

Type C Anti-Rotation Anchor

Tubing Anchors



The Type C Anti-Rotation Anchor is used to prevent tubing back off in progressive cavity pump applications. Run as an integral part of the tubing string, the anchor automatically sets when tubing torque is present to prevent rotation of the tubing string.

Features

- Compact design allows for a large gas by-pass area
- Rocker drag slip for reliable setting and releasing
- No set screws
- One-piece mandrel

Operation

The Type C Anti-Rotation Anchor is simply run to depth with the pump. When torque is applied to the tubing, the wickers on the rocker drag slip engage the casing to prevent the tubing from turning.

To release, rotate the tubing a small amount to the left to ensure the slips are disengaged and retrieve.

Type C Anti-Rotation Anchor							
Casing				Anchor			Torque Tested
O.D.	Weight	Min. I.D.	Max. I.D.	Max. O.D. Body	I.D.	Standard Box x Pin	
in	lbs/ft	in	in	in	in	in	
mm	kg/m	mm	mm	mm	mm	mm	
5-1/2	13 – 20	4.778	5.044	4.500	2.44	2-7/8 EUE	2,500
139.7	19.3 – 29.7	121.3	128.1	114.3	62.0	73.00	348
7	17 – 26	6.276	6.538	5.680	3.00	3-1/2 EUE	4,000 555
177.8	25.2 – 38.7	159.4	166.0	114.28	76.2	88.90	
8-5/8	24 – 44	7.625	8.191	7.250	3.00	3-1/2 EUE	
					76.2	88.90	
219.0	35.7 – 65.5	193.7	208.0	184.0	4.00	4-1/2 EUE	
					101.6	114.30	
9-5/8	32 – 53.5	8.435	9.001	8.000	3.00	3-1/2 EUE	
					76.2	88.90	
244.5	47.6 – 79.6	214.2	228.6	203.0	4.00	4-1/2 EUE	
					101.6	114.30	

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1. The rocker drag slip is shown in the running position. Rocker pads center the anchor and keep the slip wickers away from the casing wall.
2. Rocker drag slip is shown in the set position. It is forced into the casing wall by elevators that operate through the rotation of the anchor.
3. Rocker drag slip running pad.
4. Wide rocker slips for better casing wall contact help to prevent damage due to torque pump surges or high torque pumps.



Type C Anti-Rotation Anchor Gas By-pass Area

Casing O.D.	Casing Weight	Anchor O.D.	Bypass Square Area
in	in	in	in
mm	mm	mm	mm
4-1/2	9.50	3.7000	2.310
114.3	14.14	93.98	149.04
5-1/2	14.00	4.500	2.696
139.7	20.83	114.3	173.95
7	20.00	5.680	5.144
177.8	29.78	114.27	331.89
8-5/8	24.00	7.250	7.222
219.0	35.71	184.2	465.96
9-5/8	36.00	8.000	8.615
244.2	53.57	203.2	555.84