• Description

AutoFlush® is the ideal solution for agricultural and municipal filtration due to its large filtration area, reliable operation mechanism and simple structure. AutoFlush® works on differential pressure and cleans itself automatically without any external intervention. AutoFlush® has electronically activated models besides hydraulically controlled models. Due to suction nozzles, cleaning is achieved with little water consumption. Besides the standard 130 micron filter size, different screen sizes are available for different dirt levels.

• AutoFlush® SERIES

• Electric Activated Automatic Screen Filter

VE Series

HE Series

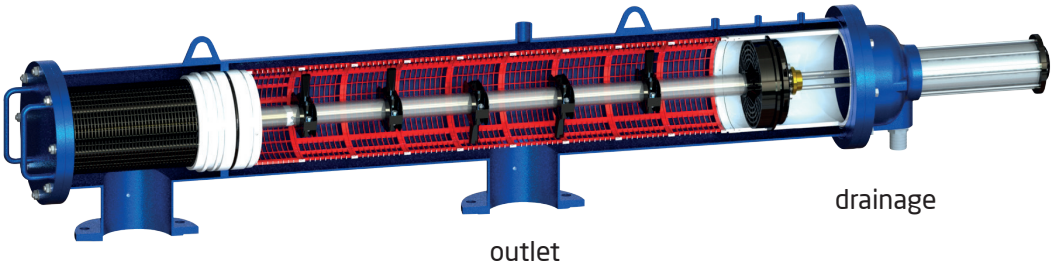
• Hydraulic Controlled Automatic Screen Filter

VH Series

HH Series

• Operation Principle

AutoFlush® series can perform automatic cleaning without any external power supply or optionally with electrical activation from a distance. The filter screen can achieve filtration capacities from 25 m³/h to 200 m³/h. Standard filter screen degree is 130 micron and inlet/outlet diameters are available from 2"up to 8".



• Filtration Method

Filtration starts as the dirty water enters the coarse screen from the inlet. In order to protect the fine filter, large particles are filtered on the coarse filter. Water then passes through the fine filter, particals are captured by the fine filter, and clean water leaves from the outlet. Particals gradually accumulating on the fine filter, increases the pressure difference. Once the pressure difference exceeds the preset pressure differential value, filter automatically starts to clean itself.

• Cleaning Method

Once the pressure difference exceeds the preset pressure differential value, hydraulic control unit opens the drainage valve and the cleaning cycle starts. Particals accumulated on the fine filter, are sucked by the nozzles and the turbine and discharged from the drainage pipe. Thus cleaning operation is achieved. Filtration is not interrupted and AutoFlush® continues filtration during the cleaning cycle.

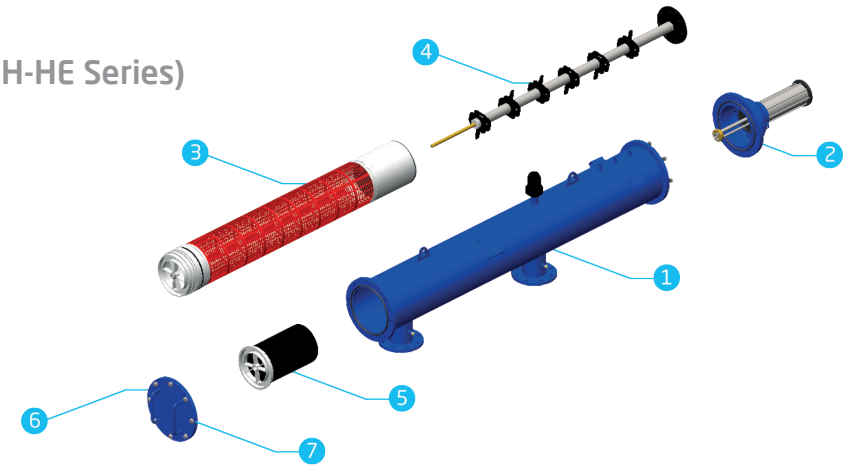
• Features

•Most efficient filtration method
•Reliability: efficient filtration at various flow rates
•Low pressure loss
•Automatic self-cleaning system
•Uninterrupted filtration during self-cleaning
•Low maintenance cost

• Applications

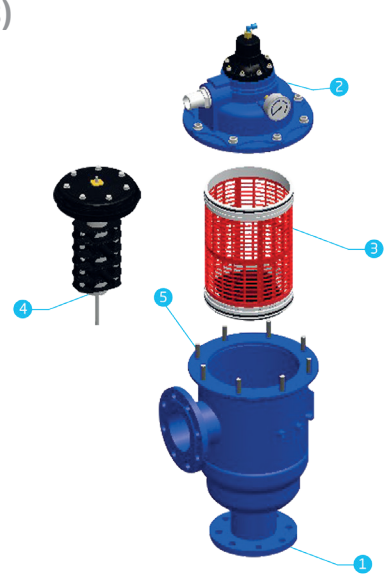
•Agricultural applications
•Industrial applications
•Municipal applications
•Water management
•Cooling towers

