



STARSE Self-Cleaning Composite (SSCC) 2008 Screen

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STARSE is RESERVOIR LINK exclusive strategic partner for screen solutions.

Structures

STARSE Self-Cleaning Composite (SSCC) 2008 Screen is made up of outer shroud, filter jacket, inner shroud and base pipe (see diagram, right). The inner shroud is punched with grooved bridges or arc bridges and long ports, which are cross distributed axially; the outer shroud is punched with long ports; filter jacket is made of several filtration layers, whose mesh size can be customized according to reservoir condition. The outer and inner shrouds and the filter media are of SS304, SS316 or higher acid-proof and anti-corrosive material. The outer shroud could protect the filter jacket during installation and under pressure, while the inner shroud protects and supports filter media, and the filter jacket plays the role of sand-exclusion and flow diffusion

Features

SSCC 2008 Screen is characterized by high permeability, high strength of tensile & yield tolerance, anti-corrosion, and extended well longevity.

- The inner and outer shrouds, filtration layers formed an integrated barrel, which is directly installed onto the perforated base pipe through Supporting Ring on both jacket ends. And the Rings are connected to base pipe with socket head cap screw and moreover tightly welded on surface. So even the welded point damaged due to corrosion or other factors, the screw bolt will still prevent filter jacket falling off from base pipe. These enable more integral strength of tensile & bent tolerance and safety reliable in applications of H₂S, CO₂ wells or high Cl⁻ environment.
- Inner shroud with bridging structure could enlarge annular drainage area and change the flow path, preventing filtration media from sand accumulation and solving screen plugging problem. ("Self Cleaning Function")
- The outer shroud could protect the filter jacket when installation and under pressure; long ports on the outer shroud could maximize the inflow area of the whole screen joint.
- The filter jacket layer is fabricated by active reel mesh and folded on both ends. It's not fixed by the both ends Supporting Rings but supported by the inner shroud and outer shroud. The down hole big changes of the screen internal and external pressure can cause the tiny wriggle of the filter folders and the filter jacket has the self-cleaning function.
- In case of existing collapse force, there is a little flexibility distortion to screen surface due to the existence of annular space between filter barrel and perforated base pipe, so as to rebuild the deposited sand bridge on screen surface and achieve anti-plugging. While in case of existing burst force, the annular space between the inner surface of filter barrel and outer surface of perforated base pipe is to be enlarged so as to ensure the high permeability of screen.
- While RIH, although of existence of torque strength, the filter media layers of screen are flexible enough to prevent the torque strength on filtration layers so as to protect each filter hole from being damaged and ensure high filter micron ratings of screen.



Technical Parameters

Base Pipe	Size in/mm	2-7/8" (73.03)	3-1/2" (88.9)	4" (101.6)	4-1/2" (114.3)	5" (127)	5-1/2" (139.7)	6-5/8" (168.3)	7" (177.8)
	WT. (lb/ft)	6.4	9.2	9.5	12.6	15	17	24	26
Screen ID. (in)		2.441	2.992	3.548	3.958	4.408	4.892	5.921	6.276
Screen OD. (in)		3.602	4.25	4.744	5.256	5.768	6.24	7.382	7.776
Hole Size (in)		0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Holes Density Holes/ft		66	77	88	99	110	121	132	143
Screen weight (lb/ft)		9.406	13.61	15.2	19.3	21.13	23.1	28.62	34.79
Inflow Area (in ² /ft)		8.29	9.67	11.05	12.43	13.82	15.2	16.58	17.96
Max Tensile Load (lb)	N80	116393	178531	189640	243549	288904	325293	454872	487439
	K55/L80	109240	168186	178788	229226	271651	305756	426949	457364
	J55	91647	137589	146812	186677	220168	247359	342985	366802
Max Torque Load (ib-ft)	N80	6919	12372	15333	22928	31044	39182	68882	78818
	K55/L80	6575	11761	14576	21797	29512	37249	65483	74929
	J55	5190	9283	11505	17205	23294	29401	51687	59142
Collapse Ratings (Psi)		5023~3050							
Bursting Ratings (Psi)		2280~996							
Screen Length		Nominal length of API tubing or casing : 10ft, 20ft ,40ft of usually selective length(±0.65ft)							
Filter Media:		Filter Micron Ratings				Equivalent Gravel Size			
Composite		µm							
BZW 40/60		60				40/60 Mesh			
BZW 30/40		100				30/40 Mesh			
BZW 20/40		120				20/40 Mesh			
BZW 16/30		150				16/30 Mesh			
BZW 10/30		200				10/30 Mesh			
BZW 10/20		250				10/20 Mesh			
BZW 10/16		300				10/16 Mesh			
BZW 8/12		350				8/12 Mesh			

Notes:

- The weight and holes density can be customized according to the actual reservoir, well and sand production data.
- The maximum tensile load and torque load are relative to the basepipe provided by Starse-Reservoir Link.
- Contact your Reservoir Link representative for specifics regarding pressure / temperature ratings, threads, materials, etc.



