

# 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

## Ultraporex® SB

Features:	Benefits:
Filter surface: 35 cm <sup>2</sup> (02/05) up to 3100 cm <sup>2</sup> (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	Epoxy resin
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:

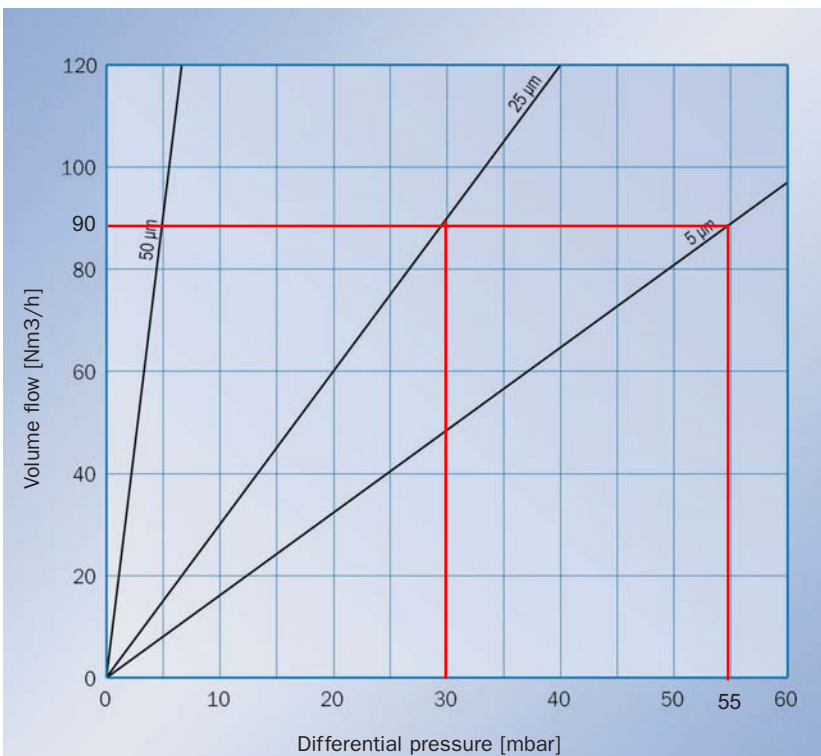
2 bar at 20°C,  
irrespective of system pressure

### 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