

# FILTER ELEMENT - S

Super-Fine filter (Particulate + Coalescing)

## DESCRIPTION

S grade filter elements have been specifically developed for high efficient removal of solid particles, oil aerosols and water from compressed air<sup>(1)</sup>.

## APPLICATIONS<sup>(2)</sup>

- Automotive
- Electronics
- Food & Beverage
- Chemical
- Petrochemical
- Plastics
- Paint
- General industrial application

<sup>(1)</sup>For any other technical gas please contact us or your local dealer

<sup>(2)</sup>S grade filter element can be used in variety of applications. For applications not listed please contact us or your local dealer.



## FILTER ELEMENT RATING ACCORDING TO ISO8573-1

Solid particles	Water	Oil
Class 1	-	Class 1

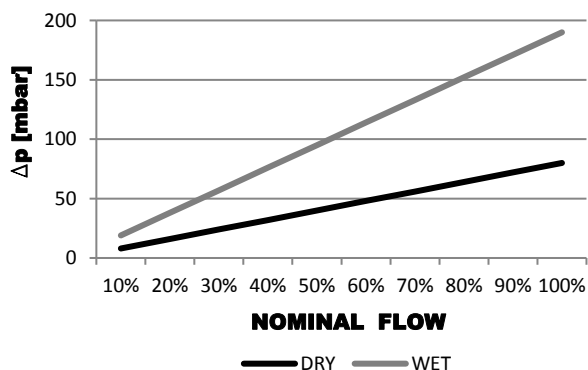
Validated according to ISO12500-1 and ISO12500-3

## TECHNICAL SPECIFICATION

Operating temperature	1,5 - 65 °C	35 - 149 °F
Operating pressure	0 - 16 barg	0 - 232 psi
Differential pressure (dry)	80 mbar	1,160 psi
Differential pressure (wet)	190 mbar	2,756 PSI
Particle retention (nominal)	99,9999% (0,01 µm)	
Particle retention rate ISO <sup>(3)</sup>	99,998 %	
Residual oil content <sup>(4)</sup>	< 0,01mg/m <sup>3</sup>	
Flow direction	INSIDE to OUT	

<sup>(3)</sup>Tested according to ISO12500-3, 1bar(a), nominal flow, 06050 S, MPPS-(0,3/µm)

<sup>(4)</sup>Tested according to ISO12500-1, 06050 S, Oil aerosol viscosity 32mm<sup>2</sup>/s, inlet concentration 10mg/m<sup>3</sup>



## MATERIALS

Filter media	Borosilicate micro fibers
Drainage media	Polyester based polyurethane
Support (inner-outer)	Stainless Steel 1.4301
Bonding	Polyurethane
Endcaps	PA6 with 30% glass fibers
Sealing	NBR

**SIZES**

FILTER ELEMENT SIZE	DIMENSIONS [mm]	FLOW CAPACITY [Nm <sup>3</sup> /h]	FLOW CAPACITY [scfm]	FITS INTO FILTER HOUSING
03528 S	Ø=28;h=35	10	6	AAF 0006
05528 S	Ø=28;h=55	18	11	AAF 0016
03844 S	Ø=44;h=38	30	18	AAF 0026 / 0036
06050 S	Ø=51;h=60	60	35	AAF 0046 / AF & AAF 0056
07050 S	Ø=51;h=70	78	46	AF & AAF 0076
14050 S	Ø=51;h=140	120	70	AF & AAF 0106
12075 S	Ø=75;h=125	198	116	AF & AAF 0186
22075 S	Ø=75;h=225	335	197	AF & AAF 0306
32075 S	Ø=75;h=325	510	300	AF & AAF 0476
50075 S	Ø=75;h=505	780	459	AF & AAF 0706
51090 S	Ø=90;h=510	1000	588	AF 0946
76090 S	Ø=90;h=760	1500	882	AF 1506
76090 S	Ø=90;h=760	1680	990	AF 1756
51140 S	Ø=140;h=510	2160	1270	AF 2006
75140 S	Ø=140;h=750	2760	1620	AF 2406

ø=Diameter;h=Height

**CORRECTION FACTORS**

To calculate the correct capacity of a given filter based on actual operating conditions, multiply the nominal flow capacity by the appropriate correction factor(s).

CORRECTED CAPACITY = NOMINAL FLOW CAPACITY x C<sub>OP</sub>


**OPERATING PRESSURE**

[bar]	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
[psi]	29	44	58	72	87	100	115	130	145	160	174	189	203	218	232
C <sub>OP</sub>	0,38	0,5	0,63	0,75	0,88	1	1,13	1,25	1,38	1,50	1,63	1,75	1,88	2,00	2,13

**MAINTENANCE**

Replace filter element at least once per year or when pressure drop reaches 350mbar.

INFORMATION IN THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE

	<p>Our quality management system is certified by BUREAU VERITAS in conformity with ISO 9001:2008 Reg. number: 200285</p>	
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