





**rock-phin** is a static filter, equipped with a strong perforated metal sheet basket and is manufactured in stainless steel. **rock-phin** 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 or canals typically full of large suspended solids.

**rock-phin** is equipped with our special “QUICK BOLTS” system which guarantees quicker maintenance operation, lowering disassembling time and allowing the user to remove the cover without completely unscrewing the tightening bolts. The filter is also equipped with an anti-cut stop that significantly prolongs the sealing gaskets’ life.

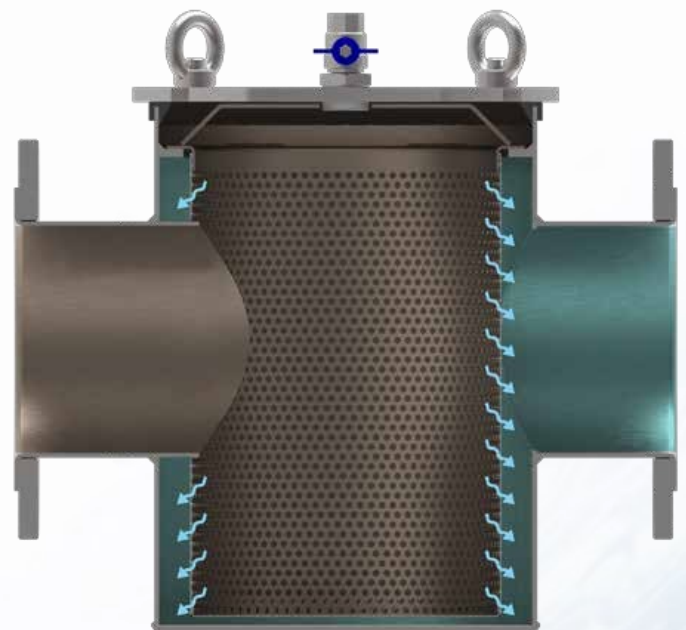
**rock-phin** filters are supplied complete with drain/vent valves and they are designed to accommodate pressure gauges.

## FILTRERINGSPROCESS

To be treated raw liquid enters the filter through the inlet connection (IN), suspended solids are retained inside the filtering basket and filtered 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

	MATERIAL		DESIGN DATA
Filter housing	Stainless steel AISI 304 - AISI 316L	Flow rate	Up to 300 m <sup>3</sup> /h
Gasket	EPDM*	Designtryck [bar]	PN 6
Drain/Vent valve	Nickel-plated Brass	Max Temperature [°C]	100
Pressure Gauges	Stainless steel AISI 304	Salinity [TDS]	<10.000 ppm
Surface finish	Microshot Peening and Passivation	pH range	3-9
		Design Code	PED 68/2014/EU

\* Certified for the following European Drinking Water regulations: UBA, DVGW-standard W-270, WRAS och ACS.

## FEATURES

**rock-phin** 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 the component will receive 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 passive film on the material protecting against corrosion.

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



## CONNECTION



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

## FILTERING ELEMENT

### EXTRACTABLE BASKET

**rock-phin** 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.

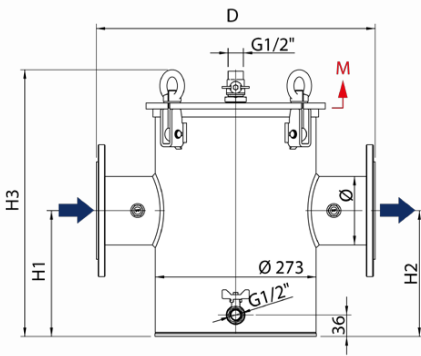


## FLOW RATE

MODEL	IN/OUT ∅	MAX FLOW RATE*		FILTERING SURFACE	
		[m <sup>3</sup> /h]	[l/min]	[cm <sup>2</sup> ]	[in <sup>2</sup> ]
ROPH 50	DN 50	40	666	2100	325
ROPH 65	DN 65	60	1000		
ROPH 80	DN 80	80	1333		
ROPH 100	DN 100	140	2333		
ROPH 150	DN 150	300	5000		

