

DEMAND PUREFLEX QUALITY



# SmoothFlex™ Series

PTFE Smooth-Bore Hoses



# SmoothFlex™



## SmoothFlex™ Hose

SmoothFlex™ is a flexible smooth bore PTFE hose with stainless steel braided reinforcement that is designed for long trouble free service in a wide range of applications that may involve pressure, temperature and chemical extremes. The hose is available in Virgin PTFE for high purity applications and anti-static conductive black PTFE where electrostatic dissipation is required. SmoothFlex™ is an excellent choice for pharmaceuticals, food and beverage applications, the transfer of viscous media such as paints and adhesives, fluid transfer of corrosive chemicals, and high temperature hydraulic or pneumatic applications.

**Zero Corrosion Rate**  
**Non-Stick Properties**  
**FDA Approved**  
**Meets Pharmacopoeia Class VI**  
**SIP & CIP**  
**-65°F to 450°F Temp. Range**  
**Durable**

## SmoothFlex™ Nominal Bore (Dash Size)

DASH SIZE	NOMINAL I.D. (inch)	NOMINAL O.D. (inch)	WORKING PRESSURE (psi)	MINIMUM BURST (psi)	MINIMUM BEND RADIUS (in)	WEIGHT (lbs / ft)
- 3	.125	.250	3,000	12,000	2.0	.047
- 4	.187	.312	3,000	12,000	2.0	.077
- 5	.250	.375	3,000	12,000	3.0	.098
- 6	.312	.445	2,500	10,000	4.0	.110
- 7	.375	.503	2,250	9,000	4.5	.124
- 8	.405	.549	2,000	8,000	5.0	.124
- 10	.500	.648	1,500	6,000	6.5	.154
- 12	.625	.778	1,200	4,800	8.0	.170
- 14	.750	.885	1,100	4,400	8.0	.198
- 16	.875	1.030	1,000	4,000	9.0	.273
- 18	1.000	1.135	900	3,600	10.00	.305
- 20	1.125	1.290	750	3,000	16.00	.350

Ratings are based at 70°F (21°C)  
 Temperature range -65°F (-54°C) to 450°F (232°F)

## SmoothFlex™ True Bore (Full I.D. Size)

NOMINAL I.D. (inch)	NOMINAL O.D. (inch)	WORKING PRESSURE (psi)	MINIMUM BURST (psi)	VACUUM RATING (In Hg)	MINIMUM BEND RADIUS (in)	WEIGHT (lbs / ft)
1/4	.375	3,000	12,000	29.9	3.0	.098
3/8	.503	2,250	9,000	29.9	4.5	.124
1/2	.648	1,500	6,000	29.9	6.5	.154
3/4	.885	1,100	4,400	20.0	8.2	.198
1	1.135	900	3,600	14.0	10.0	.273

Ratings are based at 70°F (21°C)  
 Temperature range -65°F (-54°C) to 450°F (232°F)

## Hose Cover Options



1



2

3

4

5

6

## Electrically Heated Option



1 Silicone Cover

2 Anti Scuff Sock

3 Fire Sleeve

4 Polyolefin Heat Shrink (other colors available)

5 Anti Kink Guard

6 Spring Guard

## SmoothFlex™ High Pressure

SIZE	NOMINAL I.D. (inch)	NOMINAL O.D. (inch)	WORKING PRESSURE (psi)	MINIMUM BURST (psi)	MINIMUM BEND RADIUS (in)	WEIGHT (lbs / ft)
1/4	.222	.375	5,000	16,000	1.5	.108
3/8	.308	.473	5,000	16,000	2.5	.180
1/2	.401	.600	5,000	16,000	2.9	.240
5/8	.495	.710	5,000	16,000	3.3	.324
3/4	.617	.970	5,000	16,000	4.0	.660
1	.867	1.250	5,000	16,000	5.0	1.020
1 1/4	1.125	1.600	4,000	16,000	12.0	1.680
1 1/2	1.375	1.920	4,000	12,000	14.0	2.280

Ratings are based at 70°F (21°C)

Temperature range -65°F (-54°C) to 400°F (204°F)

Reduce working pressure on all sizes to maximum of 3,000psi @ 400°F (204°C)

For impulse services reduce working pressures by 1,000psi

## SmoothFlex™ Ultra-High Pressure

SIZE	NOMINAL I.D. (inch)	NOMINAL O.D. (inch)	WORKING PRESSURE (psi)	MINIMUM BURST (psi)	MINIMUM BEND RADIUS (in)	WEIGHT (lbs / ft)
1/4	.229	.495	6,000	24,000	3.00	.24
3/8	.300	.615	6,000	24,000	5.00	.40
1/2	.395	.725	6,000	24,000	5.75	.49
5/8	.525	.885	4,000*	12,000	6.25	.67
3/4	.650	1.060	4,000*	12,000	7.75	.93
1	.875	1.370	4,000*	12,000	9.63	1.45

Ratings are based at 70°F (21°C)

Temperature range -65°F (-54°C) to 400°F (204°F)

\*Reduce working pressure to maximum of 3,000psi @ 400°F (204°C)