

INDUSTRIAL HOSES - silicone

SILICONES - synthetic polymers that consist of macro-molecular silicone organic compounds. Due to their unique physical and chemical properties they are widely used in industry as lubricants, paste, emulsion, raw rubber, silicone resins, etc. Silicone rubber can be extruded into hoses, bands, gaskets, panels or molded into various shapes, profiles etc. It is common in pharmaceutical, biotechnological, food, machine-building, automotive, construction, power industry, etc.

Silicone rubber characteristics:

- resistance to temperature,
- physiological inertness- silicone rubber is biocompatible and resistant to bodily fluids
- flexibility at low temperature,
- good resistance to oxidation,
- anti-adhesive and hydrophobic surface,
- resistance to fire - during burning a layer of silica is formed, which prevents further spreading of fire,
- excellent resistance to infrared radiation, UV and weather conditions,
- resistance to low pressure steam up to WP = 3 bar (high pressure steam causes partial degradation of silicone),
- lack of resistance to concentrated acids, alkalis, petrochemical products with aromatic content.

As a standard, silicone-based hoses are made using one of the technologies: hydrogen peroxide cure system or platinum cure system. Some highly advanced applications require hoses cured on platinum rods. In order to produce hoses with the peroxide cure system, the hydrogen peroxide catalyst must be added to silicone elastomer, then two components are mixed to obtain smooth, homogenous mixture. Using the platinum cure system demands mixing two equal silicone elastomer parts of the same weight. One of them contains platinum catalyst and the other contains crosslinker. Next, both substances are thoroughly mixed to achieve smooth mixture (without air bubbles or undesirable consistency of gel).

Each of the systems has both advantages and disadvantages.

Peroxide cure system:

advantages:

- longer service life of hoses operating in peristaltic pumps,
- reduced brittleness compared to platinum cure system. disadvantages:
- impurities stick easily,
- may produce acidic extracts.

Platinum cure system:

advantages:

- better visual control of the hose content,
- less prone to flaws resulting from a production process (lack of air bubbles, smooth silicone mixture, etc.),
- fewer organic extractables. disadvantages:
- shorter service life of hoses operating in peristaltic pumps.

Depending on application, the hoses must often comply to such standards as:

- US Pharmacopeia Class VI (approval for the pharmaceutical industry),
- FDA (approval for the pharmaceutical and food industry),
- BfR (German equivalent of FDA),
- European Pharmacopoeia (IV Ed., EP. 3.1.9) (approval for the pharmaceutical industry),
- ISO 10993 (biocompatibility certificate used in the medical, biopharmaceutical and pharmaceutical industry),
- 3-A Sanitary Standards (approval for the pharmaceutical and food industry),
- NSF-51 (approval for the food industry).

Additionally, silicone hoses designed for biotechnology must be validated for:

- extractability,
- pyrogenic properties,
- cytotoxicity,
- hemolytic properties.


INDUSTRIAL HOSES - silicone


Automotive hoses and hose connectors



Material: Silicone rubber
Reinforcement: Textile braids (polyester as a standard, Nomex® or fibre glass optionally)
Working temp.: From -50°C up to +170°C (polyester)
 From -50°C up to +250°C (Nomex®)
 From -50°C up to +330°C (fibre glass)

Silicone hoses and hose connectors designed for cooling or heating systems in vehicles (water, cooling liquids, air or air with oil mist). Hardness (standard version) about 65° Shore (A), density about 1.26 g/cm³. External layer in blue as a standard (red and black are also available). Hoses meet the requirements of SAE J20R1 (SAE J20R2 - with steel wire helix). Because of a steel wire helix, SUPER FLEX hoses are resistant to kinking and vacuum. External layer is smooth for diameters up to 28 mm, and rectangularly corrugated for diameters above 28mm. Safety factor 3:1

Hose with polyester braid reinforcement, L 1000 mm*			
			HJ
code	I.D. [mm]	wall thickness [mm]	working pressure [mm]
VP-ML-006	6	4	14.4
VP-ML-008	8	4	12.9
VP-ML-010	10	4	11.5
VP-ML-013	13	4	9.8
VP-ML-016	16	4	8
VP-ML-019	19	4	6.9
VP-ML-022	22	4	8.6
VP-ML-025	25	4	6.9
VP-ML-028	28	4	6.9
VP-ML-032	32	4	6.9
VP-ML-035	35	4	4.6
VP-ML-038	38	4	4.6
VP-ML-041	41	4	5.2
VP-ML-044	44	4	5.2
VP-ML-051	51	4	5.1
VP-ML-054	54	5	6.3
VP-ML-057	57	5	5.2
VP-ML-060	60	5	5.7
VP-ML-063	63	5	5.5
VP-ML-070	70	5	4.6
VP-ML-076	76	5	4
VP-ML-080	80	5	4
VP-ML-083	83	5	4
VP-ML-089	89	5	3.4
VP-ML-095	95	5	3.2
VP-ML-102	102	6	3.4
VP-ML-127	127	6	2
VP-ML-152	152	6	1.6

SUPER FLEX - polyester braid and wire helix. L 1000 mm*			
			CH
code	I.D. [mm]	wall thickness [mm]	working pressure [mm]
VP-CH-013	13	4	9.8
VP-CH-016	16	5	8
VP-CH-019	19	5	6.9
VP-CH-022	22	5	8.6
VP-CH-025	25	5	6.9
VP-CH-028	28	4	6.9
VP-CH-032	32	5	6.9
VP-CH-035	35	4	4.6
VP-CH-038	38	4	4.6
VP-CH-051	51	5	5.1
VP-CH-063	63	6	5.5

* - also available in lengths of 2000, 3000, 4000 mm



Assembling clamps: see chapter „INDUSTRIAL FITTINGS - clips, clamps, ferrules“

INDUSTRIAL HOSES - silicone

Automotive hoses and hose connectors

Elbow with polyester braid reinforcement. length arms 102 mm



E90



E45

code (90° elbow)	code (45° elbow)	I.D. [mm]	wall thickness [mm]	working pressure [mm]
VP-E90-008	VP-E45-008	8	4	12.9
VP-E90-010	VP-E45-010	10	4	10.9
VP-E90-013	VP-E45-013	13	4	8
VP-E90-016	VP-E45-016	16	4	6.9
VP-E90-019	VP-E45-019	19	4	6.3
VP-E90-022	VP-E45-022	22	4	8
VP-E90-025	VP-E45-025	25	4	6.3
VP-E90-028	VP-E45-028	28	4	5.2
VP-E90-032	VP-E45-032	32	4	6.1
VP-E90-035	VP-E45-035	35	4	4.6
VP-E90-038	VP-E45-038	38	4	4.9
VP-E90-044	VP-E45-044	44	4	4.6
VP-E90-051	VP-E45-051	51	5	5.2
VP-E90-054	VP-E45-054	54	5	5.2
VP-E90-057	VP-E45-057	57	5	5.2
VP-E90-060	VP-E45-060	60	5	5.7
VP-E90-063	VP-E45-063	63	5	5.5
VP-E90-070	VP-E45-070	70	5	4.6
VP-E90-076	VP-E45-076	76	5	4
VP-E90-080	VP-E45-080	80	5	4
VP-E90-083	VP-E45-083	83	5	4
VP-E90-089*	VP-E45-089*	89	5	3.4
VP-E90-102*	VP-E45-102*	102	6	3

