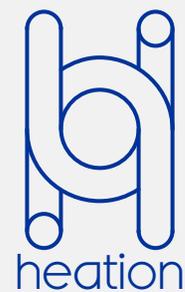


datasheet

dolphin k-phin



Description

k-phin strainers are static filters equipped with a sturdy, removable basket made of perforated or microperforated sheet metal, available in double layers, and constructed from stainless steel.

These strainers are ideal for use as protective filters and pre-filters in processes involving water with moderate levels of large suspended solids, such as those from wells, rivers, and canals.

The filters feature unique quick-release bolts (QUICK BOLTS) that allow for faster maintenance compared to traditional methods.

These bolts enable the cover to be opened without fully unscrewing the tightening nuts.

Additionally, the anti-cut stopper extends the lifespan of the gaskets.



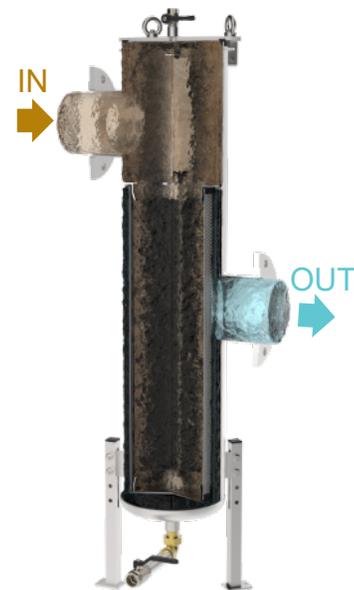
Filtration

Raw water enters the filter through the inlet connection (IN), passes through the basket filter from the inside out, and exits as filtered water through the outlet connection (OUT). The separated particles are trapped inside the basket.

Cleaning

The basket filter should be cleaned when the accumulation of retained solids causes excessive pressure loss or at regular intervals if the filter is installed on the suction side.

For maintenance, simply isolate the filter, drain it using the bottom valve, loosen the quick-release bolts (QUICK BOLTS) to remove the cover, and slide out the basket filter.



Technical data

Maximum flow rate	600 m ³ /h
Nominal pressure [bar]	PN 10 - PN16 ⁽¹⁾
Maximum temperature	90°C
Construction shape	Z ⁽²⁾
Salinity	< 10000 ppm
pH range	3 - 9
Design standard	PED 2014/68/EU

Materials

Housing	AISI 304 - AISI 316
Basket	AISI 316
Gaskets	EPDM ⁽³⁾
Vent/drain valves	Nickel-plated brass - AISI 316
Pressure gauges	AISI 304 - AISI 316
Surface finishing	Micro shot-peening and passivation

Models and flow rates

Model	Size	In/Out	Max flow rate ⁽⁴⁾ [m ³ /h]	Filtering surface [cm ²]	Drain
KPH DN50 Z S18	18	DN 50	30	3'300	1" BSPP
KPH DN80 Z S18	18	DN 80	70	3'300	1" BSPP
KPH DN100 Z S30	30	DN 100	120	5'400	1" BSPP
KPH DN150 Z S30	30	DN 150	260	5'400	1" BSPP
KPH DN200 Z S30	30	DN 200	400	5'400	1" BSPP
KPH DN250 Z S80	80	DN 250	500	10'000	DN80
KPH DN300 Z S80	80	DN 300	600	10'000	DN80

Flanged

1. Available upon request

2. Other construction types available upon request

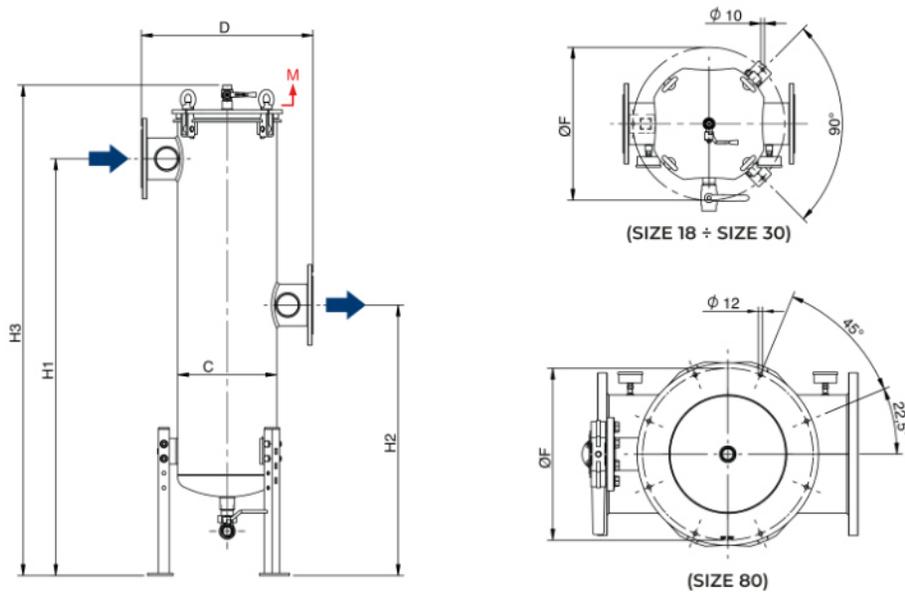
3. Certified for contact with drinking water according to the following European regulations: UBA, DVGW standard W-270, WRAS, and ACS.

