

SINGLE FILTER F105

Application

The Single Filter F105 is a multi-purpose filter for liquid and gaseous media. It is characterized by high efficiency, a compact footprint as well as quick and easy cleaning. As a special feature the inlet and outlet flange can be arranged in almost every position. Furthermore, the maintenance and strainer access can be optimized by choosing from various 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 welded housing and a cover which is fixed with bolts and nuts. Alternatively, it can be delivered with a clamp, lever or the quick release cross-lock.

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:	DN15 – DN300
Operating medium:	Fluids, gas
Volume flow:	max. 610 m ³ /h
Design pressure:	10 bar, 16 bar, 25 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:	Cover with bolts and nuts	Clamp lock DN 25 – 50 Quick acting lever lock DN 50 – 100 Quick-release cross lock DN80 - 150
Drainage and ventilation:	Screw (stainless steel)	Ball valve; acc. customer's specification
Connection:	Flange acc. DIN EN 1092-1/11/B1	acc. customer's specification

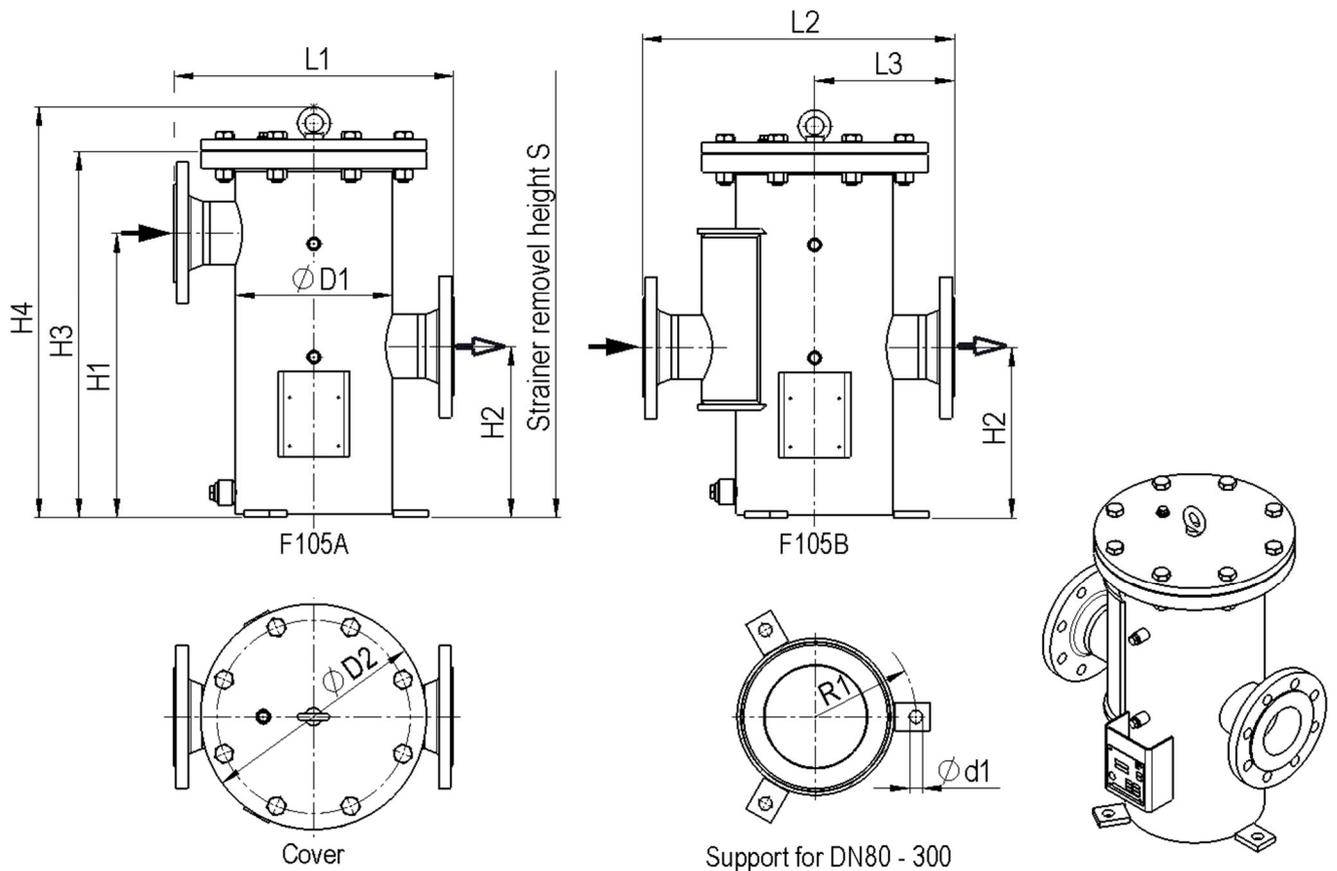
Materials		
Housing and cover:	1.4541 / 1.4571	P235GH / P265GH, 1.4571
Cover gasket:	C4400	EPDM, FPM, PTFE, NBR
Strainer (perforated plate / fabric):	1.4301, 1.4301 / 1.4401	1.4571, 1.4571 / 1.4401, brass / Bronze, Hastelloy C4

Surface Treatment			
Housing inside:	Stainless steel	Glass bead blasted; primed and passivated	acc. customer's specification
	Carbon Steel	Preservative oil	acc. customer's specification
Housing outside:	Stainless steel	Glass bead blasted; primed and passivated	acc. customer's specification
	Carbon Steel	Synthetic enamel RAL5018	acc. customer's specification

Options	
Differential pressure indicator (optical / electrical), sacrificial anode, filter support, magnetic insert, cover lifting device, heating jacket	

Further options and customer specific solutions are available upon request.

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Support for DN80 - 300

DN	PN	ØD1	ØD2	H1	H2	H3	H4	L1	L2	L3	R1	Ød1	S	Volume F105		Flow capacity	Filter surface		Weight F105	
														A	B		BS*	RS*	A	B
mm	bar	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	dm ³	m ³ /h	cm ²	cm ²	ca.kg	ca.kg	
15	25	76	165	215	130	309	336	200	210	100	-	-	635	1	1	1,5	180	-	11	11
20	25	76	165	215	130	309	336	200	210	100	-	-	635	1	1	3	180	-	11,5	12
25	25	76	165	215	130	309	336	200	210	100	-	-	635	1	1	4,5	180	-	12	12,5
32	25	114	200	245	155	335	397	250	270	125	-	-	690	3	3	7	380	620	17	18
40	25	114	200	280	160	375	437	270	290	135	-	-	760	3,5	3,5	12	430	690	18	19
50	25	114	200	305	175	405	467	270	300	135	-	-	840	4	4	18	500	720	20	20
65	16	168	260	325	180	414	476	350	360	175	-	-	850	9	10	30	720	1120	31	33
80	16	219	315	400	240	515	577	390	435	195	140	18	1040	18	20	45	1180	1850	48	51
100	16	219	315	465	280	586	650	390	445	195	140	18	1170	21	22	70	1400	2200	51	55
150	16	273	365	730	485	880	950	460	570	230	177	23	1760	50	58	160	3400	4900	87	97
200	10	356	470	750	455	930	1002	570	710	285	218	23	1850	90	106	280	4000	6800	150	170
250	10	406	520	1080	720	1310	1404	630	825	315	243	23	2600	170	200	440	6850	10000	255	285
300	10	508	640	1175	765	1429	1523	770	975	385	294	23	2830	285	339	610	9600	14100	395	470

* 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.