* - length arms 125 mm

Straight reducer with polyester braid. length arms 102 mm



SR

code	I.D. [mm]	wall thickness [mm]	working pressure [mm]
VP-SR-019-013	19 x 13	4	6.9
VP-SR-019-016	19 x 16	4	6.9
VP-SR-022-016	22 x 16	4	8.6
VP-SR-025-016	25 x 16	4	6.9
VP-SR-025-019	25 x 19	4	6.9
VP-SR-032-019	32 x 19	4	6.9
VP-SR-032-025	32 x 25	4	6.9
VP-SR-035-025	35 x 25	4	6.3
VP-SR-038-025	38 x 25	4	4.6
VP-SR-038-032	38 x 32	4	4.6
VP-SR-038-035	38 x 35	4	4.6
VP-SR-051-038	51 x 38	5	5.1
VP-SR-051-044	51 x 44	5	5.1
VP-SR-054-051	54 x 51	5	5.1
VP-SR-057-051	57 x 51	5	5.1
VP-SR-057-054	57 x 54	5	5.1
VP-SR-060-051	60 x 51	5	5.8
VP-SR-063-051	63 x 51	5	5.5
VP-SR-063-060	63 x 60	5	5.5
VP-SR-070-051	70 x 51	5	4.6
VP-SR-070-060	70 x 60	5	4.6
VP-SR-070-063	70 x 63	5	4.6
VP-SR-076-051	76 x 51	5	4
VP-SR-076-060	76 x 60	5	4
VP-SR-076-063	76 x 63	5	4
VP-SR-076-070	76 x 70	5	4
VP-SR-080-070	80 x 70	5	4
VP-SR-080-076	80 x 76	5	4
VP-SR-083-076	83 x 76	5	4
VP-SR-089-070	89 x 70	5	3.4
VP-SR-089-076	89 x 76	5	3.4
VP-SR-102-076	102 x 76	5	3
VP-SR-102-089	102 x 89	5	3

Aluminium hose joiner



HJ

code	I.D. [mm]	wall thickness [mm]	length [mm]
VP-HJ-016-100	16	1.4	100
VP-HJ-019-100	19	1.25	100
VP-HJ-022-100	22	2	100
VP-HJ-025-100	25	2	100
VP-HJ-028-100	28	1.8	100
VP-HJ-032-100	32	1.5	100
VP-HJ-035-100	35	2	100
VP-HJ-038-100	38	1.6	100
VP-HJ-051-100	51	1.6	100
VP-HJ-057-100	57	1.6	100
VP-HJ-060-100	60	1.6	100
VP-HJ-063-100	63	1.6	100
VP-HJ-070-100	70	1.6	100
VP-HJ-076-100	76	1.6	100
VP-HJ-080-100	80	1.6	100
VP-HJ-089-100	89	2	100
VP-HJ-102-100	102	2	100

Hump hose with polyester braid. length arms 100 mm



HH

code	I.D. [mm]	wall thickness [mm]	working pressure [mm]
VP-HH-051	51	5	5.1
VP-HH-060	60	5	5.7
VP-HH-063	63	5	5.5
VP-HH-070	70	5	4.6
VP-HH-076	76	5	4
VP-HH-080	80	5	4
VP-HH-089	89	5	3.4
VP-HH-102	102	5	3.4

INDUSTRIAL HOSES - silicone

Automotive hoses and hose connectors

Elbow with polyester braid reinforcement. length arms 102 mm



code (120° elbow)	code (135° elbow)	I.D. [mm]	wall thickness [mm]	working pressure [mm]
-	VP-E135-008	8	4	12.9
-	VP-E135-010	10	4	10.9
-	VP-E135-013	13	4	8
-	VP-E135-016	16	4	6.9
VP-E120-019	VP-E135-019	19	4	6.3
-	VP-E135-022	22	4	8
VP-E120-025	VP-E135-025	25	4	6.3
-	VP-E135-028	28	4	5.2
VP-E120-032	VP-E135-032	32	4	5.7
VP-E120-035	VP-E135-035	35	4	6.1
VP-E120-038	VP-E135-038	38	4	4.6
-	VP-E135-044	44	4	4.9
VP-E120-051	VP-E135-051	51	5	5.1
-	VP-E135-054	54	5	4.6
-	VP-E135-057	57	5	4.7
VP-E120-060	VP-E135-060	60	5	5.2
VP-E120-063	VP-E135-063	63	5	5.2
VP-E120-070	VP-E135-070	70	5	5.7
VP-E120-076	VP-E135-076	76	5	5.5
VP-E120-102*	-	102	6	3

* - length arms 125 mm

Elbow with polyester braid reinforcement. length arms 102 mm



code	I.D. [mm]	wall thickness [mm]	working pressure [mm]
VP-E180-008	8	4	12.9
VP-E180-010	10	4	10.9
VP-E180-013	13	4	8
VP-E180-016	16	4	6.9
VP-E180-019	19	4	6.3
VP-E180-025	25	4	6.3
VP-E180-032	32	4	6.1
VP-E180-035	35	4	4.6
VP-E180-038	38	4	4.9
VP-E180-051	51	5	5.2
VP-E180-063	63	5	5.2
VP-E180-076	76	5	4

Elbow reducer with polyester braid. length arms 102 mm



code	I.D. [mm]	wall thickness [mm]	working pressure [mm]
VP-ER-019-013	19 x 13	4	6.3
VP-ER-019-016	19 x 16	4	6.3
VP-ER-022-016	22 x 16	4	8
VP-ER-022-019	22 x 19	4	8
VP-ER-025-019	25 x 19	4	6.3
VP-ER-032-019	32 x 19	4	5.2
VP-ER-032-025	32 x 25	4	6.1
VP-ER-035-022	35 x 22	4	5.2
VP-ER-035-025	35 x 25	4	4.6
VP-ER-035-032	35 x 32	4	4.6
VP-ER-038-025	38 x 25	4	4.9
VP-ER-038-032	38 x 32	4	4.9
VP-ER-038-035	38 x 35	4	4.9
VP-ER-051-044	51 x 44	5	5.2
VP-ER-057-054	57 x 54	5	5.1
VP-ER-060-051	60 x 51	5	5.1
VP-ER-063-051	63 x 51	5	5.1
VP-ER-063-054	63 x 54	5	5.1
VP-ER-063-057	63 x 57	5	5.1
VP-ER-070-051	70 x 51	5	4.6
VP-ER-070-060	70 x 60	5	4.6
VP-ER-070-063	70 x 63	5	4.6
VP-ER-076-051	76 x 51	5	4
VP-ER-076-060	76 x 60	5	4
VP-ER-076-063	76 x 63	5	4
VP-ER-076-070	76 x 70	5	4
VP-ER-089-076	89 x 76	5	3.4
VP-ER-102-076	102 x 76	6	3
VP-ER-102-089	102 x 89	6	3

Hump hose with Nomex braid reinforcement



code	I.D. [mm]	wall thickness [mm]	length [mm]
VP-BH-051	51	5	150
VP-BH-060	60	5	150
VP-BH-063	63	5	150
VP-BH-070	70	5	150
VP-BH-076	76	5	150
VP-BH-080	80	5	150
VP-BH-089	89	5	150
VP-BH-102	102	5	150
VP-BH-127	127	5	150
VP-BH-152	152	5	150

