WEDGE WIRE PRODUCT

Sand control screens

At SIMO Screens, we make wire-wrapped and pre-packed sand control screens on perforated base pipe for oil, gas and water wells.

The slot holds the formation sand back at the completion, protecting pumps and surface equipment from erosion.

CONSTRUCTION	TESTING	MATERIALS
Wire wrapped on base pipe	**Collapse and burst on request**	**SS 304 and SS 316L**



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

Load-bearing base pipe

The base pipe carries the tensile, collapse and torsion loads of the string.

Continuous slot jacket

V-profile wire resistance welded to longitudinal rods gives a continuous slot with far higher open area than slotted pipe.

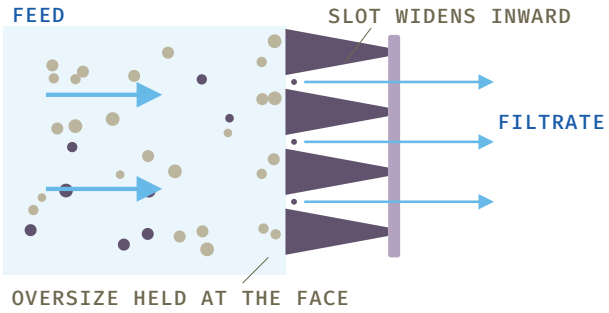
Non-clogging geometry

The flat wire face is outside and the slot widens inward.

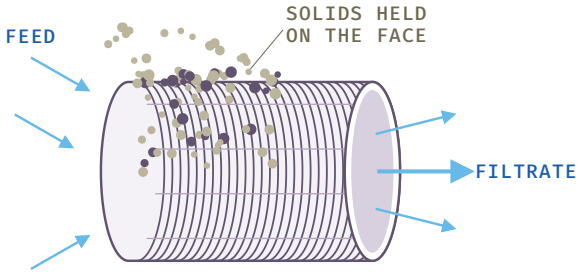
Controlled slot width

Slots are checked with feeler gauges at set-up, during the run and at the end of each jacket.

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

Construction	Wire-wrapped jacket on perforated base pipe, or pre-packed with two jackets
Pack media	Graded gravel or resin-coated sand
Slot opening	25 microns (0.025 mm) to 25 mm
Diameter and joint length	Within 25 mm to 800 mm; joints 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
Jacket materials	SS 304, SS 316L, Duplex 2205, Super Duplex 2507
Base pipe and connections	Sourced or free-issued, to the specification and drawing
Testing	Collapse, burst and similar tests on request, at additional cost

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

- Water well screens
- Screen tubes and pipes
- 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 Well type (oil, gas or water), depth and hole angle.

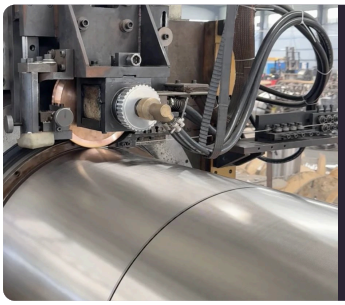
02 Completion: standalone screen, gravel pack or pre-packed screen.

03 Sieve analysis of the formation sand, or the gravel pack and pack media grading.

04 Base pipe size, grade, weight and connection, and whether you will free-issue it.

05 Screen joint length, number of joints and blank lengths at each end.

06 Well fluid analysis: chlorides, gases and temperature.



Send your sand control screens specification

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