

SNAP LATCH SEAL UNIT

PRODUCT 10-065

The **TechWest Snap Latch Seal Unit** is designed for use with the Wireline set Model W Cement Retainer (Product 20-139). It provides positive control of the Cement Retainer Valve, while effectively anchoring and sealing the tubing in the retainer.

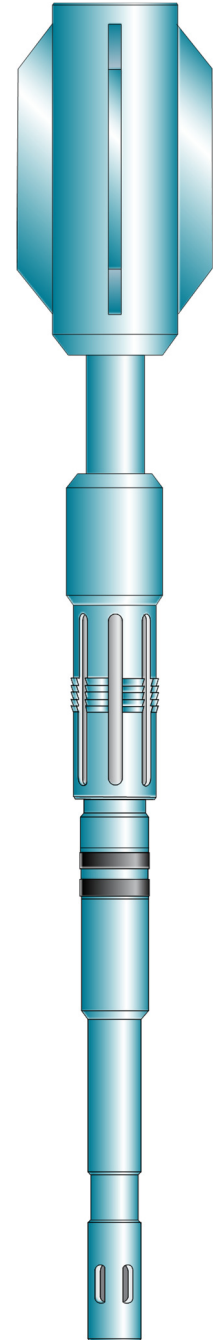
The top sub of the Snap Latch Seal Unit acts as a centralizer to ensure the Snap Latch will locate into the retainer bore - even in deviated wells.

OPERATION

When the Snap Latch Seal Unit enters the retainer, the bottom Shifter Sub pushes the Retainer Valve open. At the same time the Snap Latch Collet collapses into and engages the latch threads in the top of the retainer, thereby anchoring the tubing to the retainer.

The Snap Latch Collet on the Seal Unit is free to move up or down 76mm (3") on the mandrel, allowing the Retainer Valve to be opened or closed while the Snap Latch Seal Unit is still locked and sealed into the retainer. This feature also allows for pressure testing the tubing string before squeezing. Picking up will close the valve and moving down opens it.

To release the Seal Unit from the retainer it is necessary to pull 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 2,000 daN (5,000 lbs.) force over string weight.



SPECIFICATIONS

10-065 SPECIFICATION GUIDE						
Casing	Cement Retainer Product No.	Snap Latch Product No.	Centralizer OD	Tool ID	Seal OD	EUE Thread
in/mm			in/mm	in/mm	in/mm	in/mm
4 1/2 114.3	20-139-0450	10-065-0450	3.75 95.2	0.88 22.4	1.375 34.9	2 3/8 60.3
5 127	20-139-0500	10-065-0500	4.07 103.3	0.88 22.4	1.375 34.9	2 3/8 60.3
5 1/2 139.7	20-139-0550	10-065-0550	4.5 114.3	0.88 22.4	1.375 34.9	2 3/8 60.3
5 3/4 146.1	20-139-0600	10-065-0600	5 127	0.88 22.4	1.375 34.9	2 3/8 60.3
6 5/8 168.4	20-139-0650	10-065-0650	5.25 133.4	1.25 31.8	2.000 50.8	2 7/8 73.0
7 177.8	20-139-0700	10-065-0700	5.5 139.7	1.25 31.8	2.000 50.8	2 7/8 73.0
7 5/8 193.5	20-139-0750	10-065-0750	6 152.4	1.25 31.8	2.000 50.8	2 7/8 73.0
8 5/8 219.1	20-139-0850	10-065-0850	6.68 169.7	1.25 31.8	2.000 50.8	3 1/2 88.9
9 5/8 244.3	20-139-0950	10-065-0950	8.12 206.2	1.25 31.8	2.000 50.8	3 1/2 88.9