



SF-FILTER

SDL 30440, SDL 30880, SDL 38940, SDL 30881, SDL 30882, SDL 30883

(Filter for venting of storage tanks)

DESCRIPTION

The filter elements have been developed for high-efficient filtration at venting of storage tanks. For example when filtered air must be feed or exhausted from storage tanks due to changing filling levels. Depth filter media made of borosilicate glass microfibers assures high-efficient removal of sub-micron particles down to 0,01µm including microorganisms (bacteria). Filter media supported with NOMEX* is rigidly held between two stainless steel cylinders and encapsulated between stainless steel end-caps. The result is filter element with exceptional strength assuring high-efficient filtration and allowing large number of sterilization cycles.



FILTER ELEMENT RATING ACCORDING TO ISO8573-1

Solid particles	Water	Oil
Class 1	-	-

Validated according to ISO12500-3

TECHNICAL SPECIFICATION

Operating temperature	-20 / +150°C	-4 / +302 °F
Short duration temperature limit (max 15min)	200 °C	392 °F
Operating pressure	Ambient or max 0,5barg	Ambient or max 0,5barg
Differential pressure (dry)	80 mbar	1,160 psi
Differential pressure (wet)	190 mbar	2,756 PSI
Particle retention (nominal)	99,999% (0,01 µm)	
Manufactured without use of binders or other chemical additives		✓
100% integrity tested (DOP test)		✓
All components meet the FDA requirements for contact with food in accordance with the Code of Federal Regulations (CFR), title 21		✓

MATERIALS

Filter media	Borosilicate micro fibers
Support media	NOMEX*
Support (inner-outer)	Stainless Steel 1.4301
Bonding	Silicone
Endcaps	Stainless Steel 1.4301
Sealing	Silicone

*Nomex is a registered trademark of E.I. du Pont de Nemours and Co. Inc.

SIZES

FILTER	DIMENSIONS [mm]	VOLUME FLOW [m ³ /h] at 1 bara, 20°C	
		Dp= 20mbar(g)	Dp= 40mbar(g)
SDL 30440	Ø=42;L=76	4,5	9
SDL 30880	Ø=62;L=128	12	24
SDL 38940	Ø=86;L=128	17	35
SDL 30881	Ø=86;L=254	35	70
SDL 30882	Ø=86;L=508	70	140
SDL 30883	Ø=86;L=762	105	210

ø=Diameter;L=length

STERILIZATION (saturated steam)

Comulative steaming time:

- 121°C/250°F, Sterilization 30min, Heating and cooling 30min (100 cycles)
- 132°C/270°F, Sterilization 20min, Heating and cooling 40min (100 cycles)
- 143°C/290°F, Sterilization 10min, Heating and cooling 50min (100 cycles)

MAINTENANCE

Replace filter element when first of following criteria is reached:

- twelve months in operation
- prescribed number of sterilisation cycles

Please note that all filter elements are delivered unsterile in unsterile packaging! Please sterilize the filter elements before first use if needed for the application.

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