



Silicone hose systems designed
for precision and performance

DS011

Silicone turbocharger hose with woven meta-aramid reinforcement

For more information or data, please visit www.silflex.com or contact us by phone: +44 (0) 1443 238 464 or email: hosesolutions@silflex.com



General Use

Silflex turbocharger hose has been specifically designed for the demanding requirements of truck, bus and rail applications. It is primarily designed for use in turbocharger systems. Standard aramid reinforced hoses are primarily designed for use in turbocharger/intercooler systems with hot air. Hoses can also be made with an oil resistant fluorosilicone lining if required. They can also be used in many other applications where the properties of silicone are preferable to those of other rubbers, or where a flexible joint is required between rigid pipes

Working Temperature Range: -50°C to +250°C.

Working Pressures: Dependant on hose construction and customer requirements.

Construction

Plies of silicone, reinforced with Woven Aramid fabric. The number of plies will vary depending on the working pressure, bore size, & required wall thickness. A galvanised spring steel wire helix may also be added for high or low-pressure applications, or where extra flexibility is required

Material Specifications

Silicone Rubber Compound

Colour	Various
Hardness (IHRD)	65 ± 5
Specific Gravity (g/cm ³)	1.18 ± 0.05
Tensile Strength (Mpa)	8.6
Elongation at Break (%)	308
Tear Strength (kN/m)	13

The above physical properties refer to a test sheet press cured for 5mins at 115°C, and post cured for 4 hrs @ 200°C. Tested to the relevant BS903 standard.

Fluid resistance figures can be supplied on request.

Woven Meta-Aramid Fabric

Description	Fine Weave (Plain)
Yarn Type	100% Woven Spun Meta Aramid
Finish	Scour & Silane Treated
Thickness	0.42mm ±0.03mm
Tensile (N/50mm) BS EN 13934	700 Min
Extension at Break (%) BS EN 13934	40 Max

Spring Steel Wire Helix (where applicable)

Constructed from galvanised spring steel wire (to BS5216 HS3) at a spacing of 2-4 tpi and buried between the plies.

Certificates of Conformity

Certificates of conformity can be supplied with deliveries if required.

3 Ply = wall 3.0mm,

4 Ply = wall 4.0mm

I.D. (mm)	I.D. (inches)	Maximum Length	3 Ply		4 Ply	
			Silflex Reference	Maximum Pressure (Bar)	Silflex Reference	Maximum Pressure (bar)
6.5	1/4"	3m	LT3/6.5/1000	19.5	LT4/6.5/1000	27.3
8	5/16"	3m	LT3/8/1000	16.3	LT4/8/1000	22.7
9.5	3/8"	3m	LT3/9.5/1000	14.1	LT4/9.5/1000	19.4
11	7/16"	1m	LT3/11/1000	12.4	LT4/11/1000	17.0
12.7	1/2"	4m	LT3/12.7/1000	10.7	LT4/12.7/1000	14.6
15.8	5/8"	3m	LT3/16/1000	9.0	LT4/16/1000	12.1
18		3m	LT3/18/1000	8.1	LT4/18/1000	10.9
19	3/4"	4m	LT3/19/1000	7.7	LT4/19/1000	10.4
20		3m	LT3/20/1000	7.4	LT4/20/1000	9.9
22	7/8"	4m	LT3/22/1000	6.8	LT4/22/1000	9.1
25	1"	4m	LT3/25/1000	6.1	LT4/25/1000	8.1
28.5	1 1/8"	4m	LT3/28/1000	5.5	LT4/28/1000	7.3
30		3m	LT3/30/1000	5.2	LT4/30/1000	6.9
32	1 1/4"	4m	LT3/32/1000	4.9	LT4/32/1000	6.5
35	1 3/8"	4m	LT3/35/1000	4.6	LT4/35/1000	6.0
38	1 1/2"	4m	LT3/38/1000	4.2	LT4/38/1000	5.6
40		1m	LT3/40/1000	4.1	LT4/40/1000	5.3
41	1 5/8"	3m	LT3/41/1000	4.0	LT4/41/1000	5.2
44.5	1 3/4"	4m	LT3/45/1000	3.7	LT4/45/1000	4.8
48	1 7/8"	3m	LT3/48/1000	3.5	LT4/48/1000	4.5
50		1m	LT3/50/1000	3.4	LT4/50/1000	4.4
50.8	2"	4m	LT3/51/1000	3.3	LT4/51/1000	4.3
54	2 1/8"	3m	LT3/54/1000	3.1	LT4/54/1000	4.1
57	2 1/4"	3m	LT3/57/1000	3.0	LT4/57/1000	3.9
60	2 3/8"	3m	LT3/60/1000	2.9	LT4/60/1000	3.7
63.5	2 1/2"	4m	LT3/63/1000	2.7	LT4/63/1000	3.5
65	2 9/16"	1m	LT3/65/1000	2.7	LT4/65/1000	3.4
67	2 5/8"	1m	LT3/67/1000	2.6	LT4/67/1000	3.3
70	2 3/4"	3m	LT3/70/1000	2.5	LT4/70/1000	3.2
76	3"	3m	LT3/76/1000	2.3	LT4/76/1000	3.0
80	3 1/8"	1m	LT3/80/1000	2.2	LT4/80/1000	2.9
88.9	3 1/2"	1.5m	LT3/89/1000	2.0	LT4/89/1000	2.6
90		1m	LT3/90/1000	2.0	LT4/90/1000	2.6
95	3 3/4"	1m	LT3/95/1000	1.9	LT4/95/1000	2.4
102	4"	4m	LT3/102/1000	1.8	LT4/102/1000	2.3
114	4 1/2"	1m	LT3/114/1000	1.6	LT4/114/1000	2.1
127	5"	1m	LT3/127/1000	1.5	LT4/127/1000	1.9
152	6"	3m	LT3/152/1000	1.3	LT4/152/1000	1.6

