

J-TYPE SNAP LATCH SEAL UNIT

PRODUCT 10-067

The **TechWest J-Type Mechanical Snap Latch Seal Unit** is designed to be used with the Tech West Model W Cement Retainer (Product 20-139).

The top sub of the Seal Unit acts as a centralizer to ensure the Snap Latch will locate into the retainer bore, even in deviated wells.

OPERATION

When the Snap Latch Unit enters the retainer the bottom Actuating Mandrel pushes the retainer valve open, and at the same time the Snap Latch Collet collapses into and engages the latch threads in the top of the retainer. The Seal Unit is free to move up and down in the collet, closing and opening the valve. If the tubing is rotated 1/2 turn to the left and picked up, a shoulder on the mandrel locks the collet and anchors the latch in the retainer.

In this position the Seal Unit is still engaged in the retainer bore, and the retainer valve is closed, allowing the tubing string to be pressure tested before squeezing and eliminating the danger of the snap latch releasing.

To release the J Type Mechanical Snap Latch Seal Unit from the retainer it is necessary to release tubing tension and rotate 1/2 turn to the right before picking up, approximately 4,500 daN (10,000 lbs.) over string weight. The force required to do this will decrease after repeated usage, until it stabilizes at approximately 2,200 daN (5,000 lbs.) force over string weight.

SPECIFICATIONS

10-067 SPECIFICATION GUIDE							
Tubing/Casing Size		Cement Retainer Product No	Snap Latch Product No.	Retainer OD		Retainer Seal Bore OD	
in	mm			in	mm	in	mm
2 7/8	73.0	20-139-0250	10-067-0250	2.22	56.4	1.125	28.6
3 1/2	88.9	20-139-0350	10-067-0350	2.56	65.0	1.125	28.6
4 1/2	114.3	20-139-0450	10-067-0450	3.56	90.4	1.375	34.9

