



P

PARTICLE FILTER ELEMENTS

Compressed Air & Process Filtration

Prefilter element for the removal of solid contaminants in gases.

Donaldson P prefilter elements utilize a highly porous sintered polyethylene 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 P element is primarily used as a particulate prefilter, a simple reversal of flow through the element allows the P to be used as an effective coarse 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).



P Particle Filter Element

APPLICATIONS

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

- Particulate prefilters upstream of final filters
- Centralized prefiltration in compressor rooms
- Particle filtration after cyclone separators
- Coarse coalescing after cyclone separators and before fine coalescers

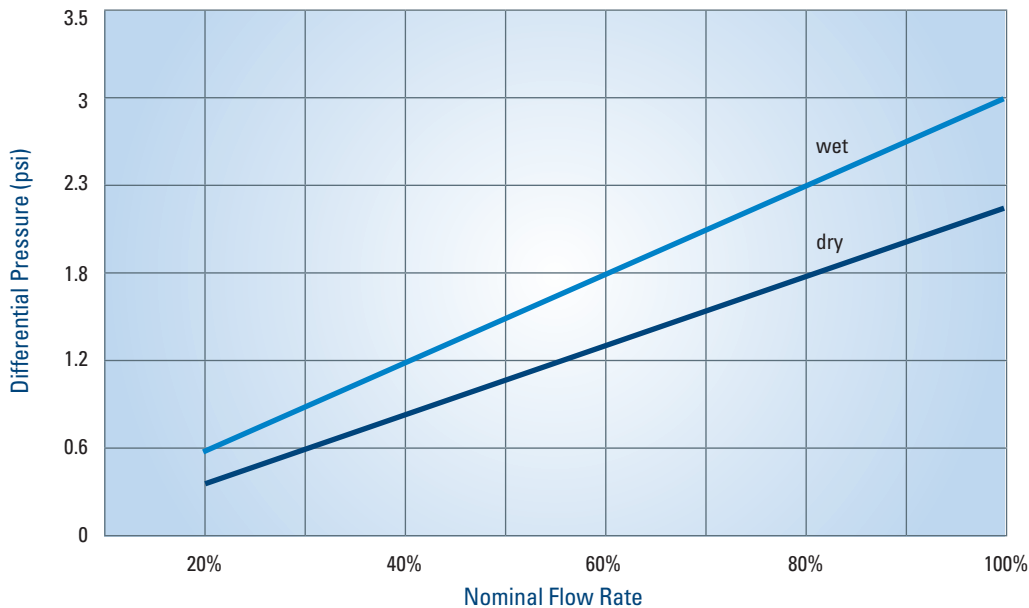
FEATURES	BENEFITS
Void volume: porosity grade 45%	High dirt holding capacity Lower differential pressure
Removal of contaminants down to 25 µm	Absolute retention grade
Regenerative	Economical, longer service lifetime

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SPECIFICATIONS

MATERIALS		RETENTION RATE	
Filter Medium	Polyethylene	Particulate	> 99.98% @ 25 µm
Bonding	Polyurethane	Oil retention rate according to ISO 12500-1	P = 90%
End Caps	Glass fiber reinforced polymer	Residual oil content at an inlet concentration of 10 mg/Nm ³	P = 1
Two O-Rings	Viton: silicone free and free of compound (standard)		

Differential pressure of P - filter element including filter housing in dry and wet condition at 116 psi absolute



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