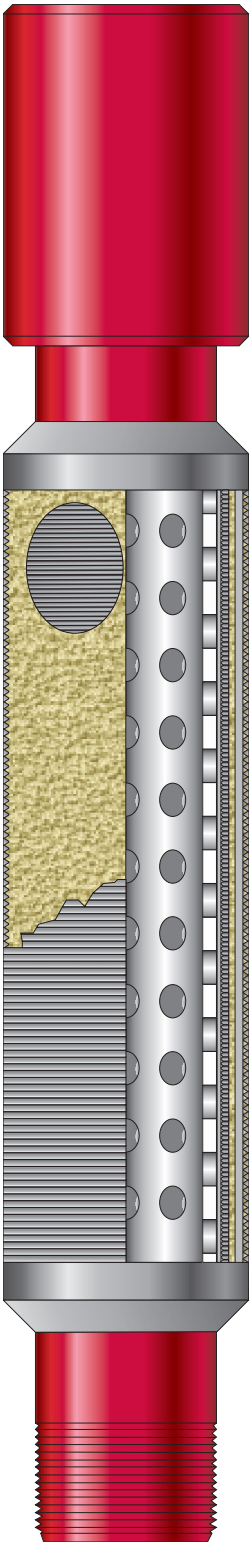
Micro-Pak® Screens



Weatherford's *Micro-Pak* screens provide security against voids in gravel packs and aid the placement of gravel into the formation. *Micro-Pak* screens also increase erosion tolerance during the pumping process.

Construction consists of an inner Dura-Grip® screen with an outer screen jacket. The annular space between the screens is packed with the appropriate, specified media type and size. Weatherford's unique industrial vibration packing system ensures proper compactness. Weatherford's exclusive curing process provides a uniform cure cycle when resin-coated media are specified as the pack material.

Applications

- Horizontal completions
- Cased-hole frac-pack and high-rate water-pack completions
- Completions requiring a reduced-OD, pre-packed screen

Features, Advantages and Benefits

- Reduced OD maximizes base-pipe size.
- *Dura-Grip* inner screen adds strength and collapse resistance.

Options

- *Micro-Pak* screens can be manufactured with full screen wrap on Range III joints.
- *Micro-Pak* screens are available in various metallurgies.
- *Micro-Pak* screens are available in the appropriate size and type of pack media for the application.

Micro-Pak® Screens

Specifications[a, b]

Base Pipe			End Ring		Screen						
Size (in.)	Weight (lb/ft)	ID (in./*mm*)	Keystone OD (in./*mm*)	House OD (in./*mm*)	Keystone OD (in./*mm*)	House OD (in./*mm*)	Weight (lb/ft)	Tensile Strength[c] (psi/*MPa*)	Maximum Bend Angle[d] (°/100 ft)	Burst Resistance (psi/*MPa*)	Collapse Resistance (psi/*MPa*)
2-3/8	4.60	1.995 *50.673*	3.18 *80.78*	3.23 *82.04*	3.08 *78.23*	3.13 *79.50*	8.20	88,690 *611.49*	45°	5,720 *39.44*	8,830 *60.88*
2-7/8	6.40	2.441 *62.001*	3.68 *93.47*	3.73 *94.74*	3.58 *90.93*	3.63 *92.20*	10.60	123,220 *849.57*	45°	4,810 *33.16*	8,370 *57.71*
3-1/2	9.20	2.992 *75.997*	4.30 *109.22*	4.35 *110.49*	4.20 *106.68*	4.25 *107.95*	14.10	176,130 *1,214.37*	45°	4,610 *31.78*	7,890 *54.40*
4	9.50	3.548 *90.119*	4.80 *121.92*	4.85 *123.19*	4.70 *119.38*	4.75 *120.65*	15.00	182,210 *1,256.29*	45°	4,030 *27.785*	4,940 *34.06*
4-1/2	11.60	3.958 *100.533*	5.30 *134.62*	5.35 *135.89*	5.20 *132.08*	5.25 *133.35*	16.70	226,980 *1,564.97*	45°	3,900 *26.89*	4,760 *32.82*
5	15.00	4.408 *111.963*	5.80 *147.32*	5.85 *148.59*	5.70 *144.78*	5.75 *146.05*	21.70	297,450 *2,050.84*	45°	3,770 *25.99*	5,430 *37.44*
5-1/2	17.00	4.892 *124.257*	6.30 *160.02*	6.35 *161.29*	6.20 *157.48*	6.25 *158.75*	24.40	337,440 *2,326.57*	45°	3,250 *22.41*	4,710 *32.47*
6-5/8	24.00	5.920 *150.368*	7.43 *188.72*	7.48 *189.99*	7.33 *186.18*	7.38 *187.45*	32.70	472,340 *3,256.67*	45°	2,990 *20.61*	4,320 *29.78*

[a] All values are based on 316L screen jackets.

[b] Weatherford recommends the use of synthetic proppant to improve screen permeability.

[c] Screen tensile strength is based on entire screen assembly.

[d] Maximum bend angle for screen may exceed allowable bend angle for some threads. See thread manufacturer's specifications.