SINGLE FILTER F118

Application

The Single Filter F118 is a multi-purpose filter for liquid media. It is characterized by high efficiency, a compact footprint as well as quick and easy cleaning. Furthermore, the maintenance and strainer access can be optimized by choosing different filter cover solutions.
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 either fixed with a clamp lock or with stud bolts 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:	DN25 – DN300
Operating medium:	Fluids
Volume flow:	max. 610 m³/h
Design pressure:	6 bar, 10 bar, 16 bar

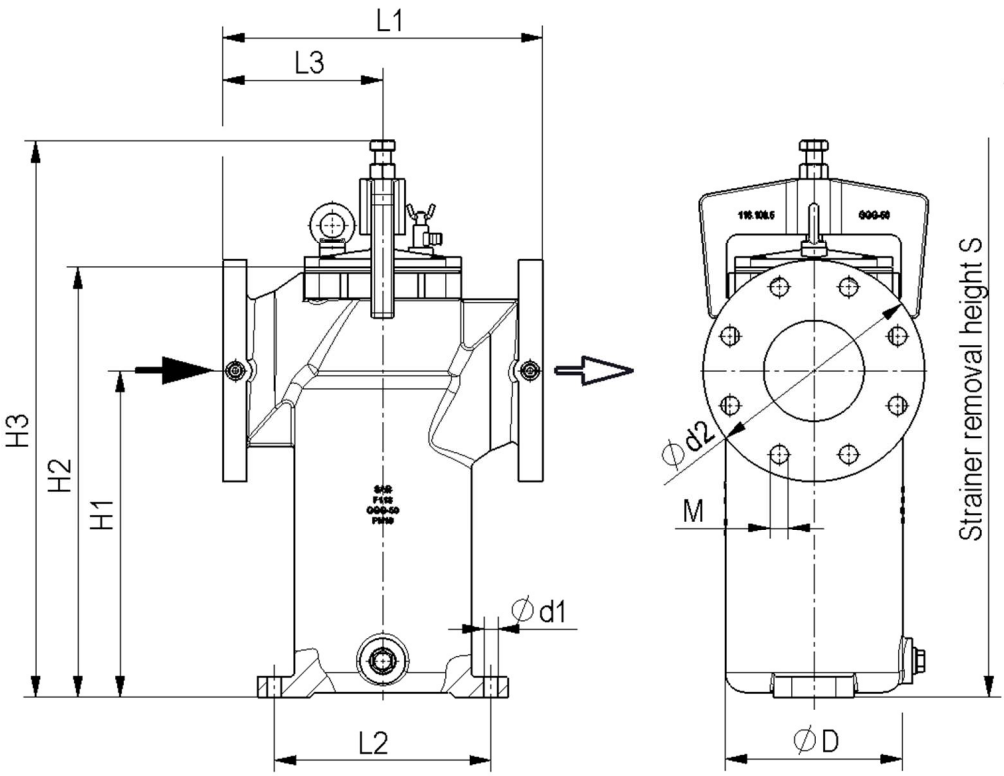
Components		Standard	Customized
Strainer:		Basket strainer	Ring-type strainer
Grade of filtration:		80 – 1000 µm (fabric / perforated plate) ≥ 1 mm (perforated plate)	10 – 60 µm acc. customer's specification
Filter cover:		Size: 1 – 8: Cover with clamp lock (type F118) Size: 1 – 10: Cover with stud bolts and nuts (type F118S)	
Drainage:		Screw	Ball valve (steel, brass, stainless steel)
Ventilation:		Screw	Ball valve (steel, brass, stainless steel)
Connection:		Flange acc. DIN EN 1092-2	acc. customer's specification
Materials			
Housing and cover:		EN-GJS-400-18	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:	EN-GJS-400-18	Powder coating RAL 5018, corrosion protection primer	Rust preventative oil, epoxy coating, Vestosint
Housing outside:	EN-GJS-400-18	Powder coating RAL 5018, corrosion protection primer	acc. customer's specification
Options			
Differential pressure indicator (optical / electrical), sacrificial anode, magnetic insert			

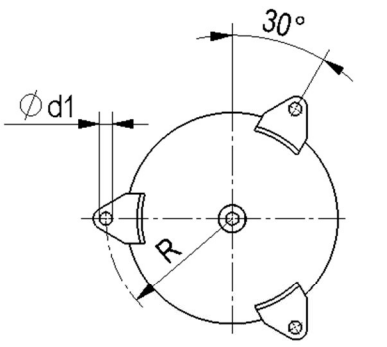
Further options and customer specific solutions are available upon request.

Technical changes reserved

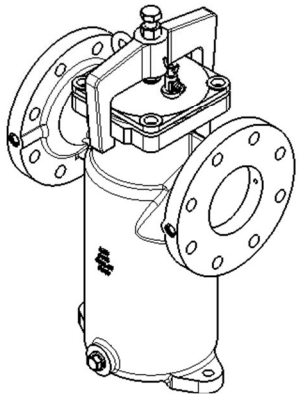
SINGLE FILTER F118

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Support for size 9 + 10



Size	DN	PN		ØD	H1	H2	H3		L1	L2	L3	R	Ød1	Ød2	M	S	Volume	Flow capacity	Filter surface		Weight ca.	
		F118	F118S				F118	F118S											BS*	RS*	F118	F118S
		bar		mm	mm	mm	mm		mm	mm	mm	mm	mm	mm	Dm³	mm	dm³	m³/h	cm²		kg	
1	25	16	16	80	170	194	270	250	170	-	75	-	-	115	-	390	0,5	4,5	140	-	7	6
2	32	10	16	100	180	230	335	293	190	-	95	-	-	140	M16	480	1	7	250	440	13	12
2	40	10	16	100	180	230	335	293	190	-	95	-	-	150	M16	480	1	12	250	440	13	12
2	50	10	16	100	180	230	335	293	190	-	95	-	-	165	-	480	1	18	250	440	13	12
3	65	10	16	125	215	283	387	344	230	160	115	-	12	185	-	580	2,5	30	400	640	22	19
4	80	10	16	166	230	314	440	380	280	200	140	-	12	200	-	660	5,5	45	680	1140	28	25
5	100	10	16	176	325	428	554	489	318	215	159	-	14	220	-	860	8	70	920	1530	42	37
6	125	6	16	220	325	453	596	528	380	260	190	-	14	250	M16	920	12	110	1280	2000	60	53
7	150	6	16	260	390	540	713	611	462	310	231	-	18	285	M20	1090	24	160	1860	2720	78	69
8	200	6	10**	320	490	695	880	770	598	370	299	-	23	340	-	1395	48	280	2880	4170	132	118
9	250	-	10	400	600	816	-	915	605	-	303	230	23	395	-	1580	70	440	3720	5950	-	186
10	300	-	6	470	720	975	-	1070	720	-	360	265	23	445	-	1900	130	610	5450	8920	-	290

* BS = Basket strainer
* RS = Ring-type strainer
** Optionally available with flanges in PN16

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 ≥ 80 µm. For suction pipes we recommend half of the above mentioned flow capacity values.

Pressure directive 2014/68/EU · AD 2000 HP-0-Certification · SCC**

Technical changes reserved