



Ultra-Grip™ HD Screens

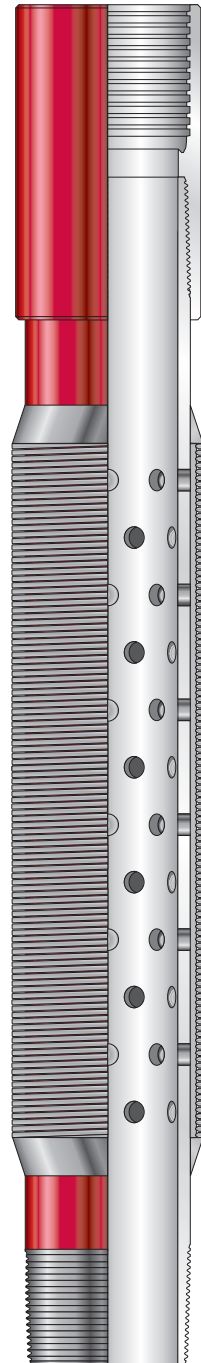
Weatherford's *Ultra-Grip* screens feature both heavy-duty service wrap wire and axial-support rods. They are a more robust version of our wrapped-on-pipe *Ultra-Grip* screen. Weatherford invented the shrink-fit process more than 25 years ago and has perfected this technology, which features heat-resistant welding of profile surface wire to a series of axial-support rods directly on the perforated base pipe. The result is a product of remarkable strength that delivers superior, longer-lasting sand control. Weatherford's *Ultra-Grip* HD screens are designed for optimal performance in cased-hole and openhole applications.

Applications

- Thermal/steam-injection wells
- Standalone completions in well sorted homogeneous reservoirs
- Horizontal, multilateral, and extended-reach wells
- Completions with high pump rates and pressures

Features, Advantages and Benefits

- The patented *Ultra-Grip* HD manufacturing process shrink-fits the screen to the pipe to provide greatly improved tensile, torque, and collapse strength over conventional slip-on screens.
- Heavy-duty surface wire provides greater erosion resistance, increased mechanical strength and longer life in the most demanding environments.
 - Original keystone-shape wire configuration for maximum nonlogging, self-cleaning, and free flow of materials
 - House-shape wire for greater erosion resistance
- *Ultra-Grip* HD screens are the most easily retrievable of all screen products, even in the most rigorous fishing operations.
- *Ultra-Grip* HD screens are available in a wide selection of stainless steel and high-nickel alloys for optimum customization to the application.





Ultra-Grip™ HD Screens

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 (lb/kN)	Maximum Bend Angle ² (°/100 ft)	Burst Resistance (psi/MPa)	Collapse Resistance (psi/MPa)
3-1/2	9.2	2.99 75.94	4.13 104.90	4.00 101.60	12.6	176,130 783	86	4,000 27.59	5,400 37.42
4	9.5	3.55 90.17	4.63 117.60	4.50 114.30	12.9	182,210 811	75	3,800 26.21	5,200 35.86
4-1/2	11.6	4.00 101.60	5.13 130.30	5.00 127.00	15.0	226,980 1,010	67	3,650 25.17	5,000 34.48
5	15.0	4.41 112.01	5.63 143.00	5.50 139.70	18.4	297,450 1,323	60	3,500 24.14	4,800 33.10
5-1/2	17.0	4.89 124.20	6.13 155.70	6.00 152.40	19.4	337,440 1,501	54	3,350 23.10	4,600 31.72
6-5/8	24.0	5.92 150.37	7.25 184.15	7.12 180.84	27.4	472,340 2,101	45	3,150 21.72	4,450 30.69
7	26.0	6.28 159.51	7.63 193.80	7.50 190.50	29.4	513,340 2,283	43	3,000 20.69	4,300 29.65

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.

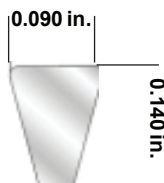
All values are based on 316L screen jackets.

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

