

Welltec[®] Light Packer (WLP)

For Well Construction & Integrity



The WLP (Welltec[®] Light Packer) is our tiered offering to the zonal isolation and well construction & integrity markets, developed specifically for less hazardous environment's & lower tertiary markets, that has historically incorporated legacy swellable technology as a means for isolation.

Welltec[®]

For well construction and integrity



01 Applications

- Effective cement assurance
- Second stage cement support

02 Features

- Rugged, all welded, metallic construction
- High expansion capability
- Constant, Δp over full expansion range
- No premature expansion

03 Benefits

- Workable during deployment assisting casing to TD
 - Slim OD allows for high rate circulation during deployment
 - Rapid set nature of WLP reduces time to next hole section
 - High rate circulation capability
 - Full bore – as per casing / tubing
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The WLP provides a number of the benefits of our flagship WAB® (Welltec® Annular Barrier), but incorporates design & construction efficiencies that facilitates a CAPEX effective technology for marginal applications.

The WLP is more compact in sleeve length, therefore reducing overall sealing length and utilizes an optimised standard sleeve material, whilst providing consistency in open hole / cased hole seal design from the flagship WAB® (Welltec® Annular Barrier). The WLP is a high grade, robust alternate to swellable technology for zonal isolation & cement assurance.

WCS product specifications

Welltec® WLP	General Information
Product Name	Welltec® Light Packer (WLP)
ISO Standard	ISO 14310
Product Structure	Single piece, machined sleeve – fully welded to base pipe
Seal Length	0,4m
Base Casing	Compatibility with all standard casing material / weight / threads
Standard Material	316
Standard Elastomers & Seals***	HNBR

*Alternative metallurgy available on request.

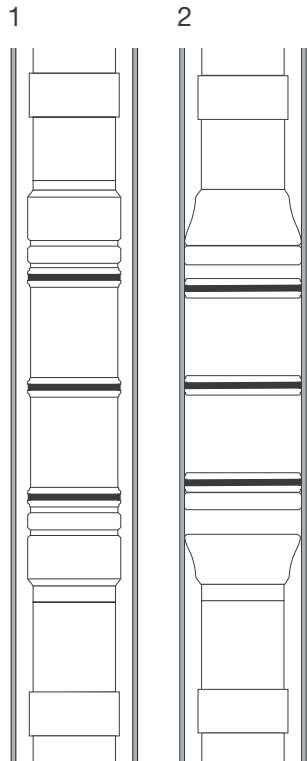
Welltec® WLP	378WLP	414WLP	614WLP	812WLP	1214WLP
Expansion Range (mm)	3.75 > 4.20" (95.25 > 106.7mm)	4.06 > 4.87" (103.1 > 123.7mm)	6.25 > 7.20" (158.8 > 182.9mm)	8.50 > 10.00" (215.9 > 254mm)	12.25 > 14.00" (311.15 > 355.6mm)
Minimum Running OD (mm)	3.50" (88.9mm)	3.90" (99.1mm)	5.90" (149.7mm)	8.20" (208.3mm)	11.62" (295.2mm)
ISO14310 Standard **	V6	V6	V6	V3	V6
Maximum Working Pressure psi (bar)	6,000psi (414bar)	6000psi (414bar)	5,000psi (345bar)	8000psi (552bar)	4,500psi
Constant element ΔP across expansion range psi (bar)	1,500psi (103bar)	2,000psi (138bar)	1,500psi (103bar)	1,500psi (103bar)	3,000psi
Maximum element length ft (m)	1.3ft (0.4m)				
Maximum temperature °C (°F) ***	160°C (320°F)				
Base-pipe range (up to)	2-7/8"	2-7/8"	4 1/2"	7"	9 5/8"
ID in (mm)	Full Bore (as per base-pipe)				

** Upgraded ISO 14310 Leak Rate Criteria available upon request

*** Maximum Temperature is based on HNBR seals & elements

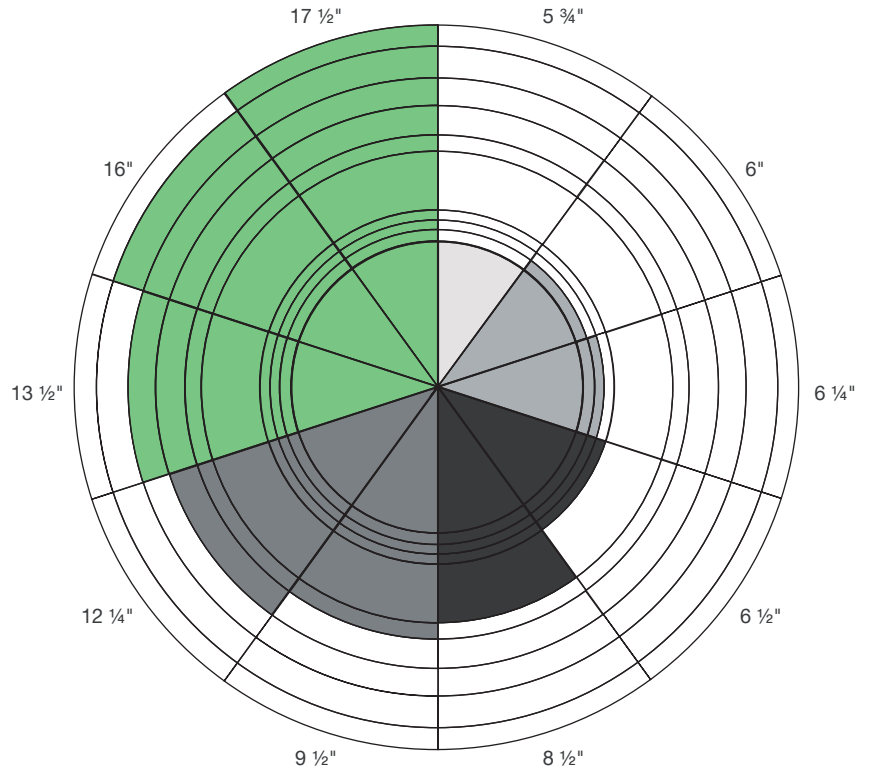
01. How it works

- 1: Mounted on base pipe
- 2: Hydraulic expansion controlled from surface



02. Our product range

Per open hole size.



03. The benefits

The WLP's metal construction provides a fast, high expansion, rugged seal against the open hole or casing irrespective of the fluid in the well. Furthermore, as shown in the chart below, there is no degradation of the maximum delta P capability versus expansion diameter.

- Conventional annular-barrier Delta P
- 812WLP Delta P

