

## Self-cleaning filters HSB Series

- **Stainless steel and special alloys construction.**
- **Cleaning without flow interruption.**
- **Flow rate from 1 to 1000 m<sup>3</sup>/hr.**
- **Filtration grade from 20 microns.**
- **Scratching cleaning system.**
- **Automatic operation.**
- **Automatic or manual cleaning system.**
- **For viscous & loaded fluids.**



### Filtration experts since 1984

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

Hispano Europea de Comercio e Industria S.L.  
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HSB - XX / XXX - X - X - X - X - X  
 | | | | | | |  
 A B C D E F G

A - SIZE
70 - 200 - 300 - 340
440 - 540 - 640

B - FILTER GRADE (MICRONS)
020            20
050            50
075            75
100            100
150            150
200            200
300            300
500            500
Available: Every filter grade

C - MATERIALS
W    AISI 316 L
D    Duplex stainless steel
S    Super Duplex stainless steel
M    Alloy 400
I    Inconel
H    Hastelloy
T    Titanium

D - GASKET MATERIAL
N    Neoprene
V    Viton
S    Silicone

E - DRAIN VALVE DRIVE
S    Pneumatic single effect
D    Pneumatic double effect
E    Electric motor-actuated
M    Manual

F - Ø DRAIN VALVE
1    1" BSP
2    1 ¼" BSP
3    1 ½" BSP
4    2" BSP
5    2 ½" flange
6    3" flange
7    4" flange

G - CLEANING DRIVE
M    Manual
E    Electric
N    Pneumatic
O    Oleo hydraulic

For more options please consult factory

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### 1. Working

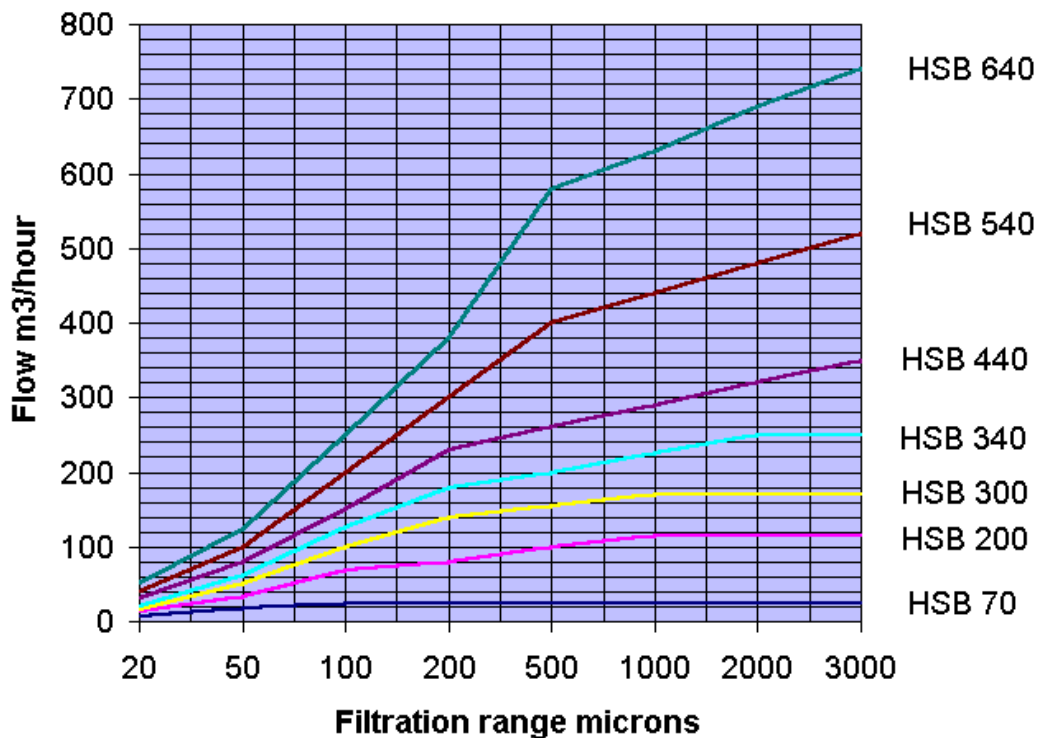
Filter element is a cylinder made of stainless steel, helically bound; keeping a distance between every shape round that defines the filter grade. Opening is narrowest in the side in contact with the dirty fluid, so the dirt doesn't entry into the filter element. The hydrodynamic design of flow into the filter make the biggest particles fall down directly to the bottom, meanwhile the smallest particles are retained in filtering surface where they'll be eliminated by scratching cleaning. Every particle falls down to the bottom of the body and will be evacuated time to time with the purge valve.

The cleaning drive and purge valve of solids can be hand guided or automatic operation; in the automatic one, the cleaning depends of the dirty degree (pressure loss), and/or with interval timer; the solids purge valve opens with a counter of cleaning times, with a very short opening valve time to minimise the loss of product.

### 2. Applications

Oils, fat, emulsions, dispersions, paints, varnish, adhesives, washing solutions, water and very many applications.

### Flow rate HSB Series Self Cleaning filters









Enquiry for every particular service of fluids with density and viscosity different to the water.

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<b>Mechanical design:</b>	ASME VIII Div. 1, EN-13445 and more
<b>Design pressure:</b>	6, 10, 16 and 25 bar. Other available on request
<b>Design temperature:</b>	50 ° C. Other available on request up to 180 ° C.
<b>Connections:</b>	DIN or ANSI flanges.
<b>Electrical feeding:</b>	3Ph 380 to 480V 50/90 Hz (Others available on request)
<b>Standard executions:</b>	
<b>W Class</b>	All in SS 316 L
<b>D Class</b>	Body in Duplex Steel, diverse internals are in Titanium. Filter element in Duplex Steel.
<b>S Class</b>	Body internals 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>	 <p>Motor power 0,12 to 0,37 kw. Protection IP 65, isolation Class F, temperature class B. Special executions available Hermetic execution, refrigeration for natural convection, without fan. Cycloid gear reducer lubricated for life, life estimated 25 years.</p>
<b>Differential pressure gauge:</b>	 <p>Wetted parts in SS 316 for W Class, in Monel for D Class. IP 65. Range 0 to 1 bar, 2 independent adjustable reed switches. Maximum service pressure 400 bars. Piston type with magnetic coupling, the dial indicator and the switches are not in contact with the fluid.</p>
<b>Control box:</b>	 <p>IP 65 protection grade, made in polyester. Logic control with alphanumeric display, lamps and push button for manual cleaning order. All the control system operated at 24 V.</p>
<b>Back flush valve:</b>	Ball valve, made in SS 316 for W Class, in CPVC, SS 316 or Duplex Steel for D Class. Also available in Alloy 400, Titanium and more
<b>Valve actuator:</b>	 <p>Electric actuator, power 10 W. 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.</p>
<b>Needle valves:</b>	 <p>For connections to the differential pressure gauge, class 6000 pounds. Made in SS 316 for W Class filters and in Alloy 400 for the other Class filter. Connection for differential pressure measure in flexible stainless steel for the Classes W and in copper or Alloy 400 for the Class D or S.</p>
<b>Stamp:</b>	 <p>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.</p>

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