



Ultra-Grip™ Screens

Weatherford's *Ultra-Grip* screens are the most highly evolved wrapped-on-pipe screens, with lineage going back to Weatherford's invention of the shrink-fit manufacturing process 25 years ago. These screens are built for excellent mechanical strength to perform in the most demanding openhole and cased-hole environments.

Applications

- Openhole and cased-hole completions with high-pump rates and pressures
- Openhole, standalone completions in well-sorted, homogeneous reservoirs
- Horizontal and extended-reach wells
- Thermal/steam-injection wells

Features, Advantages and Benefits

- Patented *Ultra-Grip* manufacturing process shrink-fits the screen to the pipe to provide greatly improved tensile, torque, and collapse strength over conventional slip-on screens.
- Profile surface wire is heat-resistant welded to a series of shaped support rods directly on the perforated base pipe.
- Heavy-duty surface wire provides greater erosion resistance, increased mechanical strength and longer life in the most demanding environments.
 - Original keystone-shaped wire configuration for maximal nonclogging, self-cleaning, and free flow of materials.
 - House-shaped wire for increased flow area and greater erosion resistance.
- Shaped rods and shaped wrap wire provide superior weld-to-weld strength.
- High-precision slot tolerances and precision-formed, application-specific wire profiles provide optimal exclusion of formation materials while maximizing production of hydrocarbons.
- *Ultra-Grip* screens are available in a wide selection of stainless steel and high-nickel alloys for optimum customization to the application.
- *Ultra-Grip* screens are easily retrievable, even in the most rigorous fishing operations.



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Specifications

Base Pipe			End Ring	Screen					
Size (in.)	Weight (lb/ft)	ID (in./mm)	OD (in./mm)	OD (in./mm)	Weight (lb/ft)	Tensile Strength ¹ (lbf/kN)	Maximum Bend Angle ² (°/100 ft)	Burst Resistance (psi/MPa)	Collapse Resistance (psi/MPa)
3-1/2	9.2	2.99 76.07	4.01 101.85	3.88 98.55	12.6	88,690 395	86	3,500 24.14	4,800 33.10
4	9.5	3.55 90.17	4.51 114.55	4.38 111.25	12.9	182,210 811	75	3,400 23.45	4,600 31.72
4-1/2	11.6	4.00 101.60	5.01 127.25	4.88 123.95	15.0	226,980 1,010	67	3,200 22.07	4,400 30.34
5	15.0	4.41 111.96	5.51 139.95	5.38 136.65	18.4	297,450 1,323	60	3,000 20.69	4,200 28.96
5-1/2	17.0	4.89 124.26	6.01 152.65	5.88 149.35	19.4	337,440 1,501	54	2,800 19.31	4,400 27.59
6-5/8	24.0	5.92 150.37	7.13 181.10	7.00 177.80	27.4	472,340 2,101	45	2,650 18.27	3,800 26.21
7	26.0	6.276 159.41	7.51 190.75	7.38 187.45	29.4	513,340 2,283	43	2,500 17.27	3,700 25.52

¹Screen tensile strength is based on entire screen assembly.

²Maximum bend angle for screen is based on L80 pipe.

Notes:

Maximum dogleg severity is 50% of bend angle.

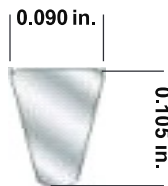
All values are based on 316L screen jackets.

Collapse and burst resistance are based on tests using ISO 17824 sand-screen test procedures.

All OD dimensions are maximum, based on nominal API pipe dimensions.

All values are nominal, except for the above noted OD dimensions.

Keystone Wrap Wire



Keystone Support Rod

