



**Silicone-free pre-filter for the removal of oil, water, and dust particles with absolute retention efficiency.**

Donaldson® silicone free pre-filter contains highly porous sinter bronze filter media. 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.

By utilizing various filtration mechanisms such as direct impaction, sieving, and diffusion, liquid aerosols and solid particles down to the 5 µm particle size are captured. The high-grade sintered bronze media ensures a high-load capacity of contaminants, and can be regenerated many times. The combustion-resistant bronze material also makes it a suitable product for use in oxygen-rich environments.



**SBP**

**APPLICATIONS**

SBP filter elements are ideal in the following industries and applications:

- Automotive
- Chemical
- Petrochemical
- Pharmaceutical
- Plastic
- Food
- Beverage
- Instrumentation and control air

FEATURES	BENEFITS
Filter surface: 35.425 in <sup>2</sup> (02/05) up to 480.501 in <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 -4°F to +248°F	Broad application spectrum
Regenerative – repeatable regeneration possible, combined with exact retention rate	Economical, longer service life
Removal of contaminants down to either 5, 25 or 50 µm	Guaranteed retention rate

## SPECIFICATIONS

### MATERIALS

Filter Media	Pure, sintered bronze material no. 2.1052
Bonding	Polyurethane
End Caps	Aluminum
Two O-Rings	Viton®, labs-free

### DIFFERENTIAL PRESSURE

Maximum Differential Pressure	29 psi @ 68°F regardless of system pressure
Initial Differential Pressure at Nominal Flow	0.435 psi (25 µm pore size)

### RETENTION RATE

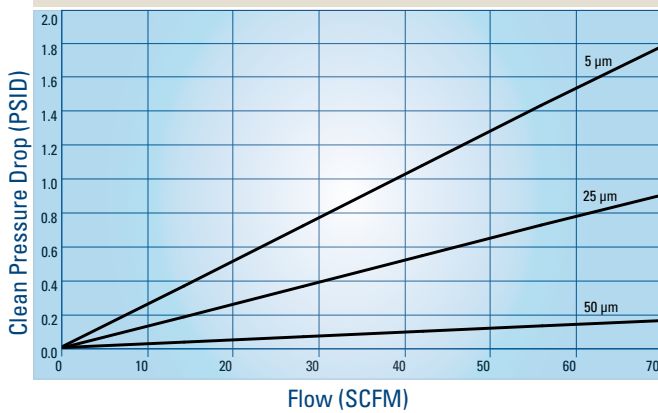
Retention Rate	100% in gases (defined retention rate of particles larger than the pore size)
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### ELEMENT TYPE

### 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

**SBP Element Performance –  
Compressed Air**



**Important Notice**

Many factors beyond the control of Donaldson can affect the use and performance of Donaldson products in a particular application, including the conditions under which the product is used. Since these factors are uniquely within the user's knowledge and control, it is essential the user evaluate the products to determine whether the product is fit for the particular purpose and suitable for the user's application. All products, specifications, availability and data are subject to change without notice, and may vary by region or country.



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**F117093 ENG (08/18) SBP Particle Filter Elements**

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