

ULTRA FLIP SWIVEL USER'S GUIDE

Ultra Marine
Ultra Safe Anchoring



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ULTRA Flip Swivel User's Guide



Basic Characteristics :

Congratulations on your purchase of an ULTRA Flip Swivel.

- Swivels are anchor chain connectors – connecting the chain at one end of the swivel and the anchor at the other.

-The ULTRA Flip Swivel's design is unique from most other anchor swivels in that its breaking load is higher than the chain it is connected too.

-The ULTRA Flip Swivel's other difference to most other anchor swivels is that its pins cannot unwind over time like standard shackle pins. Thanks to the special form of ULTRA pin heads and sockets, the force exerted onto the swivel pins by the anchor and chain at both ends of the swivel cannot loosen the pins at all. Together with the retaining setscrews which hold the pins in place, as no movement is possible to the pin itself, the setscrews themselves will not unwind over time.

-Another very important difference and feature of the ULTRA Slip Swivel is that if the anchor comes upside down on to the bow roller, The ULTRA Flip Swivel design forces the anchor to rotate into its correct orientation. (Note: This function is not possible for ULTRA Swivels to suit 300kg – 500kg stockless anchors).

Selecting Criteria :

- ULTRA Flip Swivels should be selected as per both the chain size and anchor eye dimensions.

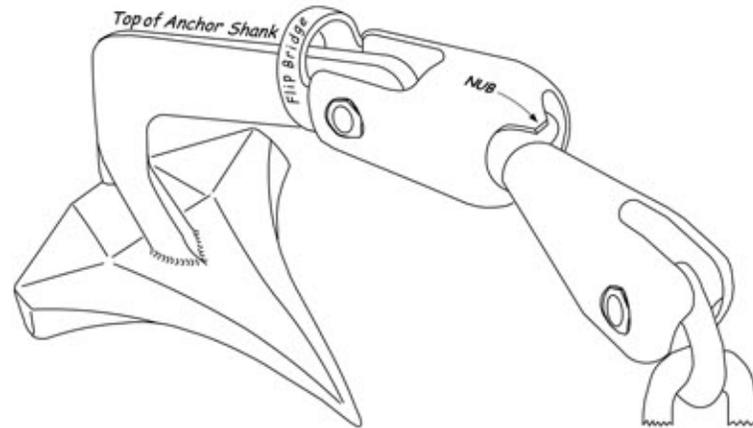
- The part code of ULTRA Flip Swivels correlate to the chain diameters they are intended to work with (which are labeled on each swivel in metric and imperial sizing). The same size swivel can be used with regular grade chains.

- If you will use your ULTRA Flip Swivel with a higher grade chain, it is better to select the ULTRA Flip Swivel that is one size bigger than the chain you are connecting it too. For instance : If you have Ø8 mm higher grade chain, instead of #8 ULTRA Flip Swivel it is recommended you choose #10 ULTRA Flip Swivel. The chain pins of ULTRA Flip Swivel's are designed so as they can accept one size smaller chain. For instance : If you have #10 ULTRA Flip Swivel is will accept Ø8 mm chain.

- If you intend to use an ULTRA Flip Swivel with a stockless anchor, you do not require a rear bridge and flipping nub as featured on a standard ULTRA Flip Swivel. This non-standard detail needs to be noted when the order is placed. Alternatively, if the stockless anchor is large (such as 300-500 Kg), we recommend you install the World's first roller bearing swivel - the ULTRA Roller Bearing Swivel.

- If you will use ULTRA Flip Swivel on another anchor rather than the ULTRAnchor, as the ULTRA Flip Swivel can create unexpected forces on your anchor you should pay attention on the maximum anchor weight section at the ULTRA Flip Swivel selection table. Each ULTRAnchor is designed to work in harmony with an ULTRA Flip Swivel and it is therefore strongly recommended.

Fitting (Installation) Considerations :



- Installation involves inserting the pins and setscrews on the small end/throat of the Ultra Flip Swivel through the chain, and vice versa on the large end/throat through the anchor eye.