• Material List (HH-HE Series)



Part No	Part Name	Material
1	Body	ST37-2 Polyester Coating
2	Bonnet and Piston Mechanism	GG25+SST
3	Screen Group	PVC+PA6 Polyamide
4	Drain and Suction Nozzle Set	SST Pipe+PA6 Polyamide
5	Coarse Screen	PA6 Polyamide
6	Bonnet	ST37-2 Polyester Coating
7	Bolts and Nuts	SST

• Material List (VH-VE Series)



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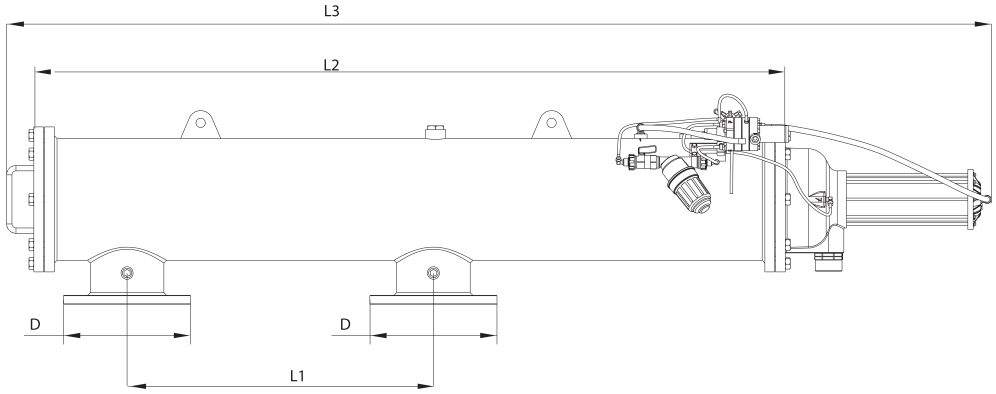
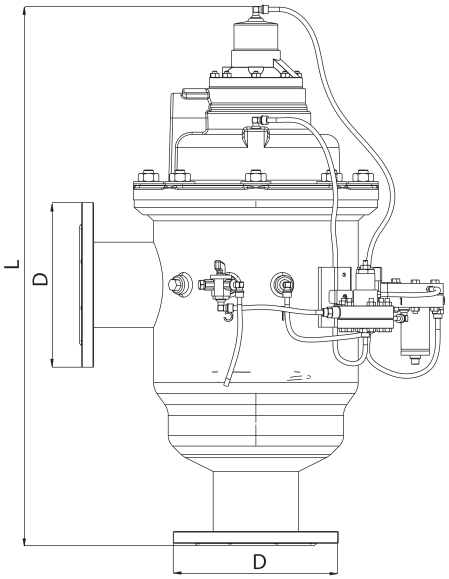


• Dimensions

Model	D	L	L1	L2	L3
	inch	mm	mm	mm	mm
VH-VE-25	2"	630	-	-	-
VH-VE-35	3"	630	-	-	-
VH-VE-50	3"	760	-	-	-
VH-VE-70	4"	760	-	-	-
VH-VE-100	4"	875	-	-	-
HH-HE-100	4"	-	900	1907	2410
HH-HE-120	5"	-	900	1907	2410
HH-HE-160	6"	-	900	1907	2410
HH-HE-200	8"	-	900	1907	2410

