

Replacement Element FFMV

Walker medical vacuum micro filter MV

Description

FFMV filters have been specifically developed for protection of vacuum pumps. These filters are optimised for high-efficient removal of solid particles and other contamination from the suction side of vacuum pumps preventing damage to the pump.

Applications ⁽¹⁾

- Vacuum pumps
- Medical vacuum applications (non sterile)

⁽¹⁾ FFMV grade filter elements can be used in variety of applications.

For applications not listed please contact us or your local dealer.

Filter Element Rating According to ISO 8573-1 (2010)

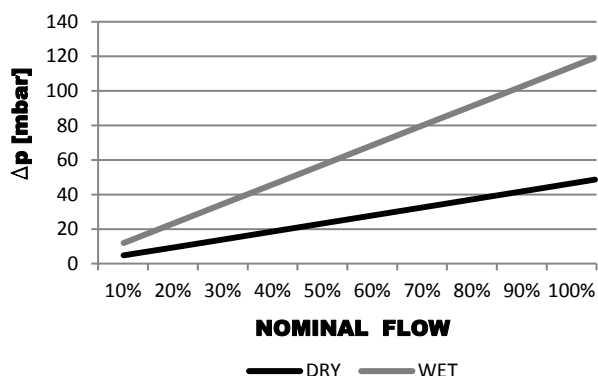
Solid particles	Water	Oil
Class 2	-	Class 2

Validated according to ISO12500-1 and ISO12500-3

Technical Specification

Operating temperature	1,5 - 65 °C	35 - 149 °F
Operating pressure	20 - 2000mbar(abs)	0,29 – 29 psi
Initial pressure drop	50mbar	0,725 psi
Particle retention (nominal)	99,9999% (0,1 µm)	
Particle retention rate ISO ⁽³⁾	99,98 %	
Flow direction	INSIDE to OUT	

⁽³⁾Tested according to ISO12500-3, 1bar(a), nominal flow, MF 03/10, Most penetrating particle size MPPS 0,3µm



Materials

Filter media	Borosilicate micro fibers
Drainage media	Polyester based polyurethane
Support (inner-outer)	Stainless Steel 1.4301
Bonding	Polyurethane
Endcaps	Aluminum
Sealing	NBR



Sizes

Filter Element Size	Dimensions [mm]
FFMV E511 MV AL	Ø=54,5; h=113
FFMV E521 MV AL	Ø=72; h=150
FFMV E811 MV AL	Ø=83; h=149
FFMV E821 MV AL	Ø=72; h=300
FFMV E831 MV AL	Ø=83; h=300
FFMV E851 MV AL	Ø=83; h=301
FFMV E1261 MV AL	Ø=83; h=500
FFMV E1281 MV AL	Ø=130; h=497
FFMV E139 MV AL	Ø=130; h=615
FFMV E88 MV AL	Ø=130; h=763

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 C₁.
- To select a filter to match system flow conditions, multiply the system flow by the correction factor C₂ that corresponds to vacuum in the pipe.

Operating Pressure

[bar] absolute	1	0,9	0,8	0,7	0,6	0,5	0,4	0,3	0,2	0,1	0,05	0,02
[psi] absolute	14,7	13	11,6	10,2	8,7	7,3	5,8	3,3	2,9	1,45	0,73	0,29
C ₁	1	0,9	0,8	0,7	0,6	0,5	0,4	0,3	0,2	0,1	0,05	0,02
C ₂	1	1,1	1,25	1,43	1,67	2	2,5	3,33	5	10	20	50

Maintenance

Replace filter element at least every 12 months or follow the instructions for specific filter element.

Change the sealing when you disassemble filter housing.

Once per year make a visual check of filter housing and make sure there is no visual damage.