



Wedge Wire Self Cleaning Filter

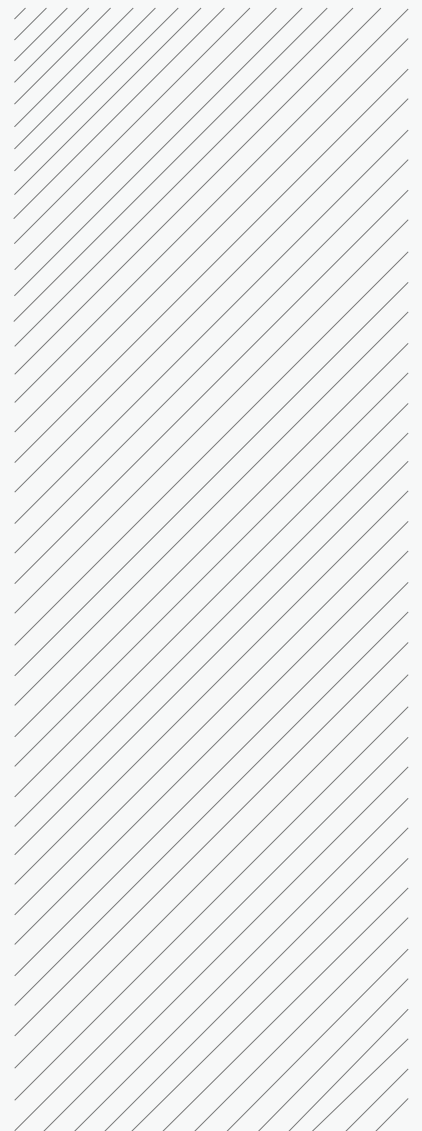
Weave Impossible to Possible



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BOEDON Brochure



Our wedge wire self cleaning filter can meet the impurities removal requirements of automatic self cleaning filters.

Wedge wire self cleaning filter is a filter element constructed of high quality V-shaped wedge wires and support wires. It is installed in automatic self cleaning filter housings to intercept suspended solids and particles in the fluid, reduce turbidity and remove system impurities, thus purifying water quality and achieving self cleaning. It features high pressure resistance, corrosion resistance, uniform slot size, large filter area and not easy to clog, and is widely used in the automatic self cleaning filters in petroleum, paper & pulp, chemical, natural gas, food, and water treatment industries.

Wedge wire self cleaning filters are made of stainless steel, Hastelloy or other alloys. We can choose the right filter material to perfectly match up with your filtration environments.

