



Sanitary ilow equipment

APST Unreinforced Silicone Tubing

TRANSLUCENT, PLATINUM-CURED

Low-volatile grade, platinum-cured silicone tubing is clean-room produced for critical pharmaceutical, biomedical, cosmetic, and food applications. APST has undergone extensive physical, chemical, and biological testing and meets USP Class VI, FDA CFR 177.2600, ISO 10993, European Pharmacopoeia 3.1.9, and 3A standards.

APST Unreinforced Silicone Tubing is not intended for implantation, continuous steam applications, or elevated pressure levels.

Available Assembly

HOSE BARB ONLY



APSH Braid-Reinforced Silicone Hose

PLATINUM-CURED

Designed for fitting flexible silicone hoses straight from the client without the need for special lenghts. Offering both benefits of cost as well as simplicity of use, the connectors and clamping ring nuts can be reused again and again simply by re-heading or renewing the flexible hose when necessary. To clamp the flexible hose, apply pressure to the plastic external collar over the thread of the internal stainless steel connector.

PLASTIC RE-FLEX connections are not suitable for attaching to hose with a diameter or thickness other than those listed in the table. APSH with plastic re-usable collar is not intended to be used for temperature >60°C and pressure >6 bar.

Available Assembly

PLASTIC REUSABLE

O STAINLESS STEEL REUSABLE

● SS RADIAL CRIMPED



TTSP-TTSD SILICONE HOSES Series

Suction and delivery hose suitable for pharmaceutical, cosmetic and food products. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH). Tested in compliance with USP XXXII class VI, not cytotoxic according to ISO 10993 Section 5:2009. Not intended for use as an implant material. Not suitable for blood or human fluids.



POSSIBLE CONFIGURATIONS

HOSE WITHOUT CONNECTION

REUSABLE CONNECTION

CRIMPED CONNECTION







TUSIL is not intended for implantation and is not be used for continuous steam applications.

HOSE KEY FEATURES

TUBE

silicone, white, phthalates free, tested in compliance with 1907/2006/CE (REACH). Meets FDA CFR 21 PART 177.2600, USP XXXII class VI requirements, European Pharmacopoeia 3.1.9 Ed. VII 2011, ISO 10993 Sections 5,10,11:2009, BfR Recommendation XV & XXI Cat. 2, European Reglement 1935/2004/CE, DM 21/03/1973 e seguenti, Japan Ministry of Health and Welfare Notice No.370,1959, No.201,2006, 3A Sanitary Standard Class II

REINFORCEMENT

high temperature resistant plies, with (TTCF...SP) or without (TTCF...SD) stainless steel wire helix

COVER

smooth, silicone, white, heat, ageing, ozone and abrasion resistant, glossy cover

STERILIZATION

Please ask for guidelines for cleaning and sanitizing

MARKING

Transfer tape SILPURE

HOSE TECHNICAL CHARATERISTICS

TEMPERATURE RANGE

-60°C / +200°C (-76°F / +392°F) The operating temperature of the hose is directly dependent upon the specific fluid been conveyed and the length of time the fluid is in contact with the hose

VACUUM

675 mmHg (26,6 inHg)

NORM

ISO 1307 for dimensional tolerances

HOSE SPECIFICATIONS

without wire helix

with wire helix

CODE	I.D. DN - BS	O.D. mm SD	Burst P. (bar) *	Work P. (bar) *	min. Bend rad. (mm)	O.D. mm SP	Burst P. (bar) *	Work P. (bar) *	min. Bend rad. (mm)
TTCF013.0	1/2"	21	45	15	60	23	45	15	60
TTCF019.0	3/4"	29	39	13	80	29	39	13	80
TTCF025.0	1"	35	30	10	100	35	30	10	100
TTCF038.0	1"1/2	48	21	7	155	49	21	7	155
TTCF051.0	2"	61	18	6	210	62	18	6	210
TTCF063.5	2"1/2	73,5	15	5	260	76,5	15	5	260
TTCF076.0	3"	86	12	4	310	89	12	4	310

(*) NOTE: Data refer to ambient temperature (20°C) and static conditions; we recommend a reduction of 20% working pressure for every 100°C of temperature increase. Other diameters, wail thickness and pressure only on specific request.