INDUSTRIAL HOSES - silicone

Automotive hoses and hose connectors



AUTO SILCAR RED®

Internal layer: Red silicone
Reinforcement: Synthetic braid
External layer: Red silicone
Working temp.: From -50°C up to +180°C
 (with peaks up to +200°C)

Delivery hose designed to transfer hot air or hot water mixed with anti-freeze liquids. Widely used in cooling systems of vehicles where resistance to high temperature and oil are required.

code	I.D. [mm]	O.D. [mm]	working pressure [bar]	bursting pressure [bar]	standard length [m]
IV-SILCAR-015	15	22	3	9	40
IV-SILCAR-022	22	29	3	9	40
IV-SILCAR-025	25	32	3	9	40
IV-SILCAR-028	28	35	3	9	40
IV-SILCAR-032	32	39	3	9	40
IV-SILCAR-038	38	45	3	9	40
IV-SILCAR-051	51	58	3	9	40
IV-SILCAR-055	55	64	3	9	40
IV-SILCAR-105	105	114	3	9	10
IV-SILCAR-110	110	121	3	9	10
IV-SILCAR-305	305	319	3	9	10
IV-SILCAR-320	320	337	3	9	10



AUTO SILCAR RED / LL®

Internal layer: Red silicone
Reinforcement: Synthetic braid, steel wire helix
External layer: Red silicone
Working temp.: From -50°C up to +180°C
 (with peaks up to +200°C)

Delivery hose designed to transfer hot air or hot water mixed with anti-freeze liquids. Widely used in cooling systems of vehicles where resistance to high temperature and oil are required.

code	I.D. [mm]	O.D. [mm]	working pressure [bar]	bursting pressure [bar]	vacuum [bar]	bending radius [mm]	standard length [m]
IV-SILCAR/LL-013	13	23.5	3	9	0.9	80	40
IV-SILCAR/LL-025	25	35.5	3	9	0.9	150	40
IV-SILCAR/LL-038	38	48.5	3	9	0.9	230	40
IV-SILCAR/LL-051	51	61.5	3	9	0.9	300	40

INDUSTRIAL HOSES - silicone

Automotive hoses and hose connectors



AUTO SILCAR RED / LO®

Internal layer: Red silicone
Reinforcement: Synthetic braid, steel wire helix
External layer: Red, corrugated silicone
Working temp.: From -50°C up to +180°C
 (with peaks up to +200°C)

Suction-delivery hose designed to transfer hot air or hot water mixed with anti-freeze liquids. Widely used in cooling systems of vehicles where resistance to high temperature and oil are required.

code	I.D. [mm]	working pressure [bar]	bursting pressure [bar]	standard length [m]
IV-SILCAR-LO-030	30	3	9	40
IV-SILCAR-LO-040	40	3	9	40
IV-SILCAR-LO-051	51	3	9	40
IV-SILCAR-LO-063	63.5	3	9	10
IV-SILCAR-LO-076	76	3	9	10
IV-SILCAR-LO-100	100	3	9	10
IV-SILCAR-LO-110	110	3	9	10
IV-SILCAR-LO-305	305	3	9	10



RADIUSIL / BLUE

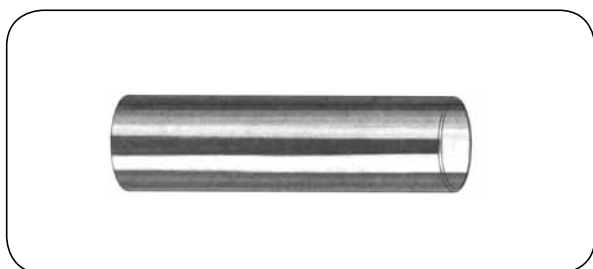
Internal layer: Blue silicone
Reinforcement: Textile braid
External layer: Blue silicone
Working temp.: From -60°C up to +180°C

Top grade silicone hose widely used in industry (e.g. cooling systems, hot air transfer). Excellent resistance to mineral oil fumes. Hardness: 65° Shore (A).

code	I.D. [mm]	O.D. [mm]	working pressure [bar]	weight [kg/m]	standard length [m]
MT-RADIUSIL-B-010	10	18	12	0.23	20
MT-RADIUSIL-B-013	13	21	10	0.28	20
MT-RADIUSIL-B-016	16	24	9	0.35	20
MT-RADIUSIL-B-019	19	27	8	0.37	20
MT-RADIUSIL-B-025	25	33	6	0.47	20
MT-RADIUSIL-B-032	32	40	5	0.58	20
MT-RADIUSIL-B-038	38	46	4	0.68	20
MT-RADIUSIL-B-040	40	48	4	0.71	20
MT-RADIUSIL-B-050	50	58	3	0.87	20
MT-RADIUSIL-B-063	63.5	73.5	4	1.44	20
MT-RADIUSIL-B-075	75	85	4	1.64	20
MT-RADIUSIL-B-100	100	110	2.5	2.20	20

INDUSTRIAL HOSES - silicone

General purpose hoses



VERSITEC

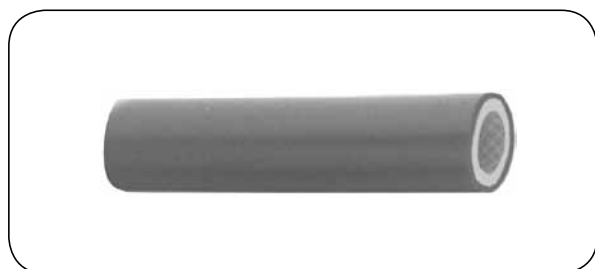
Material:	Transparent silicone
Hardness:	57° Shore (A)
Density:	1.15 g/cm ³
Working temp.:	From -50°C up to +200°C (with peaks up to +220°C)

Hose made of peroxide cured silicone. Resistant to UV radiation, oxygen and ozone. Widely used in industry and household appliances. Sterilization with steam, ethylene oxide or radiation. Conforms to FDA and BfR standards.

code	I.D. [mm]	O.D. [mm]	wall thickness [mm]	working pressure [bar]	bending radius [mm]	standard length [m]
VE-761800	0.5	2.5	1	1.3	1	50
VE-761802	1	3	1	1.1	2	50
VE-761804	1.5	3	0.75	0.72	4	50
VE-761806	2	4	1	0.6	7	50
VE-761807	2	5.5	1.75	0.81	3	50
VE-761809	2	6	2	0.9	3	50
VE-761812	3	5	1	0.55	8	50
VE-761814	3	6	1.5	0.64	7	50
VE-761816	3	7	2	0.75	5	50
VE-761819	4	6	1	0.4	15	50
VE-761821	4	7	1.5	0.54	10	25
VE-761823	4	8	2	0.5	8	25
VE-761825	4	10	3	0.75	6	25
VE-761828	5	7	1	0.4	25	25
VE-761830	5	8	1.5	0.45	16	25
VE-761832	5	9	2	0.6	14	25
VE-761834	5	10	2.5	0.64	11	25
VE-761837	6	8	1	0.3	36	25
VE-761839	6	9	1.5	0.37	26	25
VE-761841	6	10	2	0.47	19	25
VE-761843	6	12	3	0.64	12	25
VE-761846	7	10	1.5	0.31	32	25
VE-761848	7	11	2	0.39	23	25
VE-761850	7	12	2.5	0.51	18	25
VE-761852	7	13	3	0.55	15	25
VE-761855	8	11	1.5	0.31	35	25
VE-761857	8	12	2	0.35	28	25
VE-761859	8	14	3	0.5	18	25
VE-761860	8	16	4	0.61	14	25
VE-761862	9	13	2	0.37	39	25
VE-761864	10	14	2	0.36	46	25
VE-761866	10	16	3	0.45	30	25
VE-761868	10	18	4	0.5	26	25
VE-761871	12	17	2.5	0.28	47	25
VE-761874	15	21	3	0.31	70	25
VE-761877	18	24	3	0.26	87	10
VE-761880	20	27	3.5	0.29	102	10
VE-761883	25	35	5	0.28	111	10
VE-761886	30	40	5	0.26	204	10
VE-761888	40	50	5	0.25	270	10

