

## PTFE FLEXIBLE HOSES

FHT recommends smooth PTFE flexible hoses (FLHO) in applications demanding resistance at high pressures, a high durability and excellent chemical resistance.

### Standard Construction:



**Inner Tube:** extruded PTFE tube made of selected premium materials certified in compliance with RoHS Directives and FDA Regulation 21 CFR 177.1550. Advanced processing and quality control ensure best quality and high flexibility.

**Outer reinforcement:** braid of wires in hard drawn AISI 304 stainless steel with very high tensile strength. Advanced processing and quality control ensure best performances.

### Smooth PTFE FLHO Range

There are 3 types of smooth PTFE FLHO.

#### Type SSW 1B - Standard Smooth Wall, Single Braid

Single Braid is suitable for many general-purpose applications, including high and low pressure steam, chemicals, paints, inks, adhesives, brake fluids, fuels, oils, detergents, refrigerants and foodstuffs.

SSW 1B FLHO							
ID	ID	TOL	THICK.	OD	TOL	BR	Maxi. WP
Inches	mm	mm	mm	mm	mm	mm	bar
1/8"	3.4	±0.25	0.8	6.1	±0.40	25	250
3/16"	4.95	±0.40	0.8	7.8	±0.40	30	230
1/4"	6.75	±0.40	0.8	9.35	±0.40	45	220
5/16"	8.4	±0.50	0.8	11.6	±0.50	50	205
3/8"	10.0	±0.60	0.8	12.7	±0.60	60	185
13/32"	10.3	±0.60	0.8	13.4	±0.60	85	180
1/2"	13.2	±0.70	0.8	16.6	±0.70	90	160
5/8"	16.6	±0.70	0.9	19.8	±0.70	125	115
3/4"	19.8	±0.80	0.9	23.0	±0.80	160	100
7/8"	22.1	±0.80	1.0	25.4	±0.80	220	90
1"	26.1	±0.80	1.1	30.4	±0.80	245	80

### Type SW 2B - Smooth Wall, Double Braid

Double Braid is suitable for higher pressures and better kink resistance.

SW 2B FLHO						
ID	ID	TOL	THICK	OD	BR	Maxi. WP
Inches	mm	mm	mm	mm	mm	bar
1/4"	6.7	±0.40	0.8	10.5	50	245
5/16"	8.0	±0.40	0.8	12.6	55	215
3/8"	10.0	±0.60	0.8	13.8	70	200
1/2"	13.2	±0.70	0.8	18.1	110	185
5/8"	16.6	±0.80	1.0	21.0	150	140
3/4"	19.8	±0.80	1.0	24.4	190	125
1"	26.1	±0.80	1.1	32.0	270	100



### Type HSW 2B - Heavy Smooth Wall, Double Braid

Mostly used with gases and for hot/cold cycling applications.

HSW 2B FLHO						
ID	ID	TOL	THICK	OD	BR	Maxi. WP
Inches	mm	mm	mm	mm	mm	bar
1/4"	6.3	±0.40	1.0	11.0	75	280
3/8"	10.2	±0.60	1.0	15.2	140	230
1/2"	12.4	±0.60	1.0	17.3	145	185
5/8"	16.6	±0.60	1.0	21.6	175	160
3/4"	19.0	±0.70	1.2	24.4	200	140

#### **Note:**

FHT recommends working pressures according to ISO 7751:1991 and cannot guarantee the usage of PTFE FLHO at higher performances.

#### **Temperature affects pressure resistance:**

T (°C)	130	150	180	200	220	250
P (%)	100	85	63	48	33	10