4. Flow rates calculated with a filtration grade of 3000µm and clean water (NTU < 1) at a temperature of 20°C

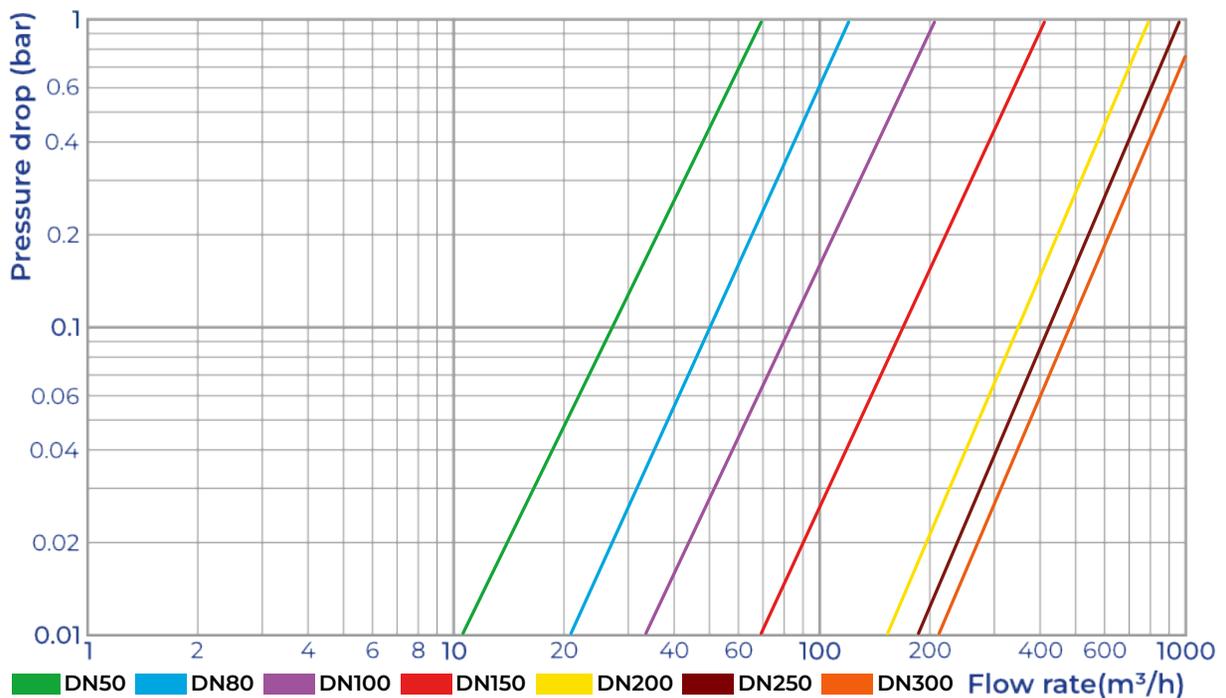
Dimensions Z Shape

Model	H1 [mm]	H2 [mm]	H3 [mm]	C [mm]	D [mm]	ØF [mm]	M* [mm]	Weight [Kg]
KPH DN50 Z S18	905	460	1108	273	487	419	650	40
KPH DN80 Z S18	905	460	1108	273	465	419	650	42
KPH DN100 Z S30	1140	740	1340	273	473	419	1000	55
KPH DN150 Z S30	1225	775	1510	273	473	419	1000	64
KPH DN200 Z S30	1225	775	1510	273	533	419	1000	66
KPH DN250 Z S80	1290	377	1760	457	717	470	1500	158
KPH DN300 Z S80	1290	377	1760	457	717	470	1500	162

* M = minimum space required for maintenance



Head loss

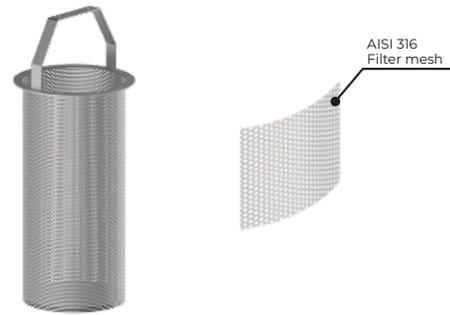


Filter Basket

1LE

The filter element features a removable basket made of AISI 316 stainless steel, designed to endure harsh industrial environments. This ensures exceptional durability and superior resistance to corrosion. The sturdy handle provides a secure grip, making installation and maintenance easier.

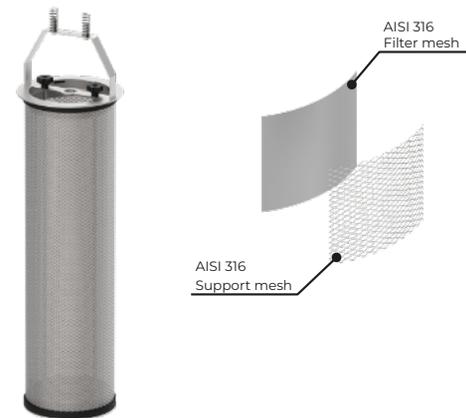
Available filtration degrees:
3000 - 2000 - 1000 microns



2LE

The filter element features a removable basket made of AISI 316 stainless steel, designed to endure harsh industrial environments. This ensures exceptional durability and superior resistance to corrosion. The sturdy handle provides a secure grip, making installation and maintenance easier.

Available filtration degrees:
400* - 200* - 110 - 40 microns



* On request

Configurations/Availability

Filtration degree [µm]	1LE	2LE
40	X	✓
110	X	✓
200	X	✓
400	X	✓
1000	✓	X
2000	✓	X
3000	✓	X

Accessories

Pressure Gauges

The k-phin filter can be enhanced with the addition of highly durable stainless steel pressure gauges that are suitable for various conditions and environments. These gauges are filled with glycerine to minimize any potential damage resulting from vibrations, pulsating pressures, or water hammers.

Material	AISI 304 - AISI 316
Scale	0-10 bar
Nominal diameter	63 mm
Filling	Glycerine

Spare Parts

Description	Material	Compatibility
Body gasket Ø273	EPDM	Size 18 - Size 30



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