

Polypropylene braid (PB) grade hoses



Bioflex Ultra

Features and benefits

- Natural or anti-static patented PTFE liner
- Very flexible, yet kink resistant
- Smooth bore for uninterrupted fluid flow and ease of cleaning
- High temperature and pressure capability
- Chemical resistant
- PTFE-lined and non-lined end fittings with laser etched ferrule for ultimate traceability
- Range of braid, cover and external protection options available



Polypropylene braid (PB) grade hoses performance

Nominal hose bore size		Actual bore size		Bioflex Ultra grade (braid)	Helical wire	Maximum working pressure of hose		Burst pressure		Minimum bend radius	
in	mm	in	mm			bar	psi	bar	psi	in	mm
½	15	0.516	13.1	PB	✓	35	500	140	2000	1½	38
¾	16	0.638	16.2	PB	✓	33	480	130	1900	1¾	45
¾	20	0.760	19.3	PB	✓	30	440	120	1750	2	50
*¾	22	0.870	22.1	PB	✓	27.5	400	110	1600	2½	55
1	25	1.012	25.7	PB	✓	25	360	100	1450	2¾	70
1¼	32	1.268	32.2	PB	✓	23	330	90	1300	4	100
*1¾	35	1.370	34.8	PB	✓	20	290	80	1160	4	100
1½	40	1.516	38.5	PB	✓	20	290	80	1160	5½	140
*1½	48	1.866	47.4	PB	✓	18	250	72	1040	6¾	170
2	50	2.012	51.1	PB	✓	15	215	60	870	8	200
2½	65	2.508	63.7	PB	✓	12	174	48	696	11¾	300
3	80	3.024	76.8	PB	✓	10	145	40	580	13¾	350

PB = Polypropylene braid

*The ¾", 1¾" and 1½" hose sizes are only suitable for use with PTFE lined sanitary clamp (or triclover) end fittings and PTFE lined I-Line end fittings.

** The maximum working pressure (MWP) of a hose assembly is limited to the lowest of the MWP's of either of the two end fittings, or of the hose itself as listed above. The MWP of the hose reduces as the operating temperature increases, consult Aflex Hose for guidance.

Technical specifications

	Polypropylene braid (PB) grade hoses
Nominal bore size	15 - 80 mm (0.5 - 3 in)
Actual bore size	13.1 - 76.8 mm (0.516 - 3.024 in)
Length	15 - 30 m (50 - 100 Ft)
Outside diameter	20.5 - 94.8 mm (0.8 - 3.732 in)
Max. operating pressure	35 bar (500 psi)
Burst pressure	40 - 140 bar (580 - 2,000 psi)
Certification and compliance	3.1 Traceability, 3-A 62-02, ATEX, EN16643:2016, EU Regulation 10/2011, FDA (materials), ISO 14001:2015, ISO 9001:2015, OHSAS 18001:2015, USP Class VI
Operating temperature	-30 °C to 100 °C (-22 °F to 212 °F)
Bend radius	38 - 350 mm (1.5 - 13.75 in)
Weight per unit length	0.22 - 3.02 kg/m (0.15 - 2.02 lb/ft)
Cover	None
Hose external protection options	Protection coil, Safeguard, Scuff rings
End fitting	3-A sanitary fittings, 90° elbow fittings, BSP and NPT threaded fittings, CAM and groove fittings, DIN 11851 fittings, JIC fittings, PTFE dip pipe fittings, Sanitary triclamp fittings, SMS and RJT fittings, Swivel flange fittings
Labelling options	Colour Coding, Standard
Vacuum resistance	Usable at vacuum -0.9 bar up to 200 °C (392 °F)

Materials of construction

	Polypropylene braid (PB) grade hoses
Helical wire	Stainless steel 316
Liner tube	PTFE
Braid	Polypropylene

Disclaimer: The information contained in this document is believed to be correct but Aflex Hose Limited accepts no liability for any errors it contains and reserves the right to alter specifications without notice. It is the user's responsibility to ensure product suitability for use within their application. Bioflex, Corroflon, Corroline, Hyperline FX, Pharmaline are registered trademarks of Aflex Hose Limited. A member of Watson-Marlow Fluid Technology Solutions, A Spirax-Sarco Engineering plc company.



wmfts.com/global
12 December 2025