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

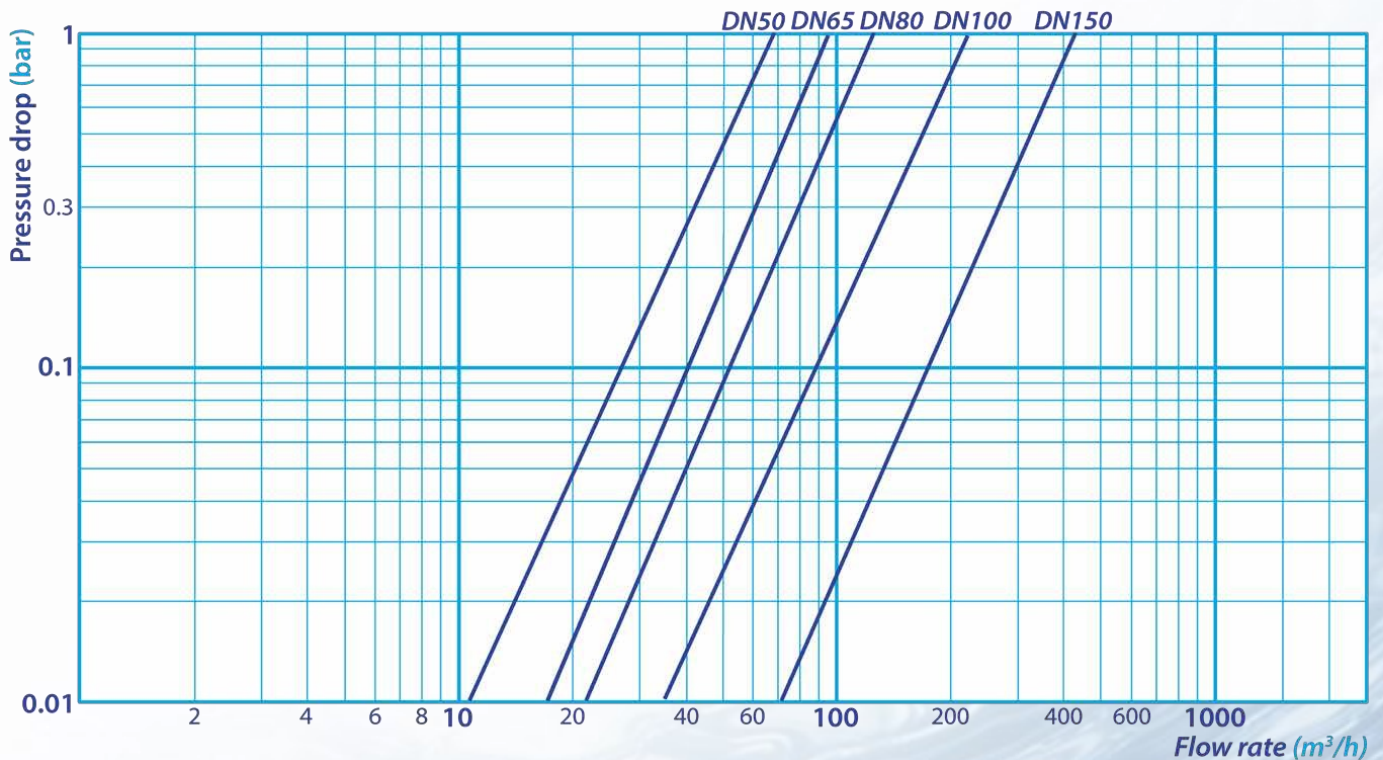
## DIMENSIONS



MODELL	H1 [mm]	H2 [mm]	H3 [mm]	D [mm]	M* [mm]	∅ [mm]	WEIGHT [Kg]
ROPH 50	210	210	445	473	400	DN 50	29
ROPH 65	210	210	445	473	400	DN 65	30
ROPH 80	210	210	445	473	400	DN 80	30
ROPH 100	210	210	445	473	400	DN 100	30
ROPH 150	210	210	445	473	400	DN 150	34

\*M = Minimum free space required for maintenance operations

## HEAD LOSS





**dolphin**  
Vatten vi älskar

## **Heation AB**

Laxholmstorget 3  
602 21 NORRKÖPING SWEDEN

E-mail: [heation@heationab.com](mailto:heation@heationab.com)

Phone number: +46(0)763102470

[www.heationab.com/dolphin](http://www.heationab.com/dolphin)

Company number: 559193-4640