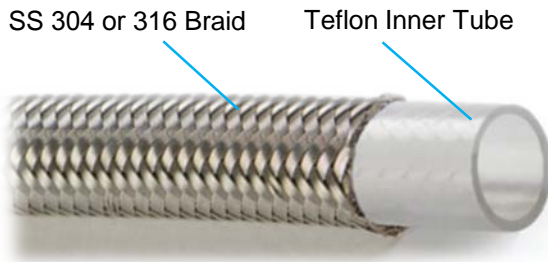
#### ■ Materials

- Inner Tube : Teflon PTFE or Teflon PFA
- Braid : Stainless Steel 304 or 316
- External Cover : Silicon(Optional)
- End connection : Stainless Steel 316

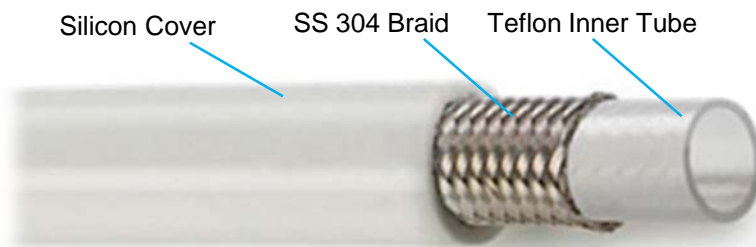
#### ■ Features / Benefits

- Teflon Inner Tube with stainless steel braid.
- Silicon cover protect the braid from particles.(Option)
- Non contaminating material
- Maintains pure systems
- Teflon is FDA-approved material
- Hy-Lok Tube Fitting, Tube Adapter, Male & Female NPT connections.
- Packed and Validated for high purity service.

#### ■ Teflon Inner Tube Stainless Steel Braided Hose



#### ■ Silicon Covered Teflon Inner Tube Stainless Steel Braided Hose



## Hose Assemblies

### Hy-Lok Tube Fitting End Connections



Fitting Size		Inside Diameter (mm)	Outside Diameter (mm)	Working Pressure (bar)	Burst Pressure (bar)	Min. Bending Radius	Hose Weight (Kg/m)
(in.)	(mm)						
1/4	6	4.7	8.0	206	827	50	0.13
5/16	8	6.4	9.1	206	827	76	0.19
3/8	10	7.9	10.7	172	689	100	0.20
1/2	12	9.5	12.7	137	551	127	0.22
3/4	20	16.0	20.0	83	332	195	0.31
1	25	22.2	26.2	69	275	225	0.48

### Tube Adapter End Connections



Fitting Size		Inside Diameter (mm)	Outside Diameter (mm)	Working Pressure (bar)	Burst Pressure (bar)	Min. Bending Radius	Hose Weight (Kg/m)
(in.)	(mm)						
1/4	6	4.7	8.0	206	827	50	0.13
5/16	8	6.4	9.1	206	827	76	0.19
3/8	10	7.9	10.7	172	689	100	0.20
1/2	12	9.5	12.7	137	551	127	0.22
3/4	20	16.0	20.0	83	332	195	0.31
1	25	22.2	26.2	69	275	225	0.48

