

## SAND CONTROL PRODUCTS

### Direct Wire Wrap Screen

#### Description

Variperm Direct wire wrap screen is manufactured directly over top of the perforated base pipe leaving the ribs in intimate contact with the pipe surface. This allows for higher installation loads and is best suited for challenging well bores with severe dog legs and long laterals.

Variperm wire wrap screens are manufactured from 304L or 316L stainless steel. Various rib and wrap wire configurations along with stainless steel material offer optimized plugging and corrosion resistance with maximum structural integrity.

Variperm uses a variety of profiles and metal compositions in the design of horizontal well screen depending on engineering and application requirements.

The screen gauge is strictly monitored throughout the wrapping process and qualified to the ISO 17824 wire wrap screen standards; with optical gauge verification available.

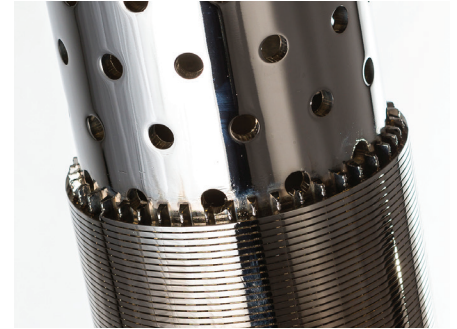
The base pipe is perforated maximizing open flow area, finding the optimal value to provide adequate inflow while minimizing the yield reduction of the pipe.

#### Features and Benefits

- Superior installation loads
- 304L/316L stainless steel rib and wrap wire for optimized corrosion and plugging resistance
- High open flow area 5%-20% based on screen gauge
- Increased well bore longevity and reduced work over costs
- Sand control is independent of the mechanical integrity of the liner
- Low entrance velocity with lower drag forces
- Proven technology in horizontal applications
- Keystone wrap wire to aid in self cleaning ability of screen

#### Applications

- Thermal SAGD and CSS HZ open hole
- HZ cased hole
- Scab Liner installations for failed well bores
- Injection Wells



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### Technical Data

Base Pipe		Holes Per foot	Holes Per meter	Hole Size inches	Hole Open Area sq.in./ft	Screen		NU Coupling		EU Coupling	
Outer Diameter						Outer Diameter		Outer Diameter			
inches	mm					inches	mm	inches	mm	inches	mm
1.900	48.26	84	275.6	3/8	9.3	2.330	59.18	2.200	55.88	2.500	63.50
2.375	60.33	96	315.0	3/8	10.6	2.805	71.25	2.875	73.03	3.063	77.80
2.875	73.03	108	354.3	3/8	11.9	3.305	83.95	3.500	88.90	3.668	93.17
3.500	88.90	132	433.1	3/8	14.6	3.930	99.82	4.250	107.95	4.500	114.30
4.000	101.60	144	472.4	3/8	15.9	4.430	112.52	4.750	120.65	5.000	127.00
4.500	114.30	156	511.8	3/8	17.2	5.010	127.25	5.200	132.08	5.563	141.30

Base Pipe		Holes Per foot	Holes Per meter	Hole Size inches	Hole Open Area sq.in./ft	Screen		Coupling	
Outer Diameter						Outer Diameter		Outer Diameter	
inches	mm					inches	mm	inches	mm
4.500	114.30	156	511.8	3/8	17.2	5.010	127.25	5.000	127.00
5.000	127.00	168	551.2	3/8	18.6	5.510	139.95	5.563	141.30
5.500	139.70	180	590.7	3/8	19.9	6.010	152.65	6.050	153.67
6.625	168.28	192	629.9	3/8	21.2	7.135	181.23	7.390	187.71
7.000	177.80	216	708.7	3/8	23.9	7.510	190.75	7.656	194.46
7.625	193.68	252	826.6	3/8	27.8	8.135	206.63	8.500	215.90
8.625	219.08	276	905.7	3/8	30.5	9.135	232.03	9.625	244.48