DUALSEP

particle filter elements for gas

DUALSEP filter cartridges are designed to remove solid particles from compressed air, nitrogen, hydrogen and natural gas.

- Mist agglomeration
- High dirt holding capacity
- High flow rate and low drop pressure
- High flow rate for each filter element
- Metallic cage for corrosion resistance

The DUALSEP filter elements are manufactured using a pleated structure made with two different layers: the external layer provides high dirt holding capacity; the internal one agglomerate the mist in larger drops.

The installation of DUALSEP is recommended in wet gas handling, upstream any liquid/gas separation system to prevent from clogging and to reduce extraordinary maintenance.

The Stainless Steel cages protect the filtration layers during handling, installation and maintenance, reducing damages from eventual pressure inversion.

Characteristics

Description	
* Gas filtration efficiency	1 μm @ 80% ÷ 5 μm @ 99% ÷ 10 μm @ 99,99%
Design temperature	120 °C
Operating temperature	min. 1°C / max. 100° C
Δp new filter	60 mbar
Δp filter change	0,5 ÷ 0,7 bar
Max. differential pressure	3 bar
Flow direction	Outside/ Inside
Media arrangement	Pleated
Assembly	Horizontal or Vertical

* Filtration efficiency varies according to gas umidity.

Materials

Description	Type DLS
End caps	Stainless Steel AISI 304
Internal core	
External cage	
Media	Cellulose resin impregnated + Polyester + metallic cage
Standard gaskets	Viton
Gaskets on request	S=Silicone ; T=Teflon

Selection table

FILTER ELEMENT	SURFACE AREA	FLOW RATE	DIMENSIONS mm				
MODEL	cm^2	m^3/h **	**A**	**B**	**C**	**D**	Drawing
DLS - 4002 - DS	8.400	300	700	120	80	N/A	Fig.1
DLS - 6002 - DS	19.000	600	915	170	110		
DLS - 8002 - DS	25.000	1200	915	210	155	16	Fig.1 and 2

** The flow rates are referred to air at 1 bar (14,5 psi) abs and 20°C (68°F)

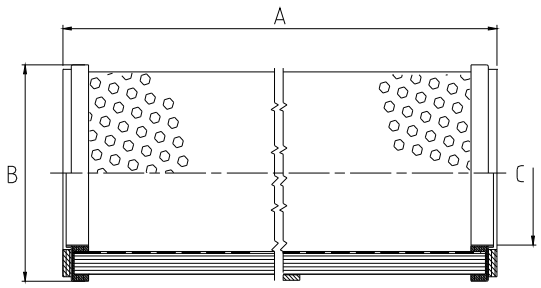

Fig.1

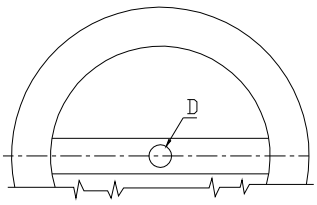

Fig.2

For size 8002 only

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