

TerTech

PUMPFIL

Basket Strainer



PUMPFIL



PUMPFIL is a static filter, equipped with a strong perforated metal sheet basket and is manufactured in stainless steel. It is the optimal solution to protect pumps, more generally it can be used as a coarse filter in processes that use water from wells, rivers, canals averagely full of large suspended solids.

The filter is equipped with our special "QUICK BOLTS" system which guarantees quicker maintenance operations and lower disassembling times and allows the user to remove the cover without completely unscrewing the tightening bolts. It is also equipped with an anti-cut stop that greatly prolongs the sealing gaskets' life.

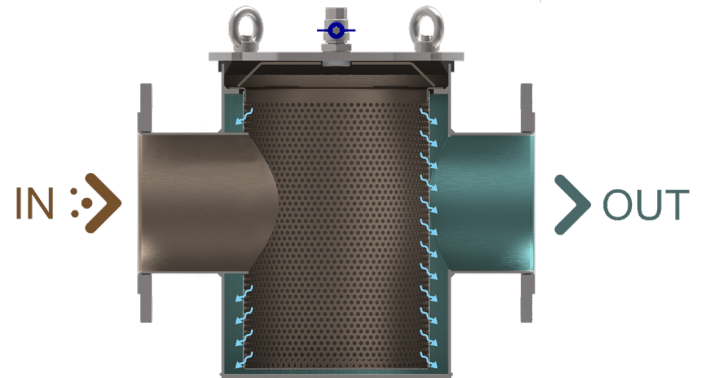
PUMPFIL filters are supplied complete of drain/vent valves and they are designed to accommodate pressure gauges.

FILTERING PROCESS

To be treated raw liquid enters the filter through the inlet connection (IN), suspended solids are retained inside the filtering basket and purified liquid flows out of the outlet connection (OUT).

MAINTENANCE

Filtering basket must be cleaned once the progressive build-up of suspended solids causes an excessive increase of the pressure loss or at regular intervals if the filter is mounted before a pump. To proceed with the maintenance, it is sufficient to isolate the filter, remove the cover by loosening the quick-unlock bolts and extract the filtering basket.



TECHNICAL SPECIFICATIONS

Design Data

Flow rate	Up to 300 m ³ /h
Design Pressure (bar)	PN 6
Max Temperature (°C)	100
Salinity	< 10.000 ppm
pH range	3-9
Design Code	PED 68/2014/EU

Materials

Filter Housing	Stainless Steel AISI 304 - AISI 316L
Gaskets	EPDM*
Drain	Nickel-plated Brass
Pressure Gauges	Stainless Steel AISI 304
Surface finishing	Microshot Peening and Passivation

*Certified to comply to the following European Drinking Water regulations: UBA, DVGW standard W-270, WRAS and ACS

FEATURES

PUMPFIL is manufactured with technical and constructive features suitable for industrial applications. The vessel is manufactured in Stainless Steel AISI 304 or in AISI 316 upon request.

After the welding procedure the component receives two surface treatments: micro-shot peening and passivation. The former provides a greater surface resistance and removes any manufacturing impurities whereas the latter recreates the natural passive film which protects the material against corrosion.

PUMPFIL filters have black EPDM gaskets, certified to be compliant with the following drinking water regulations: UBA, DVGW standard W-270, WRAS and ACS.



CONNECTIONS



UNI-EN 1092-1 Flanged

PUMPFIL's Inlet and Outlet connections are ISO PN16 flanged from DN50 to DN150. Other connection types are also available upon request.

FILTERING ELEMENTS

EXTRACTABLE BASKET

PUMPFIL filtering basket is made from SS316 perforated metal sheet and it's easily extractable and interchangeable.

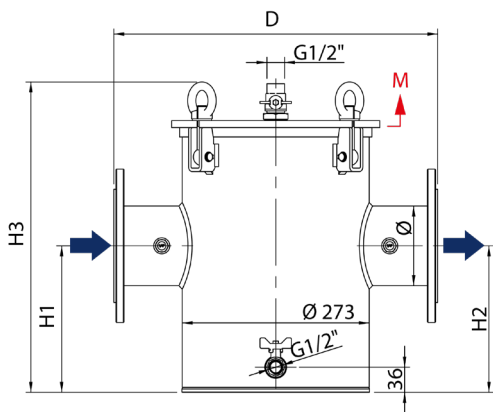
The available filtration degrees are: 3000µm - 2000µm - 1000 µm.



