

### DESCRIPTION

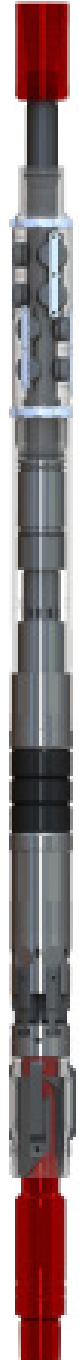
The HPHT Casing Packer is a mechanical set, double grip retrievable service Packer designed to be run in hostile environments. The HPHT Packer uses tungsten carbide slips to engage on high grade casing typically present in high pressure wells. The large internal bypass prevents swabbing during the trip in or out of the well, and allows high volume circulation. Tubing pressure at the Packer acts to hold the bypass closed to prevent it from opening during injection operations. Additionally, tubing pressure forces the upper slips into the casing to prevent the Packer from being pumped up the hole. The Packer is set by quarter-turn right hand rotation at the tool and slacking off the desired weight to pack off the annulus. Pick up the string to open the bypass and unset the Packer.

### APPLICATIONS

- Drill stem testing
- Tubing-conveyed perforating
- High pressure/high temperature testing
- Stimulations
- Fracking

### FEATURES

- Designed with high grade materials
- Three piece packing element system
- Ideal for HPHT testing, tubing conveyed perforating, or stimulation applications
- Tungsten carbide slips allow multiple sets in the hardest casings
- Ported mandrel circulating valve for high volume, high velocity circulation



### SPECIFICATIONS - 3120I

	4-1/2"	5"	7"	9-5/8"
CONNECTION UP	2-7/8" PH-6 Box	2-7/8" PH-6 Box	3-1/2" PH-6 Box	3-1/2" PH-6 Box
CONNECTION DOWN	2-7/8" PH-6 Pin	2-7/8" PH-6 Pin	3-1/2" PH-6 Pin	3-1/2" PH-6 Pin
WORKING PRESSURE RATING	15,000 psi	15,000 psi	15,000 psi	15,000 psi
INTERNAL PRESSURE STRENGTH	21,000 psi	17,900 psi	23,400 psi	22,000 psi
OUTER PRESSURE STRENGTH	19,500 psi	16,800 psi	21,600 psi	20,900 psi
OUTSIDE DIAMETER	3.80" (11.6 – 13.5 lb/ft) 3.92" (9.5 – 11.5 lb/ft)	3.98" (21 lb/ft) 4.15" (18 lb/ft)	5.93"(29 lb/ft) 5.89"(32 lb/ft) 5.75" (35 lb/ft)	8.15" (53.5 – 58.4 lb/ft) 8.3" (47 lb/ft) 8.4" (43.5 lb/ft)
INTERNAL DIAMETER	1.5"	1.65"	2.25"	2.87"
TOTAL LENGTH	104"	114"	132"	145"
MAX TEMPERATURE	400 degF	400 degF	400 degF	400 degF
TENSILE STRENGTH (YIELD)	150,390 lbs	139,800 lbs	230,000 lbs	431,300 lbs

SERVICE SURROUNDINGS:

Sour service above 175 degF as per NACE MR 0175

\* Note: The most common sizes and specifications are depicted above. Other sizes are available upon request

\* Premium Connections Available

\* These specifications are guidelines only. Refer to the equipment technical manual, or contact Northstar for more information.