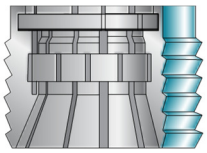
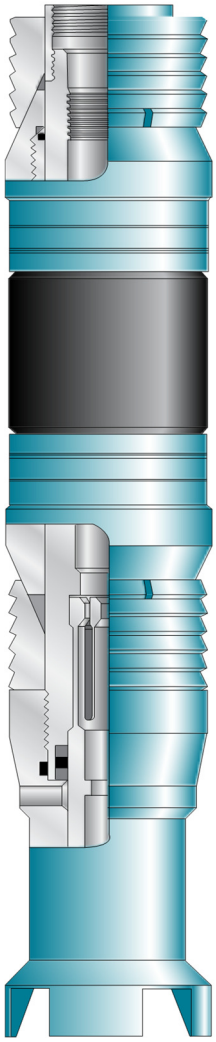
CEMENT RETAINER (MODEL M AND W)

PRODUCT 20-138 AND 20-139





The ***Techwest Model M Cement Retainer*** (Product 20-138) and the ***TechWest Model W Cement Retainer*** (Product 20-139) are rugged, compact, Cement Retainers engineered for trouble free running and setting. The slips, packing elements and other components are positively secured to ensure high speed running of the retainer.

The Cement Retainer may be set on tubing or on wireline by replacing the pre-segmented Top Slip by a one-piece Top Slip and replacing the Shear Plug with a Shear Ring. The use of a Shear Ring allows the retainer bore to be filled with grease to prevent solids from settling inside and preventing proper operation of the valve.

The Cement Retainer may be converted to a Bridge Plug by removing the bottom Valve Assembly and replacing it with a Cap.

FEATURES

- Drillable cast iron design
- Converts between mechanical (20-138) and wireline set (20-139) by changing top slips.
- Easily converts to a Bridge Plug
- Rated to 10k psi (8-5/8'' and smaller)

OPERATION

A Ramcharger Setting Tool (Product 10-064) is used to run and mechanically set the Tubing Set Cement Retainer, and to operate the valve after setting.

The Wireline Cement Retainer is set with the TechWest B Series Setting Tool (Product 10-270, 10-271) or other Baker E-4 compatible pressure Setting Assemblies.

The Pressure balanced Sleeve Valve is opened by lowering the tubing and is closed with pick-up. A Shear System prevents the valve from inadvertently opening at any time during running or setting. The Tubing String may be tested before you squeeze by picking up the tubing to close the valve and applying pressure. The operation of the valve allows pressure the be held on the final squeeze when working on low pressure reservoirs.

SPECIFICATIONS

20-138 and 20-139 SPECIFICATION GUIDE							
CASING				TOOL			
OD	Weight	Min. ID	Max. ID	Product Number		Max. OD	Press. Rating
in/mm	lb/ft - kg/m	in/mm	in/mm	Wireline Set	Mechanical Set	in/mm	psi
4 1/2 114.3	9.5- 15.1 14.14 -22.47	3.826 97.2	4.090 103.9	20-139-0450	20-138-0450	3.593 91.3	10k
5 127. 00	11.5- 18.0 17.11 - 26.78	4.276 108.6	4.560 115.8	20-139-0500	20-138-0500	3.937 100.0	10k
5 1/2 139.7	13.0- 23.0 19.34 - 34.22	4.670 118.6	5.118 129.0	20-139-0550	20-138-0550	4.312 109.5	10k
5 3/4 146.05	14.0 - 25.2 20.83 - 37.50	4.890 124.2	5.290 134.4	20-139-0600	20-138-0600	4.700 119.4	10k
6 5/8 168.28	17.0- 34.5 25.30 - 51.34	5.575 144.6	6.135 155.8	20-139-0650	20-138-0650	5.375 136.5	10k
7 177. 80	17.0- 35.0 25.30 - 52.08	6.004 152.5	6.538 166.1	20-139-0700	20-138-0700	5.688 144.5	10k
7 177. 80	38.00 56.44	5.920 150.4	5.920 150.4	20-139-0701	20-138-0701	5.375 136.5	10k
7 5/8 193.68	20.0- 39.0 29.76 - 58.03	6.625 168.3	7.125 181.0	20-139-0750	20-138-0750	6.312 160.3	10k
8 5/8 224.48	24.0-49.0 35.71 - 72.90	7.511 190.8	8.097 205.7	20-139-0850	20-138-0850	7.125 181.0	10k
9 5/8 224.48	29.3-61.1 43.60 - 90.92	8.375 212.7	9.063 230.2	20-139-0950	20-138-0950	8.125 206.4	8k
10 3/4 273. 05	32.75- 60.7 48.73 - 90.32	9.660 245.4	10.192 258.9	20-139-1050	20-138-1050	9.440 239.8	5k
11 3/4 298.45	60.0- 83.0 89.28- 123.50	10.192 258.9	10.772 273.6	20-139-1150	20-138-1150	9.937 252.4	4k
11 3/4 298. 45	38.0- 60.0 56.54 - 89.28	10.772 273.6	11.150 283.2	20-139-1151	20-138-1151	10.440 265.2	4k
13 3/8 339.73	48.0-72.0 71.42 - 107.14	12.347 313.6	12.715 323.0	20-139-1338	20-138-1338	12.000 304.8	3k
16 406.4	65.0- 128.0 96.72 - 190.46	14.438 366.7	15.250 387.4	20-139-1600	20-138-1600	14.125 358.8	2k
18 457. 20	70.58-87.5 105.02 - 130.20	17.088 434.0	17.250 438.2	20-139-1800	20-138-1800	16.650 422.9	2k
18 5/8 473. 08	87.50 130.20	17.480 444.0	18.000 457.2	20-139-1850	20-138-1850	17.125 435.0	2k
20 508. 00	94.0- 133.0 139.87 - 197.90	18.730 475.7	19.124 485.7	20-139-2000	20-138-2000	18.375 166.7	2k
30 762. 00	157.73- 310.0 234.70- 461.28	28.000 711.2	29.000 736.6	20-139-3000	20-138-3000	27.500 698.5	0.5k