RADIAL SANITARY FITTINGS crimp and reusable

Sanitary clamp fittings are secured to the hose by a collar with a 360° circumferential crimp / nut.

COMPRESSION SEAL This 360° seal and the particular internal chamfer design assures cleanliness and prevents contamination or material buildup at the point where the fittings insert meets the hose.

SURFACE FINISH the internal surface finish meets or exceed the Pharmacopoeia standards.

OPERATING CONDITIONS Design Pressure up to 6 bar tested at ambient temperature, except case where the pressure is limited by the hose.

MARKING Crimp ferrules may be permanently marked for full traceability or operating parameter.

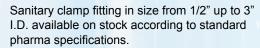
Available documentations on request:

- 3.1 certificate according to 10204
- Surface Roughness certificate
- FDA certificate
- Electrical Continuity

STAINLESS STEEL FITTINGS STYLES

CRIMP CONNECTION

SANITARY CLAMP



CLAMP ADAPTOR

Sanitary adaptors that facilitate connections between a variety of fittings and hoses



OTHER CONNECTIONS ON REQUEST

Butt weld fittings maintain full flow through the I.D., male and female NPT or GAS pipe thread fittings are internally finished to sanitary quality and incorporate the internal chamfer feature.

REUSABLE CONNECTION (only TTCF...SD)



Aerrelnox offers a complete line of stainless steel fittings including hose assemblies. All Aerrelnox fittings are constructed from 316L stainless steel, have a standard surface finish of Ra<0,5 micron, and are secured to the hose by a collar with a 360° circumferential crimp. Each hose crimp design has been performance tested by our QC. As an option, a pressure test certificate can be provided for the hose assemblies. A low impact radial crimp technique ensures smooth hose to fittings transition thereby minimizing bacteria traps and product hold-up. Hose assemblies can be sanitized with short-term CIP/SIP cycles.

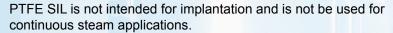
Various hose fittings style available:

- · Sanitary clamp fractional
- Sanitary clamp
- · Clamp adaptor and elbows
- Butt weld fittings
- · Male or female pipe thread

Flexibl	le		Size Va	lve		Inlet Connect		Size Connection	on		enght mm				Outle Connec		Size Conne	-	Fini	sh	Material
RCS -		025		5 L			J		-2500-			L		Α			J		3	Α	
			-																		
Kind of	f Flexi	ble		Qiz.	Hoso	01	5	020	025	5	040	0	50	06	5	080		Sur	face I	inish	
RCS n.2 wrapped + wire RCR n.2 wrapped		apped + wire		Size Hose		1/2	/2" 3/4"	1"		1"1/2		2"	2"1	2"1/2 3"		13	≤ 0,5 µm				
				Ci-c	Connection	G	3 H		J	M	M	N	0		Р		_	-	•	Flootropolish	
				Size Connection		1/2	2"	3/4"	1"		1"1/2	2"		2"1	2	3"		53	17- 1		
RCG I	PTFE s	ubstrate	_ '						97									othe	er on r	eques	t
RCH I	n.1 wra _l	pped	Car		tion Chana							7									
on reque	st		Col	nnec	ction Shape		In/	/Out Con	necti	ion			Len	ght					Ma	terials	3
Ī		L Linear / Stright			Linear / Stright				Clam		p Buttweld								Α	A AISI 316L-1.44	
		(0	90° Bend / Elbo	w	AS	SME / BS		Α	В					tal len	-	hea	В	1.443	5	
		othe	other on request			DIN (*)			С	F				requested head to head connection in millimeter				С	C C22 Hastelloy		
							IS	O (*)		Н	1								D	C276	Hastelloy
						SN	MS (*)		J	К								on	reques	st	
						(*)	and other or	n reque	est												

