

# Single Filter F125A/F125B

## DN 50 - 300

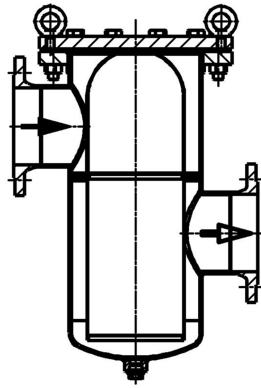


Fig. 1: F125 A,  
without filter stand

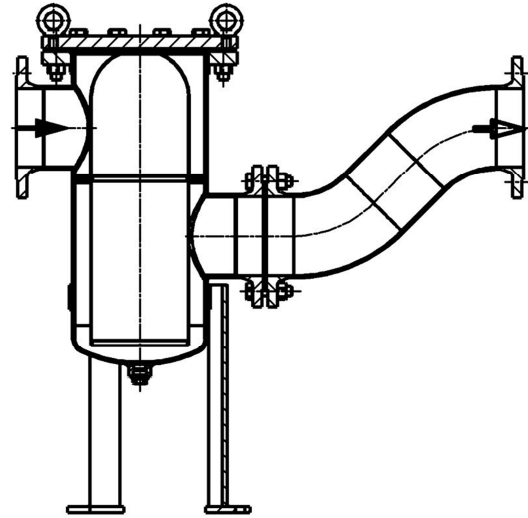


Fig. 1: F125 B,  
optional filter stand

### Application areas

The simplex filter Type F125 is a versatile filter for gaseous, liquid and pasty media. It is distinguished by high performance, low space requirements and can be cleaned easily and quickly. The application range of the standard version can be increased using additional equipment.

### Short description

The standard version of the filter consists of a welded case with cover fastened using nuts and bolts. Alternatively, the filter can be equipped with a basket or ring strainer insert. The filter insert consists of perforated sheet metal which is optionally covered with fabrics of different mesh sizes. The medium to be filtered flows through the screen insert from the inside to the outside. In the version B (Fig. 2), the filter is fitted with an adapter so that inlet and outlet nozzles are at the same height (in-line design).

### Installation

The installation in piping is performed using flanges. It must be ensured that the filter in the standard version is installed vertically with cover at the top without mechanical additional loads and free of tension. The medium must flow in the flow direction specified on the case. Incorrect installation can result in malfunctions of the filter.

Attention! For filters with cover lifting and pivoting system, it must be strictly ensured that the filter can only be opened and the cover swivelled to the side when the filter is completely anchored to the floor (tipping hazard!).

### Start-up / operating instructions

1. Open air bleed valve until liquid discharges
2. Close air bleed valve
3. Filter is operational

**Attention!** As this is a pressure vessel, it must be strictly ensured that the tank is depressurised before starting maintenance work. The required safety and accident prevention regulations for the medium must be complied with.

### Cleaning

1. Depressurise filter using air bleed valve or drain mechanism
2. Undo tank lock and raise cover
3. Drain filter using drain mechanism until level at least underneath the screen support
4. Pull screen insert upwards out of the filter case. The screen can now be cleaned by blowing out or blasting with compressed air, steam or water. If necessary, the screen must be soaked in an appropriate medium and cleaned. Under certain circumstances, optimum cleaning of the screen is achieved using ultrasound. For all types of cleaning, it must be ensured that the filter fabric is not damaged
5. During assembly in reverse order, pay attention to intactness of the sealing elements and replace if necessary

