

# Flexible Hoses

## High Pressure / Medium Pressure

**Flexible Hoses High Pressure Type**

Type	Material			Applicable Fluids	Operating Temperature Range	Max. Operating Pressure
	Hose	Swage Fittings	Seal Areas			
<b>HOSLTR</b>	SUS304	SUS304	Silicone Rubber	Steam, Water, Oil, Air, Gas	-50~280°C (Steam: 150°C or less)	See Hose Specifications Table

⚠ Not applicable for air conditioner cooling medium, etc.  
 ⚠ Not applicable for trichloroethane (aromatic materials)  
 ⚠ Not applicable for fuel oils

**Swage Fitting Shapes**

**Shape A** **Shape B**

**Hose Dimensions**

Hose Nominal I.D.	I.D.	Min. Bending Radius (mm)	Max. Operating Pressure (MPa)
8A	7.0	25	6.4
10A	10.5	30	6.4
15A	13.2	35	4.4
20A	19.2	40	3.4
25A	25.5	50	3.4

**Swage Fittings Size List**

Hose Nominal I.D.	R (PT) G (PF)	Shape A			Shape B		
		X (Wrench Flats)	L	X (Wrench Flats)	Y (Wrench Flats)	L	
8A	1/4	17	36	17	19	41	
10A	3/8	19	38	19	22	43	
15A	1/2	22	45	22	27	49	
20A	3/4	30	64	30	36	68	
25A	1	36	68	36	41	72	

⚠ For gases, operating pressure is 1.5MPa or less.

Part Number	Hose Length 0.1m Increment	L Left End Swaged Shape	R Right End Swaged Shape	Hose I.D. (mm)	Unit Price
<b>HOSLTR</b>	0.3~5.0	LA LB	RA RB	7.0, 10.5, 13.2, 19.2, 25.5	Swaging Charge

⚠ Hose length includes the Swage Fittings.

**Application**

- Plumbing in places where ambient temperature is high (with vapor etc.).
- Absorbs variation in elongation of pipe due to temperature change.

**Features**

- Excellent in heat resistance and pressure resistance.

**CAUTION**

- Avoid use in places where hose is constantly moved.

**Flexible Hoses Medium Pressure Type**

Type	Material			Applicable Fluids	Operating Temperature Range	Max. Operating Pressure
	Hose	Metal Fitting Shape	Seal Areas			
<b>HOEMF</b>	SUS304	FCMB		Steam, Air, Gas, Water, Oil	0~200°C	2.0MPa
<b>HOEMFG</b>	SUS304 + Glass Cloth + Hose Clamps (2 pcs.)	SCS13	SUS304	Steam, Air, Gas, Water, Oil	0~200°C	2.0MPa

**Swage Fitting Shapes**

**Shape A** **Shape B**

**Hose Dimension Table**

Hose Nominal I.D.	I.D. (mm)	O.D. (mm)	Min. Bending Radius (mm)	Spring Constant (N/mm)	Max. Operating Pressure (MPa)
8A	7.2	12.1	25	1677.1	2.0
10A	10.5	16.3	35	2494.1	
15A	13	19.6	50	1894.1	
20A	19	26.9	65	3789.9	
25A	25.2	34	80	2550.1	

**Swage Fittings Size List**

Hose Nominal I.D.	R (PT) Rc (PT)	Shape A			Shape B		
		H1	H3	L	H2	H3	L
8A	1/4	14	17	44.5	17	17	61
10A	3/8	17	21	48.5	21	21	63
15A	1/2	22	26	58.0	26	26	73
20A	3/4	27	32	63.2	32	32	77
25A	1	35	38	72.0	38	38	90

Part Number	Hose Length 0.1m Increment	L Left End Swaged Shape	R Right End Swaged Shape
<b>HOEMF</b> <b>HOEMFG</b> (Glass Cloth Protection)	0.3~2.0	LA LB	RA RB

⚠ Hose length includes the Swage Fittings.

**Application**

- General purpose plumbing, such as control of pipe displacement.