- When the anchor eye is inserted into the large Shank end/throat of the ULTRA Flip Swivel, the correct orientation is for the rear bridge to marry to the top of the anchor shank (or in other words the inverted "U" shape of rear bridge is to be in-line with the top of the anchor shank). The ULTRA Flip Swivel MUST be orientated this way to function correctly and permit the anchor to flip into the proper position/orientation on your bow roller. Refer attached image as a further reference regarding this important installation instruction.

- While inserting the chain into the small end/throat of the Ultra Flip Swivel the pin MUST be inserted parallel to the Main Axis. Refer attached image as a further reference regarding this important installation instruction. The pins and setscrews of small ULTRA Flip Swivels (particularly #6 & #8) should not be forced as this can cause damage/wear which may cause problems when you want to remove the ULTRA Flip Swivel from the ground tackle. ULTRA Flip Swivel pins and setscrews are not affected by anchor and chain movements when installed correctly - they don't unwind in time. Apply normal force when tightening the setscrews. For extra safety use Loctite on the retaining setscrews

- it may be better to heat your ULTRA Flip Swivel setcrews before removing them if you have used Loctite when initially installed.

ULTRA Flip Swivel - Normal Performance :

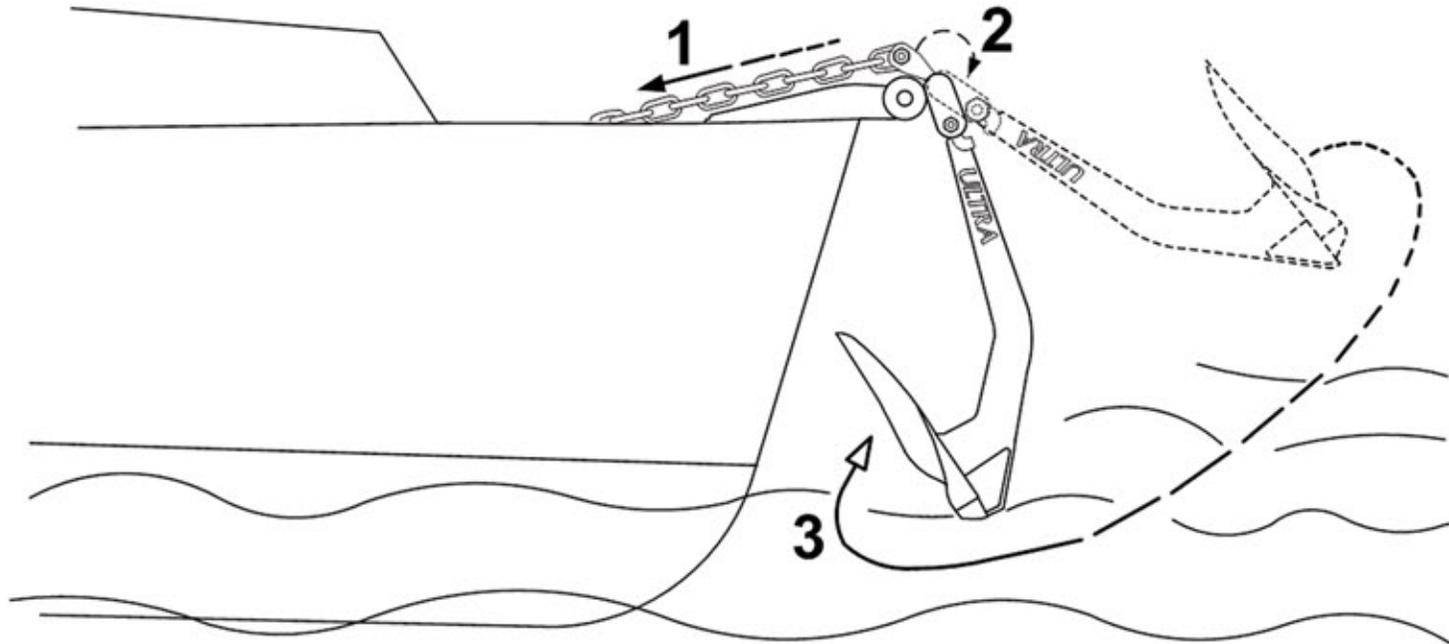
- The windlass operator is not required to do anything special for the ULTRA Flip Swivel to perform its role. If you witness an unexpected action, it should be investigated. For instance, if your anchor is recovered onto the bow roller in an upside-down orientation, one reason may be the speed at which the anchor was recovered onto the bow roller. Your ULTRA Flip Swivel will require the opportunity to rotate the anchor to the proper position on the bow roller. Generally speaking, it is recommended you maintain a very SLOW recovery speed on the windlass as the anchor touches the bow roller at which time if the anchor is in the upside-down orientation the ULTRA Flip Swivel will commence to rotate the anchor. The ULTRA Flip Swivel will NOT place the anchor in the correct orientation prior to the anchor coming into contact with the bow roller. We recommend all bow rollers feature a chain retaining hoop when an ULTRA Flip Swivel is in use as the force applied to roll the anchor can be significant and a retaining hoop prevents the ground tackle from jumping off the bow roller altogether.

