

Pharmaflex

T4201 series

Hygienic Silicone Suction & Delivery Hose



Key features

- Biopharmaceutical grade
- Excellent bend radius
- Smooth seamless liner and cover
- Autoclavable and sterilisable
- Suitable for sterilisation with steam, argon and cobalt
- Tasteless and odourless
- Phthalate free
- Platinum cured extruded liner
- Compatible with SIP and CIP regimes
- High transparency, no yellowing
- Excellent mechanical properties

Standards, Accreditations & Registered compliances

- ISO 10993-6, ISO 10993-10, ISO 10993-11 biological evaluation of medical devices
- ISO 9001:2008
- EU ResAP 2004 (4), CE 1935/2004, Reg 10/2011/ ECC
- European Pharmacopoeia 3.1.9
- BfR hose material recommendation XV
- BGA Class XV
- FDA CFR 177.2600
- USP Class VI biological reactivity test, in vivo
- USP XXIV (87) biological reactivity, in vitro
- USP XXIV (88) biological reactivity, in vivo
- Meets and exceeds 3A sanitary approval
- GB/T 21928-2008

Overview

A smoothbore, smooth cover silicone hose with a close pitch stainless steel wire helix. This hose is manufactured from a high purity platinum extruded liner with high purity platinum cured silicone and is then reinforced with a stainless steel helix and 4 layers of polyester. This reinforcement ensures that flexibility is kept to a maximum whilst simultaneously maintaining a balance between durability and weight.

Pharmaflex is primarily designed for bulk transfer, high pressure and vacuum process applications within the working environments of pharmaceutical operations.

Applications

Pharmaflex medical and pharmaceutical grade silicone hose is ideally suited for suction and delivery applications within the pharmaceutical, biotechnology and lifesciences industries such as feeding pumps, drug-dispensing equipment, diagnostic equipment and processing equipment.

The construction of this hose allows it to work efficiently and effectively on applications at working pressures and temperatures other hoses would not be able to operate within.

Options

- Colour coded labelling system
- External cover colour is also available in red, yellow and white
- A range of end connections all manufactured from 316L stainless steel including; Triclover, DINN, RJT, SMS, BSPT
- Can be electropolished to <math><0.625\mu\text{m Ra}</math> or <math><0.4\mu\text{m Ra}</math>
- Full 3:1.B material batch traceability

Temperature range

-60°C to +200°C

Available sizes	Colour
13mm, 16mm, 20mm, 25.4mm, 32mm, 38mm, 51mm, 63mm, 76mm, 102mm	White/Translucent

Pharmaflex

T4201 series

Hygienic Silicone Suction & Delivery Hose

T4201 - Pharmaflex Suction & Delivery Hose

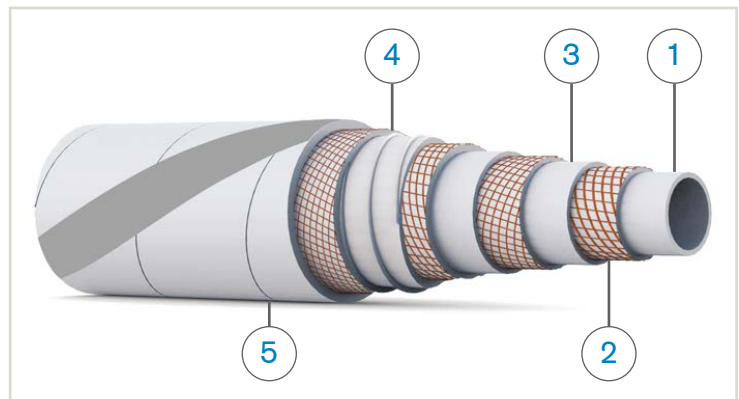
Size	 (mm)	 (mm)	 (mm)	 (mm)	 (bar)	 (bar)	 (g/m)	Product Code
1/2"	13	24	4.2	45	20	60	500	T4201-012
5/8"	16	27	4.2	49	18	54	600	T4201-015
3/4"	20	32	4.2	55	18	54	700	T4201-020
1"	25.4	38	5.3	64	15	45	850	T4201-025
1 1/4"	32	45	5.3	77	11	33	1000	T4201-032
1 1/2"	38	51	5.3	91	10	30	1350	T4201-038
2"	51	64	5.3	128	10	30	1660	T4201-051
2 1/2"	63	78	5.3	183	7.5	23	1900	T4201-063
3"	76	90	5.3	250	6.2	19	2450	T4201-076
4"	102	118	5.3	360	3.7	11	2950	T4201-102

*Safety factor of 3:1 ratio burst pressure to working pressure.

Typical Physical Properties

Typical properties of the Vulcanized Rubber: Test results on moulded slabs, Vulcanisation conditions: 10 min. 175°C post cured: 4h at 200°C in hot air			Pharmaflex Silicone Hose
			Test Results
Density	DIN 53 479 A	g/cm ³	1.18
Hardness	DIN 53 505	Shore A	65
Tensile strength	DIN 53 504 S2	N/mm ²	11
Elongation at break	DIN 53 504 S2	%	630
Tear strength	ASTM D 624 die B	N/mm	42
Comp. Set 22h at 175°C	DIN 53 517	%	15

Pharmaflex composition structure



1. High purity platinum cured extruded liner
2. Layer of polyester braid reinforcement
3. High purity platinum cured silicone
4. Stainless steel wire helix
5. High purity platinum cured silicone cover

Disclaimer

The information contained in this document is to the best of our knowledge, true and accurate, from sources believed to be reliable, we reserve the right to alter specifications without notice. Since conditions under which the products may be used are beyond our control, our recommendations are made without warranty or guarantee and should only be used as a guide. It is however the responsibility of the user to investigate and understand other pertinent sources of information, to comply with all laws and procedures applicable to the safe handling and use of this product, and to determine the suitability of the product for the intended application or use.