

## Automatic Self-cleaning Filters HSBIL Series

- **Stainless steel, duplex & super duplex steels and special alloys construction.**
- **Cleaning without flow interruption.**
- **Filtration grade from 25 microns.**
- **Scratching and suction cleaning system.**
- **Advanced hydrodynamic designs which increase the cleaning efficiency.**
- **Very low back flushing required for cleaning.**
- **Several performances to allow assembly at any position.**
- **Heavy construction for a long service life.**
- **Very low maintenance required**

### CPH Series



**Filtration experts since 1984**

Data and information is for reference only, and may vary depending on specific application

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### CPA Series



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VPN Series



VPN-J Series



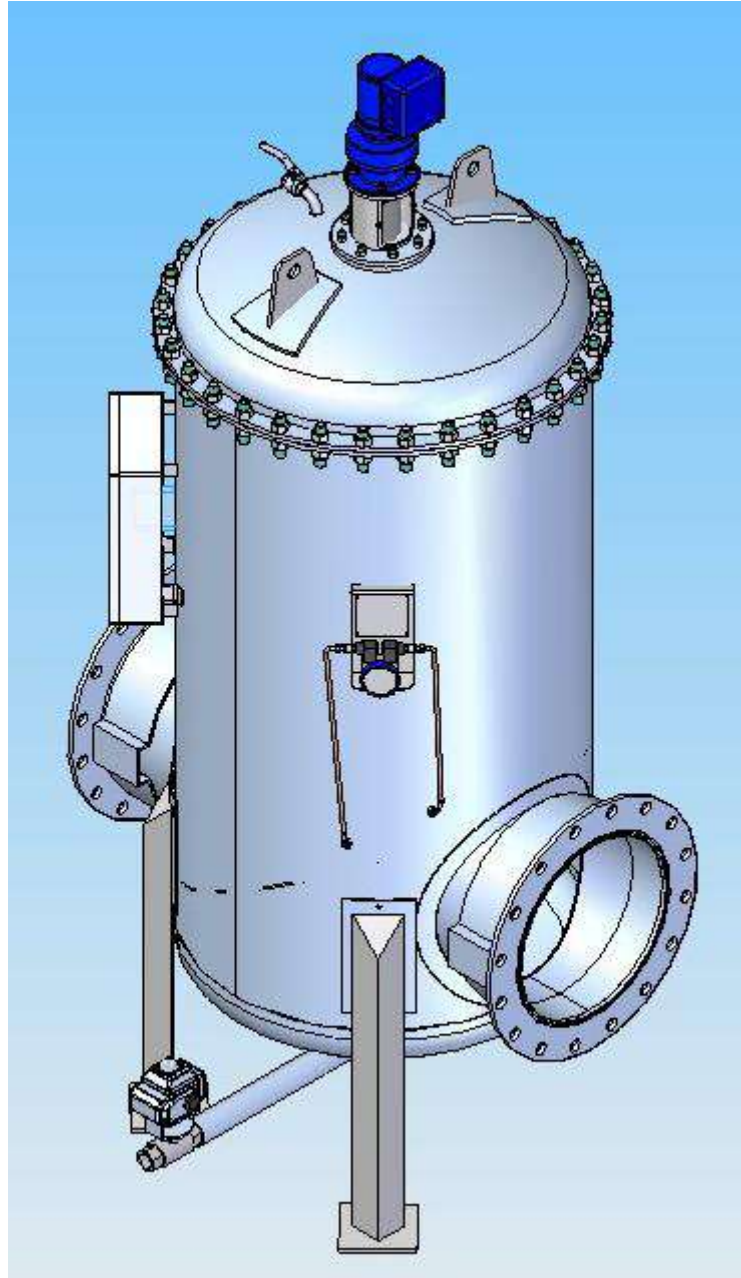
VPI Series, similar but the inlet by upper connection and outlet by lover connection