INDUSTRIAL HOSES - silicone

General purpose hoses



REDSIL

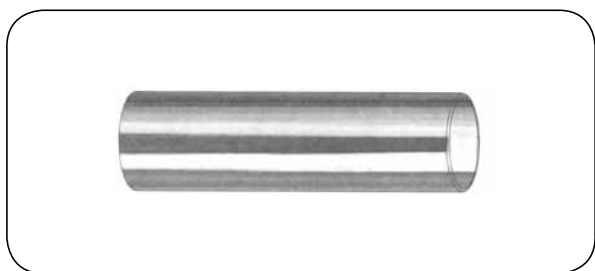
Internal layer: Transparent silicone
Reinforcement: PET braid
External layer: Red silicone
Hardness: 70° ± 5° Shore (A)
Working temp.: From -60°C up to +180°C

Delivery hose widely used in industry (e.g. in cooling systems and hot air transfer). Meets the requirements of FDA 21 CFR 177.2600 and BfR XV.

code	I.D. [mm]	wall thickness [mm]	bursting press. 20°C [bar]	bursting press. 95°C [bar]	bursting press. 130°C [bar]	standard length [m]
TS-REDSIL-03X2,5	3	2.5	82	76	40	25
TS-REDSIL-04X2,5	4	2.5	69	59	35	25
TS-REDSIL-05X3,0	5	3	57	41	30	25
TS-REDSIL-06X3,0	6	3	56	39	28	25
TS-REDSIL-07X3,2	7	3.2	55	37	27	25
TS-REDSIL-07X3,5	7	3.5	55	37	27	25
TS-REDSIL-08X3,2	8	3.2	49	34	26	25
TS-REDSIL-08X3,5	8	3.5	49	34	26	25
TS-REDSIL-09X3,5	9	3.5	47	33	25	25
TS-REDSIL-09X3,8	9	3.8	47	33	25	25
TS-REDSIL-10X3,5	10	3.5	44	32	24	25
TS-REDSIL-10X4,0	10	4	44	32	24	25
TS-REDSIL-11X3,5	11	3.5	42	31	23	25
TS-REDSIL-11X4,0	11	4	42	31	23	25
TS-REDSIL-12X3,5	12	3.5	39	29	22	25
TS-REDSIL-12X4,0	12	4	39	29	22	25
TS-REDSIL-13X3,5	13	3.5	38	28	22	25
TS-REDSIL-13X4,0	13	4	38	28	22	25
TS-REDSIL-14X4,0	14	4	37	28	21	25
TS-REDSIL-14X4,5	14	4.5	37	28	21	25
TS-REDSIL-15X4,0	15	4	36	27	21	25
TS-REDSIL-15X4,5	15	4.5	36	27	21	25
TS-REDSIL-16X4,0	16	4	35	26	21	25
TS-REDSIL-16X4,5	16	4.5	35	26	21	25
TS-REDSIL-17X4,0	17	4	34	25	20	25
TS-REDSIL-17X4,5	17	4.5	34	25	20	25
TS-REDSIL-18X4,0	18	4	33	24	20	25
TS-REDSIL-18X4,5	18	4.5	33	24	20	25
TS-REDSIL-19X4,5	19	4.5	32	24	20	25
TS-REDSIL-19X5,0	19	5	32	24	20	25
TS-REDSIL-20X5,0	20	5	31	23	19	25
TS-REDSIL-20X5,5	20	5.5	31	23	19	25

INDUSTRIAL HOSES - silicone

Food hoses



VERSILIC®

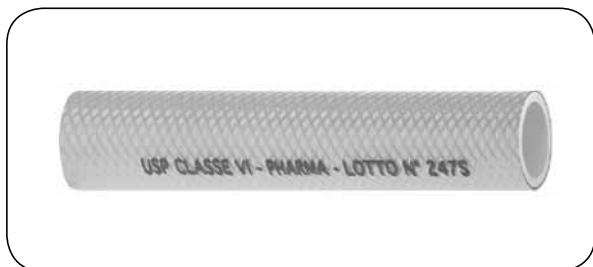
Material: Transparent silicone
Hardness: 62° +/-5° Shore (A)
Density: 1.15 +/-0.03 g/cm³
Working temp.: From -50°C up to +200°C
 (with peaks up to +230°C)

Flexible, biologically inert hose made of peroxide cured silicone. Retains its chemical, electrical and mechanical properties at temperature up to +200°C. Sterilization with steam, ethylene oxide or radiation. Meets the requirements of FDA, BfR, USP Class VI, ISO 10993 quality standards(toxicity, irritation, cytotoxicity, hemolysis).

code	I.D. [mm]	O.D. [mm]	wall thickness [mm]	working pressure [bar]	bending radius [mm]	standard length [m]
VE-760010	0.5	2.5	1	1.3	1	50
VE-760070	1	3	1	1.1	2	50
VE-760110	1.5	3	0.75	0.72	3	50
VE-760160	2	4	1	0.6	4	50
VE-760170	2	5.5	1.75	0.81	3	50
VE-760180	2	6	2	0.9	2	50
VE-760210	3	5	1	0.55	7	50
VE-760220	3	5.5	1.25	0.6	6	50
VE-760230	3	6	1.5	0.9	6	50
VE-760250	3	7	2	0.55	4	50
VE-760320	4	6	1	0.64	14	25
VE-760330	4	7	1.5	0.75	9	25
VE-760350	4	8	2	0.4	10	25
VE-760360	4	10	3	0.54	5	25
VE-760410	5	7	1	0.5	23	25
VE-760420	5	8	1.5	0.75	16	25
VE-760430	5	9	2	0.4	12	25
VE-760440	5	10	2.5	0.45	12	25
VE-760490	6	8	1	0.6	29	25
VE-760500	6	9	1.5	0.64	22	25
VE-760510	6	10	2	0.3	20	25
VE-760520	6	12	3	0.37	12	25
VE-760570	7	10	1.5	0.47	25	25
VE-760580	7	11	2	0.64	24	25
VE-760581	7	12	2.5	0.31	19	25
VE-760590	7	13	3	0.39	14	25
VE-760630	8	11	1.5	0.51	31	25
VE-760650	8	12	2	0.55	28	25
VE-760670	8	14	3	0.5	18	25
VE-760690	8	16	4	0.61	17	25
VE-760720	8.5	12	1.75	0.33	32	25
VE-760730	9	13	2	0.37	35	25
VE-760770	10	14	2	0.36	48	25
VE-760800	10	16	3	0.45	30	25
VE-760810	10	18	4	0.5	29	25
VE-760820	10	23	6.5	0.8	15	25
VE-760870	12	15.5	1.75	0.31	66	25
VE-760880	12	17	2.5	0.28	48	25
VE-761050	15	21	3	0.31	66	25
VE-761080	18	24	3	0.26	74	10
VE-761100	20	27	3.5	0.29	99	10
VE-761150	25	35	5	0.28	58	10
VE-761170	30	40	5	0.26	133	10
VE-761190	40	50	5	0.25	80	10
VE-761270	50	60	5	0.19	418	10

