DUPLEX FILTER F725

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Application

The Duplex Filter F725 is a multi-purpose filter for liquid media. It is characterized by continuous operation during the cleaning phase as well as a high degree of filtration down to very low microns.
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 Duplex Filter consists of two single filters which are connected via shut-off valves and can be operated alternately or in parallel. The standard filter design consists of a welded housing and a cover which is fixed with bolts and nuts. Venting devices in the covers and draining devices in the housing are included in the scope of supply.
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 – DN200
Operating medium:	Fluids
Volume flow:	max. 280 m³/h
Design pressure:	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:		Cover with bolts and nuts	acc. customer's specification
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	Vestosint, acc. customer's specification
Housing outside:	Stainless steel	Glass bead blasted; primed and passivated	acc. customer's specification
	Carbon Steel	Synthetic enamel RAL5018	Vestosint, acc. customer's specification
Options			
Differential pressure indicator (optical / electrical), sacrificial anode, filter support, magnetic insert			

Further options and customer specific solutions are available upon request.

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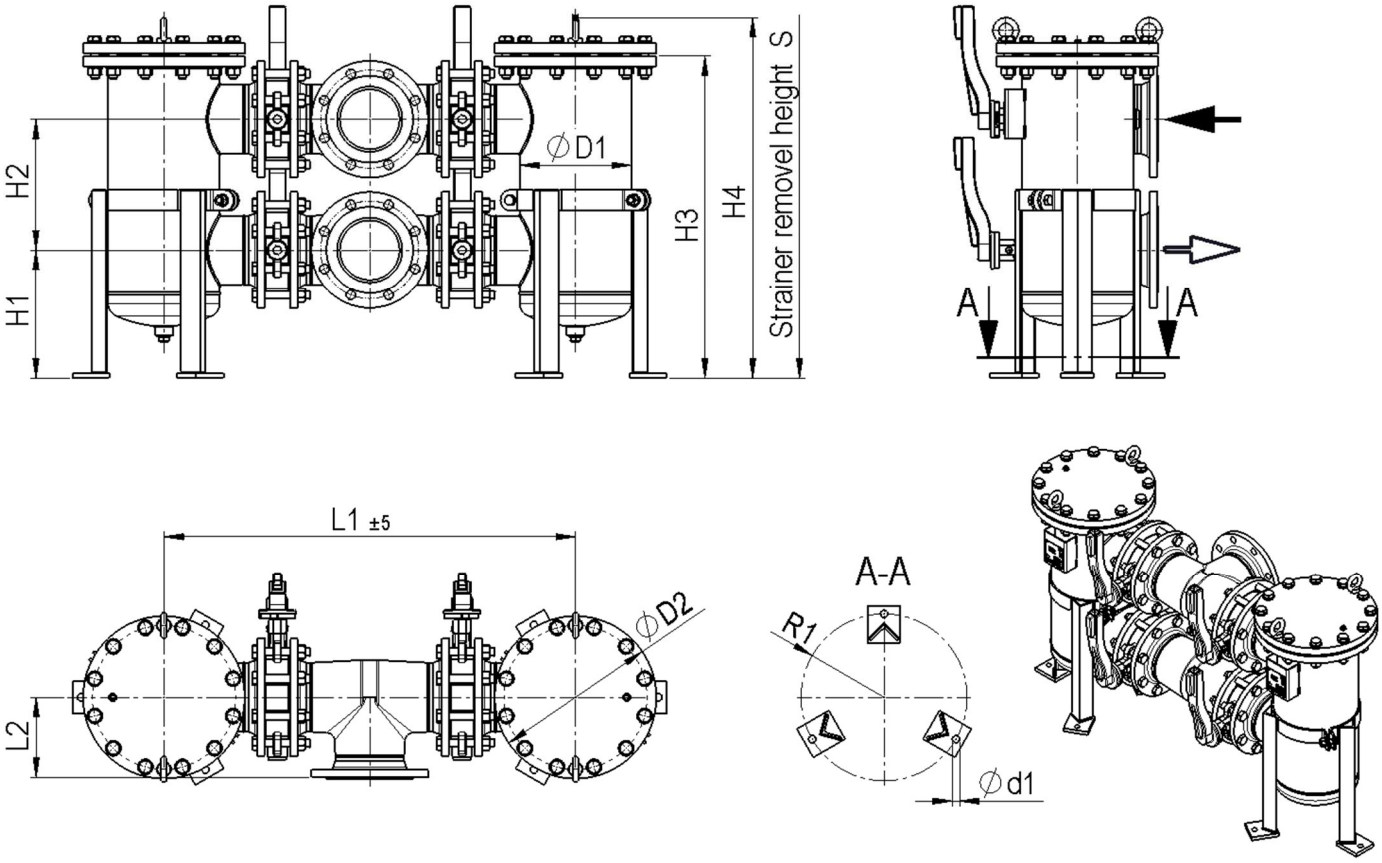

DN	PN	ØD1	ØD2	H1		H2	H3		H4		L1	L2	R1	Ød1	S		Volume	Flow capacity	Filter surface	Weight
				Min	Max		Min	Max	Min	Max					Min	Max				
mm	bar	mm	mm	mm		mm	mm		mm		mm	mm	mm	mm	mm		dm³	m³/h	cm²	ca. kg
50	16	114	220	260	265	200	562	567	632	637	572	109	106	14	990	995	3,7	18	510	85
65	16	168	285	245	270	210	571	596	644	669	712	121	134	14	1070	1095	9,5	30	890	125
80	16	219	340	190	250	280	595	655	670	730	802	136	160	14	1145	1205	19	45	1260	160
100	16	219	340	190	240	280	585	635	665	715	856	157	160	14	1145	1205	19	70	1260	195
150	16	273	395	255	315	320	729	789	823	883	1006	198	203	18	1380	1440	40	60	1960	355
200	10	324	445	582	582	410	1170	1170	1264	1264	1176	240	229	18	1990	1990	72	280	3280	465

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.