



Weatherford®

Packer Systems

Ultra-Lok Packer

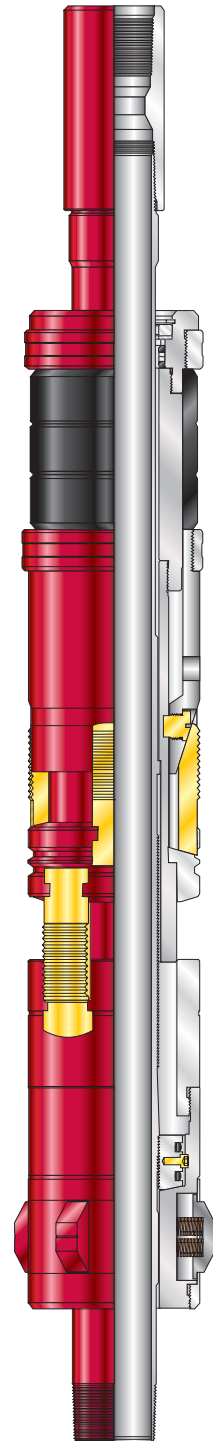
Weatherford's Ultra-Lok packer is a compression-set, retrievable packer that enables tubing to be landed in a tension, compression, or neutral condition. Right rotation sets and releases the packer, providing simple, reliable operation. The internal bypass equalizes the pressure before the slips are unset for safety and reliability.

Applications

- Production
- Injection
- Remedial operations
- Tubing anchor catcher
- Zonal isolation

Features, Advantages and Benefits

- The packer parts are interchangeable with equipment from other manufacturers, reducing cost and inventory.
- The compact design eases snubbing and passage through doglegs.
- The opposed dovetail slips prevent packer movement caused by pressure differentials.
- The internal bypass equalizes the pressure before packer unsetting, providing safety and reliability.





Ultra-Lok Packer

Specifications

| Casing | | | | Packer | | |
|----------------|------------------------------|------------------------------|-----------------|---------------------------|---|------------------------------|
| OD (in./mm) | Weight (lb/ft, kg/m) | ID (in./mm) | | Maximum OD (in./mm) | Standard Thread Connection (in.) | Part |
| | | Minimum | Maximum | | | |
| 4-1/2 114.3 | 11.6 to 13.5 17.3 to 20.1 | 3.920 99.57 | 4.000 101.60 | 3.771 95.78 | 2-3/8 EU ¹ 8 RD ² | 43LS.1002 |
| | 9.5 to 10.5 14.1 to 15.6 | 4.052 102.92 | 4.090 103.89 | | | 43LS.1004 |
| | | | | | | 43LS.1003 |
| 5 127.0 | 15.0 to 18.0 22.3 to 26.8 | 4.250 107.95 | 4.408 111.96 | 4.125 104.78 | 2-3/8 EU 8 RD | 43LS.1006 |
| | 11.5 to 15.0 17.1 to 22.3 | 4.408 111.96 | 4.560 115.82 | 4.250 107.95 | | 43LS.1007 |
| 5-1/2 139.7 | 26.0 38.7 | 4.408 111.96 | 4.560 115.82 | 4.250 107.95 | 2-3/8 EU 8 RD | 43LS.1007 |
| | 20.0 to 23.0 29.8 to 34.2 | 4.625 117.48 | 4.777 121.34 | 4.500 114.30 | | 45LS.1002 |
| | | 15.5 to 20.0 23.1 to 29.8 | 4.778 121.36 | 4.892 124.26 | 4.641 117.88 | 2-7/8 EU 8 RD |
| | 2-3/8 EU 8 RD | | | | | 45LS.1004 |
| | 13.0 to 15.5 19.3 to 23.1 | 4.950 125.73 | 5.044 128.12 | 4.781 121.44 | 2-7/8 EU 8 RD | 45LLS.1006 |
| | | | | | 2-3/8 EU 8 RD | 45LS.1006 |
| 6 152.4 | 20.0 to 23.0 29.8 to 34.2 | 5.240 133.10 | 5.352 135.94 | 5.062 128.57 | 2-3/8 EU 8 RD | 45LS.1006 |
| | 15.0 to 18.0 22.3 to 26.8 | 5.424 137.77 | 5.524 140.31 | 5.156 130.96 | | 60LS.1001 |
| 6-5/8 168.3 | 24.0 to 32.0 35.7 to 47.6 | 5.675 144.15 | 5.921 150.39 | 5.500 139.70 | 2-3/8 EU 8 RD | 46LS.1001 |
| | 24.0 35.7 | 5.830 148.08 | 5.937 150.80 | 5.656 143.66 | 2-7/8 EU 8 RD | 47LS.1001 |
| | | | | | | 17.0 to 20.0 25.3 to 29.8 |

