

# Bioflex PB Series

## Hose Specifications



## Polypropylene Braided Smoothbore PTFE Lined Bioflex Hose

### Polypropylene Braid

Polypropylene braided hose is often preferred to stainless steel in applications involving frequent movement of the hose and less pressure is used. PB braid is lighter in weight, and any broken strands will not cut the operator's hands. In addition, PB braid is not prone to chloride stress corrosion.

### 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

-22°F to +212°F

### Approvals

#### Bioflex GP

- FDA CFR 177.1550

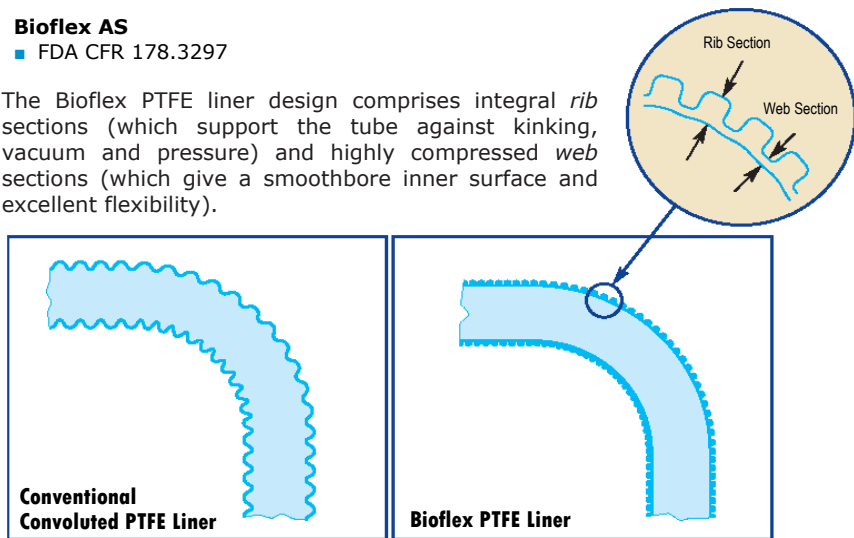
#### Bioflex AS

- FDA CFR 178.3297

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).

### Fittings

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



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Note: Prolonged exposure to sunlight eventually results in UV degradation of PB braid.

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	Inches	BAR	PSI	BAR	PSI	Inches	Feet	Lbs.
(GP or AS) PB 1/2	1/2	0.70	35	507	140	2030	1	65	.15
(GP or AS) PB 5/8	5/8	0.90	33	478	130	1885	1 13/16	65	.17
(GP or AS) PB 3/4	3/4	1.00	30	435	120	1740	2	65	.19
(GP or AS) PB 7/8	7/8	1.20	27.5	398	110	1595	2 3/8	65	.26
(GP or AS) PB 1	1	1.40	25	362	100	1450	2 3/4	65	.31
(GP or AS) PB 1 1/4	1 1/4	1.60	25	333	90	1305	3 15/16	65	.48
(GP or AS) PB 1 3/8	1 3/8	1.75	20	290	80	1160	4 3/4	59	.57
(GP or AS) PB 1 1/2	1 1/2	1.90	20	290	80	1160	5 1/2	55	.60
(GP or AS) PB 1 7/8	1 7/8	2.30	18	261	72	1044	7 1/2	42	.75
(GP or AS) PB 2	2	2.50	15	217	60	870	7 7/8	32	1.07

\*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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