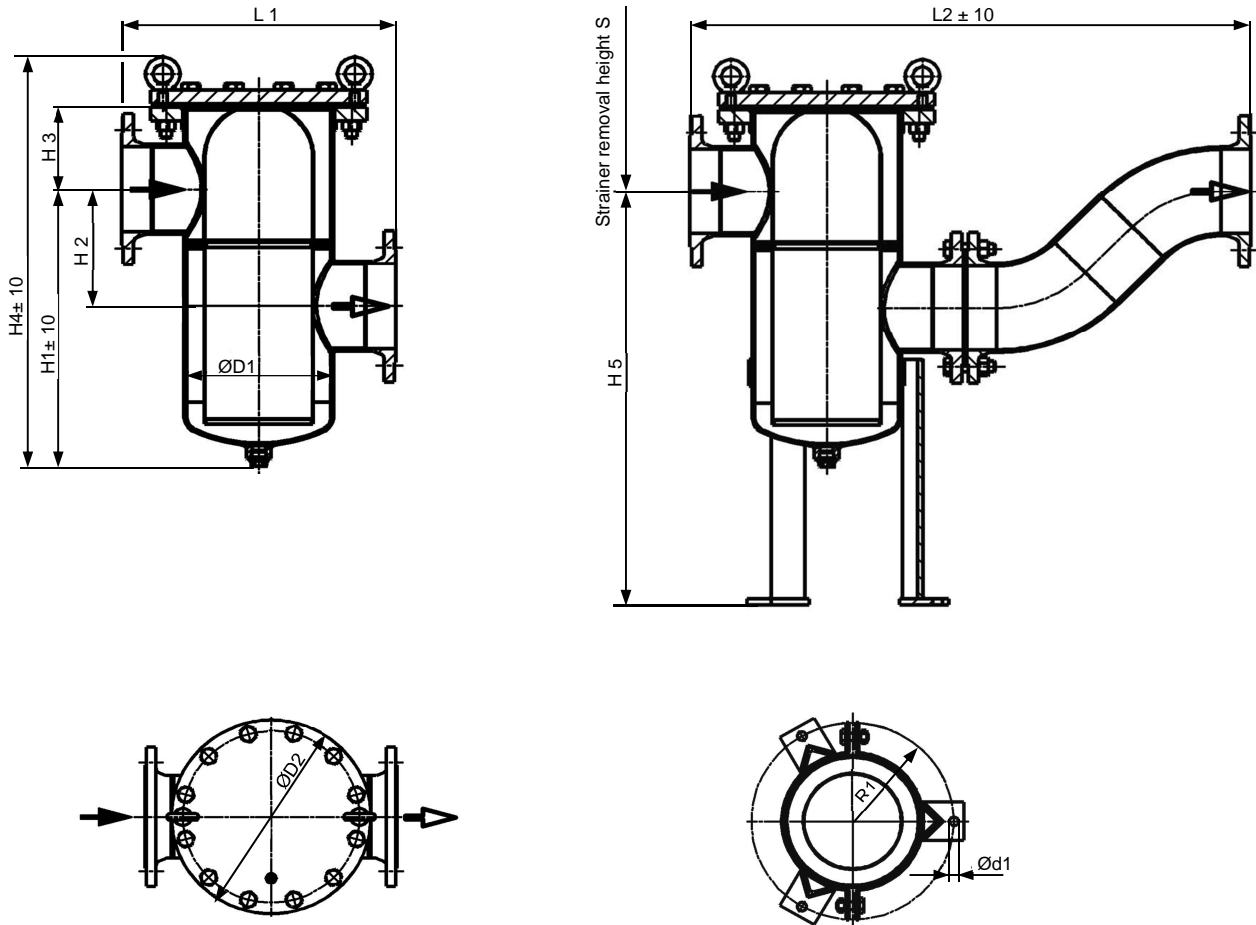
# Single Filter F125A/F125B

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		Standard version	Special design and/or additional equipment
<b>Screen insert</b>		Basket strainer	Ring strainer, double strainer, pleated basket strainer
<b>Filter mesh size</b>		80 - 1000 µm : fabric with support plate from 1 mm : perforated plate	10 - 60 µm
<b>Filter lock</b>		Through-bolts with nuts (Fig. 1)	
<b>Venting device</b>		Screw plug	Ball valve
<b>Drain device</b>		Screw plug	Ball valve
<b>Connections</b>		Flanges according to DIN EN 1092-1/11/B1	according to customer specification (e.g. ANSI)
<b>Materials:</b>			
Case and cover		1.4541/1.4571	1.4571, P235GH/P265GH
Filter lock		according to case material	-
Cover seal (rubber/steel seal)		NBR	EPDM, FPM, PTFE
Perforated plate / fabric (screen)		1.4301, 1.4301/1.4401	1.4571, 1.4571/1.4401
Bleed screw		Stainless steel	-
Venting ball valve		-	Stainless steel
Drain screw		Stainless steel	-
Drain ball valve		-	Stainless steel
<b>Surface treatment:</b>			
Inside	Body: Stainless steel	glass bead blasted	pickled and passivated
	Steel	Conservation oil	primed
Outside	Body: Stainless steel	glass bead blasted	pickled and passivated
	Steel	Synthetic resin paint RAL 5018 turquoise	-
<b>Options:</b>			
Differential pressure indicator, optical, electric			
Filter stand			
Magnetic insert			

# Single Filter F125A/F125B

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DN	PN	D1	D2	H1	H2	H3	H4	H5		L1	L2	R1	d1	S	Vol.	Flow rate	Filter area Basket strainer	Weight appr.
								min.	max.									
mm	bar	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	dm <sup>3</sup>	m <sup>3</sup> /h	cm <sup>2</sup>	kg
50	16	114	220	326	90	102	498	-	-	270	520	-	-	530	3,7	18	510	25
65	16	168	285	393	110	116	582	530	600	360	646	133,5	14	615	9,5	30	890	40
80	16	219	340	450	140	125	650	560	650	440	781	159,5	14	675	19	45	1260	60
100	16	219	340	460	160	115	650	590	660	440	837	159,5	14	665	19	70	1260	65
150	16	273	395	520	220	154	768	780	795	500	1027	204	18	810	37	160	1960	90
200	10	324	445	666	270	178	938	860	930	580	1234	230	18	995	68	280	3280	125
250	10	406	565	854	320	212	1161	940	1090	680	1459	274	18	1250	142	440	4820	195
300	10	508	670	1211	400	305	1613	900	1210	740	1660	338	23	1760	295	610	9600	315

The flow rates are applicable for inlet speed of 2.5 m/s in pressure lines, viscosity of 1 mPas (water) and filter mesh sizes  $\geq 80 \mu\text{m}$ . We recommend half the flow rate for suction lines.

We inform you of dimensions for additional equipment and special designs on request.

We maintain a quality assurance system according to ISO 9001:2008

