



L Rubber Liner Packer

The type L is a versatile liner packer which can be used in a number of different applications. It is most often placed at the top of a liner which is to be cemented. Setting the type L Packer after cementing allows the operator to reverse excess cement out of the hole without exerting pressure on formations below the top of the liner.

This rubber liner packer prevents gas migration through the cement as it is setting up — migration which can cause cement failure. The type L Packer is also useful in squeeze cementing of liners.

When running a patch liner to isolate a damaged section of casing, the type L Packer has given excellent performance. When the well is to be gravel-packed, the type L can also be used to set the screen or as an isolation packer.

The type L Packer is available with or without hold-down slips, with standard reinforced synthetic rubber packoff or with special high-temperature packoffs. TIW Gold Seal Packoffs are also available for this packer.

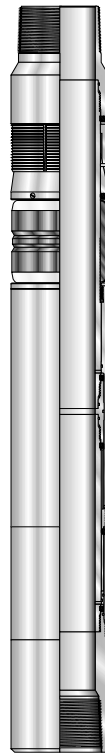
The type L Packer is run with a type L Setting Tool screwed into its barrel using a left-hand thread and floating nut. When setting the packer, the setting tool is released by right-hand rotation and pick-up, allowing the setting dogs to expand and catch the top sleeve of the packer. Then the setting tool is lowered, forcing the sleeve downward and expanding the packoff to set the packer. A ratchet ring in the sleeve holds the packoff in the expanded position.

When used to set a screen, the type L Packer (without hold-down slips) may be retrieved by running a spear to catch the inner barrel.

HLP Hydraulic-Set Liner Packer

The HLP Liner Packer features a high flow rate resistant packoff that will tolerate high flow rate clean-up before cementing, and then it can be easily set with hydraulic pressure to provide a dependable seal at the top of the liner. This seal protects against gas migration and provides a gas-tight seal for gas lift. The HLP Liner Packer is equipped with hold-down slips to prevent the liner from moving up hole.

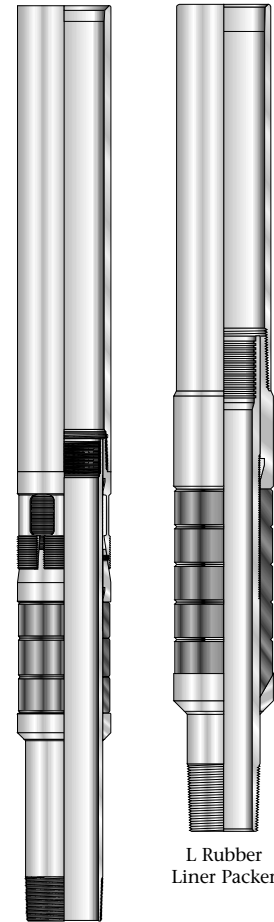
- Dual piston setting — Allows for lower setting pressures
- Hydraulic set
- High flow rate packoff/maximum displacement rate
- Field adjustable setting pressure
- Easily adjustable setting feature at well site
- Can be run with liner hanger or as separate unit



