Donaldson
FILTRATION SOLUTIONS

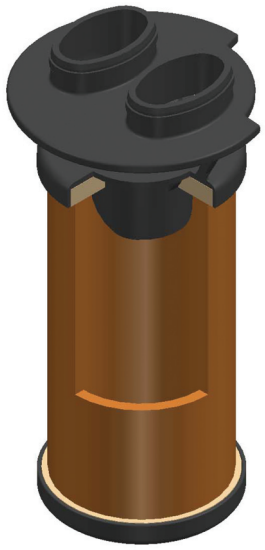
ULTRAPOREX B
PARTICLE FILTER ELEMENTS

Compressed Air & Process Filtration

Prefilter element for the removal of particulate contaminants in gases.

Donaldson Ultraporex B prefilter elements utilize a highly porus sintered media for absolute filtration of particles down to 25 µm in size. The primary filtration mechanism of this media is sieving, which captures most particles near the surface allowing for regeneration of the element and reduced operating cost through fewer element change-outs. Although the Ultraporex B is primarily used as a particulate prefilter, a simple reversal of flow through the element allows the Ultraporex B to be used as an effective course coalescing filter element, removing bulk quantities of water and oil from an air or gas stream (standard housings are equipped with an internal float drain, so no special equipment is required).

The high-grade sintered bronze media ensures not only a high load capacity of contaminants, but also long life through its resistance to aggressive condensates and its ability to be regenerated many times.



Ultraporex Type B Prefilter Element

APPLICATIONS

Ultraporex B filter elements are ideal in the following industries and applications:

- Particulate prefilters upstream of final filters
- Centralized prefiltration in compressor rooms
- Course coalescing after cyclone separators and before fine coalescers
- Installations with aggressive condensates

Operating Pressure (psi)	Conversion Factor (f_p)
15	0.25
30	0.36
45	0.50
60	0.60
75	0.75
90	0.90
100	1.00
115	1.10
130	1.20
150	1.40
160	1.50
175	1.60
190	1.75
200	1.90
220	2.00
250	2.10

Element Type	Flow Rate 100 psi (cfm)*
0035	20
0070	41
0120	70
0210	123
0320	188
0450	264
0600	353
0750	441
1100	647

Sizing example for pressure which deviates from nominal pressure:
V_{nom} = 200 cfm, operating pressure = 130 psi
V_{corr} = Vnom /fp
V_{corr} = 200 cfm / 1.25 = 165 cfm
Calculated Size: Type 0320
*cfm related to 15 psi abs. and 68°F

ULTRAPOREX B

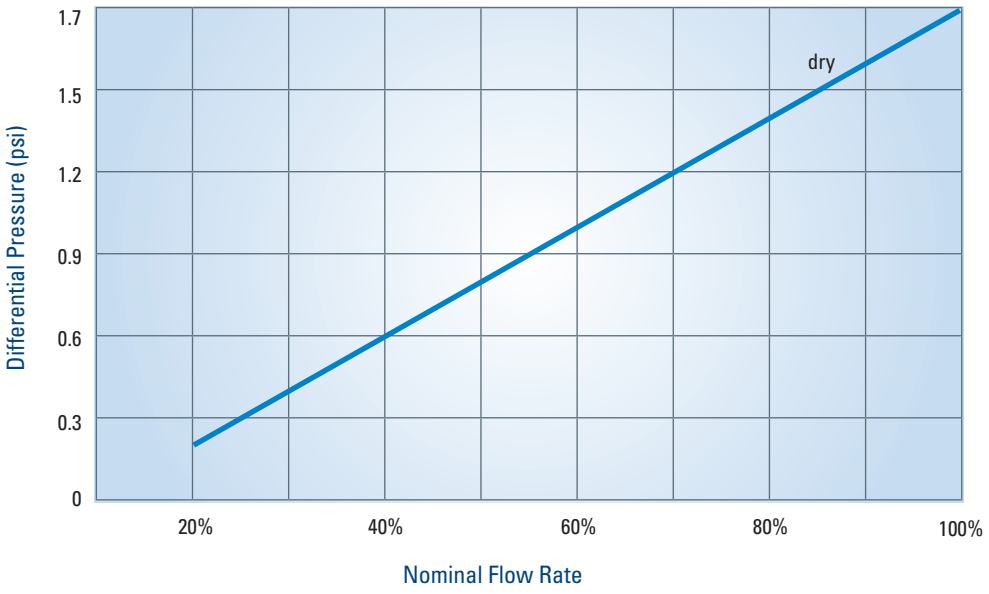
FEATURES	BENEFITS
Void volume - porosity grade larger than 60%	High dirt holding capacity Lower differential pressure
Regenerative - repeatable regeneration possible, combined with exact rates	Economical, longer service lifetime

SPECIFICATIONS

MATERIALS	
Filter Medium	Pure sintered bronze material no. 2-1052
Bonding	Polyurethane
End Caps	Glass fiber reinforced polymer
Two O-Rings	Perbunan®*: silicone free and free of compound (standard)

Retention Rate	> 99.98% in gases; defined rate of particles larger than the pore size (25 µm)

Differential pressure of B - filter element including filter housing in dry condition at 116 psi absolute



* Perbunan® is a registered trademark of LANXESS Deutschland GmbH.

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Ultraporex B Particle Filter Elements Data Sheet (09/11)