ULTRA Flip Swivel - Fixing Hook / Safety Lanyard :

- After the anchor is recovered, it is recommended you attach a safety lanyard to ensure the anchor cannot deploy unintentionally. The safety lanyard can be attached to the void on the ULTRA Flip Swivel body - in between its body and anchor. Refer attached image as a further reference regarding this point. The safety lanyard should then be firmly fastened to a cleat or strong point on the foredeck.



How ULTRA Flip Swivel Works



Maintenance :

- ULTRA Flip Swivels are designed to work for many years without maintenance. However, given its importance within your anchoring system and for the safety of the vessel and its crew, we recommend as below.
- Your ULTRA Flip Swivel needs to be inspected visually at least once per year (and more often if the anchor is in constant use). Look to see that the setscrews are still tight, and the pins firmly in their rebated sockets.
- It is normal to see some scars on the neck of your ULTRA Flip Swivel made by the flipping nub. These scars take place when the nub forces the anchor to rotate to the proper position/orientation – evidence that your ULTRA Flip Swivel is performing its role. This is only an aesthetic scar. However, these scars shouldn't increase over time. If the surface diameter under the scars is smaller than the diameter at where the neck and body combine, the swivel needs to be replaced. This is a very rare situation and such an installation would need to be reviewed with respect to anchor selection and bow roller design.
- Possible corrosion of the first couple of chain links connected to the ULTRA Flip Swivel: This will only take place when the ULTRA Flip Swivel is used together with galvanized chain. The Galvanized layer works as a sacrificial anode against stainless steel and melts. These links without zinc protection will rust in sea water and salt air. Depending on how often you use your anchor, this scenario can occur between 1 to 3 years. Since, it doesn't occur suddenly, it doesn't cause an immediate security risk. In a proper time, these rusted links should be cut off the chain.
- Possible corrosion of the first couple of meter chain links connected to the ULTRA Flip Swivel: This also only takes place when the swivel is used together with galvanized chain. ULTRAnchor unlike other anchors in the market set quickly and dig deeper in the sea bottom when under high load. As a result of this, the first couple of meters of chain connecting to the anchor shank rubs with the sea bottom. The zinc cover wears off these links in time and they rust in sea water and salt air. You can solve this problem using the first couple of meter chains 316L stainless steel. However, a couple of galvanized chain links connected with the stainless steel chain can also get rusted in a couple of years. Since, it doesn't occur suddenly, it doesn't cause an immediate security risk. In a proper time, these rusted links should be cut off the chain.

