



Weatherford®

Packer Systems

Hydrow I Hydraulic Production Packer

Weatherford's Hydrow I hydraulic production packer is a high-pressure, double-grip, retrievable packer that isolates the annulus from the production conduit in flanged wells, deviated wellbores, gas-lift installations, and other completions in which a mechanically set packer is unsuitable. The built-in, zone-activated, pressure-balance system offsets pressure differentials across the packer, making it ideal for stacked-packer installations.

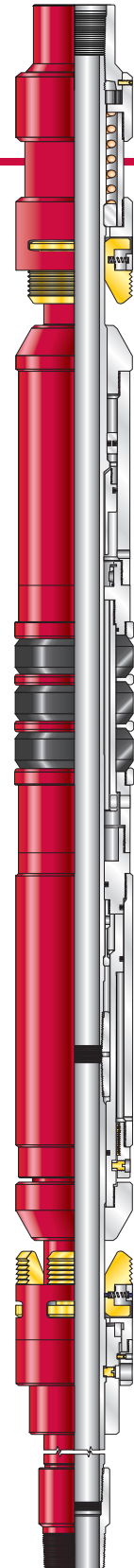
A straight tubing-string pull releases the packer. The patented upper-slip releasing system has a key nondirectional slip that can be dislocated to release the other slips automatically. The system reduces the strain required for slip and packer release.

Applications

- Highly deviated wells and doglegs
- Stacked-packer completions
- Coiled-tubing completions
- Offshore oil and gas completions

Features, Advantages and Benefits

- The straight-pull, shear-release pins are unaffected by differential pressure, enabling easy changes to the release force before running.
- All components are locked to prevent pressure buildup or debris from presetting the packer, improving reliability when running the packer in the wellbore.
- The pressure-balance system offsets pressure differentials across the packer, enabling the packing element to maintain an effective seal.
- The double-grip system enables the packer to hold differential pressures securely from above and below, preventing packing-element movement and ensuring proper packoff.





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Specifications

Casing				Packer			
OD (in./mm)	Weight (lb/ft, kg/m)	ID (in./mm)		Gauge Ring OD (in./mm)	ID (in./mm)	Connection (in.)	Part
		Minimum	Maximum				
4-1/2 114.3	9.5 to 13.5 14.1 to 20.1	3.920 99.59	4.090 103.89	3.766 95.66	1.938 49.23	2-3/8 EU ^a 8 RD ^b	650-45
5 127.0	11.5 to 15.0 17.1 to 22.3	4.408 111.96	4.560 115.82	4.141 105.18	1.938 49.23	2-3/8 EU 8 RD	650-50
	15.0 to 18.0 22.3 to 26.8	4.276 108.61	4.408 111.96	4.125 104.78			650-52
5-1/2 139.7	9.0 to 13.0 13.4 to 19.3	5.044 128.12	5.240 133.10	4.875 123.83	1.984 50.39	2-3/8 EU 8 RD	650-54
	13.0 to 15.5 19.3 to 23.1	4.892 124.26	5.044 128.12	4.781 121.44	2.375 60.33	2-7/8 EU 8 RD	PHRP14200
	13.0 to 20.0 19.3 to 29.8	4.778 121.36		4.641 117.88	1.984 50.39	2-3/8 EU 8 RD	650-55
	15.5 to 20.0 23.1 to 29.8		4.950 125.73		2.375 60.33	2-7/8 EU 8 RD	PHRP14300
	20.0 to 23.0 29.8 to 34.2	4.670 118.62	4.778 121.36	4.516 114.71	1.984 50.39	2-3/8 EU 8 RD	650-57
			4.500 114.30	2.375 60.33	2-7/8 EU 8 RD	PHRP14400	
5-3/4 146.1	18.6 to 25.0 27.7 to 37.2	4.882 124.00	5.118 130.00	4.641 117.88	1.984 50.39	2-3/8 EU 8 RD	650-55A-000
6 152.4	23.0 to 26.0 34.2 to 38.7	5.132 130.35	5.240 133.10	4.875 123.83	1.984 50.39	2-3/8 EU 8 RD	650-54
6-5/8 168.3	17.0 to 24.0 25.3 to 35.7	5.921 150.39	6.135 155.83	5.781 146.84	2.908 73.86	3-1/2 EU 8 RD	650-66
	20.0 to 24.0 29.8 to 35.7		6.049 153.64	5.750 146.05	2.439 61.95	2-7/8 EU 8 RD	650-67
	24.0 to 32.0 35.7 to 47.6	5.675 144.15	5.921 150.39	5.500 139.70			650-65
7 177.8	17.0 to 29.0 25.3 to 43.2	6.184 157.07	6.538 166.07	6.000 152.40	2.439 61.95	2-7/8 EU 8 RD	650-72
					2.908 73.86	3-1/2 EU 8 RD	650-74
	26.0 to 35.0 38.7 to 52.1	6.004 152.50	6.276 159.41	5.891 149.63	2.439 61.95	2-7/8 EU 8 RD	650-70
					2.908 73.86	3-1/2 EU 8 RD	650-73



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Specifications (continued)

Casing				Packer			
OD (in./mm)	Weight (lb/ft, kg/m)	ID (in./mm)		Gauge Ring OD (in./mm)	ID (in./mm)	Connection (in.)	Part
		Minimum	Maximum				
7-5/8 193.7	20.0 to 33.7 29.8 to 50.2	6.765 171.83	7.125 180.98	6.630 168.40	2.485 63.12	2-7/8 EU ^a 8 RD ^b	650-76-000
				6.625 168.28	2.908 73.86	3-1/2 EU 8 RD	650-78
	29.7 to 39.0 44.2 to 58.0	6.625 168.28	6.875 174.63	6.485 164.72	2.485 63.12	2-7/8 EU 8 RD	650-75-000
				6.458 164.03	2.908 73.86	3-1/2 EU 8 RD	650-77
8-5/8 219.1	28.0 to 40.0 41.7 to 59.5	7.725 196.22	8.017 203.63	7.536 191.41	2.984 75.79	3-1/2 EU 8 RD	650-85
9-5/8 244.5	29.3 to 43.5 43.6 to 64.7	8.755 222.38	9.063 230.20	8.516 216.31	2.984 75.79	3-1/2 EU 8 RD	650-96
	40.0 to 53.5 59.5 to 79.6	8.535 216.79	8.835 224.41	8.266 209.96	3.937 100.00	4-1/2 EU 8 RD	650-97
10-3/4 273.1	60.7 to 71.1 90.3 to 105.8	9.450 240.03	9.660 245.36	9.200 233.68	2.910 73.91	3-1/2 EU 8 RD	825833
					4.875 123.83	5-1/2 buttress	233258
13-3/8 339.7	68.0 to 72.0 101.2 to 107.1	12.347 313.61	12.415 315.34	11.875 301.63	3.000 76.20	3-1/2 EU 8 RD	745-13B-000

^aExternal upset

^bRound

Options

- The packer can be converted to be set and tested selectively in stacked-packer completions.