





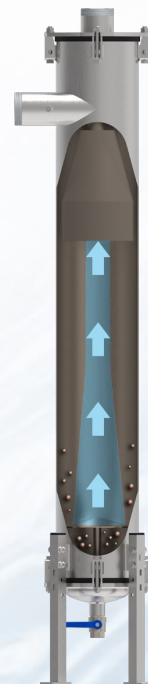
**cyclo-phin** filters are stainless steel hydrocyclonic separators. Thanks to their structure they transform the inlet flow into a whirlpool that separates sand and solids (with greater specific weight than water  $SW \geq 1$ ) from raw water. They have an extremely high removal efficiency, reaching 99% for solids above  $75\mu\text{m}$  while maintaining a 65% for  $50\mu\text{m}$  particles.

**cyclo-phin** filters work continuously and have no moving parts, a feature which makes them durable and extremely convenient as they essentially require no maintenance. They have inspectable covers. The bottom cover is equipped with a waste storage tank that can be drained with a manual valve (included in the standard supply) or automated with the appropriate automatic Drain Valve Kit.

## FILTERING PROCESS

Raw liquid enters the filter from the inlet connection (IN) triggering the downward whirlpool, which is additionally accelerated by a PVC cone, increasing the centrifugal force which separates suspended solids

Filtered water meets the inferior deflector and ascending through the center it is conveyed towards the outlet (OUT), whereas suspended solids slide along vessel's walls towards the waste storage tank to be later discharged through the drain valve (DRAIN).



# TECHNICAL SPECIFICATION

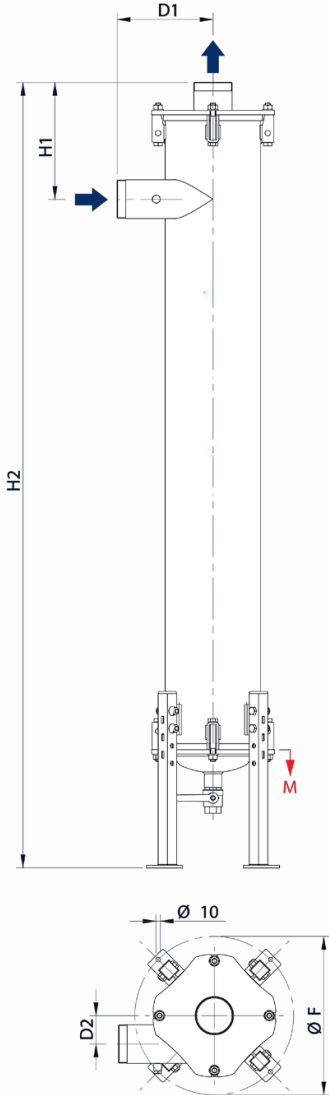
## MATERIALS

Filter housing	Stainless steel AISI 304 - AISI 316L
Gasket	EPDM*
Drain/Vent valve	Nickel-plated Brass — AISI 316L
Surface finish	Microshot Peening and Passivation

## DESIGN DATA

Design pressure [bar]	PN 10
Max Temperature [°C]	60
Salinity [TDS]	<10.000 ppm
pH range	3-9
Design code	PED 68/2014/EU
Connections	BSPP Threaded - Flanged UNI-EN 1092-1

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



## FLOW RATE

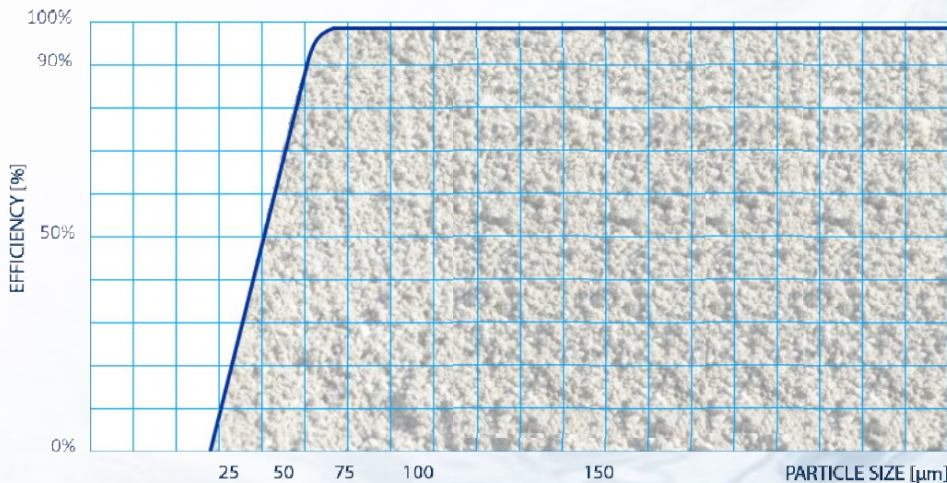
MODEL	MIN FLOW [m <sup>3</sup> /h]	MAX FLOW [m <sup>3</sup> /h]	IN/OUT Ø	DRAIN Ø
CYPH 1"	4	9	1" BSPP	1" BSPP
CYPH 1"½	8	18	1" ½ BSPP	1" BSPP
CYPH 2"	15	30	2" BSPP	1" BSPP
CYPH 3"	25	60	3" BSPP	1" BSPP
CYPH 100	54	105	Flanged DN100	1" ½ BSPP
CYPH 150	95	190	Flänsad DN150	1" ½ BSPP

