

SINGLE FILTER F118S

Stainless steel

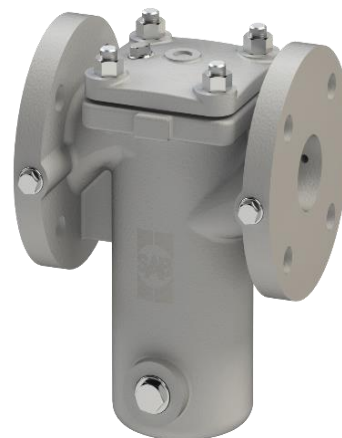
Application

The Single Filter F118S, made of stainless steel is a multi-purpose filter for liquid media. The use of high-quality materials makes the filter suitable for use with highly corrosive media. It is characterized by high efficiency, a compact footprint as well as quick and easy cleaning.

The degree of contamination can be optionally monitored with various differential pressure indicators. Further options, for example magnetic inserts or the sacrificial anode enable an application-specific customization.

Function

The standard filter design consists of a cast housing with in-line positioned flanges. The cover is fastened with studs and nuts. The filter is equipped with a basket or ring-type strainer. The medium to be filtered flows through the strainer from the inside to the outside. The strainer is made out of a perforated plate which can be covered optionally with mesh in different mesh sizes.



Technical Data

In- / outlet:	DN50 – DN150
Operating medium:	Fluids
Volume flow:	max. 160 m³/h
Design pressure:	16 bar

Components	Standard	Customized
Strainer:	Basket strainer	Ring-type strainer
Grade of filtration:	80 – 1000 µm (fabric / perforated plate) ≥ 1 mm (perforated plate)	10 – 60 µm acc. customer's specification
Filter cover:	Size: 1 – 4: Cover with stud bolts and nuts (type F118S)	
Drainage:	Screw	Ball valve
Ventilation:	Screw	Ball valve
Connection:	Flange acc. DIN EN 1092-2	acc. customer's specification

Materials		
Housing and cover:	1.4408	acc. customer's specification
Cover gasket:	NBR	EPDM, FPM, PTFE, MPQ
Strainer (perforated plate / fabric):	1.4301, 1.4301 / 1.4401	1.4571, 1.4571 / 1.4401, brass / Bronze, Hastelloy C4

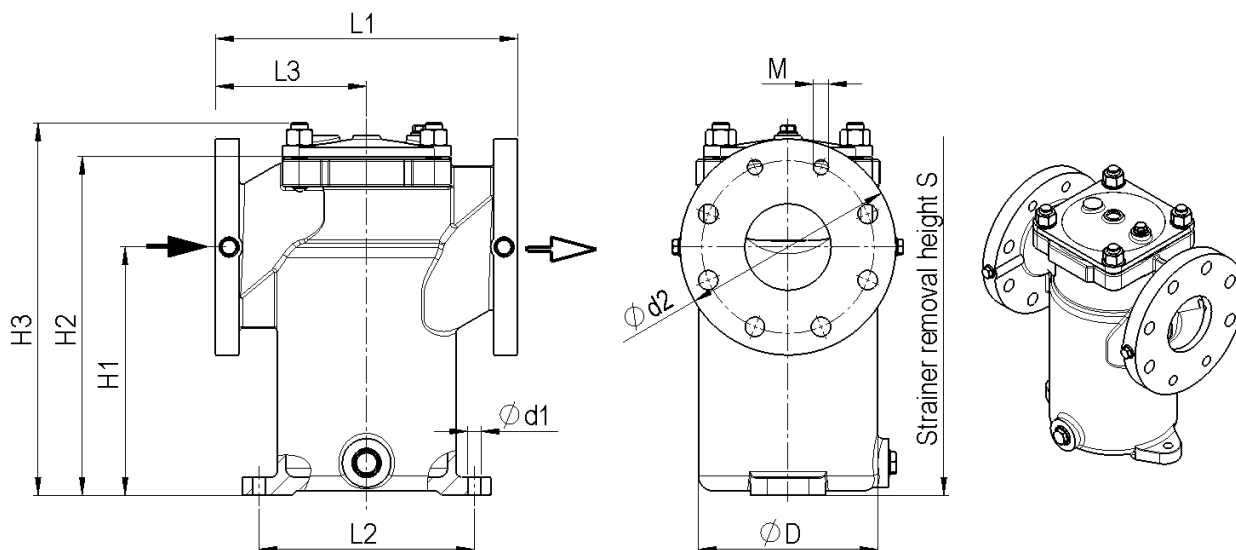
Surface Treatment			
Housing inside:	Stainless steel	Glass bead blasted	acc. customer's specification
Housing outside:	Stainless steel	Glass bead blasted	acc. customer's specification

Options		
Differential pressure indicator (optical / electrical), sacrificial anode, magnetic insert		

Further options and customer specific solutions are available upon request.

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Size	DN	PN	ØD mm	H1 mm	H2 mm	H3	L1 mm	L2 mm	L3 mm	Ød1 mm	Ød2 mm	M Dm³	S mm	Volume dm³	Flow capacity m³/h	Filter surface		Weight ca.
		F118S bar				F118S mm										BS* cm²	RS* cm²	F118S kg
1	50	16	100	180	230	263	190	-	95	-	165	-	480	1	18	250	440	14
2	80	16	166	230	314	345	280	200	140	12	200	-	660	5,5	45	680	1140	26,6
3	100	16	176	325	428	457	318	215	159	14	220	-	860	8	70	920	1530	37,5
4	150	16	260	390	540	611	462	310	231	18	285	M20	1090	24	160	1860	2720	80

- * BS = Basket strainer
- * RS = Ring-type strainer

Larger filter sizes, higher operating pressures as well as further customer specific designs and features are available upon request. The above mentioned flow capacity is valid for inlet velocities of 2,5 m/s in pressure pipes, a viscosity of 1 mPas (water) and a grade of filtration $\geq 80 \mu\text{m}$. For suction pipes we recommend half of the above mentioned flow capacity values.