

PureFlex Product Integration

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 (-64°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	2,200	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	1,000	4,000	14.0	10.0	.273

Ratings are based at 70°F (21°C)
 Temperature range -65°F (-64°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°C)

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°C)

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