

The S Series filter housings distinguish themselves by a construction 'free from edges and corners' with a small volume and low differential pressure. The S Series is suitable for compressed air and technical gases as well as applications in sterile and steam filtration. The housings are available in different grades of stainless steel -

	ISO	U.S.-standard	German-standard
Standard	1.4301	AISI 304	V2A
Optional	1.4404	316L	V4A

* In the course of an international unification, grade 1.4404 is replacing 1.4571.

The external surfaces are mechanically polished and the internals are electropolished (Ra 0.8). Both parts of the housing are attached by a threaded connection and sealed by an EPDM aseptic-sealing gasket (threaded flange connection available for housings requiring an acceptance test). To depressurize or empty the housing of condensate, there are two 1/4" NPT(F) threaded connections available on each section. The housings are suitable for sterile and steam filter elements and the industrial series of pre-filter, general purpose and high-efficiency coalescing as well as activated carbon filter elements. They are supplied with a 1.4404 stainless steel manual drain. The element is secured to the housing with a "click lock" connection (bayonet system) with a double O-ring seal. Stainless steel differential pressure gauges and automatic condensate drains are available as accessories.

Technical Data:

Model	Connection NPT (F)	Max. Pressure	Volume
S02	1/4"	232 PSIG	.025 Ft. ³
S05	3/8"	232 PSIG	.025 Ft. ³
S07	1/2"	232 PSIG	.025 Ft. ³
S09	3/4"	232 PSIG	.025 Ft. ³
S11	1"	232 PSIG	.025 Ft. ³
S12	1-1/4"	232 PSIG	.025 Ft. ³
S13	1-1/2"	232 PSIG	.025 Ft. ³
S14	2"	232 PSIG	.025 Ft. ³
S15	2"	232 PSIG	.025 Ft. ³
S18	2-1/2"	232 PSIG	.025 Ft. ³
S19	3"	232 PSIG	.025 Ft. ³

Housings vacuum-resistant to 0 PSIA

Capacity:

Model	Nominal ²
S02	53 SCFM
S05	65 SCFM
S07	88 SCFM
S09	118 SCFM
S11	171 SCFM
S12	224 SCFM
S13	294 SCFM
S14	459 SCFM
S15	677 SCFM
S18	853 SCFM
S19	1,148 SCFM

²: Capacity calculated at 14.5 PSIA and 68°F at 100 PSIG working pressure



Filter Housing S-Series 232 PSIG Version



Specification Filter Housing S Series / 232 PSIG

Materials	
Housing	Stainless steel 1.4301 (AISI 304, V2A), optional 1.4404(3161, V4A)
Threaded rod	Inside: electropolished Ra 0.8 Outside: high-grade mechanically polished
Venting and emptying	%" threading female (plug standard)
Sealing materials	EPDM aseptic-sealing

Temperature range	
Nominal	+34°F to +392T
Maximum (short-term)	+34°F to +428°F

Technical Data			
Model	Connection NPT(F)	Max. Working Pressure	Volume
S02	1/4"	232 PSIG	.025 Ft. ³
505	3/8"	232 PSIG	.025 Ft. ³
S07	1/2"	232 PSIG	.025 Ft. ³
S09	3/4"	232 PSIG	.025 Ft. ³
S11	1"	232 PSIG	.056 Ft. ³
S12	1-1/4"	232 PSIG	.056 Ft. ³
S13	1-1/2"	232 PSIG	.056 Ft. ³
S14	2"	232 PSIG	.14 Ft. ³
S15	2"	232 PSIG	.22 Ft. ³
S18	2-1/2"	232 PSIG	.34 Ft. ³
S19	3"	232 PSIG	.46 Ft. ³

All housings are vacuum-resistant up to 0 PSIA

Capacity calculated at 14.5 PSIA and 68°F at 100 PSIG working pressure	
Model	Nominal
S02	53 SCFM
S05	65 SCFM
S07	88 SCFM
S09	118 SCFM
S11	171 SCFM
S12	224 SCFM
S13	294 SCFM
S14	459 SCFM
S15	677 SCFM
S18	853 SCFM
S19	1,148 SCFM

Required acceptances / CE identification
 According to German pressure vessel regulations, all housings of the S series with a pressure-volume-product of < 7 ft.³ belong to the vessel group 1, and are therefore not subject to an acceptance test.
 Since all housings are not subject to any EU-regulation there is also no obligation concerning CE identification.

Production / Quality Assurance
 Development, manufacture and quality assurance in accordance with DIN EN ISO9001, supplemented by the TQM (Total Quality Management)

Housing connections series-produced with threading NPT(F) 1/4" to 3", alternatively are available:
 Welded end DN10—DN80 (DIN 11850), outside threading SMS, flange ISO, flange DN10—DN80 (DIN 2633), milk pipe thread DN10—DN80 (DIN 11851), Tri-clamp DN10—DN80 (DIN 32676), as well as further on request

The right to make technical alternations is reversed (edition—US-S Series Housing—10/2001)