¹External upset

²Round



Ultra-Lok Packer

Specifications (continued)

| Casing | | | | Packer | | |
|------------------------------|------------------------------|----------------|-----------------|---------------------------|--|-----------------|
| OD (in./mm) | Weight (lb/ft, kg/m) | ID (in./mm) | | Maximum OD (in./mm) | Standard Thread Connection (in.) | Part |
| | | Minimum | Maximum | | | |
| 7 177.8 | 38.0 56.6 | 5.830 | 5.937 | 5.656 143.66 | 2-7/8 EU 8 RD | 47LS.1001 |
| | | 148.08 | 150.80 | | 3-1/2 EU 8 RD | 47LLS.1001 |
| | 32.0 to 35.0 47.6 to 52.1 | 6.004 | 6.094 | 5.812 147.62 | 2-7/8 EU 8 RD | 47LS.1004 |
| | 152.50 | 154.79 | 47LS.1006 | | | |
| | 26.0 to 29.0 38.7 to 43.2 | 6.184 | 6.276 | 5.968 151.59 | 3-1/2 EU 8 RD | 47LLS.1003 |
| | 157.07 | 159.41 | 47LS.1008 | | | |
| 23.0 to 26.0 34.2 to 38.7 | 6.276 | 6.366 | 6.078 154.38 | 2-7/8 EU 8 RD | 47LS.1008 | |
| 159.41 | 161.70 | 47LLS.1006 | | | | |
| 17.0 to 20.0 25.3 to 29.8 | 6.456 | 6.538 | 6.281 159.54 | 2-7/8 EU 8 RD | 47LS.1010 | |
| 163.98 | 166.07 | 47LLS.1007 | | | | |
| 7-5/8 193.7 | 33.7 to 39.0 50.2 to 58.0 | 6.625 | 6.765 | 6.453 163.91 | 2-7/8 EU 8 RD | 47LS.1011 |
| | | 168.28 | 171.83 | | 3-1/2 EU 8 RD | 47LLS.1012 |
| | 24.0 to 29.7 35.7 to 44.2 | 6.875 | 7.025 | 6.672 169.47 | 2-7/8 EU 8 RD | 47LS.1014 |
| | 174.63 | 178.44 | 47LS.1016 | | | |
| 20.0 to 24.0 29.8 to 35.7 | 7.025 | 7.725 | 6.812 173.02 | 3-1/2 EU 8 RD | 49LS.1001 | |
| 178.44 | 196.22 | 49LS.1002 | | | | |
| 8-5/8 219.1 | 44.0 to 49.0 65.5 to 72.9 | 7.511 | 7.625 | 7.312 185.72 | 3-1/2 EU 8 RD | 49LS.1003 |
| | 32.0 to 40.0 47.6 to 59.5 | 7.725 | 7.921 | | | 49LS.1002 |
| | 196.22 | 201.19 | 49LS.1003 | | | |
| 9-5/8 244.9 | 20.0 to 28.0 29.8 to 41.7 | 8.017 | 8.191 | 7.781 197.64 | 3-1/2 EU 8 RD | 51LS.1001 |
| | 47.0 to 53.5 69.9 to 79.6 | 8.535 | 8.681 | | | 51LS.1002 |
| | 216.79 | 220.50 | 51LS.1009 | | | |
| 9-5/8 244.9 | 40.0 to 47.0 59.5 to 69.9 | 8.681 | 8.835 | 8.437 214.30 | 3-1/2 EU 8 RD | 51LS.1002 |
| | 220.50 | 224.41 | 51LS.1009 | | | |
| | 29.3 to 36.0 43.6 to 53.6 | 8.921 | 9.063 | | | 8.593 218.26 |
| 226.59 | 230.20 | | | | | |



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Options

- Coatings can be applied to the packer for corrosion resistance in waterflood applications.
- The addition of Weatherford's T-2 on-off tool and a blanking plug converts the packer to a mechanical bridge plug, which enables tubing disconnection and retrieval without packer retrieval.