



SB

PARTICLE FILTER ELEMENTS

fits Donaldson SG & HD housings

Process Filtration

Regenerable filter element for the removal of oil, water, and dust particles.

Donaldson® SB filter elements contain a highly porous sintered bronze filter media. It ensures the retention of coarse solid and liquid particles.

By utilizing various filtration mechanisms such as direct impaction, sieving, and diffusion, liquid aerosols and solid particles will be retained in the filter down to the 5 µm particles size. The high-grade sintered bronze media ensures not only a high-load capacity of contaminants, but it has the ability to be regenerated many times.

APPLICATIONS

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

- Chemical
- Petrochemical
- Pharmaceutical
- Plastic
- Food & Beverage
- General machine fabrication
- Instrumentation and control air



SB

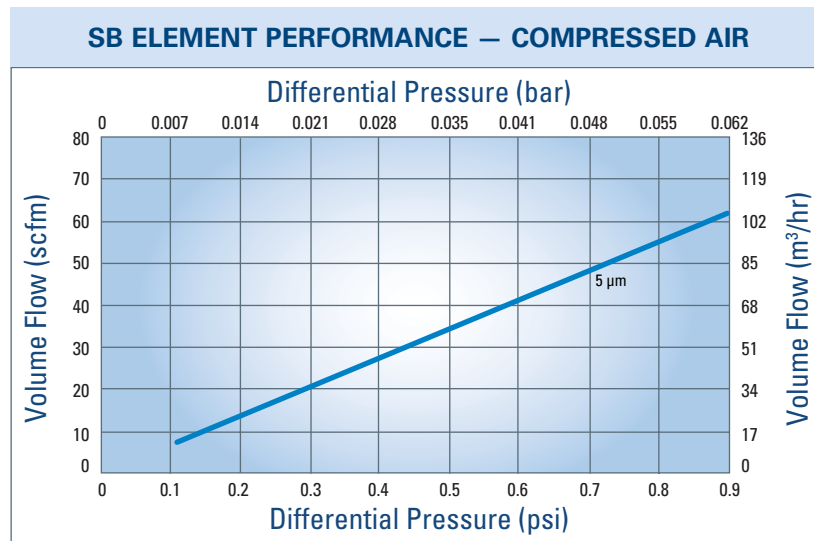
FEATURES	BENEFITS
Filter surface: 5,110 cm ² (02/05) up to 445,934 cm ² (30/50) 5.5 in ² (02/05) up to 480 in ² (30/50)	Suitable for a wide range of applications and flow ranges
Void volume – porosity grade larger than 60%	High dirt holding capacity; lower differential pressure
Temperature range: constant temperature from -20° C up to +120° C (-4° F up to +248° F)	Broad application range
Regenerative – repeatable regeneration possible	Economical, longer service lifetime
High level of contaminant removal	Absolute retention grade

SPECIFICATIONS

MATERIALS	
Filter Media	Pure, sintered bronze material no. 2.1052
Bonding	Polyurethane
End Caps	Aluminum
Two O-Rings	Buna

DIFFERENTIAL PRESSURE	
Maximum Differential Pressure	2.0 bar @ 20° C (29 psi @ 68° F) regardless of system pressure
Initial Differential Pressure at Nominal Flow	2.0 bar (0.29 psi) 25 µm pore size

RETENTION RATE	
Retention Rate	> 99.98% in gases; defined rate of particles larger than the pore size



These curves define the flow of a 1030 filter element at standard conditions (14.7 psia; 68°F. R.H.= 70%)

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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