HiFlux Filtration A/S

LSS 4 Strainer Filters

1 - 8 mm / 42 - 1140 m^3/h

HiFlux LSS 4 Strainer Filters have been developed especially for use as protection filters for distribution and transmission systems in the energy sector.

The filters are used to protect pumps, heat exchangers, valves, boilers, pipes, etc.

In the filter design importance has been attached to optimising the flow conditions in such a way that maximum capacity is achieved with minimum loss of pressure throughout the period of operation. This has been achieved by means of a special filter strainer design which ensures that retained dirt is not kept in or on the filter surface, but is deposited in the filter strainer. This leaves an active and open filter area throughout the period of operation, resulting in extremely low energy consumption and longer intervals between the need for manual cleaning. The efficiency of this function does, however, depends on the orientation of the filter.

The energy consumption for operation of the LSS 4 filter is typically 25 to 35% lower than conventional filters and dirt collectors.

The filter is designed for installation in connection with pipe bends and can be supplied with a hinged cover facing in the appropriate direction.

The filter housing is manufactured in welded certified steel and designed for compact installation in systems with high pressure and temperature. The production process is covered by strict quality control which includes material tests with full traceability, continuous process tests, welding tests in accordance with production and design norms and hydraulic pressure testing according to EN 13445. EN 10204 3.1 material certificates, NDT report from welding tests and EC Decteration of comformity in accordance with PED directive 97/23/EC.

The filter strainer has been developed to resist powerful impacts from large foreign bodies which could be carried through the system at high speed. LSS 4 is supplied as standard with 1 mm, 3 mm, 6 mm and 8 mm filtration. The strainer insert is fitted in a guide system, which ensures a positive seal between strainer and housing without leaks. It also makes handling of the strainer easier in connection with cleaning of the filter housing.

An air vent can be built into the side of the filter housing and makes it possible to connect it to a vent circuit which does not need to be disassembled when the filter is cleaned as the cover can be removed freely.

Special versions with regard to building-in, capacity, temperature and pressure can be made in co-operation with our design department. The filter is as standard manufactured according to PED directive 97/23/EC.

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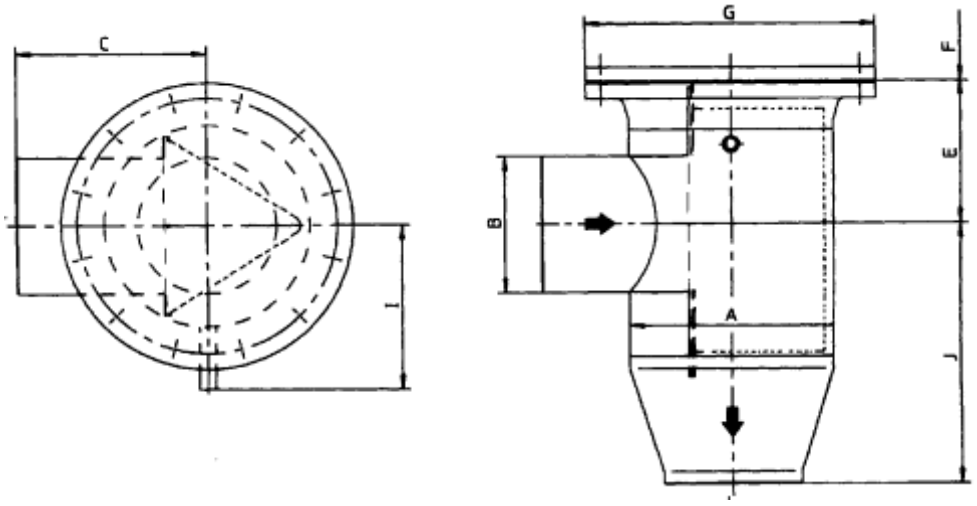

Type	A	B	C	E	F	G	G	I	J
						TN 16	TN 25		
	mm	mm	mm	mm	mm	mm	mm	mm	mm
LSS 4-80	139,7	88,9	155	140	260	250	270	200	270
LSS 4-100	168,3	114,3	175	160	290	285	300	215	300
LSS 4-125	219,1	139,7	200	175	330	340	360	240	320
LSS 4-150	273,0	168,3	240	200	440	405	425	265	365
LSS 4-200	323,9	219,1	300	230	510	460	485	290	415
LSS 4-250	355,6	273	365	285	580	520	555	300	480
LSS 4-300	406,4	323,9	425	320	650	580	620	325	515
LSS 4-350	457,2	355,6	490	350	700	640	670	350	700
LSS 4-400	508,0	406,4	550	380	830	715	730	380	905
LSS 4-450	558,8	457,2	590	525	1050	775	785	410	1000

Design pressure:	16 bar or 25 bar
Test pressure:	According to EN 13445
Max. differential pressure:	1,0 bar
Max. working temperature:	110° C (water) or according to customer requirements
Connection:	Weld ends (also comes with flanges)
Filter inserts:	Is supplied in stainless steel with filtration from 1,0 mm - 8,0 mm

Capacity:
(as a pressure filter at a differential pressure of 0.1 bar and a viscosity of 1 cSt)

Type	Strainer area cm²	Capacity m³/h	Type	Strainer area cm²	Capacity m³/h
LSS 4-80	270	42	**LSS 4-250**	2220	405
LSS 4-100	400	68	**LSS 4-300**	3000	570
LSS 4-125	680	103	**LSS 4-350**	3800	685
LSS 4-150	1150	150	**LSS 4-400**	5020	900
LSS 4-200	1730	260	**LSS 4-450**	7100	1140