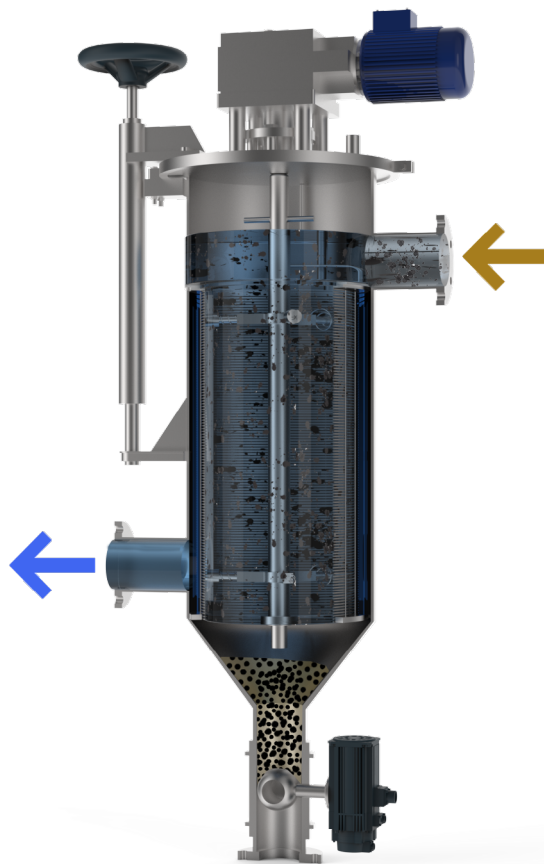
Wedge Wire Self Cleaning Filter



WEDGE WIRE SELF CLEANING FILTER

Working Principle

The liquid enters the self cleaning filter and passes through the wedge wire screen inside to start the filtration process. Various dirt, particles in the liquid will build on gradually on the inner screen surface, and differential pressure gradually increases as well. When the differential pressure reaches the preset value, the control system will receive the signal, the self cleaning process begins. A part of filtered liquid (less than 1%) reenters the filter body, the motor drives the brush (scraper) to rotate to clean the screen and effectively remove the contaminants deposited on the screen surface. Meanwhile, the drain valve opens for discharging, the self cleaning process lasts about 12–18 seconds. During the entire self cleaning period, normal filtration part will be continuous with very low flow rate fluctuation.

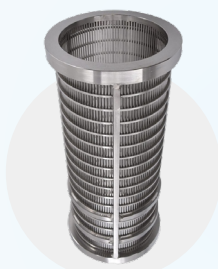


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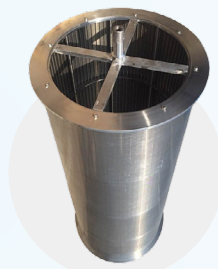
Top Type



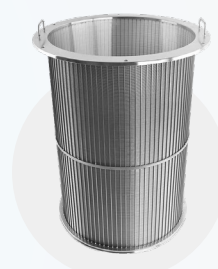
Flange top



Metal ring top



Cross bar top



Handle top

WEDGE WIRE SELF CLEANING FILTER

With or Without Reinforcing Rings



Without reinforcing ring



With one reinforcing ring



With double reinforcing rings



With multiple reinforcing rings

WEDGE WIRE SELF CLEANING FILTER

Specification

Material: stainless steel (304, 316L, etc.), Hastelloy, etc.

Filter rating: 50–3000 μm

Filter construction: V-shaped wedge wire screen

Connection: flange, metal ring

Wedge wire (mm): 0.5 \times 1.5, 0.75 \times 1.5, 1 \times 2, 1.5 \times 2, 2 \times 3, 2 \times 4, 3 \times 5

Support rod (mm): 1.5 \times 2.5, 1.8 \times 2.5, 2 \times 3, 2 \times 4, 3 \times 5, 3 \times 6, 3 \times 10, 4 \times 7

Working pressure: 0.25–2.5 MPa

Operating temperature: 0–65 $^{\circ}\text{C}$

Self cleaning period: 12–18 seconds



Wedge Wire Self Cleaning Filter

| Model | Diameter (mm) | Length (mm) | Filter Area (m^2) |
|----------------|---------------|-------------|------------------------------|
| BD-WSC-20-40 | 200 | 400 | 0.50 |
| BD-WSC-30-60 | 300 | 600 | 1.13 |
| BD-WSC-40-80 | 400 | 800 | 2.01 |
| BD-WSC-50-100 | 500 | 1000 | 3.14 |
| BD-WSC-60-120 | 600 | 1200 | 4.52 |
| BD-WSC-70-140 | 700 | 1400 | 6.15 |
| BD-WSC-80-160 | 800 | 1600 | 8.04 |
| BD-WSC-90-180 | 900 | 1800 | 10.17 |
| BD-WSC-100-200 | 1000 | 2000 | 12.56 |

Notes: Other specifications are available upon request.

WEDGE WIRE SELF CLEANING FILTER

Features & Application

Features

- High mechanical strength, can withstand large differential pressure
- Continuous slot structure, large filter area
- V-shape opening makes it easy cleaning and not easy to clog
- Simple structure, easy removal
- Continuous filtration without interrupting the production
- Little water consumption during the cleaning period

Application



Water Treatment

- Surface sewage filtration
- Cooling water filtration, etc.



Oil & Gas

- Completion fluid filtration, etc.



Food

- Fermentation broth filtration
- Chocolate liquor filtration, honey filtration, etc.



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