**Features**

- Lightweight compared to High Pressure Type.
- Positive Metal Seat Type requires no maintenance.
- Gasketless design

**CAUTION**

- Tolerance of a hose length is 0 ~ 3% of the full length.

Ordering Example: Part Number - Hose Length - Shape L - Shape R  
 Example: HOSLTR8A - 1.0 - LA - RB

Hose Nominal I.D.	HOEMF Unit Price		HOEMFG Unit Price	
	Unit Price	Hose Unit Price/0.1m	Unit Price	Hose Unit Price/0.1m
8A				
10A				
15A				
20A				
25A				

Hose Nominal I.D.	Swaging Charge		
	Metal Fitting Shape A-A	Metal Fitting Shape A-B	Metal Fitting Shape B-B
8A			
10A			
15A			
20A			
25A			

# Flexible Hoses

## Low Pressure (Non-Welded) Type

**Flexible Hoses Low Pressure (Non-Welded) Type PT / PT Female**

Type	Material		Applicable Fluids	Operating Temperature Range	Max. Operating Pressure
	Hose	Union Fitting			
<b>HOELF</b>	SUS304	FCMB	Steam, Air, Gas, Water, Oil	0~100°C	1.0MPa
<b>HOELFS</b>	SUS304	SCS13 (SUS304)	Steam, Air, Gas, Water, Oil	0~100°C	1.0MPa

**Swage Fitting Shapes**

**Shape A** **Shape B**

**Hose Dimensions**

Hose Nominal I.D.	I.D. (mm)	O.D. (mm)	Min. Bending Radius (mm)	Spring Constant (N/mm)	Max. Operating Pressure (MPa)
10A	17	23	60	1534.6	1.0
15A	19.2	25	65	1858.2	
20A	24.1	31	80	1179.9	
25A	29.5	39	100	1510.6	
32A	38.6	47.5	120	1785	
40A	44.8	54	120	3471	
50A	56.4	66	140	3684	

**Swage Fittings Size List**

Hose Nominal I.D.	Rc (PT)	L	H1	H2
10A	3/8	33	23	37
15A	1/2	39	27	42
20A	3/4	40	33	49
25A	1	49	41	59
32A	1 1/4	53	50	69
40A	1 1/2	58	56	78
50A	2	65	69	93

Part Number	Hose Length 0.1m Increment	HOELF Unit Price		HOELFS Unit Price	
		Unit Price	Hose Unit Price/0.1m	Unit Price	Hose Unit Price/0.1m
<b>HOELF</b> <b>HOELFS</b>	0.3~2.0				

**Flexible Hoses Low Pressure (Non-Welded) Type PT Male / PT Female**

Type	Material		Applicable Fluids	Operating Temperature Range	Max. Operating Pressure
	Hose	Metal Fitting Shape			
<b>HOEJF</b>	SUS304	FCMB	Steam, Air, Gas, Water, Oil	0~100°C	1.0MPa
<b>HOEJFS</b>	SUS304	SCS13 (SUS304)	Steam, Air, Gas, Water, Oil	0~100°C	1.0MPa

**Swage Fitting Shapes**

**Shape A** **Shape B**

**Hose Dimensions**

Hose Nominal I.D.	I.D. (mm)	O.D. (mm)	Min. Bending Radius (mm)	Spring Constant (N/mm)	Max. Operating Pressure (MPa)
10A	10.5	16.3	35	2494.1	1.0
15A	13	19.6	50	1894.1	
20A	19	26.9	65	3789.9	
25A	25.2	34	80	2550.1	

**Swage Fittings Size List**

Hose Nominal I.D.	R (PT) Rc (PT)	L	H1	H2
10A	3/8	51.0	24	19
15A	1/2	56.5	27	24
20A	3/4	61.5	32	27
25A	1	68.5	41	35

Part Number	Hose Length 0.1m Increment	HOEJF Unit Price		HOEJFS Unit Price	
		Unit Price	Hose Unit Price/0.1m	Unit Price	Hose Unit Price/0.1m
<b>HOEJF</b> <b>HOEJFS</b>	0.3~2.0				

Ordering Example: Part Number - Hose Length  
 HOELF10A - 1.0  
 HOELFS25A - 0.5