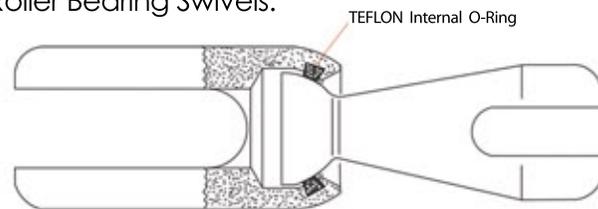
Pollutions :

- Stainless Steel: While your ULTRA Flip Swivel is in use it can come into contact with foreign metals on the sea floor. This can leave some microscopic particles on your ULTRA Flip Swivel. These particles may then leave rust marks – in some cases it might appear like the whole swivel is rusted. This is very rare but not impossible. In both cases rust is only at the surface and it doesn't cause any security problems. It can be cleaned in any kind of stainless steel polisher.

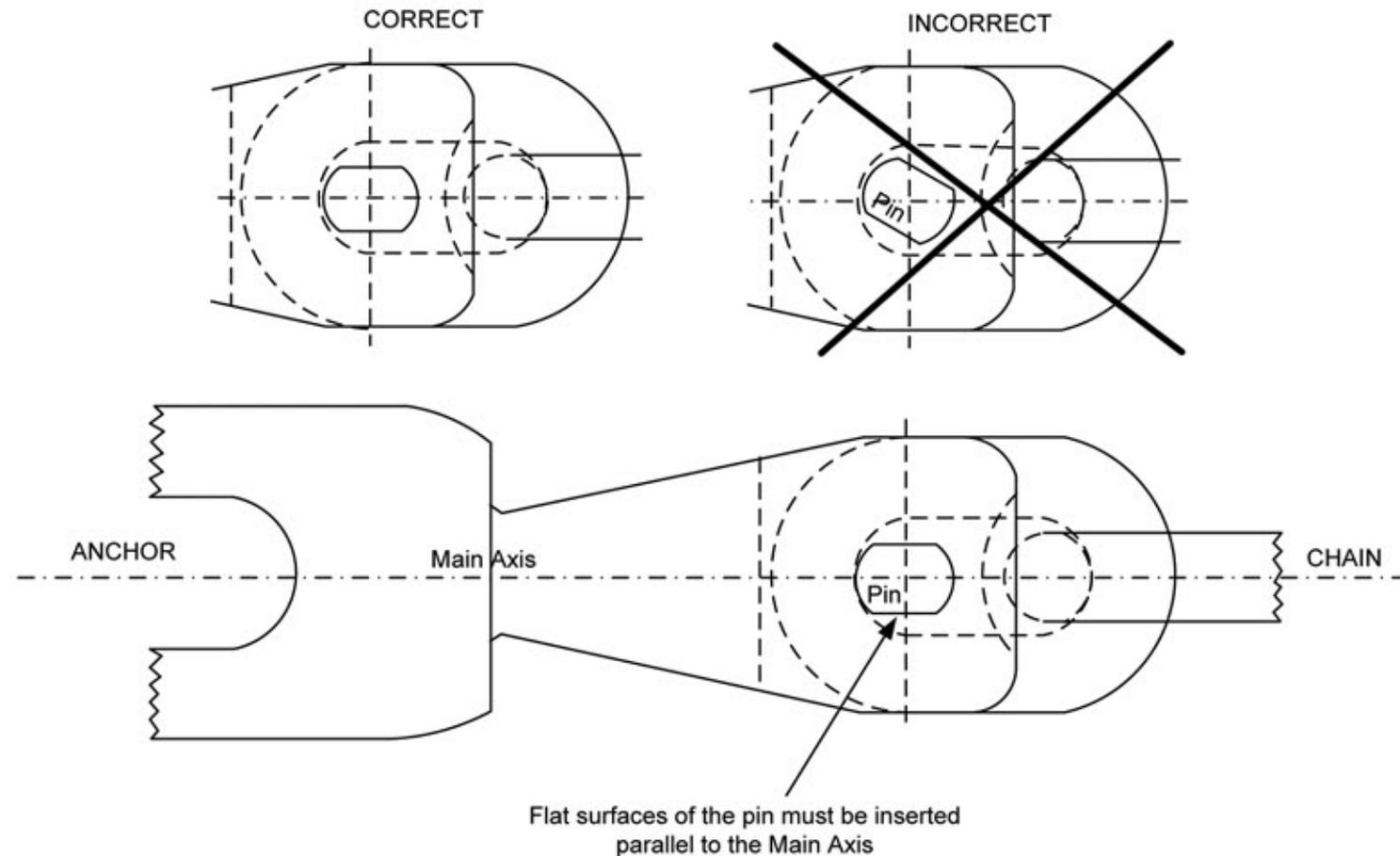
- Becoming colorful: While, it is in use, swivel can get in touch with some mineral sand mixtures. If we stay on anchor for a long time in such a place, stainless steel can react with it and it can become colorful. This is also only a surface problem and it doesn't cause any security problems and it can be cleaned by any kind of stainless steel polisher. Another very similar fouling on the swivel can take place on sea bottoms polluted with diesel fuel. It can easily be cleaned by detergent.

