Process Air Prefilter element

NP-FF / NP-MF / NP- SMF / NP-AK

Specifications

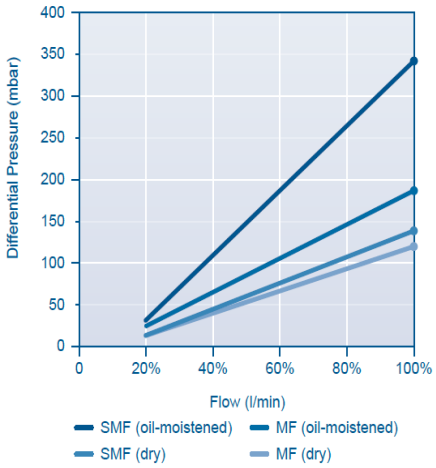
Size, mm:	See table
Filtration rate:	0,01 µm
Efficiency	99,999% - 99,99999%
Max temp:	-20°C to 80°C
Max differntial pressure:	5 bar @ 20°C
Matertial:	Stainless steel SS304 end caps
O-ring	Perbunan Gasket (others avaliable)

All our standard coalescing, particulate and activated carbon filters are available as pre-filters for our stainless steel filter housings for critical installations.

Thanks to the unique combination of binder free, non-woven nanofiber filter media and our special pleating techniques, we can achieve a reduction of energy costs up to 70%, at a higher than regular efficiency.

The new nanofiber material from ultrafilter is oleo phobic, which means that the oil and water particles are actively rejected in order to keep a low differential pressure drop, and consequently the operating costs are reduced to a minimum compared with a conventional filter element.

All metal components on the prefilter elements are made of stainless steel.



Type	Filtration rate	Efficiency	Residual oil content	Oil retention rate acc. ISO 12500-1	Start-up differential pressure	Max. differential pressure
NP-FF	0,01 µm	99,999%	0,1 mg/m³	99,6%	0,04 bar	5 bar at 20°C
NP-MF	0,01 µm	99,99998%	0,03 mg/m³	99,7%	0,08 bar	5 bar at 20°C
NP-SMF	0,01 µm	99,99999%	<0,01 mg/m³	99,8%	0,09 bar	5 bar at 20°C
NP-AK	N/A	N/A	0,003 mg/m³		0,07 bar	2 bar at 20°C

Element Dimensions (mm)					
Element size	A	B	Ø C	Ø D	Filtration Surface
03/10	76	12	3/4”	42	59,28 cm²
04/10	104	12	3/4”	42	83,98 cm²
04/20	104	14	1”	52	93,86 cm²
05/20	104	14	1”	52	93,86 cm²
05/25	128	14	1”	62	158 cm²
07/25	180	14	1”	62	232 cm²
05/30	128	16	2”	86	227 cm²
07/30	180	16	2”	86	336 cm²
10/30	254	16	2”	86	494 cm²
15/30	381	16	2”	86	766 cm²
20/30	508	16	2”	86	1037 cm²
30/30	762	16	2”	86	1620 cm²

Materials	
Support sleeves inner/outer	Stainless steel 1.4301
Pre- and after filter medium	Pleated cerex
Outer foam sock	HT/CR sock up to 120°C HT/NX sock up to 180°C
Filter medium	Binderfree nanofibres
Bonding	Polyurethane
End Caps	Stainless steel
O-rings	Perbunan, silicone free and free of parting compounds

Features	Benefits
Binderfree, thermally welded nanofilter media	Low differential pressure and high particle load
Oleophobe filter media	Rejects oil and water
Pleated filter media	450% more fitlration surface, high particle load capacity, low air flow speed
Support sleeves of stainless steel (316L)	Extremely large free flow, secure and long operation