



Filter housing APF103

Design / capacity		
Connection	Rp 1" female thread	
Nominal capacity	220 m³/h with APE91 at 1 bar (abs.) and 20°C at 7 bar g	
Maximum capacity	454 m³/h with APE91 at 1 bar (abs.) and 20°C at 16 bar g	
Maximum working pressure	16 bar g	
Material	Aluminum	
Operating temperature maximum	120 °C	
Coating inside / outside	Corrosion protection layer	
Colour outside	RAL 5010 (powder coated)	
Fixing element	Wing suspension	
Condensate drainage connection	Rp 1/2" female thread	
Dimensions in mm	A	328
[Dimension drawing on the last page]	B	23
	C	104
	D	98
Weight (incl. element and drainage)	1,90 Kg	
CE norm	CE free according 2014/68/EU	

Scope of supply	
Housing	APF103
Filter element	APE91
Types of condensate drainage:	
VF25 - FF5 - MFO - MF1 - SMA	D150
DMF - DF1 - DSF, CA	HAM12

Options		
Differential pressure gauge	APF-DPN	
Level-controlled condensate drain	KN1	
Level-controlled condensate drain	KN5	
Filter connection sets for 2 - 3 filters	APF-VEE-(2/3)-M	
Wall mounting brackets, including filter connecting kit	APF-WHE-(1/2/3)-M	

Capacity filter elements APE91

Type	Particle filtration	Residual oil content	Working temperature [°C]		Differential pressure [mbar]			ISO classes*	
	[micron]	[mg/m³]	max.	recomm.	new	moistened	replacement	particle	oil
APE91VF25	25	10	120	-	45	50	every 12 months	5	5
APE91FF5	5	5	120	-	50	75	every 12 months	3	4
APE91MFO	1	0,5	120	-	55	85	every 12 months	2	3
APE91MF1	0,1	0,1	120	-	65	90	every 12 months	1	2
APE91SMA	0,01	0,01	120	-	75	110	every 12 months	1	1
APE91DMF	1	-	120	-	55	-	every 12 months	2	-
APE91DF1	0,1	-	120	-	65	-	every 12 months	2	-
APE91DSF	0,01	-	120	-	75	-	every 12 months	1	-
APE91CA	-	0,003	50	25	100	-	every 300-400 operating hours	-	1

*Compressed air quality according ISO 8573-1:2010



Filter elements APEg1 VF25 - FF5 - MFO - MF1 - SMA

Design	
Flow direction	From the inside out
Material end caps	Glass-fibre reinforced nylon (30%)
Support body inside and outside	Stainless steel
Filtration medium	Borosilicate microfiber fabric
Pre- and after filtration	Polypropylene netting
Drainage layer	Nonwoven polyester
Bonding end caps	Two-part epoxy resin
Material o-ring	NBR
Distinctive characteristics	Technically silicone-free
Cavity volume at 20°C	96%

Filter elements APEg1 CA

Design	
Flow direction	From the inside out
Material end caps	Glass-fibre reinforced nylon (30%) - (temperature resistant up to 120°C)
Support body inside and outside	Stainless steel
Filtration medium	Non-woven medium, activated carbon impregnated
After filtration	Borosilicate microfibre
Bonding end caps	Two-part epoxy resin
Material o-ring	NBR
Distinctive characteristics	Technically silicone-free
Cavity volume at 20°C	96%

Filter elements APEg1 DMF - DF1 - DSF (dust filtration)

Design	
Flow direction	From the outside in
Material end caps	Glass-fibre reinforced nylon (30%) - (temperature resistant up to 120°C)
Support body inside and outside	Stainless steel
Filtration medium	Borosilicate microfiber
Pre- and after filtration	Polypropylene netting
Bonding end caps	Two-part epoxy resin
Material o-ring	NBR
Distinctive characteristics	Technically silicone-free
Cavity volume at 20°C	96%

Correction factors	
Working pressure	bar g
	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
	Coefficient
	0,38 0,50 0,63 0,75 0,88 1,00 1,12 1,25 1,37 1,49 1,62 1,74 1,86 1,98 2,10

Multiply the capacity of the filter by the correction factor in the upper table.

