

AD-1 TENSION PACKER

PRODUCT 20-303

The **TechWest Model AD-1 Tension Packer** is a compact and low-cost, single-grip, resettable packer. The packer is suitable for low to medium pressure applications where pressure from below is expected, such as waterflooding installations or stimulating in shallow or low reservoir pressure wells.

This packer features an adjustable shear type Safety Release System which may be used to release the packer. The Shear Release System is located below the packing element with standard factory set shears. The standard shear value of (5,000 lbs.) 2265 daN per pin are easily removed or added.

FEATURES

- Resettable and retrievable
- Short and Compact
- Left hand set, Right Hand release
- Rocker-Type Slip Design provides a shorter and simpler design and eliminates stuck or cocked slips.
- Emergency release system
- Full-Bore ID
- Available in different J-slot configurations upon request

OPERATION

Run to the desired setting depth. Make a $\frac{1}{4}$ turn to the left at the tool. Apply tension to the packer causing the slips to fully engage with the casing and energizing the elements. Tension must be maintained at the packer to keep the elements energized.

To release the packer simply remove tension and lower the tubing. A quarter right hand turn must be placed into the packer may now be moved up or down hole. If unable to normally unset the packer the packer contains an emergency shear release.

In the event the packer may not be released in the normal manner, the emergency shear release is employed with tension.



SPECIFICATIONS

20-303 SPECIFICATIONS													
Casing													
Size	T&C Weight		Casing Range				Product Number	Bore	Setting Range OD		Gauge Ring OD	Thread	
			Min ID		Max ID				Min	Max			
in	lb/ft	kg/m	in	mm	in	mm	in	in	in	in			
4	9.5-11.6	14.1-17.3	3.548	90.1	3.43	87.1	20-303-2340	1.895	3.428	3.548	3.188	2-3/8 OD EU 8 Rd	
4 1/2	13.5-15.1	20.1-22.5	3.826	97.2	3.92	99.6	20-303-2345	1.895	3.697	3.958	3.609		
	9.5-13.5	14.1-20.1	3.920	99.6	4.09	103.9	20-303-2346	1.895	3.910	4.160	3.771		
5	15-18	22.3-26.8	4.276	108.6	4.41	112.0	20-303-2352	1.895	4.161	4.408	4.125		
	11.5-15	17.1-22.3	4.408	112.0	4.56	115.8	20-303-2351	1.895	4.408	4.560	4.250		
5 1/2	20-23	29.8-34.2	4.670	118.6	4.78	121.4	20-303-2356	1.950	4.625	4.778	4.500		
	15.5-20	23.1-29.8	4.778	121.4	4.95	125.7	20-303-2356	1.950	4.778	4.950	4.641		
	13-15.5	19.3-23.1	4.950	125.7	5.04	128.1	20-303-2357	1.950	4.950	5.190	4.781		
6 5/8	28-32	41.7-47.6	5.820	147.8	5.79	147.1	20-303-2366	1.978	5.596	5.791	5.484		
7	38	56.5	5.920	150.4	5.92	150.4	20-303-2770	2.416	5.830	5.921	5.656		2-7/8 OD EU 8 Rd
	32-35	47.6-52.1	6.004	152.5	6.09	154.8	20-303-2771	2.416	5.922	6.135	5.812		
	26-29	38.7-43.2	6.184	157.1	6.28	159.4	20-303-2772	2.416	6.136	6.276	5.968		
	20-26	29.8-38.7	6.276	159.4	6.46	164.0	20-303-2773	2.416	6.276	6.456	6.078		
	17-20	25.3-29.8	6.456	164.0	6.54	166.1	20-303-2774	2.416	6.456	6.538	6.266		
7 5/8	33.7-39	50.1-58.0	6.625	168.3	6.76	171.6	20-303-2775	2.416	6.539	6.765	6.453		
	24-29.7	35.7-44.2	6.875	174.6	7.03	178.4	20-303-2776	2.416	6.766	7.025	6.672		
	20-24	29.8-35.7	7.025	178.4	7.13	181.0	20-303-2777	2.416	7.025	7.125	6.812		