ARS-RB / ARS-RA
high efficiency filter elements

ARS-RB /RA filtering elements are manufactured to remove aerosol oil and solid particles from compressed air and gas.

- High separation efficiency
- Low pressure drops, Energy saving
- Stainless steel metal parts
- O ring for radial sealing

The filter elements use the coalescer characteristic of the material of the filter media; The contaminants flows through the filtering element from inside to outside; the particles are retained inside the filtering media while the micro particles are retained and agglomerate by the retention barrier, than by gravity fall in the lower side of the housing. The condensate is eliminated by the manual or automatic drainer. The high filtration efficiency up to the size of 0.01micron provides the adequate protection to critical equipment in painting, food electronic and textile applications.
The pleated filtering media enhance the filtering area, lowering the pressure drops and providing a longer service life.
These filter elements provides a quality of the compressed air compliant to ISO 8573-1-2010 directive.

Filtration grade and characteristics

Description	RB	RA
Filtration grade	1 micron	0,01 micron
Residual Oil content at 20°C	0,1 mg/m3	0,01 mg/m3
Design temperature	80 °C	
Operating temperature	min. 1°C / max. 60° C	
ΔP new filter	< 120 mbar	< 140 mbar
ΔP wet filter	< 150 mbar	< 200 mbar
Max. differential pressure	3 bar	
Flow direction	Inside / Outside	
Filter media	Pleated	
Filter change	12 months or ΔP > di 500 mbar	
Housing	serie AIR-VIP model CDF	

ARS-RB / ARS-RA coalescer filter elements

Materials

Description	Materials
End caps	Tecnopolymer - (for ARS 1400 : stainless steel)
Internal / External core	Stainless steel
Media	Borosilicate glass fiber + Cellulose
Antientrainment barrier	Polyester
Bonding	Polyurethane
Standard gaskets	Buna N

Selection table

Model	Grade	Filtering area	Flow rate *		Dimensions mm			
		cm^2	Nm^3/h	Nl/min	Design	A	B	C
ARS-30		120	60	1000		75	26	45
ARS-100		370	120	2000		165	26	45
ARS-180		620	220	3666		169	42	59
ARS-290		1040	330	5500		269	42	59
ARS-460		1380	500	8333	fig1	270	58	71
ARS-610	**RB / RA**	1950	680	11333		370	58	71
ARS-930		2400	1000	16666		373	82	82
ARS-1050		3000	1200	20000		473	82	82
ARS-1250		4400	1500	25000		700	82	82
ARS-1400		4800	1620	27000	fig2	350	120	80
ARS-2300		9200	2300	38333	fig1	715	115	98

* Flow rate are referred to air at compressor intake conditions (1 bar absolute @ 20 °C) and compressed at 7 barg

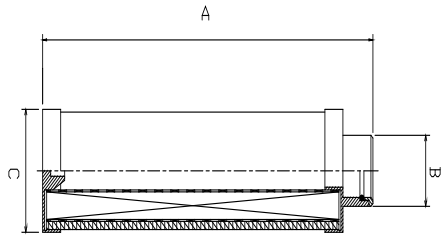

Fig.1

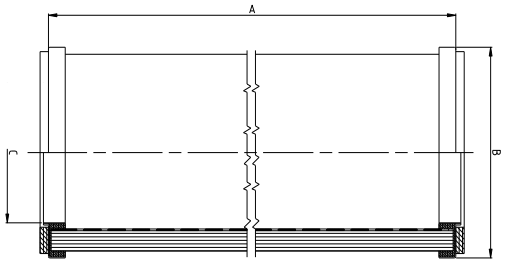

Fig.2

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