WEDGE WIRE PRODUCT

Candle filter elements

At SIMO Screens, we make candle filter elements for fine solid and liquid separation under pressure, with slots from 25 microns.

Elements backwash clean and are rigid enough to remove without damage to the filter surface, so the filter is serviced, not rebuilt.

SLOT	ENDS	CLEANING
From 25 microns	Threaded or flanged	Backwash and precoat



V-PROFILED WIRE

Resists clogging. Carries the pressure. Opens more area.

The wire meets a particle at two points and the slot widens behind the face, so what passes cannot lodge.

WELDED AT EVERY JUNCTION

Holds its slot under load.

Each wire is resistance welded to every support rod, so the screen resists pressure transients up to 300 PSI and thermal cycling without stretching or tearing.

BUILT TO YOUR EQUIPMENT

Fits at the first shutdown.

Made to your drawing, sample or vessel, in the alloy the medium calls for, so it drops into the equipment already in place.

FEATURES AND BENEFITS

Rigid welded element

Resistance welding at every wire and rod intersection keeps the slot stable.

Smooth outer face

The flat face of the V-profile wire carries an even precoat layer and releases the spent cake cleanly on backflush.

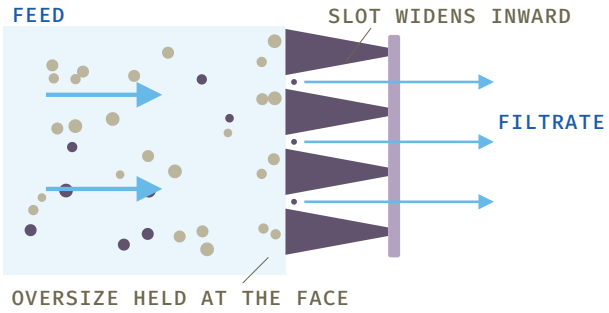
Inward-widening slot

Any filter aid particle that passes the face clears inward instead of lodging, which keeps the element open over repeated cycles.

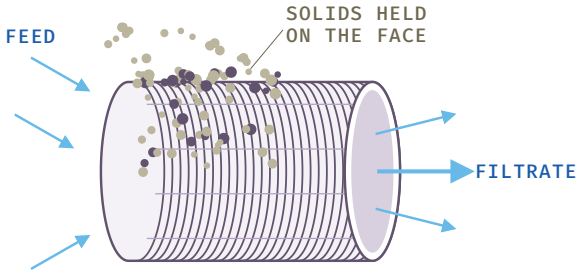
Precise slot

The slot is held to plus or minus 5 percent of nominal.

HOW THE SLOT WORKS



Oversize is held at the face; the slot widens inward, so whatever passes cannot lodge.



On a cylinder, flow passes from outside to inside and solids stay on the slot face.

SPECIFICATION

Ranges and options

Slot opening	25 microns (0.025 mm) to 25 mm, tolerance plus or minus 5% of nominal
Candle diameter	25 to 800 mm
Candle length	Up to 6,000 mm
Profile wire	Light, standard, heavy duty or custom, 12SB to 56SB
Support rods	Q23, Q35, Q55, 35SB, F123, F203, F253, round 120, round 140
Flow configuration	Radial, external profile, outside to inside, with backflush
Top fittings	Threaded, flanged or clamped, to suit the register plate
Supply options	Candles only, candles with register plate, or a complete filter housing
Construction	Resistance welded at every intersection; resists pressure transients up to 300 PSI

QUALITY

ISO 9001:2015
Quality system covering design, production and inspection.

Slot control
Feeler gauges through the run; optical measurement where a gauge cannot be used.

Final inspection
Report records minimum, maximum and mean slot against tolerance.

Traceability
QR-coded tag (laser marking where required); heat numbers traced to the MTC.

OFTEN SUPPLIED WITH

- Screen tubes and pipes
- Outlet baskets and collectors
- Screen cylinders

HOW WE ENGINEER YOUR SCREEN

01 **Share the requirement**
Drawing, sample or process data

02 **Engineering review**
Slot, profile, rod, material and flow

03 **CFD and FEA**
Pressure drop and strength, where required

04 **Drawing approval**
GA drawing and datasheet approved

05 **Manufacture**
Resistance welded and fully inspected

06 **Dispatch**
Mill Test Certificate with every product

FOR A QUOTATION, SEND OUR ENGINEERS

01 Application: beer, beverage, food liquid, edible oil, chemical or other.

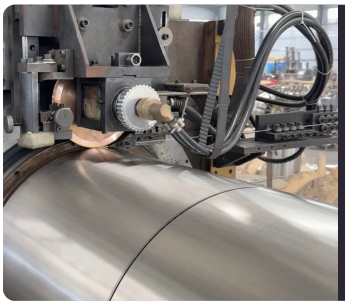
02 Filter make and model, or the vessel and register plate drawing.

03 Candle length, outside diameter and quantity.

04 Top fitting type and dimensions, or a sample candle.

05 Precoat and filter aid grade, or the particle size to retain.

06 Filtration and backflush pressures, and the operating temperature.



Send your candle filter elements specification

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Scan to open the specification form. Our engineers will connect with you within a working day.