

datasheet

# dolphin rock-phin

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## Description

rock-phin filters are durable, stainless steel inline filters designed with a sturdy, removable perforated metal basket.

They are perfect for protecting pumps and pre-filtering water with large suspended solids, commonly found in sources like wells, rivers, and canals, which often contain high levels of impurities. These filters feature the QUICK BOLTS quick release bolt system, allowing for faster and easier maintenance.

The system enables the cover to be opened without fully unscrewing the bolts, significantly reducing disassembly time compared to traditional methods. Additionally, an anti-cut stop is included to extend the life of the gaskets.

The gaskets are made from EPDM, certified for contact with drinking water under the strictest European regulations and directives, including UBA, DVGW standard W-270, WRAS, and ACS.

## Filtration

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

## Cleaning

The filter basket needs to be cleaned when the accumulation of solids causes a significant increase in pressure drop or at regular intervals if the filter is installed on the suction side.

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



### Technical data

Maximum flow rate	400 m <sup>3</sup> /h
Nominal pressure [bar]	PN 6
Maximum temperature	100°C
Construction shape	T
Salinity	< 10000 ppm
pH range	3 - 9
Design standard	PED 2014/68/EU

### Materials

Housing	AISI 304 - AISI 316
Filtering basket	AISI 316
Gaskets	EPDM <sup>(1)</sup>
Vent/drain valves	Nickel-plated brass - AISI 316
Surface finishing	Micro shot peening and passivation

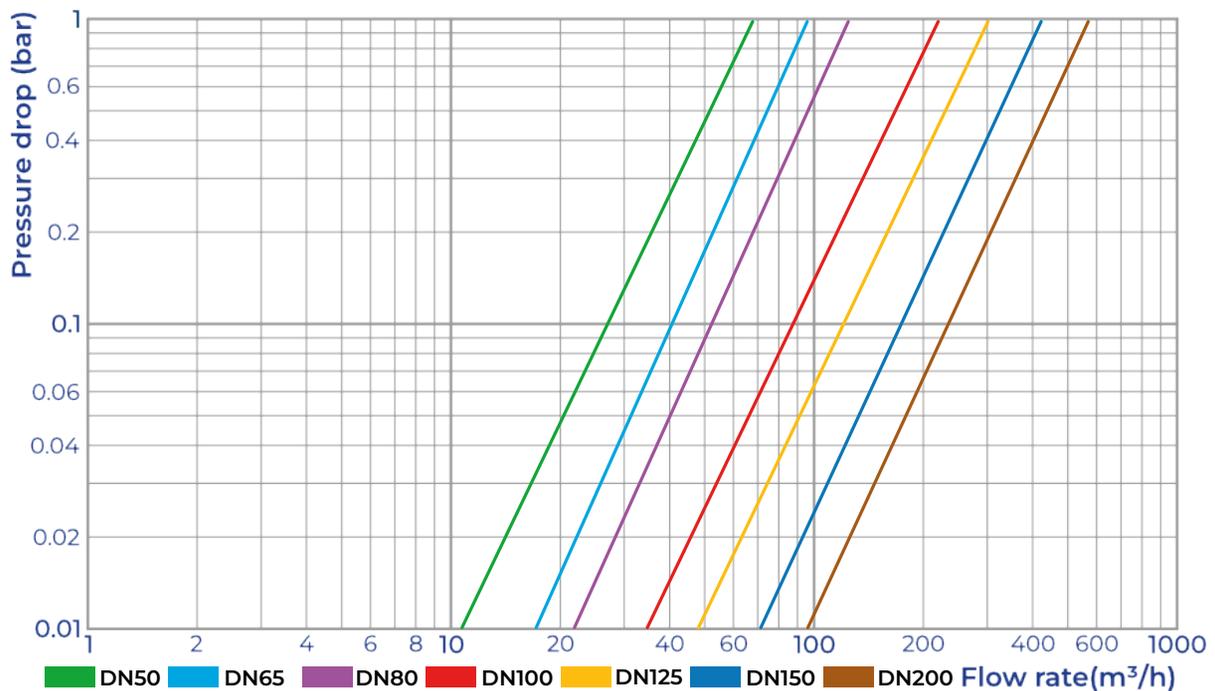
### Models and flow rates

Model	In/Out	Max flow rate <sup>(2)</sup> [m <sup>3</sup> /h]	Filtering surface [cm <sup>2</sup> ]	Drain
ROPH DN50	DN50	40	2'100	½" BSPP
ROPH DN65	DN65	60	2'100	½" BSPP
ROPH DN80	DN80	80	2'100	½" BSPP
ROPH DN100	DN100	140	2'100	½" BSPP
ROPH DN125	DN125	210	2'100	½" BSPP
ROPH DN150	DN150	300	2'100	½" BSPP
ROPH DN200	DN200	400	3'630	1" BSPP

Flanged

1. Certified for contact with drinking water according to the following European regulations : UBA, DVGW standard W-270, WRAS, and ACS.  
 2. Flow rates calculated with a filtration degree of 3000µm and clean water (NTU < 1) at a temperature of 20°C

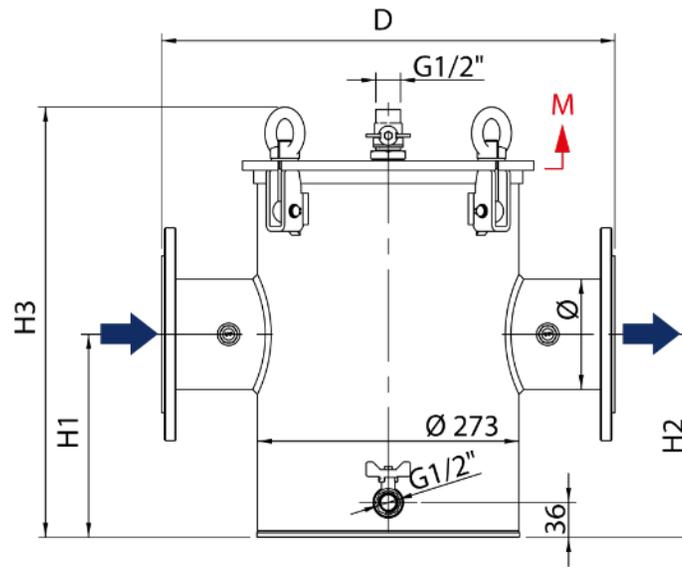
### Head loss



### Dimensions T Shape

Model	H1 [mm]	H2 [mm]	H3 [mm]	D [mm]	M* [mm]	∅	Weight [Kg]
ROPH DN50	210	210	445	473	400	DN 50	29
ROPH DN65	210	210	445	473	400	DN 65	30
ROPH DN80	210	210	445	473	400	DN 80	30
ROPH DN100	210	210	445	473	400	DN 100	31
ROPH DN125	210	210	445	473	400	DN 125	32
ROPH DN150	210	210	445	473	400	DN 150	34
ROPH DN200	315	315	566	580	500	DN 200	59

\* M = minimum space required for maintenance



## Filtering elements

### Filtering basket

Removable AISI 316 basket is designed to withstand harsh industrial environments, ensuring exceptional longevity and superior corrosion resistance. A robust handle provides an easy grip, making installation and maintenance simple.

Available filtration degrees:  
3000 - 2000 - 1000 micron



## Accessories

### Differential Pressure Kit

The rock-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 or AISI 316
Scale	0-10 bar
Nominal diameter	63 mm
Filling	Glycerine

## Spare Parts

Description	Material
Body gasket Ø273	EPDM



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