

Silicone hoses for food and pharmaceutical applications



★★★★★ SILICONE STAR D / SD / HD

Platinum-vulcanised silicone pressure hose for food and pharmaceutical applications

Inner layer: Translucent silicone
Reinforcement: - 4 layers of polyester fabric
 - AISI 316 stainless steel spiral (SD and HD versions only)
Outer layer: Translucent silicone
Operating temperature: -60°C to +180°C

High-quality silicone hose vulcanised with platinum. Hose inner layer made in the *cleanroom*, extruded (DN10, 63, 76, 102-moulded - *handbuilt*). Available in three constructions: **SILICONE STAR D** - discharge hose, without steel spiral, **SILICONE STAR SD** - suction/discharge hose, with steel spiral and **SILICONE STAR HD** - HEAVY DUTY suction/discharge hose, with thickened wall with additional silicone layer, for heavier use. All versions are reinforced with 4 longitudinal layers of high-strength, bright white polyester fabric. SILICONE STAR hose is characterised by a very smooth, shiny inner and outer surface, preventing product particles and bacterial growth and facilitating internal and external cleaning of the hose.

Hose widely used in the food, cosmetic and pharmaceutical industries.

Internal and external layer complies with FDA 21 CFR 177.2600, USP XXVI Class VI, BfR XV, BfR LII, France Journal Officiel - Brochure 1227, European Pharmacopoeia 3.1.9, ISO 10993-5, -6, -10, -11 and Directives 1935/2004/EC, 2023/2006/EC (GMP) and ResAP (2004) 5, tested with simulation fluids B and D1 (for hydrated, acidic and dairy products). Compliant with the RoHS material directive 2011/65/EU and REACH regulation 1907/2006/EU - free of hazardous and prohibited substances. Steam sterilisation max. +135°C at 3.5 bar for max. 90 min. In order not to impair the mechanical properties of the hose, sterilisation should not be repeated earlier than one hour after the last cleaning.

At operating temperatures above +100°C, the maximum operating pressure shown in the tables must be reduced by 1% for every 1°C increase in temperature. Pressure safety factor 4:1.

index	internal diameter [mm] ± 0.3 mm	external diameter* [mm]	wall thickness* [mm]	operating pressure* * 20°C [bar]	Bursting pressure 20°C [bar]	vacuum [bar]	bend radius [mm]	mass [kg/m]	max. length [m]
SILICONE STAR D									
SO-SILICONESTAR-D-10	10,0	19,8	4,9	9	36	-	50***	0,303	4
SO-SILICONESTAR-D-13	12,7	22,5	4,9	8,5	34	-	50***	0,325	4
SO-SILICONESTAR-D-19	19,05	28,85	4,9	8	32	-	50***	0,432	4
SO-SILICONESTAR-D-25	25,4	35,2	4,9	7,5	30	-	75***	0,665	4
SO-SILICONESTAR-D-32	31,8	41,6	4,9	7,5	30	-	96***	0,725	4
SO-SILICONESTAR-D-38	38,1	47,9	4,9	6,75	27	-	110***	0,805	4
SO-SILICONESTAR-D-51	50,8	60,6	4,9	6,25	25	-	170***	1,050	4
SO-SILICONESTAR-D-63	63,0	72,8	4,9	5	20	-	210***	~1,26	4
SO-SILICONESTAR-D-76	76,0	85,8	4,9	4,5	18	-	250***	~1,51	4
SO-SILICONESTAR-D-102	102,0	111,8	4,9	4	16	-	300***	~2,00	4
SILICONE STAR SD									
SO-SILICONESTAR-SD-10	10,0	21,2	5,6	21,5	86	0,97	50	0,338	4
SO-SILICONESTAR-SD-13	12,7	23,9	5,6	20,25	81	0,97	50	0,400	4
SO-SILICONESTAR-SD-19	19,05	30,25	5,6	15,75	63	0,97	50	0,540	4
SO-SILICONESTAR-SD-25	25,4	36,6	5,6	15,75	63	0,97	75	0,671	4
SO-SILICONESTAR-SD-32	31,8	43,0	5,6	20,25	81	0,97	96	0,818	4
SO-SILICONESTAR-SD-38	38,1	49,3	5,6	12,75	51	0,97	110	1,100	4
SO-SILICONESTAR-SD-51	50,8	62,0	5,6	11,5	46	0,97	170	1,454	4
SO-SILICONESTAR-SD-63	63,0	74,2	5,6	14,25	57	0,97	210	~1,70	4
SO-SILICONESTAR-SD-76	76,0	87,2	5,6	8,25	33	0,97	250	~2,03	4
SO-SILICONESTAR-SD-102	102,0	113,2	5,6	6,25	25	0,97	300	~2,68	4

* - wall thickness tolerance: +/- 0.5 mm (type D), +/- 0.6 mm (type SD); resulting outer diameter.

** - working pressure determined in relation to burst pressure with a safety factor of 4:1

*** - for a hose without helix (SILICONE STAR D) theoretical minimum bend radius at internal pressure in the hose (≥ 1 bar)