INDUSTRIAL HOSES - silicone

Food hoses



PHARMATECH

Internal layer: Half transparent silicone
Reinforcement: Polyester braid
External layer: Half transparent silicone
Working temp.: From -60°C up to +200°C

To quality, hydrophobic delivery hose manufactured through platinum cure technology. Odour-free and taste-free. Smooth surface prevents impurities entrapment or buildup. Sterylation with steam at +135°C, with argon or cobalt as an option. Conforms to the requirements of FDA, USP Class VI, European Pharmacopoeia 3.1.9 European Directives EC 1935/2004 and EC 2023/2006 (GMP). Safety factor 3:1.

code	I.D. [mm]	O.D. [mm]	working press. 20 / 100°C [bar]	bending radius [mm]	standard length [m]
MT-PHARMATECH-02	1.58	7.4	16 / 12.8	25	25
MT-PHARMATECH-03	3.17	9.2	16 / 12.8	25	25
MT-PHARMATECH-05	4.76	11.3	15 / 12	32	25
MT-PHARMATECH-06	6.35	13.2	14 / 11.2	38	25
MT-PHARMATECH-08	7.93	15	12 / 9.6	44	25
MT-PHARMATECH-10	9.52	16.6	11 / 8.8	50	25
MT-PHARMATECH-13	12.7	20.3	9 / 7.2	63	25
MT-PHARMATECH-16	15.87	24.5	8 / 6.4	76	25
MT-PHARMATECH-19	19.05	27.9	6 / 4.8	89	25
MT-PHARMATECH-22	22.2	31.3	5 / 4	100	10
MT-PHARMATECH-25	25.4	34.5	5 / 4	127	10
MT-PHARMATECH-32	31.75	40.8	4 / 3.2	152	10



★★★★★ SILICONE STAR / D

Internal layer: Half transparent silicone
Reinforcement: Four polyester braids
External layer: Half transparent silicone
Working temp.: From -60°C up to +180°C

Top quality delivery hose manufactured through platinum cure technology. Extruded internal layer. Conforms to the requirements of FDA 21 CFR 177.2600, USP Class VI, European Pharmacopoeia 3.1.9, BfR XV A, Journal Officiel Brochure 1227. For working temperatures above +100°C reduce the maximum working pressure given in the tables by 1% for each 1°C of temperature rise.

code	I.D. [mm]	O.D. [mm]	working pressure 20°C [bar]	bursting pressure 20°C [bar]	maximum length [m]
SO-SILICONESTAR-D-13	12.7	22.5	7.5	30	4
SO-SILICONESTAR-D-19	19.05	28.85	7.5	30	4
SO-SILICONESTAR-D-25	25.4	35.2	7.5	30	4
SO-SILICONESTAR-D-32	31.8	41.6	6.2	25	4
SO-SILICONESTAR-D-38	38.1	47.9	4.5	18	4
SO-SILICONESTAR-D-51	50.8	60.6	4.5	18	4

INDUSTRIAL HOSES - silicone

Food hoses



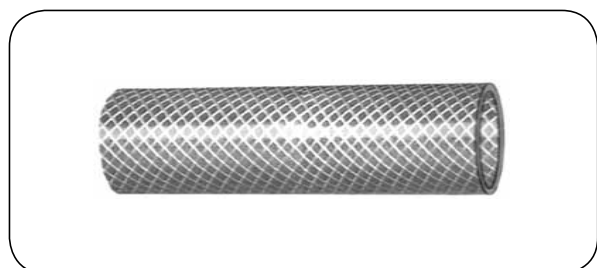
SILICONE STAR / SD

Internal layer: Half transparent silicone
Reinforcement: Four polyester braids,
External layer: steel wire helix (AISI 316)
 Half transparent silicone
Working temp.: From -60°C up to +180°C

Suction-delivery hose manufactured using platinum cure technology. Extruded internal layer. Conforms to the requirements of FDA 21 CFR 177.2600, USP Class VI, European Pharmacopoeia 3.1.9, BfR XV, Journal Officiel Brochure 1227. Full vacuum 736.6 mm Hg (0.98 bar). For working temperatures above +100°C reduce the maximum working pressure given in the tables by 1% for each 1°C of temperature rise.

code	I.D. [mm]	O.D. [mm]	working pressure 20°C [bar]	bursting pressure 20°C [bar]	bending radius [mm]	maximum length [m]
SO-SILICONESTAR-SD-10	9.5	19.3	7.5	30	35	4
SO-SILICONESTAR-SD-13	12.7	22.5	7.5	30	35	4
SO-SILICONESTAR-SD-19	19.05	28.85	7.5	30	50	4
SO-SILICONESTAR-SD-25	25.4	35.2	7.5	30	65	4
SO-SILICONESTAR-SD-32	31.8	41.6	7.5	30	96	4
SO-SILICONESTAR-SD-38	38.1	47.9	7.5	30	110	4
SO-SILICONESTAR-SD-51	50.8	60.6	7.5	30	170	4

Pharmaceutical and biotechnology hoses



Sani-Tech STHT-R

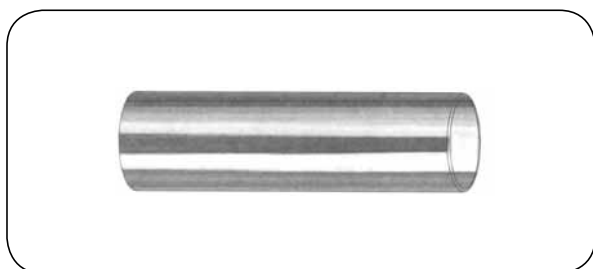
Material: Half transparent silicone
Reinforcement: Polyester braid
Hardness: 65° Shore (A)
Density: 1.21 g/cm³
Working temp.: From -62°C up to +260°C
Key features: LOT number marking, colour coding available

Flexible hose manufactured using platinum cure technology. Used to transport blood, tissue, etc. Imparts neither odour nor taste. Meets the requirements of USP XXIV (88) and USPXXIV (87) for biological reactivity, ISO 10993 standards of biocompatibility, FDA CFR 177.2600, USDA 3A, European Pharmacopoeia 3.1.9.

code	I.D. [mm]	O.D. [mm]	working pressure 20°C [bar]	bursting pressure 20°C [bar]	bending radius [mm]
VE-STHT-R-0062	1.6	6.9	13.7	53.4	-
VE-STHT-R-0125	3.2	9.0	13.1	53.4	-
VE-STHT-R-0187	4.8	11.4	12.8	51.7	-
VE-STHT-R-0250	6.4	12.7	12.4	50.0	25
VE-STHT-R-0375	9.6	15.9	12.4	50.0	51
VE-STHT-R-0500	12.7	22.3	12.1	48.3	76
VE-STHT-R-0625	15.9	25.4	8.6	34.5	102
VE-STHT-R-0750	19.1	28.6	7.2	29.3	102
VE-STHT-R-0875	22.3	32.0	6.9	27.6	127
VE-STHT-R-1000	25.4	35.0	5.17	20.7	152.4

