

Saniflex UC

Smooth reinforced and extremely flexible PFA

UC is a very light hose with wide application in the pharmaceutical, biotechnology and food industries. The tubing has excellent chemical resistance and is suitable for both liquids and gases.

The smooth PFA core has low extraction and provides good drainage, minimizes adhesion and facilitates cleaning. The continuous extrusion of inliner ensures a smooth inner surface and optimal sterilization results.

The construction with a core in which the PFA is "welded" on reinforced silicone and reinforced with stainless steel braid provides small bending resistance and extremely good flexibility without the risk of the "kinks". Also excellent for hot fluids, thanks to its thermal insulation design. External casing in white silicone provides a clean and hygienic surface. The tubing is also available in an antistatic version (conductive), UCB. UCB's black graphite meets the requirements of FDA 21CFR 178.3297 standard.

The materials meet FDA 21 CFR 177.1550, USP <87, 88> Class VI (121 ° C) and 3A.



Advantages

- **Very clean:** Ideal for demanding production processes and analytical sampling. Taste, odor and color-neutral. Maximum resistance against chemicals and with the highest compatibility.
- **Absorption Resistant:** The smooth PFA surface minimizes contamination of materials such as extracts, oils and proteins. Absorption <0.01%, corrosion-resistant and non-oxidizing.
- **Temperature:** For temperature range from -53 ° C to + 230 ° C. Autoclavable, ideal for high-temperature applications.
- **Perfect finish:** Maximum flow. Ideal for viscous fluids. Simple and safe cleaning.
- **Chemically inert:** chemically inert material. Absolutely corrosion-resistant and nonoxidizing.
- **Smooth inside and outside:** Smooth surface inside the PFA core and outside of silicone.
- **Resistant to vacuum and high pressure:** Safe and stable without the "kinks".
- **Electrically conductive (UCB):** for applications where static electricity inside the hose may occur.



Technical data

Core: UC: Smooth white PFA
UCB: Smooth conductive PFA

Surface finish: Ra 0,10 to Ra 0,15

Reinforcement: Stainless steel braid

Cover: White Silicone

Work.temp: -53°C to +204°C

Vacuum: See technical information

Sterilization: CIP, SIP, COP, autoclave

UC / UCB: Technical specification

Description	ID mm (nom. tum)	OD (mm)	Max WP. at 21° (bar)	Vacuum (28,5 In.Hg) resistant to temperature	Min bend radius (mm)		Weight Kg/m
					Static	Dynamic	
UC*-08	12,7 (1/2")	20,3	20,6 ♣	204°C	39	114	0,3
UC*-12	19,1 (3/4")	28,6	20,6 ♣	204°C	64	165	0,6
UC* -16	25,4 (1")	37,0	17,2 ♣	121°C	102	200	1,0
UC*-24	38,1 (1-1/2")	50,1	13,7 ♣	121°C	178	231	1,3
UC*-32	50,8 (2")	63,8	10,3 ♣	65°C	178	231	1,9

* = B for Conductive core.

♣ Note that the working pressure of the hose couplings can be lower depending on the temperature of the medium and choice of coupling.

UC / UCB: Pressure - Temperature specification

Temperature range	UC 08 UCB 08 (bar)	UC 12 UCB 12 (bar)	UC 16 UCB 16 (bar)	UC 24 UCB 24 (bar)	UC 32 UCB- 32 (bar)
-53°C to -16°C	13,7	7,9	10,3	10,3	8,3
-17°C to 37°C	20,6	20,6	17,2	13,7	10,3
38°C to 93°C	19,2	20,6	17,2	13,7	10,3
94°C to 148°C	14,4	18,6	15,8	13,7	10,3
149°C to 204°C	11,0	13,4	12,0	10,3	8,3



Wide selection of couplings

Compression-mounted stainless steel connections

Saniflex have a very wide range of connections eg Tri-Clover, pipe threads, flanges, SMS / DIN dairy couplings, Cam-Loc, welding connection etc.



The couplings in stainless steel heat number marked and supplied if required with material certificates according to EN 10204 3.1.

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