PTFE SIL HOSES Series

Suction and delivery hose for food, cosmetic and pharmaceutical products, chemicals and solvents, except, for chlorine trifluoride, chlorine and fluorine gas, oxygen difluoride, phosgene and molten alkalis (for ex. sodium). Hose resistant to high temperatures, used as connection between pipes and fixed equipments. Designed for the chemical industry, foodstuff, pharmaceutical and cosmetic industry, where a flexible connection is required. The hose is produced with high quality elastomers, with excellent chemical and mechanical properties. Phthalates free tube, tested in compliance with 1907/2006/CE (REACH). Tested in compliance with USP XXXVI class VI, not cytotoxic according to ISO 10993 Section 5:2009. Not intended for use as an implant material. Not suitable for blood or human fluids.





HOSE KEY FEATURES

TUBE

PTFE (polytetrafluorethylene) white, phthalates free, tested in compliance with 1907/2006/CE (REACH).

PTFE is a polymer with excellent resistance to high temperature, mechanical stress and to oxidation. It complies with FDA 21 CFR177.1550 standards, USP XXXVI class VI, ISO 10993 Sections 5,10,11:2009, EUROPEAN REGLEMENT 1935/2004/CE AND 10/2011/CE, 3A Sanitary Standard Class II.

REINFORCEMENT

Synthetic plies, stainless steel wire helices, on request a/s wires to discharge static electricity

COVER

Smooth, silicone, white. Meets FDA CFR 21 PART 177.2600, BfR

Recommendation XV, European Reglement 1935/2004/CE. Heat, abrasion, ageing and ozone resistant, glossy cover

STERILIZATION

Please ask for guidelines for cleaning and sanitizing

MARKING

Transfer tape TUFLON PTFE SIL

HOSE TECHNICAL CHARATERISTICS

TEMPERATURE RANGE

-40°C I +150°C (-40°F I +302°F) The operating temperature of the hose is directly dependent upon the specific fluid been conveyed and the length of time the fluid is in contact with the hose

VACUUM

675 mmHg (26,6 inHg)

NORM

ISO 1307 for dimensional tolerances

TUFLON PTFE SIL

HOSE SPECIFICATIONS

CODE	I.D. (mm)	I.D. (in)	O.D. (mm)	O.D. (in)	Work P. (bar) *	Work P. (PSI) *	Burst P. (bar) *	Burst P. (PSI) *	Weight (Kg/mt)	Weight (lb/ft)	min. Bend rad. (mm)	min. Bend rad. (in)
0500	12,7	0,50	24	0,94	10	150	40	600	0,47	0,31	45	1,77
0750	19,05	0,75	30	1,18	10	150	40	600	0,61	0,41	70	2,76
1000	25,4	1,00	36	1,42	10	150	40	600	0,76	0,51	90	3,54
1500	38,1	1,50	50	1,97	7	105	28	420	1,26	0,84	170	5,51
2000	50,4	2,00	62	2,44	7	105	28	420	1,60	1,07	180	7,09
2500	63,5	2,50	79,5	3,13	6	90	24	360	2,69	1,80	320	12,60

(*)NOTE: Data refer to ambient temperature (20°C) and static conditions; we recommend a reduction of 20% working pressure for every 100°C of temperature increase. Other diameters, wail thickness and pressure only on specific request.



















SANITARY SAMPLING VALVES



SANITARY SAMPLING BOTTLE





SPRING CHECK VALVES



HIGH PURITY BALL VALVES



BUTTERFLY VALVES



DTS HEAT EXCHANGERS



SIGHT GLASS-FLOW INDICATOR



CLAMP FITTINGS



TANK CONNECTIONS



SILICONE HOSE & FITTINGS



MAGNETIC MIXER



ITT DIAPHRAGM VALVES



WASHING DEVICES





AERRE INOX s.r.l.

Via Gerola, 4

I-26010 Fiesco (Cremona) Tel. +39 0374 370 828 Fax +39 0374 370 833

www.aerreinox.it

+49(0)30/3670 50-90 Fax +49(0)30/3670 50-92 E-Mail mail@bimex-gmbh.de Web www.bimex-gmbh.de

Zimmerstraße 22 D-13595 Berlin