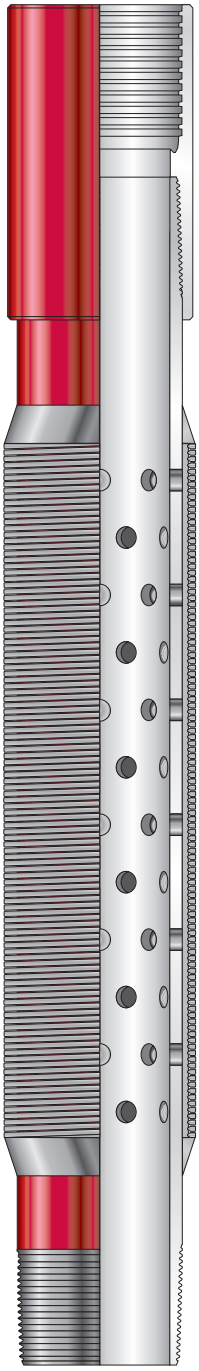
Dura-Grip® Screens



Weatherford's *Dura-Grip* screens are designed for optimal performance in cased-hole and openhole completions. 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.

Applications

- Thermal/steam-injection wells
- Openhole standalone completions in well-sorted, homogeneous reservoirs
- Cased-hole and openhole, gravel-pack completions with moderate pump rates and pressures

Features, Advantages and Benefits

- The patented *Dura-Grip* manufacturing process shrink-fits the screen to the pipe to provide greatly improved tensile, torque, and collapse strength over conventional slip-on screens.
- High-precision slot tolerances and precision-formed, application-specific wire profiles provide optimal exclusion of formation materials while maximizing production of hydrocarbons.
  - Original keystone-shaped wire configuration for maximal nonclogging, self-cleaning, and free flow of materials.
  - House-shaped wire available for greater erosion resistance.
- *Dura-Grip* screens are easily retrievable, even in the most rigorous fishing operations.
- *Dura-Grip* screens are available in a wide selection of stainless steel and high-nickel alloys for optimal customization to the application.

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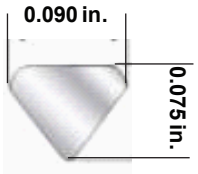
Specifications

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*)
2-3/8	4.6	2.00 *50.80*	2.78 *70.61*	2.65 *67.31*	7.3	88,690 *395*	120	3,500 *24.14*	4,200 *28.96*
2-7/8	6.4	2.44 *61.97*	3.28 *83.31*	3.15 *80.01*	9.1	123,220 *548*	105	3,200 *22.07*	4,200 *28.96*
3-1/2	9.2	2.99 *75.94*	3.90 *99.06*	3.77 *95.75*	11.9	176,130 *783*	86	3,000 *20.69*	4,200 *28.96*
4	9.5	3.55 *90.17*	*4.40* *111.76*	*4.27* *108.45*	12.2	182,210 *811*	75	2,750 *18.96*	4,000 *27.58*
4-1/2	11.6	4.00 *101.60*	4.90 *124.46*	4.77 *121.15*	14.3	226,980 *1,010*	67	2,500 *17.24*	3,800 *26.20*
5	15.0	4.41 *112.01*	5.40 *137.16*	5.27 *133.85*	17.7	297,450 *1,323*	60	2,250 *15.52*	3,700 *25.52*
5-1/2	17.0	4.89 *124.20*	5.90 *149.86*	5.77 *146.55*	19.7	337,440 *1,501*	54	2,000 *13.79*	3,600 *24.83*
6-5/8	24.0	*5.92* *150.36*	*7.03* *178.56*	*6.90* *175.26*	26.7	*472,340* *2,101*	45	*1,900* *13.10*	*3,450* *23.79*
7	26.0	*6.28* *159.51*	*7.40* *187.96*	*7.27* *184.65*	28.7	*513,340* *2,283*	43	*1,800* *12.41*	*3,300* *22.76*

[1]Screen tensile strength is based on entire screen assembly.
[2]Maximum 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