

Medical Vacuum Filter MVAK

Aluminium filter housing with drain flask for the processing of air used in the medical vacuum technology.

Product description:

When in medical applications a suction potential is generated by means of a vacuum pump a medical vacuum filter is required. The medical vacuum filter is installed on the suction side of the vacuum pump where it can completely remove existing bacteria and prevent contamination to the vacuum pump and atmosphere. The efficiency of the installed filter elements exceeds the 0,005% penetration specified in HTM 2022 for infectious disease units, when tested in accordance with BS 3928.

The housings are made of three parts and due to an optimized construction offer low differential pressures at high suction capacities and are equipped with a drain flask. A multitude of various housings and connections allow to match the requirements of the application e.g. the compressor size.

The flow direction of the filter elements is from the outside to the inside.

This product series offers 10 different housings ranging from a volume flow of 5 to 240 m³/h (related to 1 bar abs. and 20°C).

Application

The medical vacuum filter can be used in the following application areas:

- Hospitals
- Dental departments
- Laboratories
- Pathology laboratories



Technical Data

Features:	Benefits:
Filter housing:	
Housing made of three parts	Savings in installation and maintenance
Acoustic alarm signal	Maximum safety
Optimised housing construction for best flow velocity	Savings in purification costs of compressed air and gases

Maximum operating pressure:
2 bar abs.

Maximum operating temperature:
+1°C / +65°C

Materials:	
Filter housing:	Aluminium die cast resp. mold cast
Screw locking ring	Aluminium with acoustic warning signal
Drain flask	Glass bottle with plastic cap
Sealing	O-ring made of Viton

Surface finish:	
outside:	Polyester powder coated
inside:	KTL-coated

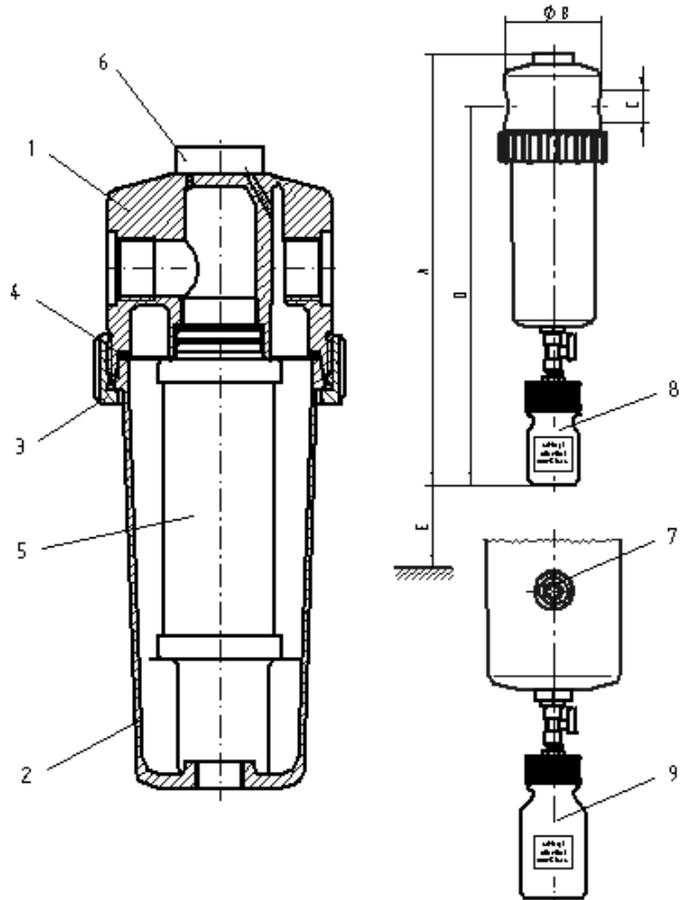
Connection:
1/4" to 3" BSP

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Pos.	Piece	Description
9 0108-0192	1	drain flask 250 ml
8 0002-0048	1	drain flask 100 ml
7	1	sight glass
6	1	cap
5	1	filter element
4	1	housing O-ring
3	1	screw locking ring
2	1	lower housing bowl
1	1	upper housing bowl

Max. operating pressure:	2 bar abs
Max. operating temperature:	+1°C / +65°C
Design temperature:	120°C
Material:	MVAK 0002 - 0036 EN AC-AISI 12 (Fe) MVAK 0048 - 0192 EN AC-AISI 7 Mg 0.3
Paint coat:	polyester, resin coating

Classification acc. to 97 / 23 / EG for fluids group 2	
MVAK 0002 - 0192	Art. 3, par. 3



Type	A mm	ø B mm	C ISO 22871	D mm	E mm	Element FFMV
0002	360	70	G 1/4	320	90	03/10
0006	410	80	G 3/8	350	120	04/20
0012	430	95	G 1/2	375	150	05/20
0018	430	95	G 3/4	375	150	05/20
0027	505	110	G 1	440	200	07/25
0036	505	110	G 1 1/4	440	200	07/25
0048	620	150	G 1 1/2	545	250	10/30
0108	800	160	G 2	725	450	15/30
0144	940	180	G 2 1/2	855	580	20/30
0192	1190	180	G 3	1105	850	30/30