Ultraporex SBP

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

Cross section of the Ultraporex prefilter

Product description:

The silicone free 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

- Automobile industry (applications of lacqer finishes)
- Chemical industry
- Petrochemical industry
- Pharmaceutical industry
- Plastic industry
- General machine fabrication
- Food industry
- Beverage industry
- Process industry for instrumentation and control air

Donaldson Filtration Deutschland GmbH · Industrial Filtration Solutions · Büssingstraße 1 · D-42781 Haan · Telefon +49/2129/569-0 · Telefax +49/2129/569-100

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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 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 material no. 2.1052
Bonding	Polyurethane
End caps	Aluminium
2 O-Rings	Viton, labs-free

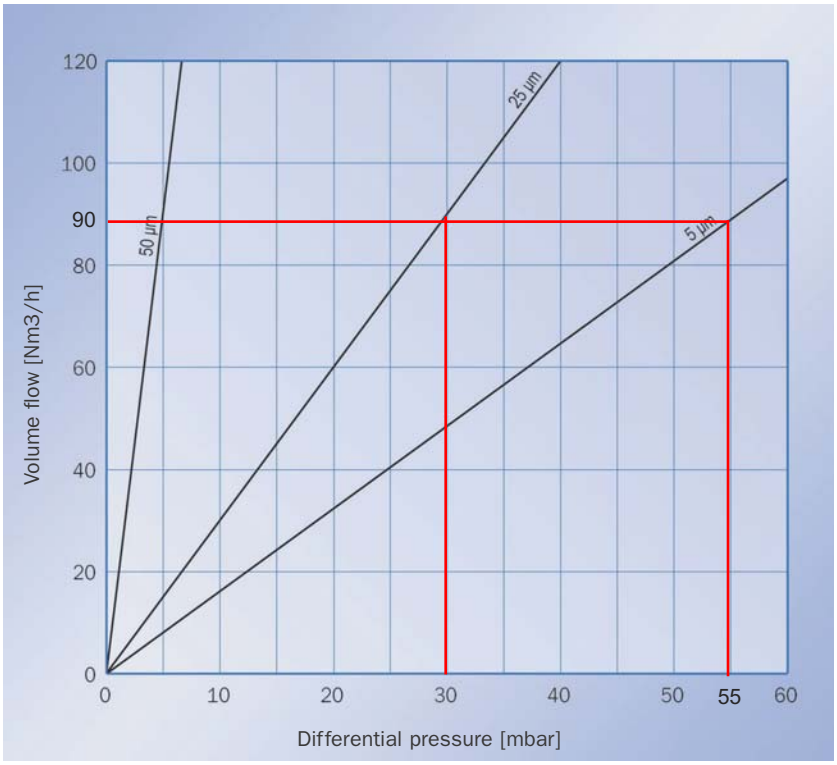
Retention rate:
100% in gases (defined retention rate of particles, larger than the pore size

Maximum differential pressure:
2 bar at 20°C, irrespective of system pressure

Initial differential pressure at nominal flow:
SBP= 0.03 bar (25 µm pore size)

Performance of SBP 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