

Ultraporex SB

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

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.



Cross section of the Ultraporex prefilter

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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Features:	Benefits:
Filter surface: 35 cm ² (02/05) up to 3100 cm ² (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 -20°C to +120°C	Broad application spectrum
Regenerative- repeatable regenerati- on 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 material no. 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:

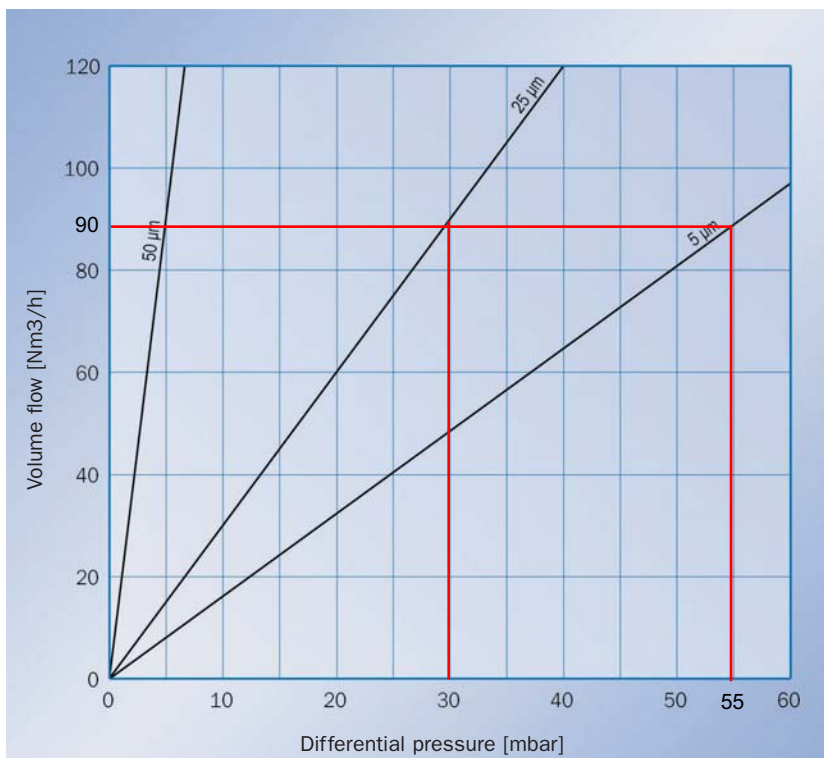
2 bar at 20°C,
irrespective of system pressure

Initial differential pressure at nominal flow:

SB= 0.03 bar (25 µm pore size)

Performance of SB elements- compressed air

These curves define the flow of an 10/30-filter element
at standard conditions (1 bar (abs): 20°C; F= 70%)



Element-Type	Correction Factor Filter surface KF
02/05	0.08
03/05	0.10
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	5.65