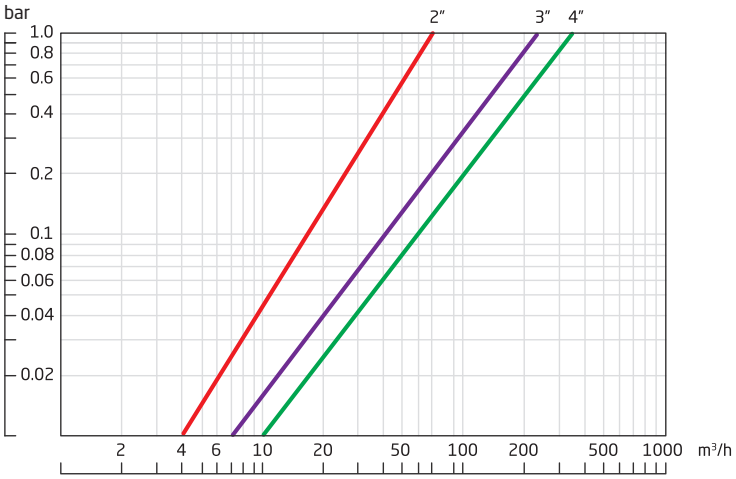


• Available Models

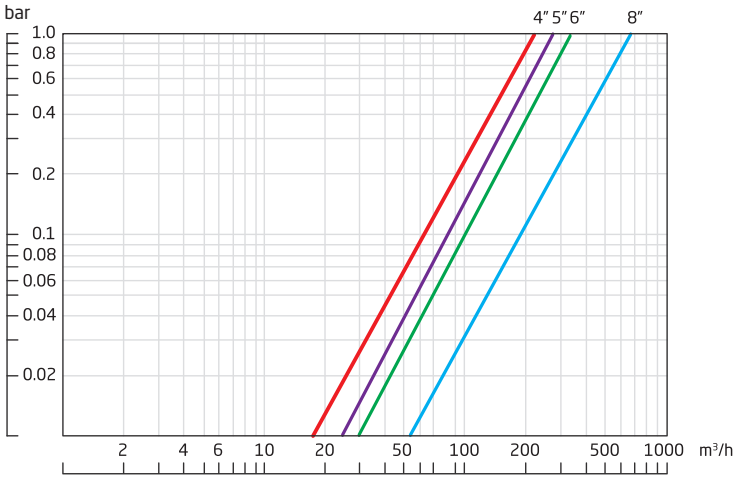
Filter Model Code	VH-25	VH-35	VH-50	VH-70	VH-100	HH-100	HH-120	HH-160	HH-200
	VE-25	VE-35	VE-50	VE-70	VE-100	HE-100	HE-120	HE-160	HE-200
Max. Flow Rate	25 m³/h	35 m³/h	50 m³/h	70 m³/h	100 m³/h	100 m³/h	120 m³/h	160 m³/h	200 m³/h
Inlet/Outlet Dimension	2"	3"	3"	4"	4"	4"	5"	6"	8"
Standard Filtration Degree	130 micron	130 micron	130 micron	130 micron	130 micron	130 micron	130 micron	130 micron	130 micron
Min. Operation Pressure	2,5 bar	2,5 bar	2,5 bar	2,5 bar	2,5 bar	2,5 bar	2,5 bar	2,5 bar	2,5 bar
Max. Operation Pressure	10 bar	10 bar	10 bar	10 bar	10 bar	10 bar	10 bar	10 bar	10 bar
Max. Operation Temperature	60°C	60°C	60°C	60°C	60°C	60°C	60°C	60°C	60°C
Minimum flow for flushing (at 2.5 bar - 35 psi)	15 m³/h	15 m³/h	20 m³/h	20 m³/h	22 m³/h	30 m³/h	30 m³/h	30 m³/h	30 m³/h
Flushing Cycle Time	10-16 sn	10-16 sn	10-16 sn	10-16 sn	10-16 sn	22-30 sn	22-30 sn	22-30 sn	22-30 sn
Filtration Area	750 cm²	750 cm²	1500 cm²	1500 cm²	2250 cm²	6800 cm²	6800 cm²	6800 cm²	6800 cm²

** Consult to Armas Team for getting optimum flow depending on water quality and filtration degrees.*

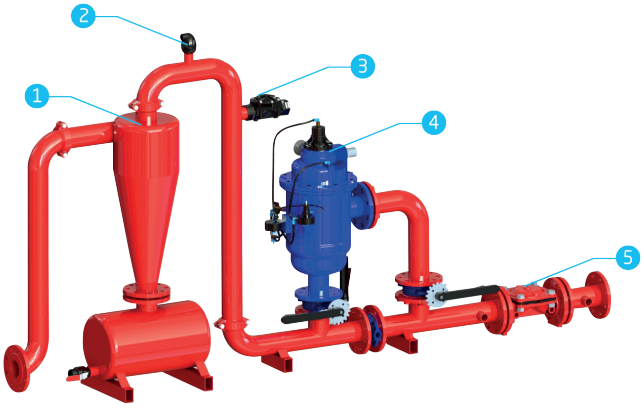
• Head Loss Chart (VH-VE)



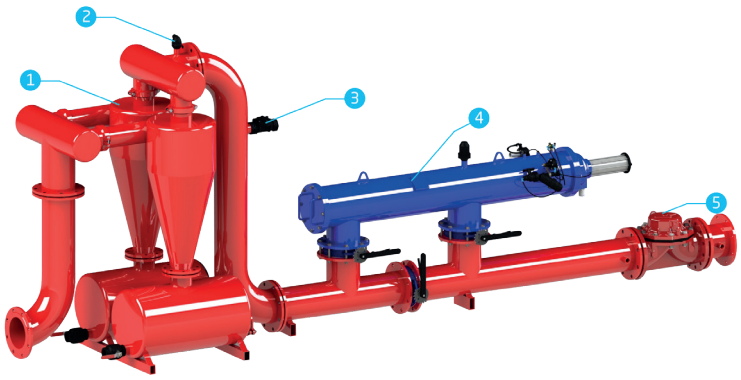
• Head Loss Chart (HH-HE)



• Sample Application



Part No	Part Name
1	Hydrocyclone
2	Air Valve
3	Quick Pressure Relief Valve
4	VE/VH AutoFlush® Automatic Screen Filter
5	Pressure Sustaining Valve



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