

# Bioflex SS Series

## Hose Specifications



## Stainless Steel Braided Smoothbore PTFE Lined Bioflex Hose

### Stainless Steel Braid

Stainless Steel braided hose is used in applications involving high temperatures and working pressures. High tensile grade 304 stainless steel wire is used to give maximum pressure resistance and external protection to the hose.

### Bioflex GP/AS PTFE Tube

**Bioflex GP** Natural, General Purpose grade virgin PTFE, for use in all applications where fluids or gases being conveyed are not highly electrically resistant.

**Bioflex AS** Black, Anti-Static PTFE, suitable for use in applications where electrically resistive fluids, such as fuels, solvents or freons, or pure, dry gasses such as halogens or steam are being conveyed. Bioflex AS prevents a damaging electrostatic build-up at high flow rates.

Bioflex AS meets the anti-static hose requirements of BS2050:1978. The resistance is measured between the (wetted) inside surface of the hose liner and an end fitting, and this resistance must not exceed  $10^7$  ohms. When using an AS hose, one end fitting must always be connected to earth.

### Temperature Rating

-94°F to +500°F

### Approvals

#### Bioflex GP

- FDA CFR 177.1550

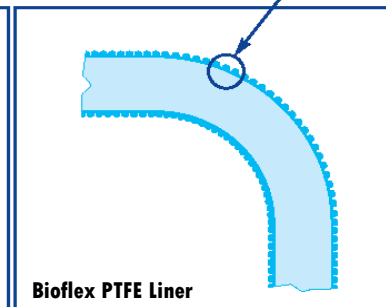
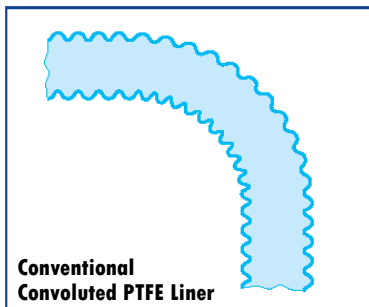
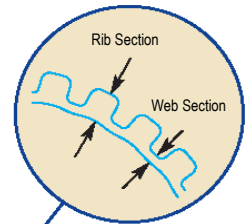
#### Bioflex AS

- FDA CFR 178.3297

### Fittings

Bioflex is available with a range of 'standard' end fittings, normally supplied hygienically PTFE lined, or "Flared Through"

The Bioflex PTFE liner design comprises integral *rib* sections (which support the tube against kinking, vacuum and pressure) and highly compressed *web* sections (which give a smoothbore inner surface and excellent flexibility).



### Bioflex GP/AS SS Hose Specifications

Part Number	Hose Size ID	Approx. OD W/Cover	Maximum Working Pressure*		Minimum Burst Pressure		Minimum Bend Radius	Max Continuous Hose Length	Weight Per Ft.
	Inches		BAR	PSI	BAR	PSI	Inches		
(GP or AS) SS 3/8	3/8	0.51	80	1160	320	4641	13/16	65	.09
(GP or AS) SS 1/2	1/2	0.65	70	1015	280	4061	1	65	.20
(GP or AS) SS 5/8	5/8	0.81	65	942	260	3770	1 13/16	65	.24
(GP or AS) SS 3/4	3/4	0.96	60	870	240	3480	2	65	.27
(GP or AS) SS 7/8	7/8	1.11	55	797	220	3190	2 3/8	65	.35
(GP or AS) SS 1	1	1.26	50	725	200	2900	2 3/4	65	.42
(GP or AS) SS 1 1/4	1 1/4	1.52	45	652	180	2610	3 15/16	65	.57
(GP or AS) SS 1 3/8	1 3/8	1.70	40	580	160	2320	4 3/4	59	.67
(GP or AS) SS 1 1/2	1 1/2	1.83	40	580	160	2320	5 1/2	55	.74
(GP or AS) SS 1 7/8	1 7/8	2.24	35	507	140	2030	7 1/2	42	.93
(GP or AS) SS 2	2	2.40	30	435	120	1740	7 7/8	32	1.27

\*Maximum Working Pressure of a hose assembly is limited to the lowest of the maximum working pressure of either of the two end fittings, data given is for hose only.

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