WEDGE WIRE PRODUCT

# Filter nozzles

At SIMO Screens, we make stainless steel filter nozzles for sand, carbon and multigrade filters, including long-tail air scour nozzles to drawing.

**Nozzles hold the media in the filter through service and air scour, so filters are not lost to media carry-over.**

| SLOT | THREADS | AIR SCOUR |
|---|---|---|
| 0.2 to 0.5 mm typical | To standard | Long-tail to drawing |



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

### Welded stainless construction

Resistance welding at every wire and rod intersection keeps the slot from opening in service and resists pressure transients up to 300.

### Non-clogging slot

Two-point contact at the wire face and an inward-widening slot let fines pass through, so the nozzle stays open between backwash cycles.

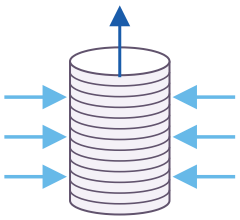
### Even distribution

A uniform slot around the head spreads backwash water, and air where used, evenly into the bed.

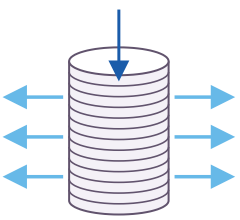
### Fit to existing plates

Stems are threaded into the plate, welded or flanged, and can be made to match an existing plate from a sample nozzle.

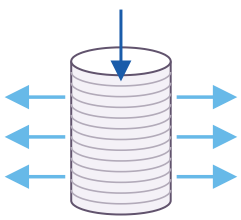
## FLOW CONFIGURATIONS



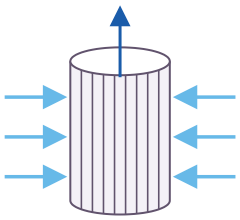
RADIAL EXTERNAL
Flow outside to inside



RADIAL EXTERNAL
Flow inside to outside



RADIAL INTERNAL
Flow inside to outside



AXIAL EXTERNAL
Flow outside to inside

SPECIFICATION

## Ranges and options

| | |
|---|---|
| **Slot opening** | 25 microns (0.025 mm) to 25 mm, tolerance plus or minus 5% of nominal |
| **Head diameter** | From 25 mm |
| **Stem** | Short or long, plain or with air entry hole or slot |
| **Mounting** | Threaded into the plate, welded or flanged |
| **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 reverse flow in backwash |
| **Construction** | Resistance welded at every intersection; resists thermal cycling and 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

- Header and hub laterals
- Support grids
- Screen tubes and pipes
- Resin traps

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 Filter type and service: sand, carbon, multigrade, softener, ion exchange or other.

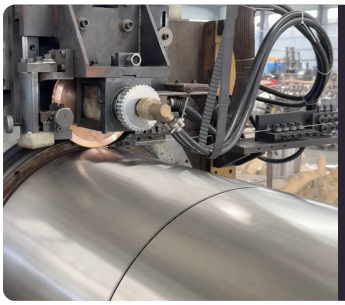
02 Filter diameter and nozzle plate drawing, or the number of nozzles required.

03 Service and backwash flow rates, and whether you use air scour.

04 Media and support gravel specification, with the finest grain size.

05 Plate hole size, plate thickness and thread, or a sample nozzle.

06 Water analysis and any chemicals in contact.



### Send your filter nozzles specification

sales@simoscreens.com · +91 93730 08466 (phone and WhatsApp)

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