

**PRODUCTS - SOLUTIONS - RESOURCE**

**PRODUCT OVERVIEW:**

The RH1 Hydraulic Set Double Grip Retrievable packer is a high performance packer designed for single string applications where mechanical manipulation of the packer is not possible or practical; such as in high angle well bores, where multiple packers must be stacked in a single well bore, or where the wellhead is to be flanged up prior to setting the packer.

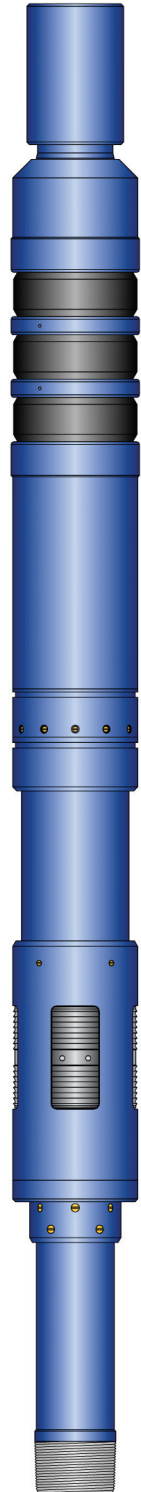
The RH1 is set by applying pressure to the tubing string and is released by applying tension to the tubing string. An integral equalization valve ensures tubing to annulus pressure is balanced during release and retrieval. Releasing shear force is field adjustable prior to running to accommodate particular well conditions.

The RH1 is the most compact packer of it's kind for ease of handling and deployment and is extremely simple and economical to service and re-dress. Re-configuration to accommodate a change in casing weight is accomplished by changing only the elements, gauge ring and spacer rings. The RH1 uses minimal o-rings, which ensures minimal possible leak paths. Apart from the by-pass seal, all critical o-rings are below the packing elements resulting in the most secure and reliable packer available.

Standard configuration includes materials which conform to NACE MR-01-75 for H2S service applications with differential pressure ratings of up to 7,000 psi . The RH1 is also available in alternate materials and configurations for severe environments and higher differential pressure ratings. A full line of accessory equipment is available such as on/off seal connectors, pump out plugs, expansion joints, tension release subs and profile nipples.

**FEATURES:**

- Largest possible bore through the packer.
- Simple hydraulic set by pressuring upon tubing string.
- Ideal for high angle wells or stacked completions.
- No mandrel movement during setting.
- Large piston area allows low setting pressures.
- Simple straight pull shear release.
- Minimal o-rings and leak paths.
- Optional test clamp allows full surface pressure test prior to running.
- Reliable three piece multi durometer packing element.
- Extremely compact for ease of handling and deployment.
- Extremely simple for ease of service and re-dress.
- Rig floor convertible to alternate casing weights without disassembly.
- May be landed in neutral, tension or compression.
- May be set after well head is flanged up.
- Double acting slip system securely holds loads from above and below.
- Packing element holds pressures from above and below.
- Packer seals and grips tighter as pressure increases from either direction.
- Wide variety of elastomer options available.
- Available in corrosion resistant alloys for hostile environments.
- All standard and premium thread connections are available.
- Up to 7,000 psi differential pressure rating.
- Higher differential pressure ratings available.



No. 15-155-7X35 Technical Data														
Casing			Packer											
Size	Weight Range	Gauge Ring	Element	Spacer Ring	Trigger Shear Screw		Releasing Shear Screw		Packer Seal Area	Element Pack-Off Area	***Min. Packoff Pressure	Material	Thread Connection	Product Number
					Max Qty.	Pressure /Scr.	Max Qty.	Shear Value /Scr.						
in	lb/ft	in	in	in		psi		lbs	in <sup>2</sup>	in <sup>2</sup>	psi			
mm	kg/m	mm	mm	mm		kPa		daN	mm <sup>2</sup>	mm <sup>2</sup>	kPa			
7.00	17.00 - 20.00	6.266	6.150	6.250	12	*242	12	**4,200	10.32	8.28	2,500	4140 Steel 18-22 HRC (L-80)	3½" 8 Rnd. EUE Box x Pin	15-155-7035
	25.30 - 29.80	159.20	156.20	158.80										15-155-7135
	23.00 - 26.00	6.078	5.740	5.968										15-155-7235
	34.23 - 38.70	154.40												151.60
177.80	26.00 - 29.00	5.968	145.80	5.812	*1,668	**1,868	6,658	5,341.9	17,236	15-155-7335				
	38.70 - 43.20	151.60								147.60	15-155-7335			
	32.00 - 35.00	5.812								147.60	15-155-7335			
	47.60 - 52.10	14.60												

\*Account for ± 10% on Shear Value

\*\*Account for ± 15% on Shear Value

\*\*\* Minimum pack-off pressure is recommended setting pressure for a 80-70-80 or 90-70-90 HNBR element stack. If otherwise please consult with Resource Technical Assistance