INDUSTRIAL HOSES - silicone

Pharmaceutical and biotechnology hoses



Sani-Tech STHT-C

Material: Transparent silicone
Hardness: 50° Shore (A)
Density: 1.17 g/cm³
Working temp.: From -62°C up to +260°C
Length: 7.62 m, 15.24 m or 30.48 m
Key features: Permanent, laser-marked hose code and LOT number

Hose made of platinum cured silicone, of exceptional purity, designed for application in biotechnology. Resistant to high temperature, ozone, radiation, moisture, weather conditions. Neither absorbs nor adsorbs odour and taste. Withstands repeated autoclave, ethylene oxide or radiation sterilization. Meets the requirements of FDA, USP Class VI, ISO 10993, European Pharmacopoeia 3.1.9 and Japanese Pharmacopoeia - Chapter 51. Safety factor 5:1.

code	I.D. [mm]	O.D. [mm]	wall thickness [mm]	working pressure 23°C [bar]
VE-STHT-C-012-0	0.3	0.7	0.2	0.69
VE-STHT-C-020-0	0.5	0.9	0.2	0.55
VE-STHT-C-025-0	0.6	1.2	0.3	0.62
VE-STHT-C-030-0	0.8	1.8	0.5	0.75
VE-STHT-C-030-2	0.8	4	1.6	2.2
VE-STHT-C-040-0	1.0	2.2	0.6	0.75
VE-STHT-C-058-0	1.5	1.9	0.2	0.34
VE-STHT-C-062-1	1.6	3.2	0.8	0.68
VE-STHT-C-062-2	1.6	4.8	1.6	1.17
VE-STHT-C-062-3	1.6	6.4	2.4	1.65
VE-STHT-C-062-4	1.6	8	3.2	2.27
VE-STHT-C-062-5	1.6	11.2	4.8	3.30
VE-STHT-C-062-6	1.6	14.4	6.4	4.34
VE-STHT-C-078-1	2	3.6	0.8	0.62
VE-STHT-C-078-2	2	5.4	1.7	1.03
VE-STHT-C-078-3	2	6.8	2.4	1.44
VE-STHT-C-078-4	2	8.4	3.2	1.86
VE-STHT-C-078-5	2	11.6	4.8	2.69
VE-STHT-C-078-6	2	14.8	6.4	3.56
VE-STHT-C-093-1	2	4	0.8	0.55
VE-STHT-C-093-2	2	5.6	1.6	0.90
VE-STHT-C-093-3	2	7.2	2.4	1.24
VE-STHT-C-093-4	2	8.8	6.4	1.45
VE-STHT-C-093-5	2	12	4.8	2.34
VE-STHT-C-093-6	2	15.2	6.4	3.1
VE-STHT-C-125-1	3.2	4.8	0.8	0.41
VE-STHT-C-125-2	3.2	6.4	1.6	0.69
VE-STHT-C-125-3	3.2	8	2.4	0.97
VE-STHT-C-125-4	3.2	9.6	3.2	1.31
VE-STHT-C-125-5	3.2	12.8	4.8	1.58
VE-STHT-C-125-6	3.2	15.8	6.3	2.41
VE-STHT-C-156-1	4	5.6	0.8	0.41
VE-STHT-C-156-2	4	7.1	1.6	0.62
VE-STHT-C-156-3	4	8.7	2.4	0.76
VE-STHT-C-156-4	4	10.3	3.2	1.03
VE-STHT-C-156-5	4	13.5	4.7	1.59
VE-STHT-C-156-6	4	16.7	6.4	2.07
VE-STHT-C-187-1	4.8	6.4	0.8	0.34

INDUSTRIAL HOSES - silicone

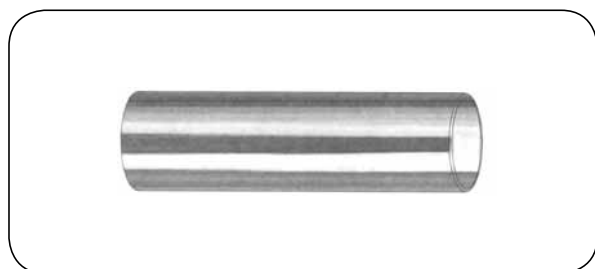
Pharmaceutical and biotechnology hoses

Sani-Tech STHT-C - table follow up

code	I.D. [mm]	O.D. [mm]	wall thickness [mm]	working pressure 23°C [bar]
VE-STHT-C-187-2	4.8	8	1.6	0.55
VE-STHT-C-187-3	4.8	9.5	2.4	0.76
VE-STHT-C-187-4	4.8	11.1	3.2	0.9
VE-STHT-C-187-5	4.8	14.3	4.7	1.24
VE-STHT-C-187-6	4.8	17.6	6.4	1.79
VE-STHT-C-250-1	6.4	8	0.8	0.14
VE-STHT-C-250-2	6.4	9.5	1.6	0.41
VE-STHT-C-250-3	6.4	11.2	2.4	0.55
VE-STHT-C-250-4	6.4	12.8	3.2	0.69
VE-STHT-C-250-5	6.4	16	4.8	1.03
VE-STHT-C-250-6	6.4	19.2	6.4	1.45
VE-STHT-C-312-1	8.0	9.6	0.8	0.21
VE-STHT-C-312-2	8	11.2	1.6	0.28
VE-STHT-C-312-3	8	12.8	2.4	0.55
VE-STHT-C-312-4	8	14.4	3.2	0.69
VE-STHT-C-312-5	8	17.6	4.7	0.96
VE-STHT-C-312-6	8	20.8	6.4	1.24
VE-STHT-C-375-1	9.5	11.1	0.8	0.21
VE-STHT-C-375-2	9.5	12.7	1.6	0.21
VE-STHT-C-375-3	9.5	14.3	2.4	0.41
VE-STHT-C-375-4	9.5	16	3.2	0.55
VE-STHT-C-375-5	9.5	19.1	4.8	0.76
VE-STHT-C-375-6	9.5	22.3	6.4	1.1
VE-STHT-C-500-1	12.7	14.3	0.8	0.14
VE-STHT-C-500-2	12.7	15.9	1.6	0.27
VE-STHT-C-500-3	12.7	17.5	2.4	0.27
VE-STHT-C-500-4	12.7	19.1	3.2	0.48
VE-STHT-C-500-5	12.7	22.3	4.7	0.62
VE-STHT-C-500-6	12.6	25.4	6.4	0.89
VE-STHT-C-625-1	15.9	17.5	1.6	0.07
VE-STHT-C-625-2	15.9	19.1	1.6	0.21
VE-STHT-C-625-3	15.9	20.7	2.4	0.27
VE-STHT-C-625-4	15.9	22.3	3.2	0.34
VE-STHT-C-625-5	15.8	25.4	4.8	0.55
VE-STHT-C-625-6	15.9	31.8	7.95	0.76
VE-STHT-C-750-1	19.1	20.7	0.8	0.07
VE-STHT-C-750-2	19.1	22.3	1.6	0.14
VE-STHT-C-750-3	19.1	23.9	2.4	0.21
VE-STHT-C-750-4	19	25.4	3.2	0.34
VE-STHT-C-750-5	19	28.6	4.8	0.41
VE-STHT-C-750-6	19	31.8	6.4	0.69
VE-STHT-C-875-1	22.2	23.8	0.8	0.07
VE-STHT-C-875-2	22.2	25.4	1.6	0.07
VE-STHT-C-875-3	22.2	27	2.4	0.14
VE-STHT-C-875-4	22.2	28.6	3.2	0.28
VE-STHT-C-875-5	22.2	31.8	4.8	0.41
VE-STHT-C-875-6	22.2	35	6.4	0.55
VE-STHT-C-1000-1	25.4	27	0.8	0.07
VE-STHT-C-1000-2	25.4	28.6	1.6	0.07
VE-STHT-C-1000-3	25.4	30.2	2.4	0.14
VE-STHT-C-1000-4	25.4	31.8	3.2	0.27
VE-STHT-C-1000-5	25.4	35	4.8	0.34
VE-STHT-C-1000-6	25.4	38.2	6.4	0.48

