

Compressed air filter APF410 with filter element APE320-410

Rev 01_1122



Filter housing APF410

Design / capacity		
Connection	Rp 1 1/2" NPT female thread	
Nominal capacity	410 scfm with APE320-410 at 14.5 psi (abs.) and 68°F at 101.5 psig	
Maximum capacity	897.05 scfm with APE320-410 at 14.5 psi (abs.) and 68°F at 232 psig	
Maximum working pressure	232 psig	
Material	Aluminum	
Operating temperature maximum	248 °F	
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 inch	A	24.09
[Dimension drawing on the last page]	B	1.34
	C	6.06
	D	5.91
Weight (incl. element and drainage)	14.08 lbs	
Norm	ASME B31.3;2020	

Scope of supply		
Housing	APF410	
Filter element	APE320-410	
Types of condensate drainage:		
VF25 – FF5 – MFO – MF1 – SMA	D150	
DSF - DMF. CA	HAM12	

Options		
Differential pressure gauge	APF-DPN	
Level-controlled condensate drain	KN1	
Level-controlled condensate drain	KN5	
Filter connection sets for 2 - 4 filters	APF-VEE-(2/3)-L	
Wall mounting brackets. including filter connecting kit	APF-WHE-(1/2/3)-L	

Capacity filter elements APE320-410

Type	Particle filtration	Residual oil content	Working temperature [Fahrenheit]		Differential pressure [psi]			ISO classes*	
	[micron]	[mg/m³]	maximum	recommended	new	moistened	replacement	particle	oil
APE320-410CA	-	0.003	122	77	1.5	-	every 6 months	-	1
APE320-410DMF	1	-	248	-	0.8	-	every 12 months	2	-
APE320-410DSF	0.01	-	248	-	1.1	-	every 12 months	1	-
APE320-410FF5	5	5	248	-	0.7	1.1	every 12 months	3	4
APE320-410MF1	0.1	0.1	248	-	0.9	1.3	every 12 months	1	2
APE320-410MFO	1	0.5	248	-	0.8	1.2	every 12 months	2	3
APE320-410SMA	0.01	0.01	248	-	1.1	1.6	every 12 months	1	1
APE320-410VF25	25	10	248	-	0.7	0.7	every 12 months	5	5

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Filter elements APE320-410 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 68°F	96%

Filter elements APE320-410 CA

Design	
Flow direction	From the inside out
Material end caps	Glass-fibre reinforced nylon (30%) - (temperature resistant up to 248°F)
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 68°F	96%

Filter elements APE320-410 DSF - DMF (dust filtration)

Design	
Flow direction	From the outside in
Material end caps	Glass-fibre reinforced nylon (30%) - (temperature resistant up to 248°F)
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 68°F	96%

Correction factors	
Working pressure	psig
	29 43.5 58 72.5 87 101.5 116 130.5 145 159.5 174 188.5 203 217.5 232
	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.

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Compressed air filter APF410SMA with filter element

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Dimensional drawing