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### VPL Series



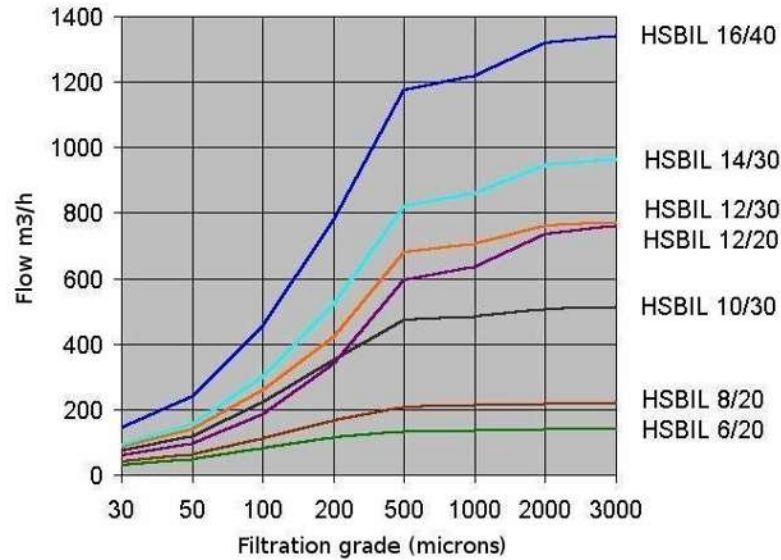
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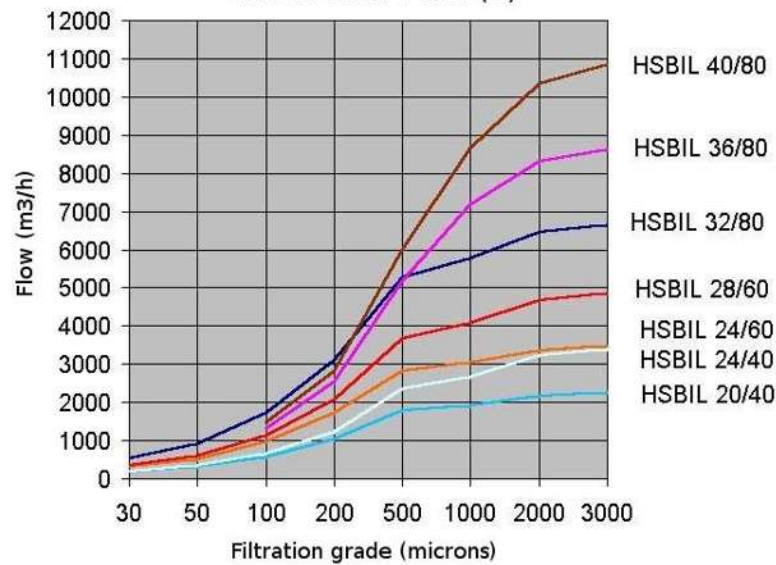
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Flow charts

HSBIL Filters flow (1)








HSBIL Filter Flow (2)



Note: Flow rates data are nominal for 60 mbar initial pressure drop and 1 for pollution coefficient. Is necessary to establish the more adapted flow rate depending on the particular conditions of the process, consult factory in every case. Other sizes and filter grades available on request.

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<b>General design:</b>	ASME VIII Div. 1, AS 1210, EN13445 & PED 97/23EC
<b>Design pressure:</b>	From 4 to 25 bar.
<b>Design temperature:</b>	50 ° C. Other available on request up to 180 ° C.
<b>Connections:</b>	Flanges DIN or ANSI
<b>Electrical feeding:</b>	3 x 400 V, 50 Hz (Others available on request)
<b>Standard executions:</b>	
<b>W Class</b>	All in SS 316 L
<b>D Class</b>	All in Duplex Steel, diverse internals are in Titanium.
<b>S Class</b>	All in Super Duplex Steel, diverse internals are in Titanium.
<b>Special executions:</b>	For applications with aggressive fluids, these filters can be made in several materials and special alloys including Titanium, enquire for each
<b>Gaskets:</b>	EPDM, also is possible another materials: Viton, Neoprene and more.
<b>Motor gear reducer:</b>	Motor power 0,12 to 0,5 kw. Protection IP 65, isolation Class F, temp class B. Hermetic execution, refrigeration for natural convection, without fan. Planetary gear reducer lubricated for life, estimated life 25 years.
<b>Differential pressure gauge:</b>	Wetted parts in SS 316 for W Class, in Monel for D & S Class. Two SPDT red switches with two DIN plug, option one MIL connector Range 0 to 1 bar. Maximum service pressure 400 bars. Piston type with magnetic coupling, the dial indicator and the switches are not in contact with the fluid.
	
<b>Control box:</b>	IP 65 protection grade, made in polycarbonate. Option IP 68 made in aluminium. Logic control with alphanumeric display, push button for manual cleaning and external emergency push button. All the control system operated at 24 VCC.
	
<b>Back flush valve:</b>	Ball valve, in SS 316 for W Class, in Duplex Steel for D & S Class.
<b>Valve actuator:</b>	Electric actuator, power. 24 VCA, IP 67, external manual operation. Body in cast Aluminium. Stainless Steel support and coupling. Ambient temperature from -30 to + 60 ° C Optional: Pneumatic actuator with solenoid valve and position switches.
	
<b>Needle valves:</b>	For connections to the differential pressure gauge, class 6000 pounds. Made in SS 316 for the W Class filters and in SS 316 + Monel for the D & S Class filter. Connection for differential pressure measure in flexible stainless steel hoses for the Class W and in copper or Monel for the Class D.
	
<b>Stamp:</b>	Pressure Equipment Directive PED 97/23 EC. Safety requirements of the Machines Directive 89/392/EC (and subsequent modifications 91/368/EC, 93/44/EC, 93/68/EC). Low Voltage Directive 73/23/EC. Electromagnetic Compatibility 89/336/EC (and subsequent modification 92/31/EC). By request stamp under Explosion Proof Eex and ATEX.
	
<b>Options</b>	Differential pressure transmitter 4 – 20 mA for monitoring Communication module Ethernet Modbus TCP

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