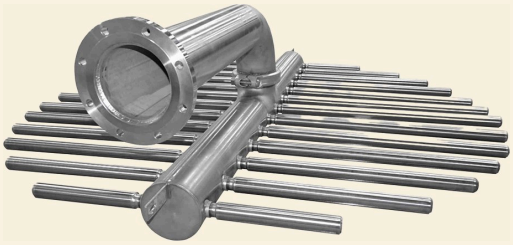
WEDGE WIRE PRODUCT

Header and hub laterals

At SIMO Screens, we make header, hub and lateral underdrains that hold the media in the vessel and distribute flow evenly across the bed.

Media stays in the vessel and the whole bed is used, so service runs reach their design volume and backwash does not carry media to drain.



LATERAL PROFILE	SUPPORT RODS	PRESSURE TRANSIENTS
12SB or 15SB	Q23 or Q35	Up to 300 PSI

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

Even flow distribution

Slot, lateral spacing and length are calculated together, so the whole bed is used and regenerant is not wasted on channelled zones.

Media retention

The continuous slot is sized below the smallest bead or grain, and the welded construction keeps it at that size through repeated.

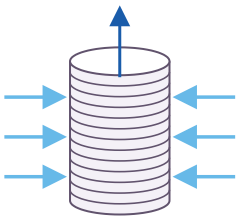
Non-clogging profile

The flat wire face is outside and the slot widens inward, so fines pass through instead of lodging and the outer face.

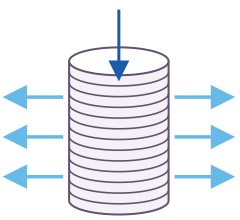
Removable through the manway

Flanged, threaded or clamped lateral connections allow installation and removal without hot work inside the vessel.

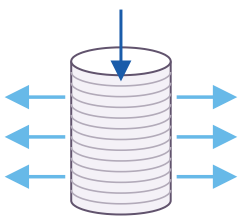
FLOW CONFIGURATIONS



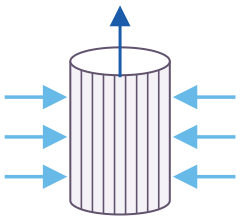
RADIAL EXTERNAL
Flow outside to inside



RADIAL EXTERNAL
Flow inside to outside



RADIAL INTERNAL
Flow inside to outside



AXIAL EXTERNAL
Flow outside to inside

SPECIFICATION

Ranges and options

Lateral slot opening	25 microns (0.025 mm) to 25 mm
Slot tolerance	Plus or minus 5% of nominal, stated on the drawing
Lateral diameter	25 mm to 800 mm
Lateral length	Up to 6,000 mm
Profile wire	12SB on Q23 rods for low pressure and high flow; 15SB for higher pressure; others to design
Support rods	Q23, Q35, Q55, 35SB, F123, F203, F253, round 120, round 140
Materials	SS 304, SS 316L, Duplex 2205, Super Duplex 2507, Hastelloy, Monel
Lateral connections	Flanged, threaded or clamped
Flow configuration	Radial, external profile, outside to inside, with reverse flow in backwash

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

- Resin traps
- Filter nozzles
- Screen tubes and pipes
- Support grids

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 Vessel type (cation, anion, mixed bed, softener, polisher or filter) and service.

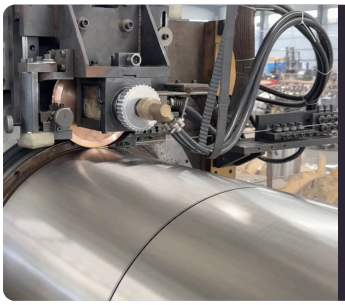
02 Vessel drawing: diameter, height, nozzle positions and manway size.

03 Position of the assembly: bottom collector, upper distributor or middle collector.

04 Service and backwash flow rates.

05 Resin or media type, with the data sheet showing the size range.

06 Regenerant chemicals and concentrations.



Send your header and hub laterals 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.