

NAC-1 Tubing Anchor Catcher

The NAC-1 Tubing Anchor Catcher is a rotationally activated tool used to prevent vertical movement of the tubing. The drag block design provides better torque resistance than older drag spring design. When installed with the proper amount of tension, this anchor prevents tubing movement during rod pump operations.

The NAC-1 sets with left-hand rotation and releases with right-hand rotation. The anchor incorporates a field adjustable emergency shear release system. To shear release the anchor, straight pull will shear the shear pins at a pre-determined shear value.

Features

- Drag block design provides better torque resistance than drag springs
- Adjustable straight pull shear release
- Standard left-hand rotation to set, right-hand rotation to release
- May be run above or below a rod pump

Benefits

- Prevents tubing movement for better pump efficiency
- Prevents tubing dropping to bottom should the tubing part
- Drag blocks supported with Inconel springs for long service

Applications

- Production
- Rod pump applications

Operation

Install the NAC-1 in the tubing string just above or below the pump for best results. Run to setting depth and rotate the tubing to the left at the anchor. The number of turns required will depend on casing weight, once set the tubing will torque up.

To ensure the anchor is set, hold left-hand torque and set down on the anchor, 10-15,000-lb. Pick-up and set down several times to ensure set of the anchor.

To release, lower the tubing to release tension, rotate to the right while working the tubing up and down slightly. Should the anchor not release, straight pull on the tubing above shear value of the release pins will shear the pins and release the anchor.



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Technical Data

CASING				TUBING ANCHOR CATCHER			
SIZE in. (mm)	WEIGHT lb/kg	Min. in.(mm)	Max in.(mm)	Gauge O.D. In.(mm)	Min. I.D. In. (mm)	Connection	Product Number
4.500 114,30	9.5 - 13.5 14,14 - 20,09	3.920 99,57	4.090 103,89	3.750 95,25	1.933 49,10	2.375" EU 8 RD	20-033-0460
5.000 127,00	11.5 - 18.0 17,11 - 26,78	4.276 108,61	4.560 115,82	4.120 104,65	1.933 49,10	2.375" EU 8 RD	20-033-0500
5.500 139,70	20.0 - 23.0 29,76 - 34,22	4.670 118,62	4.778 121,36	4.500 114,30	2.441 62,00	2.875" EU 8 RD	20-033-0550
	13.0 - 17.0 19,34 - 25,30	4.892 124,26	5.044 128,12	4.620 117,35	2.441 62,00	2.875" EU 8 RD	20-033-0560
6.625 168,28	20.0 - 32.0 29,76 - 47,62	5.675 144,15	6.049 153,64	5.500 139,70	2.441 62,00	2.875" EU 8 RD	20-033-0650
	23.0 - 38.0 34,22 - 56,54	5.920 150,37	6.366 161,70	5.880 149,35	2.441 62,00	2.875" EU 8 RD	20-033-0700
7.000 177,80	23.0 - 38.0 34,22 - 56,54	5.920 150,37	6.366 161,70	5.880 149,35	2.992 76,00	3.500" EU 8 RD	20-033-0710
	17.0 - 20.0 25,30 - 29,76	6.456 163,98	6.538 166,07	6.250 158,75	2.441 62,00	2.875" EU 8 RD	20-033-0720
	17.0 - 20.0 25,30 - 29,76	6.456 163,98	6.538 166,07	6.250 158,75	2.992 76,00	3.500" EU 8 RD	20-033-0730
	29.7 - 39.0 44,19 - 58,03	6.625 168,28	6.875 174,63	6.458 164,03	2.992 76,00	3.500" EU 8 RD	20-033-0750
8.625 219,08	24.0 - 49.0 35,71 - 72,91	7.511 190,78	8.097 205,66	7.000 177,80	2.992 76,00	3.500" EU 8 RD	20-033-0850
	32.3 - 47.0 48,06 - 69,94	8.681 220,50	9.001 228,63	8.250 209,55	2.992 76,00	3.500" EU 8 RD	20-033-0950