

DESCRIPTION

A-TCN, A-165 – Mechanical Retrievable Packer for Tension, Compression and Neutral condition

The A-TCN is a retrievable production packer that is set mechanically. The J-design that the Packer is equipped with, allows the packer to continue performing in Tension, Compression and Neutral conditions, without the need to keep the tubing under compression.

The Packer features an internal bypass and Releasing slip system that facilitates release and retrieval of the packer.

FEATURES

- Holds pressure from above and below
- Can be set by compression or tension
- Quarter turn to set and retrieve
- Large By-pass

BENEFITS

- Tension Set for shallow operations
- Tubing can be left in Compression Tension or Neutral
- Right handset and Right Hand retrieved
- Internal Bypass
- Ease of maintenance
- Releasing Slip system

APPLICATIONS

- Temporary zone isolation
- Production and Injection operations
- Shallow and Deep wells

Available in sizes for various casing sizes for their respective weight ranges with varying standard or exotic material and elastomers based on compatibility with the well environment and application requirement. In addition, packers are furnished with different end connections (Standard API EUE or NUE or premium), to meet customer's requirements.

RUNNING & RETRIEVING:

Make up the packer with the tubing string and run to the setting depth. Pull the packer up the hole approximately six inches. Torque the tubing to the right and slowly lower the pipe until the tubing weight is stacked out on the packer. Pull into the packer to get a good bite with the slips and to completely pack-off the element system. If possible, cycle the tubing (compression-tension) to finish the pack-off.

Rotate the tubing 1/4 turn RH at the packer and pull up on the mandrel.



DIMENSIONAL SPECIFICATIONS

Casing			Packer		
Size		Weight	OD	ID	Thread Connection
in.	mm	lb/ft	in.	in.	Box Up X Pin Down
2-7/8	73.0	6.5	2.314	0.990	1.315 EU 10RD
3-1/2	88.9	7.7 – 10.2	2.786	1.245	1.900 NU 10RD
4	101.6	9.5 – 11	3.255	1.495	1.900 EU 10RD
4-1/2	114.3	15.1 – 16.6			
		13.5 – 15.1	3.655	1.930	2-3/8 EU 8 RD
		9.5 – 13.5	3.759		
5	127.0	20.8 – 21.4	3.943		
		18.0 – 20.8	4.000		
		11.5 – 15	4.125		
5-1/2	139.7	20 – 23	4.500	1.995	2-7/8 EU 8 RD
		17 – 20	4.625		
		13 – 17			
		20 – 23	4.500	2.360	
15.5 – 17	4.625				
13 – 15.5	4.781				
5-3/4	146.1	18 – 21.9	4.817	2.360	2-7/8 EU 8 RD
		14 – 21.9			
6-5/8	168.3	24 – 32	5.500	2.500	2-7/8 EU 8 RD or 3-1/2 EU 8 RD
7	177.8	20 – 24	5.755		
		32 – 38	5.875		
		26 – 32			
		20 – 26	6.000		
		17 – 20	6.255		
		32 – 38	5.750	2.990	3-1/2 EU 8 RD
		26 – 32	5.875		
17 – 26	6.000				

Casing			Packer		
Size		Weight	OD	ID	Thread Connection
in.	mm	lb/ft	in.	in.	Box Up X Pin Down
7-5/8	193.7	33.7 – 39	6.453	2.515	2-7/8 EU 8 RD
		24 – 29.1	6.672		
		33.7 – 39	6.453	2.990	3-1/2 EU 8 RD
		24 – 29.7	6.672		
8-5/8	219.1	32 – 40	7.500	4.00	4-1/2 EU 8 RD
		24 – 28	7.750		
9-5/8	244.5	43.5 – 53.5	8.250		
		32 – 43.5	8.500		
10-3/4	273.1	32.8 – 45.5	9.688		

Additional sizes with weight ranges are available as required