Ultraporex® SB

The prefilter for the removal of oil, water and dust particles with absolute retention efficiency.

Cross section of the Ultraporex® prefilter

Product description:

The Ultraporex® prefilter contains the highly porous sinter bronze filter medium. It ensures the retention of coarse solid and liquid particles. The available pore sizes of 5, 25 and 50 µm allow a wide application spectrum.

Characteristics:

By utilising various filtration mechanisms such as retention by direct impact, sieve effect and diffusion effect, liquid aerosols and solid particles will be retained in the filter down to a 5 µm particle size. The high-grade sinter bronze medium guarantees not only a high load of contaminants but also the regeneration of the filter element.

Applications:

The Ultraporex® prefilter is for example being utilised in the following industries

- Chemical industry
- Petrochemical industry
- Pharmaceutical industry
- Plastic industry
- General machine fabrication
- Food industry
- Beverage industry
- Process industry for instrumentation and control air

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Technical data

Donaldson Ultrafilter®

Ultraporex® SB

Features:	Benefits:
Filter surface: 5.5 sq.in. (02/05) up to 480 sq.in. (30/50)	Appropriate for any volume flow
Void volume- porosity grade larger than 60%	High dirt holding capacity: lower differential pressure
Temperature range- constant temperature from -4°F to +248°F	Broad application spectrum
Regenerative- repeatable regeneration possible, combined with exact retention rates	Economical, longer service life time
Removal of all contaminants down to either 5, 25 or 50 µm	Guaranteed retention rate

Materials:	
Filter medium	Pure, sintered bronze 2.1052
Bonding	Polyurethane
End caps	Aluminium
2 O-Rings	Perbunan- silicon-free and free of parting compound (standard)

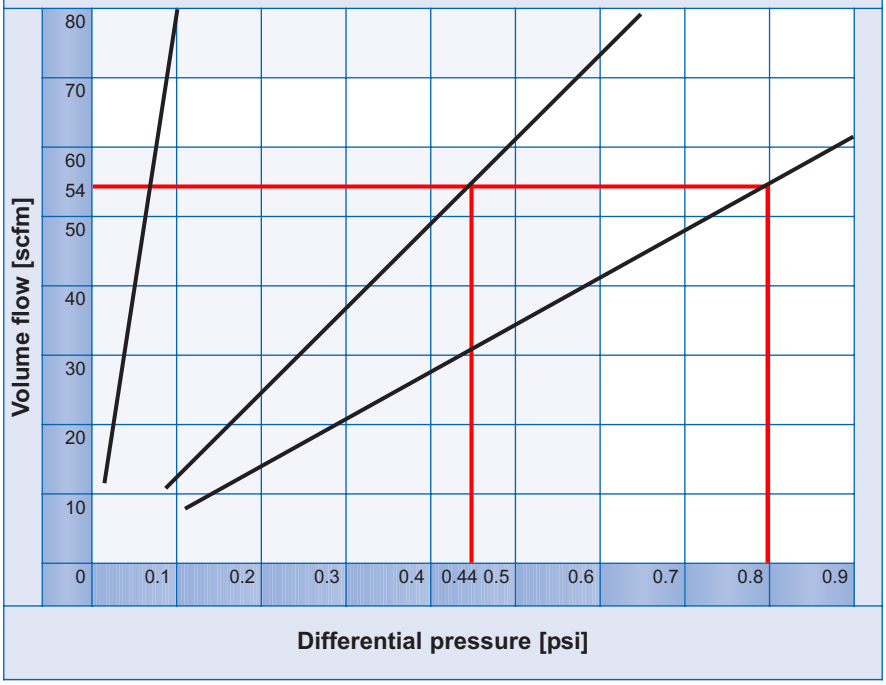
Retention rate:
100% in gases (defined retention rate of particles, larger than the pore size)

Maximum differential pressure:
30 psi at 68°F, irrespective of system pressure

Initial differential pressure at nominal flow:
SB= 0.43 psi (25 µm pore size)

Performance of SB elements - compressed air

These curves define the flow of a 10/30 filter element at standard conditions (14.5 psi; 68°F; R.H. = 70%)



Element-Type	Correction Factor Filter surface KF
02/05	0.06
03/05	0.09
03/10	0.12
04/10	0.17
04/20	0.19
05/20	0.25
05/25	0.32
07/25	0.47
07/30	0.68
10/30	1.0
15/30	1.55
20/30	2.10
30/30	3.20
30/50	5.73