



Hurricane Anchor System Guidelines

Congratulations on your purchase! You have purchased the finest Storm Anchoring System available for your boat. We, at Colligo, have come up with some usage guidelines to ensure that you will be getting the most from your Storm Anchoring System.

Recommendations

1. The Hurricane Anchoring System is designed for 3 anchors, we do not recommend using any less or more than 3 anchors. Size anchors appropriately for your boat. Size chain appropriately for your boat. The bigger the better here is appropriate.
2. We recommend using all chain from the anchors to the triple bridle plate (with 3 shackles), connecting the chain directly to the shackles. Chain from the anchors to the triple bridle plate is very important. In a storm, the anchors may move and may not maintain a sufficient angle between the other anchors and this could allow the chains to rub together. If rode was used from the anchors, chafe could result with a potential rode separation. Use at least 10/1 scope on your anchor chain/rode depending on local conditions. This is measured from each anchor to the anchor system, not including the rode. If you are going to experience large waves than more than 10/1 is recommended. The more scope the better here is appropriate. Attach your chain to the shackle on the bridle plate using at least a 3/8 inch shackle, this is large enough to go around the body of the 5/8 inch shackle on your system.
3. On the boat side of the system, we recommend using nylon and preferably double braided nylon lines. Nylon rope has superior stretch characteristics which will minimize impact loading on your boat and the anchor gear. Double braided construction gives another layer of chafe protection- the inner core of the line is what provides the majority of the strength. The bridle plate is designed to maintain separation of the lines to the boat at the plate, minimizing chafe on the lines.
4. Use varying lengths of chain to each anchor. This is in case the anchors drag and align together. The varying lengths of chain will help to keep the anchors independent and untangled.
5. Use properly sized mooring lines to your boat from the system. See your local chandlery for suggestions here based on the local conditions. The Hurricane Anchor System is designed for up to 1 inch lines.
6. Use correctly sized cleats to your line size. We do not recommend placing an eyeloop over the cleat, always use a cleating hitch on a cleat. Placing an eyeloop over a cleat relies on the quality of the splice to hold your boat.



7. Use lots of chafe guard on your boat at potential chafe areas on your lines. After Hurricane Marty in Mexico we observed chafe at the lines on the boat as the number one reason for boat loss from moorings.
8. Use a mooring ball or float for setup only. Do not leave a ball or float attached to the system. More hardware means more variables and greater chance of fouling equipment. Do not add any other hardware to the system other than is listed in this guideline.
9. Tighten all shackles with the proper sized wrenches. Seizing is a secondary precaution against pin separation, the pins need to be tightened securely.
10. Seize all pins securely with monel wire. When seizing check for potential rub points that will cut or crush the seizing wire. Make sure the seizing wire is wrapped around the shackle or swivel in an area that will not cut or crush the wire.
11. If you have purchased the safety shackles make sure the nuts are tightened with the proper sized wrenches. Insert the cotter pins and bend both sides of the pin ends.
12. Greasing the pivot pin on the swivel will help to insure longer life of the swivel.

Setup

Conditions in anchorages vary tremendously. Wind speed, wind direction, wave height, wave direction, are all variables that need to be taken into account before setting up your hurricane anchor system.

If the wind direction is known and predicted to be constant then set the anchors at the 9 O'clock, 12 O'clock, and 3 O'clock positions with the boat at 6 O'clock. Your longest anchor chain and largest anchor should be at the 12 O'Clock position.

If the wind direction is not known then set the anchors at 10 O'Clock, 2 O'clock, and 6 O'Clock.

In either case, set the anchor system so that it is about 5 feet above the seafloor. If the system is too low here it gives more opportunity for chain to line interference problems. Too high and you have too little nylon line length to absorb the impact loads of wind and waves. Adjust according to local conditions, to the type/size of your anchors, and length of chains.

Perform a trial setup of your Hurricane Anchoring System before any storm to work out all of the variables.

Set up your system well before any storm.

There is some interesting information on using a similar anchoring system at this website:

<http://www.southwindssailing.com/articles/9906/InstantHarbor.shtml>



Safe Working Loads

Swivel	8,000 lbs
Shackles	6,500 lbs
Galvanized Bridle Plate	12,000 lbs

****Never exceed the safe working load of the system components!**

Again congratulations on the purchase of your new Hurricane Anchor System!

If you have any questions please visit our web site or contact us at

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The information in this document is meant as a guideline only. The function of the Hurricane Anchor System is highly dependant on the methods of installation and Colligo Engineering and Design, LLC cannot be responsible for an improperly installed system.. Conditions in anchorages vary tremendously and Colligo Engineering and Design cannot be responsible for load conditions that exceed the safe working load limits of the system shown above. The Safe Working Load of the system must never be exceeded for proper function of the Hurricane Anchor System.

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