HLP Hydraulic-Set Liner Packer

L Rubber Liner Packer Specifications

LINER SIZE O.D.		CASING SIZE				MAXIMUM BODY O.D.	
In.	Mm.	In.	Mm.	Lb./Ft.	Kg./M.	In.	Mm.
1.900	48.3	2 $\frac{1}{2}$	73.0	6.4	9.5	2 $\frac{1}{4}$	56.8
1.900	48.3	3 $\frac{1}{2}$	88.9	9.2-10.2	13.7- 15.2	2 $\frac{1}{2}$	66.7
2 $\frac{3}{8}$	60.3	4	101.6	9.5-11.6	14.1- 17.3	3 $\frac{1}{8}$	79.4
2 $\frac{1}{2}$	73.0	4 $\frac{1}{2}$	114.3	9.5-13.5	14.1- 20.1	3 $\frac{3}{8}$	92.1
2 $\frac{1}{2}$	73.0	4 $\frac{1}{2}$	114.3	11.6-16.6	17.3- 24.7	3 $\frac{1}{2}$	88.9
2 $\frac{1}{2}$	73.0	4 $\frac{3}{4}$	120.7	9.5-18.0	14.1- 26.8	3 $\frac{3}{4}$	95.3
2 $\frac{1}{2}$	73.0	5	127.0	13.0-18.0	19.3- 26.8	4	101.6
3 $\frac{1}{2}$	88.9	5	127.0	11.5-13.0	17.1- 19.3	4 $\frac{1}{8}$	104.8
3 $\frac{1}{2}$	88.9	5	127.0	13.0-18.0	19.3- 26.8	4	101.6
3 $\frac{1}{2}$	88.9	5 $\frac{1}{2}$	139.7	14.0-20.0	20.8- 29.8	4 $\frac{1}{4}$	115.9
3 $\frac{1}{2}$	88.9	5 $\frac{3}{4}$	146.1	17.0-22.5	25.3- 33.5	4 $\frac{1}{2}$	122.2
4	101.6	6	152.4	15.0-23.0	22.3- 34.2	5	127.0
4	101.6	5 $\frac{1}{2}$	139.7	14.0-17.0	20.8- 25.3	4 $\frac{3}{4}$	117.5
4	101.6	5 $\frac{1}{2}$	139.7	17.0-20.0	25.3- 29.8	4 $\frac{1}{2}$	114.3
4	101.6	5 $\frac{3}{4}$	146.1	17.0-22.5	25.3- 33.5	4 $\frac{1}{2}$	122.2
4	101.6	6	152.4	17.0-23.0	25.3- 34.2	5	127.0
4 $\frac{1}{2}$	114.3	6 $\frac{1}{2}$	168.3	19.0-24.0	28.3- 35.7	5 $\frac{1}{8}$	141.3
4 $\frac{1}{2}$	114.3	6 $\frac{1}{2}$	168.3	26.0-32.0	38.7- 47.6	5 $\frac{3}{8}$	136.5
4 $\frac{1}{2}$	114.3	7	177.8	20.0-26.0	29.8- 38.7	5 $\frac{1}{2}$	149.2
4 $\frac{1}{2}$	114.3	7	177.8	26.0-32.0	38.7- 47.6	5 $\frac{3}{4}$	146.1
5	127.0	6 $\frac{1}{2}$	168.3	19.0-24.0	28.3- 35.7	5 $\frac{3}{8}$	141.3
5	127.0	7	177.8	17.0-24.0	25.3- 35.7	6	152.4
5	127.0	7	177.8	20.0-26.0	29.8- 38.7	5 $\frac{1}{2}$	149.2
5	127.0	7	177.8	26.0-32.0	38.7- 47.6	5 $\frac{3}{4}$	146.1
5	127.0	7	177.8	32.0-38.0	47.6- 56.6	5 $\frac{7}{8}$	141.3
5	127.0	7 $\frac{1}{2}$	193.7	20.0-26.4	29.8- 39.3	6 $\frac{1}{8}$	168.3
5	127.0	7 $\frac{1}{2}$	193.7	26.4-33.7	39.3- 50.2	6 $\frac{1}{4}$	163.5
5	127.0	7 $\frac{1}{2}$	193.7	33.7-39.0	50.2- 58.1	6 $\frac{3}{8}$	160.3
5 $\frac{1}{2}$	139.7	7	177.8	17.0-26.0	25.3- 38.7	6	152.4