HOUSING FLOW RATE

MODEL	IN/OUT Ø	MAX FLOW RATE *		FILTERING SURFACE	
		[m³/h]	[l/min]	[cm²]	[in²]
PMFI 50	DN 50	40	666	2100	325
PMFI 65	DN 65	60	1000		
PMFI 80	DN 80	80	1333		
PMFI 100	DN100	140	2333		
PMFI 125	DN125	210	3500		
PMFI 150	DN150	300	5000		

*Max flow rates are calculated based on clean water with a filtration degree of 3000µm

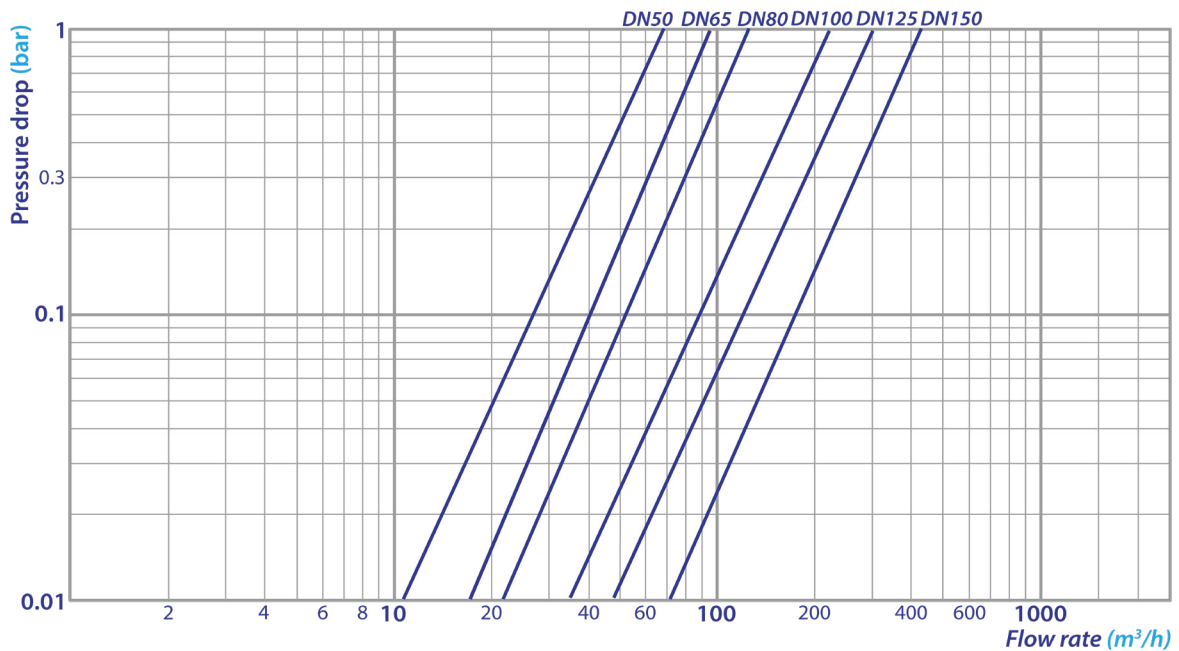


DIMENSIONS

MODEL	H1	H2	H3	D	M*	Ø	WEIGHT [Kg]
PMFI 50	210	210	445	473	400	DN 50	29
PMFI 65	210	210	445	473	400	DN 65	30
PMFI 80	210	210	445	473	400	DN 80	30
PMFI 100	210	210	445	473	400	DN100	31
PMFI 125	210	210	445	473	400	DN125	32
PMFI 150	210	210	445	473	400	DN150	34

*M = Minimum free space required for maintenance

HEAD LOSS



Head losses are referred to filters with 3000 µm clean filtering basket