### Male & Female NPT End Connections

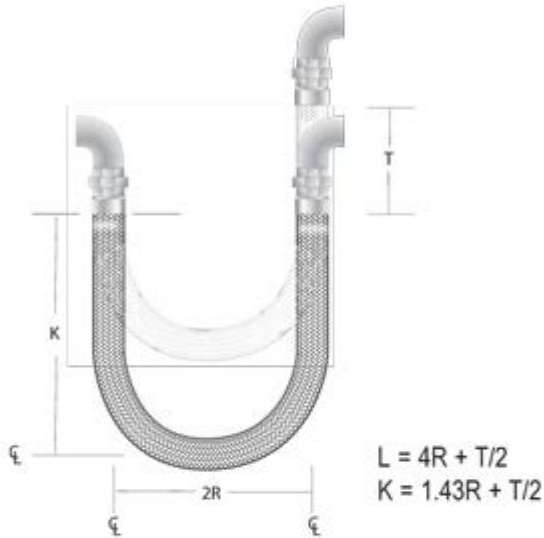


Fitting Size		Inside Diameter (mm)	Outside Diameter (mm)	Working Pressure (bar)	Burst Pressure (bar)	Min. Bending Radius	Hose Weight (Kg/m)
(in.)	(mm)						
1/4	6	6.4	9.1	206	827	76	0.19
3/8	10	9.5	12.7	137	551	127	0.22
1/2	12	12.7	16.3	120	482	165	0.27
3/4	20	19.1	22.6	69	275	228	0.51
1	25	25.4	28.6	69	275	304	0.85

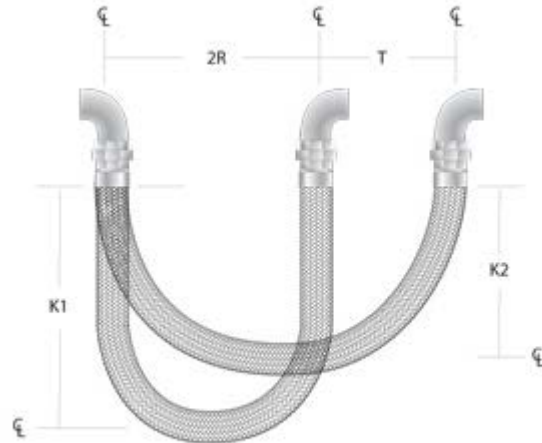
## Travelling Loop Calculations

- Constant Radius Traveling Loop A-Loop
- Variable Radius Traveling Loop B-Loop

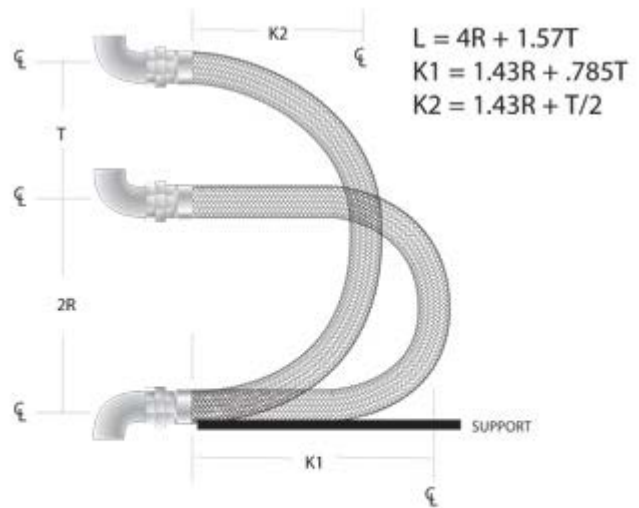
### FOR MAXIMUM VERTICAL TRAVEL



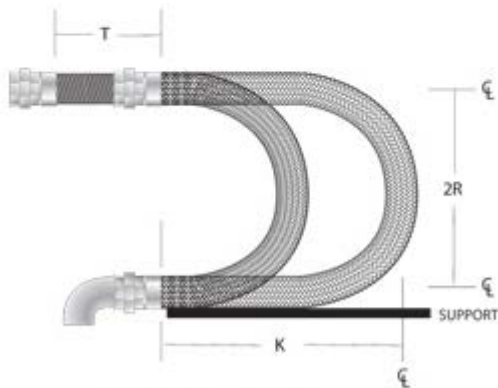
### FOR SHORT HORIZONTAL TRAVEL



### FOR SHORT VERTICAL TRAVEL



### FOR MAXIMUM HORIZONTAL TRAVEL



T = Total travel (in.)  
 L = Hose live length (in.)  
 R = Center line bend radius (in.)  
 K = Loop Length (in.)

Note: In loop installations both connections and travel should be in same plane as the bend.