- Surface looking as covered with whitewash: When the swivel is used together with galvanized chain, minerals in sea water can settle on the stainless steel surface and it looks as whitewashed. It can easily be cleaned by any kind of acidic liquid such as lemon water, vinegar or sink opener.

- Stiffness on the ball : ULTRA Flip Swivel's ball is Teflon ring joint. It can even work when it is too dirty. However, using grease on ball joint from time to time helps it work better. You should use water resistant lithium base grease. However, you shouldn't use grease at any case on ULTRA Roller Bearing Swivels.

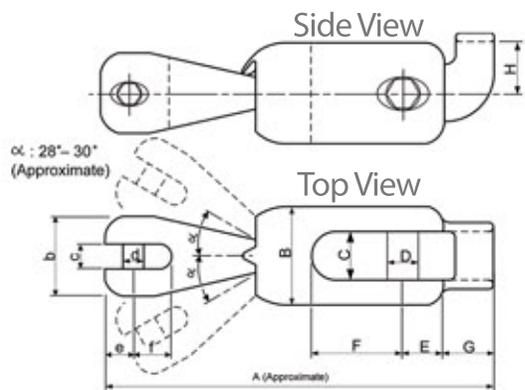


(*) Teflon, Du Pont ürünüdür.



ULTRA Flip Swivel

ULTRA Flip Swivel Selection Table



Type #	Chain Diameter		(Inc. PTFE) Approx. Length A mm	Chain Part Dimensions (mm) b x c x d x e x f	Anchor Part Dimensions (mm) B x C x D x E x F	Flipping Bridge Dimensions G x H	Breaking Load		MAX. NON ULTRA ANCHOR WEIGHT kgm
	mm	inch					kgf	lbs	
UFS 06	6	1/4"	121	25 x 7,6 x 7 x 9 x 11	35 x 16 x 11 x 13 x 31	14 x 17	3315	7308	13
UFS 08	6	1/4"	147,5	30 x 9,4 x 9 x 11 x 14,5	40 x 19 x 13 x 16 x 36,5	18,5 x 20	5630	12410	20
UFS 10	8	5/16"	168	35 x 11,6 x 11 x 13 x 17	45 x 21 x 14,5 x 18 x 40	21 x 22,5	8540	18830	32
UFS 13	10	3/8"	211,5	45 x 15,2 x 14,5 x 16,5 x 23	55 x 26 x 18 x 23 x 51,5	26,5 x 30	17510	38600	61
UFS 16	12	1/2"	250	53 x 18,2 x 18 x 20 x 27	65 x 30,6 x 22 x 27 x 59	33 x 36	28950	63820	106
UFS 20	16	5/8"	309	65 x 23 x 22 x 26 x 34	80 x 38 x 26 x 32 x 72	40 x 40,5	42200	93030	200
UFS 26	20	3/4"	308 (Without Bridge)	80 x 30 x 26 x 33 x 43	100 x 48 x 32 x 40 x 77	(No Bridge)	57900	127640	380

* "MAX. NON ULTRA ANCHOR WEIGHT" should only be considered for other anchor applications rather than the ULTRAnchor.

UltraMarine

Warranty : All ULTRA Swivels are supplied with a standard three year warranty.

Certificate : ULTRA Flip Swivels received the Proof Load Test certificate of Turkish Lloyd.