INDUSTRIAL HOSES - silicone

Pharmaceutical and biotechnology hoses



Sani-Tech ULTRA

Material:	Transparent silicone
Hardness:	50° Shore (A)
Density:	1.14 g/cm ³
Working temp.:	From -62°C up to +260°C
Length:	7.62 m, 15.24 m or 30.48 m
Key features:	Permanent, laser-marked hose code and LOT number

Very flexible hose with extremely low level of extractables and so prolonged service life in peristaltic pumps. Manufactured using platinum cure technology. Widely used in biopharmaceutical industry. Can be combined with Sani-Link® Ultra Manifolds. Neither absorbs nor adsorbs odour and taste. Withstands repeated autoclave, ethylene oxide or radiation sterilization. Conforms to the requirements of FDA, USP Class. VI, ISO 10993, European Pharmacopoeia 3.1.9 and Japanese Pharmacopoeia - Chapter 59. 65° Shore (A) hardness version is also available.

code	I.D. [mm]	O.D. [mm]	wall thickness [mm]
VE-ULTRA-C-012-0	0.3	0.6	0.15
VE-ULTRA-C-020-0	0.5	0.9	0.2
VE-ULTRA-C-025-0	0.6	1.2	0.3
VE-ULTRA-C-030-0	0.8	1.8	0.5
VE-ULTRA-C-030-2	0.8	4	1.6
VE-ULTRA-C-040-0	1	2.2	0.6
VE-ULTRA-C-058-0	1.5	1.9	0.2
VE-ULTRA-C-062-1	1.6	3.2	0.8
VE-ULTRA-C-062-2	1.6	4.8	1.6
VE-ULTRA-C-062-3	1.6	6.4	2.4
VE-ULTRA-C-062-4	1.6	8	3.2
VE-ULTRA-C-062-5	1.6	11.2	4.8
VE-ULTRA-C-062-6	1.6	14.4	6.4
VE-ULTRA-C-078-1	2	3.6	0.8
VE-ULTRA-C-078-2	2	5.4	1.7
VE-ULTRA-C-078-3	2	6.8	2.4
VE-ULTRA-C-078-4	2	8.4	3.2
VE-ULTRA-C-078-5	2	11.6	4.8
VE-ULTRA-C-078-6	2	14.8	6.4
VE-ULTRA-C-093-1	2.4	4	0.8
VE-ULTRA-C-093-2	2.4	5.6	1.6
VE-ULTRA-C-093-3	2.4	7.2	2.4
VE-ULTRA-C-093-4	2.4	8.8	6.4
VE-ULTRA-C-093-5	2.4	12	4.8
VE-ULTRA-C-093-6	2.4	15.2	6.4
VE-ULTRA-C-125-1	3.2	4.8	0.8
VE-ULTRA-C-125-2	3.2	6.4	1.6
VE-ULTRA-C-125-3	3.2	8	2.4
VE-ULTRA-C-125-4	3.2	9.6	3.2
VE-ULTRA-C-125-5	3.2	12.8	4.8
VE-ULTRA-C-125-6	3.2	15.8	6.3
VE-ULTRA-C-156-1	4	5.6	0.8
VE-ULTRA-C-156-2	4	7.1	1.6
VE-ULTRA-C-156-3	4	8.7	2.4
VE-ULTRA-C-156-4	4	10.3	3.2
VE-ULTRA-C-156-5	4	13.5	4.7
VE-ULTRA-C-156-6	4	16.7	6.4
VE-ULTRA-C-187-1	4.8	6.4	0.8

INDUSTRIAL HOSES - silicone

Pharmaceutical and biotechnology hoses

Sani-Tech ULTRA - table follow up

code	I.D. [mm]	O.D. [mm]	wall thickness [mm]
VE-ULTRA-C-187-2	4.8	8.0	1.6
VE-ULTRA-C-187-3	4.8	9.5	2.4
VE-ULTRA-C-187-4	4.8	11.1	3.2
VE-ULTRA-C-187-5	4.8	14.3	4.7
VE-ULTRA-C-187-6	4.8	17.6	6.4
VE-ULTRA-C-250-1	6.4	8	0.8
VE-ULTRA-C-250-2	6.4	9.5	1.6
VE-ULTRA-C-250-3	6.4	11.2	2.4
VE-ULTRA-C-250-4	6.4	12.8	3.2
VE-ULTRA-C-250-5	6.4	16	4.8
VE-ULTRA-C-250-6	6.4	19.2	6.4
VE-ULTRA-C-312-1	8	9.6	0.8
VE-ULTRA-C-312-2	8	11.2	1.6
VE-ULTRA-C-312-3	8	12.8	2.4
VE-ULTRA-C-312-4	8	14.4	3.2
VE-ULTRA-C-312-5	8	17.6	4.7
VE-ULTRA-C-312-6	8	20.8	6.4
VE-ULTRA-C-375-1	9.5	11.1	0.8
VE-ULTRA-C-375-2	9.5	12.7	1.6
VE-ULTRA-C-375-3	9.5	14.3	2.4
VE-ULTRA-C-375-4	9.5	16	3.2
VE-ULTRA-C-375-5	9.5	19.1	4.8
VE-ULTRA-C-375-6	9.5	22.3	6.4
VE-ULTRA-C-500-1	12.7	14.3	0.8
VE-ULTRA-C-500-2	12.7	15.9	1.6
VE-ULTRA-C-500-3	12.7	17.5	2.4
VE-ULTRA-C-500-4	12.7	19.1	3.2
VE-ULTRA-C-500-5	12.7	22.3	4.7
VE-ULTRA-C-500-6	12.6	25.4	6.4
VE-ULTRA-C-625-1	15.9	17.5	1.6
VE-ULTRA-C-625-2	15.9	19.1	1.6
VE-ULTRA-C-625-3	15.9	20.7	2.4
VE-ULTRA-C-625-4	15.9	22.3	3.2
VE-ULTRA-C-625-5	15.8	25.4	4.8
VE-ULTRA-C-625-6	15.9	31.8	15.9
VE-ULTRA-C-750-1	19.1	20.7	0.8
VE-ULTRA-C-750-2	19.1	22.3	1.6
VE-ULTRA-C-750-3	19.1	23.9	2.4
VE-ULTRA-C-750-4	19	25.4	3.2
VE-ULTRA-C-750-5	19	28.6	4.8
VE-ULTRA-C-750-6	19	31.8	6.4
VE-ULTRA-C-875-1	22.2	23.8	0.8
VE-ULTRA-C-875-2	22.2	25.4	1.6
VE-ULTRA-C-875-3	22.2	27	2.4
VE-ULTRA-C-875-4	22.2	28.6	3.2
VE-ULTRA-C-875-5	22.2	31.8	4.8
VE-ULTRA-C-875-6	22.2	35	6.4
VE-ULTRA-C-1000-1	25.4	27	0.8
VE-ULTRA-C-1000-2	25.4	28.6	1.6
VE-ULTRA-C-1000-3	25.4	30.2	2.4
VE-ULTRA-C-1000-4	25.4	31.8	3.2
VE-ULTRA-C-1000-5	25.4	35	4.8
VE-ULTRA-C-1000-6	25.4	38.2	6.4