## DIMENSIONS

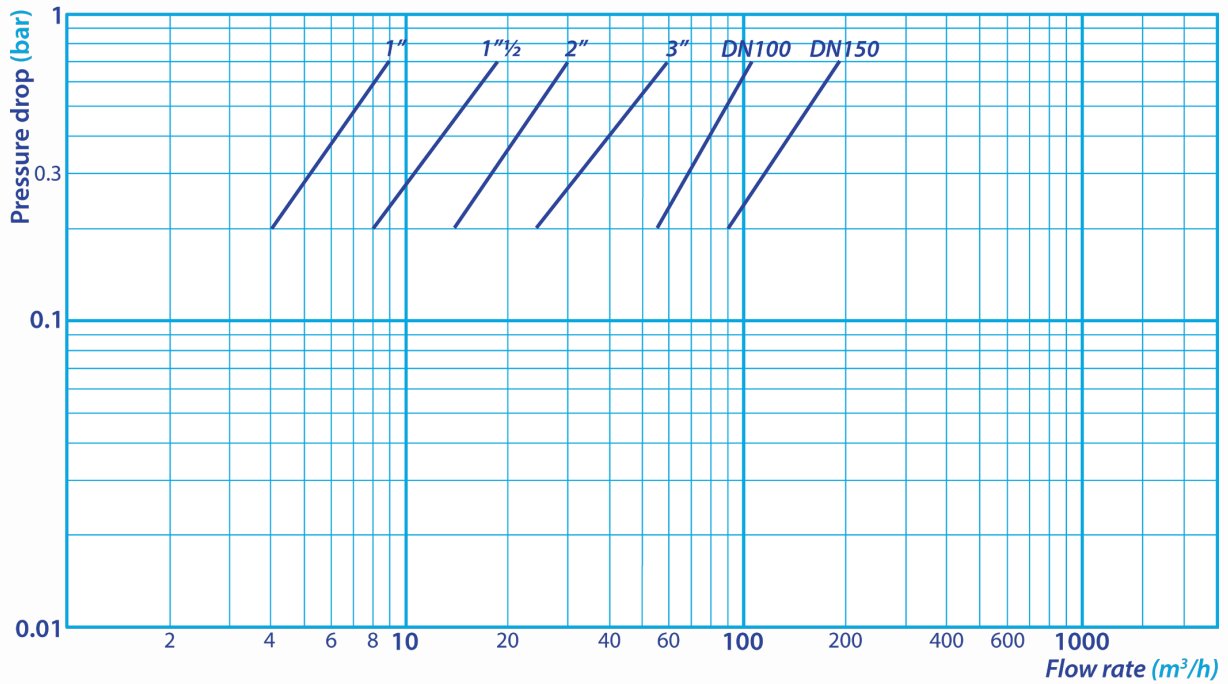
MODEL	D1 [mm]	D2 [mm]	H1 [mm]	H2 [mm]	M* [mm]	ØF [mm]	WEIGHT [Kg]
CYPH 1"	120	40	144	1074	220	259	17
CYPH 1"½	150	45	194	1298	260	285	23
CYPH 2"	190	54	204	1448	260	357	31
CYPH 3"	220	65	268	1804	260	372	52
CYPH 100	300	79	318	2114	290	456	84
CYPH 150	350	78	336	2316	330	507	105

\*M = Minimum free space required for maintenance operations.

## SEPARATION EFFICIENCY



## HEAD LOSS



## ACCESSORIES



HYDRAULIC KIT

**cyclo-phin** can be equipped with a 24Vdc automatic drain valve kit which can be controlled by an electronic programmable control unit to automatically drain the filter. The valve can be either hydraulic or pneumatic.



PNEUMATIC KIT



TIMER KIT

**cyclo-phin** can be equipped with a TIMER KIT to control the automatic drain valves' opening and closure by adjustable time intervals.



**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