

NH-1 Hydraulic Production Packer

The NH-1 Hydraulic Production Packer is a retrievable hydraulic set packer used for oil and gas production and injection applications. The packer features no downward mandrel movement during setting making it ideal for stacked packer applications. The NH-1 may be used below dual string packer applications as the anchor packer.

The NH-1 may be landed in tension compression or neutral in deviated and horizontal wells. The packer may also be run in applications using gas lift mandrels and safety valves where tubing rotation is not desirable. The packer may be run in applications where compensating equipment such as tubing seal receptacles, PBR's and expansion joints are required. Contact NOV Applications Engineer when running multiple NH-1 Packers for additional equipment recommendations.

The NH-1 is released by straight pull on the tubing to shear release. Premium threads available on request.

Features

- No downward mandrel movement during setting
- Adjustable straight pull release
- Compensating piston counteracts pressure from below
- Elastomer and metallurgical option available for hostile environments

Benefits

- Can be landed in tension, compression or neutral
- No rotation required running or retrieving the packer
- Works with tubing disconnect tools and expansion joints

Applications

- Production
- Injection
- Horizontal and deviated wells
- Stacked and dual string applications
- Offshore completions with safety valves, gas lift mandrels
- Zonal isolation



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Technical Data

CASING				PACKER			
SIZE in. (mm)	WEIGHT lb/kg	Min. in.(mm)	Max in.(mm)	Gauge O.D. In.(mm)	Min. I.D. In. (mm)	Connection	Product Number
4.500 114,30	9.5 - 13.5 14,14 - 20,09	3.920 99,57	4.090 103,89	3.766 95,66	1.938 49,23	2.375" EU 8 RD	650-45
5.000 127,00	15.0 - 18.0 22,32 - 26,78	4.276 108,61	4.408 111,96	4.125 104,78	1.938 49,23	2.375" EU 8 RD	650-52
	11.5 - 15.5 17,11 - 23,06	4.408 111,96	4.560 115,82	4.141 105,18	1.938 49,23	2.375" EU 8 RD	650-50
5.500 139,70	20.0 - 23.0 29,76 - 34,22	4.670 118,62	4.778 121,36	4.516 114,71	1.984 50,39	2.375" EU 8 RD	650-57
	13.0 - 20.0 19,34 - 29,76	4.778 121,36	5.044 128,12	4.641 117,88	1.984 50,39	2.375" EU 8 RD	650-55
	9.0 - 13.0 13,39 - 19,34	5.044 128,12	5.240 133,10	4.875 123,83	1.984 50,39	2.375" EU 8 RD	650-54
5.750 146,05	18.6 - 25.0 27,68 - 38,69	4.882 124,00	5.118 130,00	4.625 117,48	2.000 50,80	2.875" EU 8 RD	650-55A
6.000 152,40	23.0 - 26.0 34,22 - 38,69	5.132 130,35	5.240 133,10	4.875 123,83	1.984 50,39	2.375" EU 8 RD	650-54
6.625 168,28	24.0 - 32.0 35,71 - 47,62	5.675 144,15	5.921 150,39	5.500 139,70	2.439 61,95	2.875" EU 8 RD	650-65
	20.0 - 24.0 29,76 - 35,71	5.921 150,39	6.049 153,64	5.750 146,05	2.439 61,95	2.875" EU 8 RD	650-67
	17.0 - 24.0 25,30 - 35,71	5.921 150,39	6.135 155,83	5.781 146,84	2.908 73,86	3.500" EU 8 RD	650-66
7.000 177,80	26.0 - 35.0 38,69 - 52,08	6.004 152,50	6.276 159,41	5.891 149,63	2.439 61,95	2.875" EU 8 RD	650-70
	17.0 - 29.0 25,30 - 43,15	6.184 157,07	6.538 166,07	6.000 152,40	2.439 61,95	2.875" EU 8 RD	650-72
	26.0 - 35.0 38,69 - 52,08	6.004 152,50	6.276 159,41	5.891 149,63	2.908 73,86	3.500" EU 8 RD	650-73
	17.0 - 29.0 25,30 - 43,15	6.184 157,07	6.538 166,07	6.000 152,40	2.908 73,86	3.500" EU 8 RD	650-74
	29.7 - 39.0 44,19 - 58,03	6.625 168,28	6.875 174,63	6.458 164,03	2.908 73,86	3.500" EU 8 RD	650-77
7.625 193,68	20.0 - 33.7 29,76 - 50,15	6.765 171,83	7.125 180,98	6.625 168,28	2.908 73,86	3.500" EU 8 RD	650-78
	28.0 - 40.0 41,66 - 59,52	7.725 196,22	8.017 203,63	7.536 191,41	2.984 75,79	3.500" EU 8 RD	650-85
9.625 244,48	40.0 - 53.5 59,52 - 79,61	8.535 216,79	8.835 224,41	8.266 209,96	2.984 75,79	3.500" EU 8 RD	650-95
	29.3 - 43.5 43,60 - 64,73	8.755 222,38	9.063 230,20	8.516 216,31	2.984 75,79	3.500" EU 8 RD	650-96
	40.0 - 53.5 59,52 - 79,61	8.535 216,79	8.835 224,41	8.266 209,96	3.937 100,00	4.500" EU 8 RD	650-97
10.750 273,05	60.7 - 71.1 90,32 - 105,80	9.450 240,03	9.660 245,36	9.200 233,68	2.984 75,79	3.500" EU 8 RD	650-10A
	45.5 - 55.5 67,70 - 82,58	9.760 247,90	9.950 252,73	9.500 241,30	2.984 75,79	3.500" EU 8 RD	650-10B
	60.7 - 71.1 90,32 - 105,80	9.450 240,03	9.660 245,36	9.200 233,68	4.875 123,83	5.500" LTC 8 RD	650-10C
13.375 139,73	68.0 - 72.0 101,18 - 107,14	12.347 313,61	12.415 315,34	11.875 301,63	3.000 76,20	3.500" EU 8 RD	650-13B
	48.0 - 68.0 71,42 - 101,18	12.415 315,34	12.715 322,96	12.200 309,88	4.930 125,22	5.500" LTC 8 RD	650-13A