

Type C Anti-Rotation Anchor



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	

Type C Anti-Rotation Anchor

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

Type C Heavy-Duty Tubing Anchor Catcher

The Type C Heavy-Duty Tubing Anchor Catcher provides a reliable method of anchoring the tubing in rod pumped wells. The Type C utilizes drag blocks with corrosion resistant springs and heavy-duty slips to ensure long life and to minimize repair costs. The Type C is available in either the more common left-hand set/right-hand release version or it is available in a right-hand set/left-hand release version for use in situations where the possibility of right-hand torque in the tubing string is a problem. All Type C anchors come with an adjustable (in 5,000 lb. increments) secondary shear release.

Features

- Corrosion resistant shear screws
- Secondary shear system is easily adjusted in the field without disassembling the tool
- Reliable slip retraction system to insure safe retrieval
- The positive stop system design insures the anchor cannot jam in the released position
- The wear resistant drag blocks with Inconel springs combined with heavy-duty one-piece slips reduce repair costs
- One-piece mandrel



Type C Heavy-Duty Anchor Catcher					
Casing		Anchor			Product Number
O.D.	Weight	Body Max. O.D.	Mandrel I.D.	EUE Box x Pin	
in	lb/ft	in	in	in	
4-1/2	9.5 – 11.6	3.75	2.000	2-3/8	20-125-4500
5-1/2	13.0 – 20.0	4.50	2.441	2-7/8	20-125-5500
6-5/8	17.0 – 32.0	5.75	3.000 or 2.441	3-1/2 or 2-7/8	20-125-6500
7	17.0 – 38.0				20-125-7000
9-5/8	32.3 – 47	7.76			20-125-9500
mm	kg/m	mm	mm	mm	
114.3	14.14 – 17.3	111.13	50.800	60.325	20-125-4500
139.70	19.34 – 29.8	114.3	61.976	73.025	20-125-5500
168.28	25.3 – 47.6	146.05	76.200 or 61.976	88.900 or 73.025	20-125-6500
177.80	25.3 – 56.5				20-125-7000
244.48	48.1 – 69.9	197.10			20-125-9500