INDUSTRIAL HOSES - silicone

Pharmaceutical and biotechnology hoses

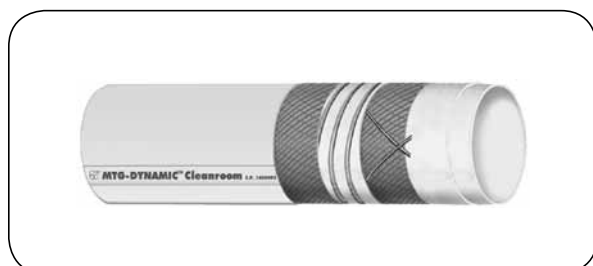


SILICONE STAR / HD

Internal layer: Half transparent silicone
Reinforcement: Four polyester braids, steel wire helix (AISI 316)
External layer: Half transparent silicone
Working temp.: From -60°C up to +180°C

Suction-delivery hoses made using platinum cure technology, resistant to UV radiation and ozone. Compliant with 1935/2004 CE, FDA 21 CFR 177.2600, USP class VI, European Pharmacopoeia 3.1.9, BfR XV, Journal Officiel Brochure 1227. For working temperature above +100°C reduce the maximum working pressure given in the tables by 1% for each 1°C of temperature rise. Safety standard 4:1.

code	I.D. [mm]	O.D. [mm]	working press. 20°C [bar]	vacuum [bar]	bending radius [mm]	maximum length [m]
SO-SILICONESTAR-HD-010	9.5	21.9	10	0.98	45	4
SO-SILICONESTAR-HD-013	12.7	25.1	10	0.98	45	4
SO-SILICONESTAR-HD-019	19.05	31.45	10	0.98	65	4
SO-SILICONESTAR-HD-025	25.4	37.8	10	0.98	80	4
SO-SILICONESTAR-HD-032	31.8	44.2	10	0.98	120	4
SO-SILICONESTAR-HD-038	38.1	50.5	10	0.98	150	4
SO-SILICONESTAR-HD-051	50.8	63.2	10	0.98	180	4
SO-SILICONESTAR-HD-063	63.5	75.9	7	0.98	220	4
SO-SILICONESTAR-HD-076	76.2	88.6	4	0.88	250	4
SO-SILICONESTAR-HD-102	101.6	114	3	0.88	360	4



DYNAMIC Cleanroom-Platinum

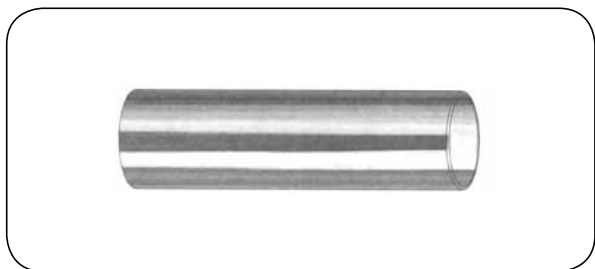
Internal layer: White PFA fluoropolymer
Reinforcement: Polyester braids, steel wire helix (AISI 302)
External layer: Transparent silicone
Working temp.: From -30°C up to +150°C

Suction-delivery hose manufactured using platinum cure technology. Sterilization with steam (max. +135°C under 355 bar pressure for 30 min.). The internal layer compliant with FDA, USP Class VI, D.M. 21/03/73 and EU regulation 10/2011/EU. The external layer compliant with USP Class VI, FDA and European Pharmacopoeia. It conforms to EC 1935/2004 and 2023/2006/ EC (GMP). Free of materials of animal origin, phthalates, adipate and other materials restricted by EC Regulation No 1907/2006 (REACH). Safety factor 3:1.

code	I.D. [mm]	O.D. [mm]	working press. 20°C / 100°C [bar]	vacuum [bar]	bending radius stat. / dinam. [mm]	maximum length [m]
MT-DYNAMIC-CP-13	13	23	10 / 8	0.9	45 / 60	20
MT-DYNAMIC-CP-16	16	28	10 / 8	0.9	55 / 75	20
MT-DYNAMIC-CP-19	19	31	10 / 8	0.9	65 / 90	20
MT-DYNAMIC-CP-25	25	37	9 / 7.2	0.9	85 / 140	20
MT-DYNAMIC-CP-32	32	44	8 / 6.4	0.9	120 / 200	20
MT-DYNAMIC-CP-38	38	51	7 / 5.6	0.9	140 / 250	20
MT-DYNAMIC-CP-51	51	67	6 / 4.8	0.9	180 / 300	20
MT-DYNAMIC-CP-63	63.5	79.5	5 / 4	0.9	320 / 380	20
MT-DYNAMIC-CP-76	76	92	4 / 3.2	0.9	380 / 460	20

INDUSTRIAL HOSES - silicone

Pharmaceutical and biotechnology hoses



C-Flex

Material: Thermoplastic elastomer
Hardness: 60° Shore (A)
Working temp.: From -45°C up to +135°C
Key features: Heat sealable with C'eal-Flex™
 TPE Ultra Sealer

Lightweight, transparent, flexible hose made of patented thermoplastic elastomer designed for biotechnological application. Suitable for peristaltic pump application. It is non-toxic, non-hemolytic, non-pyrogenic, high purity, easy heat sealable - properties which are essential for biotechnological processes. It can undergo autoclave, radiation or ethylene oxide sterilization. Resistant to concentrated acids and bases. Compliant with USP Class VI.

code	I.D. [mm]	O.D. [mm]	wall thickness [mm]	standard length [m]
VE-374-125-2	3.2	6.4	1.6	15
VE-374-188-2	4.8	8	1.6	15
VE-374-188-3	4.8	9.6	2.4	15
VE-374-250-2	6.4	9.6	1.6	15
VE-374-250-3	6.4	11.2	2.4	15
VE-374-250-4	6.4	12.7	3.2	15
VE-374-313-3	8	12.7	2.4	15
VE-374-375-2	9.5	12.7	1.6	15
VE-374-375-3	9.5	14.3	2.4	15
VE-374-375-4	9.5	15.9	3.2	15
VE-374-500-3	12.7	17.5	2.4	15
VE-374-500-4	12.7	19.1	3.2	15
VE-374-625-4	15.9	22.3	3.2	15
VE-374-750-4	19	25.4	3.2	4.5
VE-374-750-6	19	28.3	4.8	4.5
VE-374-750-8	19	31.7	6.4	4.5
VE-374-1000-6	25.4	34.9	4.8	4.5
VE-374-1000-8	25.4	38.1	6.42	4.5

