

Saniflex SC / SCB

Smooth reinforced and highly flexible PTFE hose

Saniflex SC / SCB is a hose with a wide range of hot and aggressive media in the most demanding environments. The design with several reinforcement layers bonded to PTFE core combines the individual advantages of a smooth tube with a tube in a pleated configuration. This means small bending resistance and extremely good flexibility.

The smooth PTFE core also provides good drainage, minimizes adhesion and facilitates cleaning. The inner core consists exclusively of Dupont T-62 - PTFE and is free of plasticizers, supplementary materials and Sterilization stabilizers. The outer reinforcement of stainless steel secures pressure resistance even at elevated temperatures. An outer casing in white silicone offers improved hygiene. The tubing is also available in an antistatic version (conductive), SCB. SCB black graphite complies with FDA 21CFR 178.3297 standard.

The materials meet FDA 21 CFR 177.1550 and USP Class VI.



Advantages

- **Very clean:** Ideal for demanding production processes and analytical sampling. Taste, odor and color-neutral. Maximum resistance to chemicals with the highest compatibility.
- **Absorption Resistant:** The smooth PTFE surface minimizes the absorption 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 non-oxidizing.
- **Smooth inside and outside:** Smooth surface inside the PTFE core and outside of silicone.
- **Withstand vacuum and high pressure:** Safe and stable
- **Electrically conductive (SCB):** for applications where static electricity inside the hose may occur.
 - With ATEX permit for Zone 0 (internal) for the SCB

saniflex ab



Technical Data

| | |
|--------------------------------|---|
| Kärna: | SC: Smooth white DuPont T-62 PTFE SCB: Smooth conductiv DuPont T-62 PTFE |
| Reinforcement: | Braid bonded to the core |
| External Reinforcement: | Stainless steel braid |
| Work temp.: | -53°C to +230°C |
| Vacuum: | Full vacuum at 21°C |
| Cover: | White Silicone |
| Sterilization: | CIP, COP, autoclave |

Saniflex SC / SCB: Technical specification

| Description | ID mm (nom. tum) | OD (mm) | Max WP at 21°C (bar) | Vacuum (28.5 In/Hg) to Temperature | Min bend radius (mm) | | Weight Kg/m |
|-------------|---------------------|---------|----------------------------|---|-------------------------|---------|----------------|
| | | | | | Static | Dynamic | |
| SC*- 04 | 6,4 (1/4") | 14,0 | 241 ♣ | 204°C | 32 | 107 | 0,3 |
| SC*- 06 | 9,5 (3/8") | 18,0 | 206 ♣ | 204°C | 45 | 112 | 0,4 |
| SC*- 08 | 12,7 (1/2") | 21,8 | 124 ♣ | 204°C | 64 | 116 | 0,5 |
| SC*- 12 | 19,1 (3/4") | 28,4 | 86 ♣ | 90°C | 89 | 162 | 0,7 |

* = B for Conductiv Core.

♣ = Note that working pressure for hose with connections could be lower depending on type of fittings.

Saniflex SC / SCB: Pressure - Temperature specification (slang)

| Temperature | SC 04 SCB 04 (bar) | SC 06 SCB 06 (bar) | SC 08 SCB 08 (bar) | SC 12 | SCB 12 (bar) |
|----------------|--------------------------|--------------------------|--------------------------|-------|--------------|
| -53°C to 37°C | 241 | 206,0 | 124 | | 86 |
| 38°C to 93°C | 241 | 182,0 | 124 | | 86 |
| 94°C to 148°C | 236 | 172,0 | 124 | | 86 |
| 149°C to 204°C | 228 | 171,0 | 124 | | 86 |
| 205°C to 230°C | 228 | 159,0 | 109 | | 75 |



Wide selection of couplings

Compression-mounted stainless steel connections

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

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

saniflex ab