

Model 3L Retrievable Bridge Plug

RUGGED AND RELIABLE SEALING

FEATURES

- » Rugged, packer-type sealing elements
- » Wide range of pressure and temperature limitations
- » Simple operation

OVERVIEW

The Model 3L retrievable bridge plug consists of packer-type sealing elements, mechanical slips, and a large-area bypass.

The sealing elements are less susceptible to damage while running in the hole because they are not in contact with the casing. When set, the Model 3L bridge plug does not move up or down the casing, regardless of pressure reversals.

This plug can be run alone on tubing or can be run below the RTTS® or CHAMP® IV packer. The tool is run in the hole, set, and released from the tubing or packer. It remains in place until the tubing or packer is relatched, the bypass valve is opened, and the slips are released.

OPERATION

The plug is run a few feet below a specified depth and picked up to the predetermined setting depth. The tubing is rotated, and the tubing weight is set down while left-hand torque is maintained.

The bridge plug is released as left-hand torque is held on the tubing, and the tubing is pulled up. This action moves the lugs on the retrieving head out of the J-slot in the overshot and allows the tubing to pull free.

The bridge plug is retrieved when the tubing is lowered and the overshot engages the lugs on the plug-retrieving head. Right-hand torque is applied and the tubing is pulled up. It may be necessary to apply weight if pressure is trapped below the tool. As the torque is applied and the tubing is pulled up, the bypass ports open, and the mechanical slips are retracted to release the bridge plug.



HAL121915

Model 3L Retrievable Bridge Plug - Technical Specifications

Casing Size in.	Bridge Plug Main Body OD in. (cm)	End Connections	Nominal Casing Weight lb/ft	Minimum Casing ID in. (mm)	Maximum Casing ID in. (mm)	Length in. (cm)	Tensile Rating* lb (kg)	Working Pressure Rating* psi (MPa)
4 1/2	3.75 (9.53)	2 7/8 in. 8 Rd EU x 2 3/8 in. 8 Rd EU	9.5 - 13.5	3.920 (99.57)	4.090 (103.89)	109.16 (277.27)	65,200 (29 574)	10,000 (68.95)
5	4.35 (11.05)	2 7/8 in. 8 Rd EU x 2 3/8 in. 8 Rd EU	11.5	4.560 (115.82)	4.778 (121.36)	89.43 (227.15)	65,200 (29 574)	10,000 (68.95)
	4.25 (10.79)	2 7/8 in. 8 Rd EU x 2 3/8 in. 8 Rd EU	13 - 15	4.408 (111.96)	4.494 (114.15)	89.43 (227.15)	65,200 (29 574)	10,000 (68.95)
	3.93 (9.98)	2 7/8 in. 8 Rd EU x 2 3/8 in. 8 Rd EU	18 - 21.4	4.126 (104.80)	4.276 (108.61)	89.43 (227.15)	65,200 (29 574)	10,000 (68.95)
5 1/2	4.60 (11.68)	2 7/8 in. 8 Rd EU x 2 3/8 in. 8 Rd EU	13 - 20	4.778 (121.36)	5.044 (128.12)	89.43 (227.15)	65,200 (29 574)	10,000 (68.95)
	4.35 (11.05)	2 7/8 in. 8 Rd EU x 2 3/8 in. 8 Rd EU	20 - 23	4.560 (115.82)	4.778 (121.36)	89.43 (227.15)	65,200 (29 574)	10,000 (68.95)
6 5/8	5.43 (13.79)	2 7/8 in. 8 Rd EU x 2 3/8 in. 8 Rd EU	24 - 32	5.675 (144.15)	5.921 (150.39)	89.43 (227.15)	65,200 (29 574)	10,000 (68.95)
7	5.65 (14.35)	2 7/8 in. 8 Rd EU x 2 3/8 in. 8 Rd EU	17 - 38	5.920 (150.37)	6.538 (166.07)	89.43 (227.15)	65,200 (29 574)	10,000 (68.95)
7 5/8	6.35 (16.13)	2 7/8 in. 8 Rd EU x 2 3/8 in. 8 Rd EU	20 - 39	6.625 (168.28)	7.125 (180.98)	89.43 (227.15)	65,200 (29 574)	10,000 (68.95)
8 5/8	7.04 (17.88)	3 1/2 in. API IFTJ x 2 3/8 in. 8 Rd EU	49 - 56	7.313 (185.75)	7.511 (190.78)	108.83 (276.43)	117,800 (53 433)	7,500 (51.71)
9 5/8	8.15 (20.70)	3 1/2 in. API IFTJ x 2 3/8 in. 8 Rd EU	29.3 - 53.5	8.535 (216.79)	9.063 (230.20)	108.83 (276.43)	117,800 (53 433)	7,500 (51.71)
10 3/4	9.40 (23.88)	3 1/2 in. API IFTJ x 2 3/8 in. 8 Rd EU	32.75 - 55.5	9.760 (247.90)	10.192 (258.88)	108.83 (276.43)	117,800 (53 433)	7,500 (51.71)
	8.85 (22.48)	3 1/2 in. API IFTJ x 2 3/8 in. 8 Rd EU	60.7 - 80.8	9.250 (234.95)	9.660 (245.36)	106.18 (269.70)	117,800 (53 433)	7,500 (51.71)

***The values of tensile, burst, and collapse strength are calculated with new tool conditions, Lamé's formulas with Von-Mise's Distortion Energy Theory for burst and collapse strength, and stress area calculations for tensile strength. These ratings are guidelines only. For more information, consult your local Halliburton representative.**

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