5 $\frac{1}{2}$	139.7	7 $\frac{1}{2}$	193.7	20.0-26.4	29.8- 39.3	6 $\frac{1}{2}$	168.3
5 $\frac{1}{2}$	139.7	7 $\frac{1}{2}$	193.7	26.4-33.7	39.3- 50.2	6 $\frac{3}{4}$	163.5
5 $\frac{1}{2}$	139.7	8 $\frac{1}{8}$	219.1	24.0-32.0	35.7- 47.6	7 $\frac{1}{8}$	193.3
5 $\frac{1}{2}$	139.7	8 $\frac{1}{8}$	219.1	32.0-40.0	47.6- 59.5	7 $\frac{1}{4}$	187.3
6	152.4	9 $\frac{1}{8}$	244.5	29.3-40.0	43.6- 59.5	8 $\frac{1}{8}$	214.7
6	152.4	9 $\frac{1}{8}$	244.5	43.5-53.5	64.7- 79.6	8 $\frac{1}{4}$	208.0
6 $\frac{1}{2}$	168.3	8 $\frac{3}{4}$	219.1	24.0-32.0	35.7- 47.6	7 $\frac{3}{8}$	193.3
6 $\frac{1}{2}$	168.3	8 $\frac{3}{4}$	219.1	32.0-40.0	47.6- 59.5	7 $\frac{1}{2}$	187.3
6 $\frac{1}{2}$	168.3	9 $\frac{1}{8}$	244.5	29.3-40.0	43.6- 59.5	8 $\frac{3}{8}$	214.7
6 $\frac{1}{2}$	168.3	9 $\frac{1}{8}$	244.5	43.5-53.5	64.7- 79.6	8 $\frac{1}{2}$	208.0
7	177.8	9 $\frac{1}{8}$	244.5	29.3-40.0	43.6- 59.5	8 $\frac{3}{4}$	214.7
7	177.8	9 $\frac{1}{8}$	244.5	40.0-47.0	59.5- 69.9	8 $\frac{3}{8}$	212.7
7	177.8	9 $\frac{1}{8}$	244.5	43.5-53.5	64.7- 79.6	8 $\frac{1}{2}$	208.0
7	177.8	10 $\frac{3}{4}$	273.1	32.7-45.5	48.7- 67.7	9 $\frac{1}{2}$	241.3
7	177.8	10 $\frac{3}{4}$	273.1	45.5-55.5	67.7- 82.6	9 $\frac{1}{4}$	235.0
7 $\frac{1}{2}$	193.7	9 $\frac{1}{2}$	244.5	32.3-40.0	48.1- 59.5	8 $\frac{3}{4}$	209.6
7 $\frac{1}{2}$	193.7	9 $\frac{1}{2}$	244.5	40.0-47.0	59.5- 69.9	8 $\frac{3}{4}$	214.7
7 $\frac{1}{2}$	193.7	10 $\frac{3}{4}$	273.1	32.7-45.5	48.7- 67.7	9 $\frac{1}{2}$	241.3
7 $\frac{1}{2}$	193.7	10 $\frac{3}{4}$	273.1	45.5-55.5	67.7- 82.6	9 $\frac{1}{4}$	235.0
7 $\frac{1}{2}$	193.7	10 $\frac{3}{4}$	273.1	55.5-65.5	82.6- 97.5	9 $\frac{3}{8}$	230.2
8 $\frac{1}{2}$	219.1	10 $\frac{3}{4}$	273.1	32.8-45.5	48.8- 67.7	9 $\frac{1}{2}$	241.3
9 $\frac{1}{2}$	244.5	13 $\frac{3}{8}$	339.7	48.0-61.0	71.4- 90.8	12	304.8
9 $\frac{1}{2}$	244.5	13 $\frac{3}{8}$	339.7	61.0-72.0	90.8-107.1	11 $\frac{1}{2}$	301.6
9 $\frac{1}{2}$	244.5	13 $\frac{3}{8}$	339.7	72.0-85.0	107.1-126.5	11 $\frac{1}{4}$	296.9
10 $\frac{1}{2}$	273.1	13 $\frac{3}{8}$	339.7	48.0-61.0	71.4- 90.8	12 $\frac{1}{4}$	306.4
10 $\frac{1}{2}$	273.1	13 $\frac{3}{8}$	339.7	61.0-68.0	90.8-101.2	11 $\frac{3}{4}$	302.4



L Rubber Liner Packer

L Rubber Liner Packer with Hold-Down Slips