DUPLEX FILTER F101D



Application

The Duplex Filter F101D/F101DS 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. As a special feature 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.



(F101DS)

Function

The Duplex Filter is produced as a cast part; one piece consisting of two identical filter housings which are connected via a switch-over device and can be operated alternately or in parallel. The standard filter design consists of a cast housing and a cover which is fixed with a clamp lock. Venting devices (DN32-DN50) in the covers and draining devices in the housing are included in the scope of supply. The flanges are arranged one above the other on one side of the filter.

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. While starting up the plant it is possible to operate both filters in parallel which reduces the filter's pressure loss. This has significant advantages in particular in case of fluids with higher viscosities which heat up during operation (cold start).



Technical Data

In- / outlet:	DN15 – DN50
Operating medium:	Fluids
Volume flow:	max. 18 m³/h
Design pressure:	10 bar / 16 bar

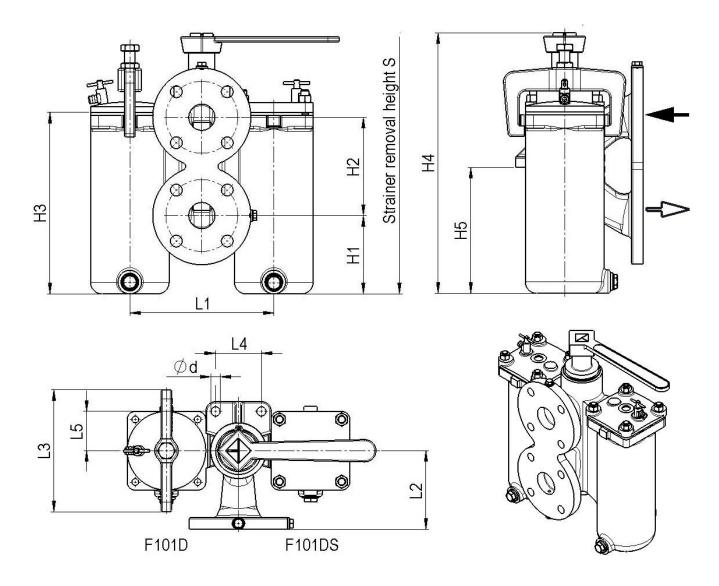
Components		Standard	Customized					
Strainer:		Basket strainer	Ring-type strainer					
Grade of filtration:		80 – 1000 µm (fabric / perforated plate) ≥ 1 mm (perforated plate)	10 – 60 μm acc. customer's specification					
Filter cover:		Cover with clamp lock (Typ F101D) Cover with stud bolts and nuts (Typ F10	1DS)					
Drainage:		Screw (Brass)	Ball valve; acc. customer's specification					
Ventilation:		Valve (Brass)	Ball valve; acc. customer's specification					
Connection:		Flange acc. DIN EN 1092-2	acc. customer's specification					
Materials								
Housing and cove	r:	GG-25	acc. customer's specification					
Cover gasket:		NBR	EPDM, FPM, PTFE					
Strainer (perforate	ed plate / fabric):	1.4301, 1.4301 / 1.4401	1.4571, 1.4571 / 1.4401, brass / Bronze, Hastelloy C4					
Surface Treatm	ent							
Housing inside:	GG-25	Corrosion protection primer	Epoxy coating					
Housing outside:	GG-25	Synthetic enamel RAL5018	acc. customer's specification					
Options								
Differential pressu	re indicator (optical / el	ectrical), sacrificial anode, filter support, m	nagnetic insert					

Further options and customer specific solutions are available upon request.



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DN	PN Ø		ØD	H1	H2	Н3	H4	Н5	L1	L2	L3	L4	L5	s	Ød	Vol- ume	Flow capacity	Fils surf		Weight
	D	DS																KS*	RS*	
	ba	ar	mm	nm mm m		mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	dm³	m³/h	cr	n²	kg
15/20	10	16	70	50	105	160	255	105	148	90	105	50	42	300	14	0,5	3	110	-	12
25	10	16	80	65	115	180	275	115	160	90	120	50	42	350	14	0,6	4,5	140	-	15
32	10	16	100	88	140	226	353	148	190	90	145	60	50	450	14	1,25	7	270	480	27
40	10	16	120	119,5	150	277	398	192	220	120	186	70	60	550	14	2,35	12	430	690	35
50	10	16	120	130,5	165	315	445	217	260	105	186	80	68	620	14	4,55	18	500	790	40

- * 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 μ m. For suction pipes we recommend half of the above mentioned flow capacity values.