DUAL PRE-PACK/SC™

Pipe-based, wire-wrapped sand control screen for special-clearance applications

The Dual Pre-Pack/SC is a cost-effective sand control system designed for close tolerance applications. Its self-cleaning wedge-wire outer screen is precision welded to our support ribs for maximum contact area, providing consistent slot size and greater collapse resistance. This screen is ideal for situations where optimum external and internal clearances must be maintained.

It consists of a base pipe with two concentric V-shaped wire screens with a 0.144-in. thick integral gravel pack. The aggregate gravel pack can be resin or non-resin coated. The dual screen provides built-in sand control when gravel packing is difficult or not feasible. It is an economical option for marginal reservoirs where profitability depends on stringent cost control measures.

The Dual Pre-Pack/SC screen is designed to withstand the rigors of the toughest directional drilling environments and is manufactured to the highest quality standards.

Base pipe
high-strength, perforated API tubulars (alloy and hole size/pattern per customer specs).

Rib wire
the unique structure of the inner rib wire combined with the swaging process of the design provides tensile and collapse strength to the base pipe. The outer rib wire supports the outer screen wrap wire.

Inner screen wrap wire
V-shaped wire gauge size is determined by the selected aggregate in the screen annulus (alloy and dimensions per customer specs).

Aggregate gravel pack
custom designed and selected to suit the pay zone formation materials of the well (can be resin or non-resin coated).

Outer screen wrap wire
V-shaped wire provides a self-cleaning action for greater flow and less chance of plugging (alloy and dimensions per customer specs).

Applications

- Engineered specifically for special-clearance applications
- Built-in sand control when gravel packing is difficult, not feasible, or too costly
- Shallow wells with thin pay zones
- Numerous workover applications
- Cased or open hole horizontal completions.

ALLOY SCREEN WORKS
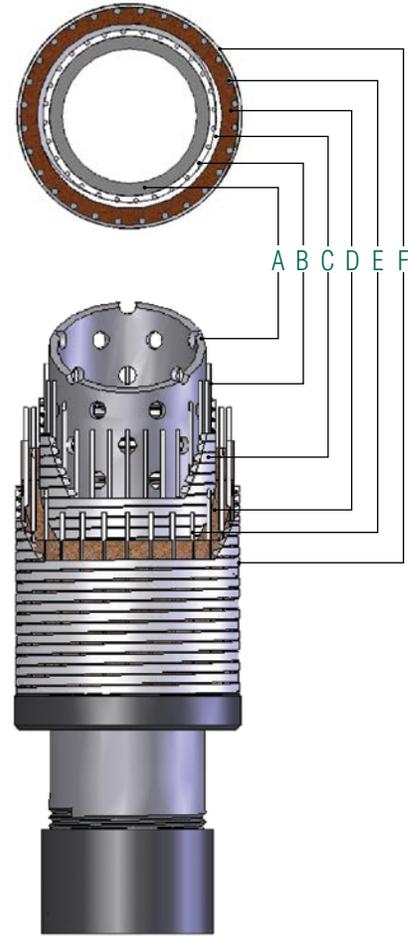▲▲▲ A division of Alloy Machine Works, Inc.

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Advantages

- Economical solution when gravel packing is not feasible for special-clearance applications
- Eliminates the need to under-ream and gravel pack a well
- Ideal for low budget workover programs
- Choice of wrap wire and base pipe alloys as well as type and thickness of aggregate gravel pack allows for custom engineering to match specific production environments
- Purpose built for oil, gas or water producing wells and injectors, as well as waterflood, steamflood and disposal wells
- More effective than slotted liners.

A. Base pipe (alloy and hole size/pattern per customer specs)

B. Rib wire (to specs)

C. Inner screen wrap wire (alloy and dimensions per customer specs)

D. Aggregate gravel pack can be resin or non-resin coated

E. Rib wire (to specs)

F. Outer screen wrap wire jacket +/- 0.016 (alloy and dimensions per customer specs)

A B C D E F

Base Pipe				Gravel Pack	Perforations		Screen		
OD (in.)	ID (in.)	Weight (lbs.)	Coupling OD (in.)	Thickness (in.)	Size (in.)	Holes/ft.	OD (in.)	Cylinder Area (sq in./ft)	.006 GA Inlet Area (sq in./ft)
1.900	1.61	2.75	2.200	0.144	3/8	84	2.720	102.49	6.46
2.063	1.75	3.25	2.500	0.144	3/8	84	2.883	108.63	6.84
2.375	1.99	4.60	2.875	0.144	3/8	96	3.195	120.39	7.58
2.875	2.44	6.40	3.500	0.144	3/8	108	3.695	139.23	8.77
3.500	2.99	9.20	4.250	0.144	3/8	132	4.320	162.78	10.26
4.000	3.55	9.50	4.500	0.144	3/8	144	4.820	181.62	11.44
4.500	4.00	11.60	5.000	0.144	3/8	156	5.320	200.46	12.63
5.000	4.41	15.00	5.563	0.144	3/8	168	5.820	219.30	13.82

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