

Stainless steel filter housings of aseptic construction of VM series

For compressed air and non-aggressive and incombustible gases

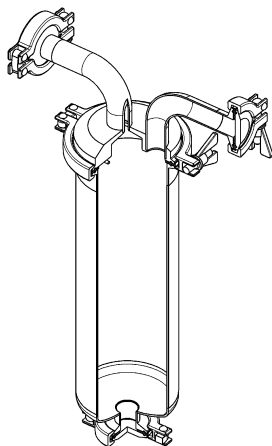


Purpose

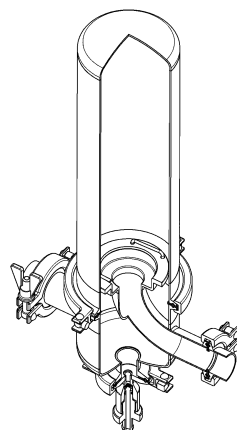
Aseptic DS-VM filter housings are designed to facilitate fine and sterilizing filtration of compressed air and gases in the biopharmaceutical industry and other fields, where Special filtration requirements should be met. Filter housings are designed for highly critical applications requiring high filtration level and structural durability.

Fully complete filter housings are intended for installation of one single cartridge of 250 mm height with D-structure with double radial sealing and bayonet fixture. Specially polished inner surfaces minimize adhesion of particles or microorganisms and their accumulation. and increases Sanitization is effective.

The filter housing is provided with an air bleed valve, a drain valve and a stainless steel pressure gauge. Standart filter housing is provided with a pressure gauge without the membrane separator.



DS-1-D-250VM



DS-VM-1-250

Technical Specifications

Materials

Flow-through parts

- | | |
|----------------|---|
| • DS-1-D-250VM | AISI 316L stainless steel |
| • DS-VM-1-250 | AISI 316L (or AISI 304) stainless steel |

O-rings

Silicone, EPDM

Surface treatment type

Inner surface

- | | |
|----------------|-------------------------------|
| • DS-1-D-250VM | Ra <0.4, mechanical polishing |
| • DS-VM-1-250 | Ra <0.8, mechanical polishing |

Outer surface

- | | |
|----------------|--------------------------------------|
| • DS-1-D-250VM | Ra <0.4, mechanical mirror polishing |
| • DS-VM-1-250 | Ra <0.8, mechanical polishing |

Connections

- | | |
|--------------|---|
| Inlet-outlet | Tri-clamp 1" quick release sanitary connector |
| Air valve | 1" clamp |

Cartridge

50 mm (10"), adapter 56 mm (code D)

Max. temperature

150 °C (see operating temperature of the filter cartridges and sealing materials)

Max. operating pressure

0.7 MPa (7 bar)

Compressed air throughput at 0.7 MPa

- | | |
|----------------|-----------------------|
| • DS-1-D-250VM | 140 m ³ /h |
| • DS-VM-1-250 | 280 m ³ /h |

Sterilization

by inline steam at 121-145 °C, autoclaving

Dimensions, weight

- | | |
|----------------|----------------------------|
| • DS-1-D-250VM | 330 x 120 x 490 mm, 5 kg |
| • DS-VM-1-250 | 241 x 130 x 560 mm, 4,7 kg |

Nominal diameter

- | | |
|----------------|-------|
| • DS-1-D-250VM | 20 mm |
| • DS-VM-1-250 | 32 mm |