

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			
HOSLTR	EN 1.4301 Equiv.	EN 1.4301 Equiv.	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)	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
HOSLTR	8A	LA	RB	7.0	
	10A			10.5	
	15A			13.2	
	20A			19.2	
	25A			25.5	

- 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.

⚠ Hose length includes the Swage Fittings.

Flexible Hoses Medium Pressure Type

Type	Material		Applicable Fluids	Operating Temperature Range	Max. Operating Pressure
	Hose	Metal Fitting Shape			
HOEMF	EN 1.4301 Equiv.	EN 1.4301 Equiv.	Steam, Air, Gas, Water, Oil	0~200°C	2.0MPa
HOEMFG	EN 1.4301 Equiv. + Glass Cloth + Hose Clamps (2 pcs.)	EN 1.4301 Equiv.			

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
HOEMF HOEMFG (Glass Cloth Protection)	8A	LA	RB
	10A		
	15A		
	20A		
	25A		

- Application**
- General purpose plumbing, such as control of pipe displacement.
- CAUTION**
- Tolerance of a hose length is 0 ~ 3% of the full length.
- Features**
- Lightweight compared to High Pressure Type.
 - Positive Metal Seat Type requires no maintenance.
 - Gasketless design

⚠ Hose length includes the Swage Fittings.

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

Hose Unit Price

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				

Swaging Charge

Hose Nominal I.D.	Additional Charge for Swaging		
	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			
HOELF	EN 1.4301 Equiv.	FCMB	Steam, Air, Gas, Water, Oil	0~100°C	1.0MPa
HOELFS	EN 1.4301 Equiv.	EN 1.4308 Equiv. (EN 1.4301 Equiv.)			

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
HOELF HOELFS	10A				
	15A				
	20A				
	25A				
	32A				
	40A				
	50A				

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			
HOEJF	EN 1.4301 Equiv.	FCMB	Steam, Air, Gas, Water, Oil	0~100°C	1.0MPa
HOEJFS	EN 1.4301 Equiv.	EN 1.4308 Equiv. (EN 1.4301 Equiv.)			

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
HOEJF HOEJFS	10A				
	15A				
	20A				
	25A				

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

- Features**
- Excellent in corrosion resistance, as joint of fittings is not welded.
 - Suitable to absorb vibration.
 - Metal hex portions are swivable and thus, facilitate installation.

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

- CAUTION**
- Tolerance of a hose length is 0 ~ 3% of the full length.
 - H1 and H2 are the dimensions for EN 1.4308 Equiv. (EN 1.4301 Equiv.).

- Features**
- Excellent in corrosion resistance, as joint of fittings is not welded.
 - Suitable to absorb vibration.
 - Gasketless design

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

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