

DS stainless steel Filter Housings Sanitary construction

For critical filtration processes
in the pharmaceutical and food industries

Description

Sanitary construction of DS-1-D(-/-)M filter housings is specially designed for highly critical application requiring high filtration level and structural durability. Fully complete filter housings are made of corrosion-resistant stainless steel AISI 316L. It has one single place for the cartridge of 250, 500, 750 mm height with D-structure with double radial sealing and bayonet fixture. Specially polished inner surfaces ensure effective sanitization and reducing of sorption of microparticles and bacteria.

Filter housings are fitted with an air drain tap, drain taps and a pressure gauge made of stainless steel.

Technical Specifications

Materials

Flow-through parts	AISI 316L (or AISI 304) stainless steel
Clamp connection, buckles	AISI 304 stainless steel
O-rings	Silicone, EPDM, (Viton – on request)

Surface treatment type

Inner surface	Ra <0.8, mechanical polishing
Outer surface	Ra <0.4, mechanical mirror polishing

Connections

Inlet-outlet	Tri-clamp 1" quick release sanitary connector
Air valve	1" clamp
Cartridge	adapter 56 mm (code D, D1)

Installation

on 3 supporting feet

Max. operating temperature

Depends on operating temperature conditions of filter cartridges and sealing materials but should not exceed 95 °C provided that precautions to avoid contact of the personnel with heated parts of the filter housing are observed.

Max. operating pressure

0.6 MPa (6 bar)

Sterilization

by inline steam at 121-145 °C, autoclaving

Dimensions, weight

• DS-1-D-250M-316	369 x 130 x 697 mm, 7 kg
• DS-1-D-500M-316	369 x 130 x 941 mm, 8.7 kg
• DS-1-D-750M-316	369 x 130 x 1191 mm, 10 kg
• DS-1-D-1000M-316	369 x 130 x 1441 mm, 11,8 kg

Nominal diameter

20 mm

Complete set

Stainless steel pressure gauge
(with permeator – on request)