STARSE
Bridging Composite
2008 Screen

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STRUCTURE

STARSE Bridging Composite 2008 Screen is made up of **outer shroud**, **filter jacket**, **inner shroud** and **perforated base pipe**. The inner and outer shrouds are punched with grooved bridges or arc bridges (bridging structure) and with sand filtration apertures on both sides of the bridges of outer shroud. The outer shroud is punched with regularly distributed round ports, which are cross distributed axially; filter jacket is made of several filtration layers, whose mesh size can be customized according to reservoir condition. The outer and inner shrouds and the filter media are of SS304, SS316 or higher acid-proof and anti-corrosive material. The outer shroud could protect the filter jacket during installation and under pressure, while the inner shroud protects and supports filter media, and the filter jacket plays the role of sand-exclusion and flow diffusion

FEATURES

- The inner and outer shrouds, layers formed an integrated barrel, which is directly installed onto the perforated base pipe through Supporting Ring on both jacket ends. And the Rings are connected to base pipe with socket head cap screw and moreover tightly welded on surface. So even the welded point damaged due to corrosion or other factors, the screw bolt will still prevent filter jacket from falling off from base pipe. These enable more integral strength of tensile & bent tolerance and safety reliable in applications of H₂S, CO₂ wells or high Cl⁻ environment.
- Inner shroud adopts bridging structure and round ports together, which could enlarge annular drainage area and flow area, so as to ensure high permeability of the screen.
- The bridging structure of outer shroud could protect the filter jacket from being damaged during RIH. The side-punched apertures can avoid direct erosion to protect the filtration layers.
- The filter jacket layer is fabricated by active reel mesh and folded on both ends. It's not fixed by the both ends Supporting Rings but supported by the inner shroud and outer shroud. The down hole big changes of the screen internal and external pressure can cause the tiny wriggle of the filter folders and the filter jacket has the self-cleaning function.
- In case of existing collapse force, there is a little flexibility distortion to screen surface due to the existence of annular space between filter jacket and perforated base pipe, so as to rebuild the deposited sand bridge on screen surface and achieve anti-plugging. While in case of existing burst force, the annular space between the inner surface of filter jacket and outer surface of perforated base pipe is to be enlarged so as to ensure the high permeability of screen.
- While RIH, although of existence of torque strength, the filter media layers of Screen are flexible enough to prevent the torque strength on filtration layers so as to protect each filter hole from being damaged and ensure high filter micron ratings of screen.



Technical Parameters

Base Pipe	Size in/mm	2-7/8" (73.03)	3-1/2 (88.9)	4" (101.6)	4-1/2 (114.3)	5" (127)	5-1/2" (139.7)	6-5/8" (168.3)	7" (177.8)
	WT. lb/ft	6.4	9.2	9.5	12.6	15	17	24	26
Screen ID. (in)		2.441	2.992	3.548	3.958	4.408	4.892	5.921	6.276
Screen OD. (in)		3.839	4.429	4.941	5.375	5.909	6.398	7.58	7.933
Hole Size (in)		0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Hole Density Holes/ft		66	77	88	99	110	121	132	143
Screen weight (lb/ft)		13.12	15.8	16.9	20.72	24.18	25.86	36.34	41.08
Inflow Area (in ² /ft)		8.29	9.67	11.05	12.43	13.82	15.2	16.58	17.96
Max Tensile Load (lb)	N80	131841	206720	219583	282004	334521	376655	526693	564402
	K55/L80	126697	194742	207018	265420	314543	354033	494361	529580
	J55	106118	159314	169993	216153	254931	286416	397141	424719
Max Torque Load (lb/ft)	N80	6919	12372	15332	22928	31044	39182	68882	78818
	K55/L80	6575	11761	14576	21797	29512	37249	65483	74929
	J55	5190	9283	11505	17205	23294	29401	51687	59142
Collapse Ratings (Psi)		5023~3050							
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Screen Length		Nominal length of API tubing or casing : 10ft, 20ft ,40ft of usually selective length(±0.65ft)							
Filter Media:			Filter Micron Ratings:			Equivalent Gravel Size			
Composite			um						
BZW 40/60			60			40/60 Mesh			
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BZW 16/30			150			16/30 Mesh			
BZW 10/30			200			10/30 Mesh			
BZW 10/20			250			10/20 Mesh			
BZW 10/16			300			10/16 Mesh			
BZW 8/12			350			8/12 Mesh			

Notes:

- The weight and holes density can be customized according to the actual reservoir data.
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