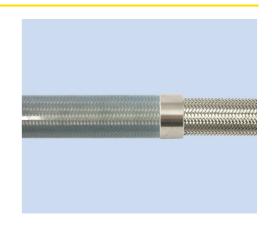
Silicone rubber covered (SI) grade hoses



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



Silicone rubber covered (SI) grade hoses performance

Nominal hose bore size		Actual bore size		Bioflex Ultra grade (braid and cover)	Helical wire	**Maximum working pressure of hose		Burst pressure		Minimum bend radius	
n	mm	in	mm			bar	psi	bar	psi	in	mm
-				то	-	5	72	20	290	1¾	35
³⁄ ₈	9.5	0.382	9.7	SS	-	80	1,160	500	7,200	3/4	19
				RC/BK/SI	-	80	1,160	500	7,200	3/4	19
	+			то	1	5	72	20	290	23/8	60
√ ₂				SS	1	70	1,015	400	5,800	1½	38
	15	0.516	13.1	PB	1	35	500	140	2,000	1½	38
				RC/BK/SI	V	70	1,015	400	5,800	1½	38
				то	1	5	72	20	2,90	21/2	64
¥ ₈				SS	1	65	940	380	5,500	1¾	45
	16	0.638	16.2	РВ	1	33	480	130	1,900	1¾	45
				RC/BK/SI	/	65	940	380	5,500	1¾	45
				то	/	5	72	20	290	3	75
				SS	/	60	870	300	4,350	2	50
¥ ₄	20	0.760	19.3	PB	V	30	440	120	1,750	2	50
				RC/BK/SI	·	60	870	300	4,350	2	50
	+			то	1	4	60	16	230	3½	90
* ½				SS	1	55	800	220	3,200	21/8	55
	22	0.870	22.1	PB	1	27.5	400	110	1,600	21/8	55
				RC/BK/SI	1	55	800	220	3,200	21/8	55
	+		1	то	1	4	60	16	230	41/4	110
1				SS	1	50	720	200	2,900	2¾	70
	25	1.012	25.7	PB	<i>J</i>	25	360	100	1,450	2¾	70
				RC/BK/SI	1	50	720	200	2,900	2¾	70
	+			то	1	3	43	12	175	5½	140
11/4				SS	1	45	650	180	2,600	4	100
	32	1.268	32.2	PB	1	23	330	90	1,300	4	100
				RC/BK/SI	1	45	650	180	2,600	4	100
	+			то	1	2	29	8	116	6½	160
				SS	1	40	580	160	2,320	4	100
* 1⅓	35	1.370	34.8	PB	1	20	290	80	1,160	4	100
				RC/BK/SI	1	40	580	160	2,320	4	100
				то	1	2	29	8	116	7	180
				SS	<i>y</i>	40	580	160	2,320	5½	140
/2	40	1.516	38.5	PB	1	20	290	80	1,160	5½	140
				RC/BK/SI	/	40	580	160	2,320	5½	140
	+			то	1	2	29	8	116	11	280
				SS	1	35	500	140	2,000	6%	170
11∕₂	48	1.866	47.4	PB	1	18	250	72	1,040	6%	170
				RC/BK/SI	1	35	500	140	2,000	6%	170
	+	+	+	то	1	2	29	8	116	12	300
		1	51.1	ss	,	30	430	120	1,750	8	200
2	50	2.012		PB	V	15	215	60	870	8	200
				RC/BK/SI	V	30	430	120	1,750	8	200
		+	+	SS	V	20	290	80	1160	111//s	300
2½	65	2.508	63.7	PB	V	12	174	48	696	111/8	300
		2.330	55.7	RC/BK/SI	V	20	290	80	1,160	111/8	300
			+	SS SS	V	15	218	60	870	13¾	350
3	80	3.024	76.8	PB	√	10	145	40	580	131/4	350
	130	3.024	/ 0.0		V	15		_		_	_
				RC/BK/SI	V	15	218	60	870	13¾	350

TO = Tube only, SS = Stainless steel braid, PB = Polypropylene braid, SS,RC/FP = Fireproof rubber cover, RC = Blue EPDM rubber cover, BK = Black EPDM rubber cover, SI = Silicone rubber cover, KYB = Kynar braid

Note: $2\frac{1}{2}$ " & 3" tube only (TO grade) cannot be ordered as an assembly.

^{*}The $\frac{1}{8}$ ", $\frac{1}{8}$ " and $\frac{1}{8}$ " 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

	Silicone rubber covered (SI) grade hoses				
Nominal bore size	9.5 - 80 mm				
Nominal bore size	0.375 - 3 in				
Actual bore size	9.7 - 76.8 mm				
Actual bore size	0.382 - 3.024 in				
Max Length	15 - 30 m				
Outside diameter	15.5 - 92.8 mm				
Outside diameter	0.61 - 3.654 in				
Max. operating pressure	80 bar				
Max. operating pressure	1160 psi				
Burst pressure	60 - 500 bar				
Burst pressure	870 - 7,200 psi				
Certification	(EU) 10/2011, 3.1 Traceability, 3-A 62-02, ATEX, EN16643:2016, FDA (materials), ISO 14001:2015, ISO 9001:2015, OHSAS 18001:2015, USP Class VI				
Operating temperature range	-73 to 240 °C				
Operating temperature range	-100 to 400 °F				
Bend radius	19 - 350 mm				
Bend radius	0.75 - 13.75 in				
Braid	Stainless steel				
Cover	Silicone rubber				
Hose external protection options	Protection coil, Safegard, 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	Color coding, Standard, Streamline tagging				
Vacuum resistance	Usable at vacuum -0.9 bar up to 200 °C (392 °F)				

Note: Max length is dependant on bore size

Materials of construction

	Silicone rubber covered (SI) grade hoses			
Helical wire	Stainless steel 316			
Liner tube	PTFE			

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 users' 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 Group, A Spirax-Sarco Engineering plc company.

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