



ROCNA[®]

SWIVEL



User's Guide

en

& Lifetime Warranty



Guide de l'utilisateur



fr

& Garantie à vie



Peter Smith



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Please read this guide carefully. It is important to the correct and secure use of your swivel.

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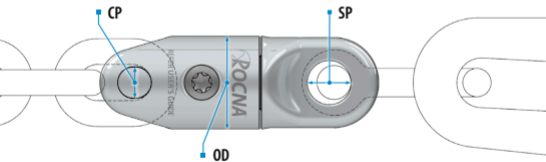
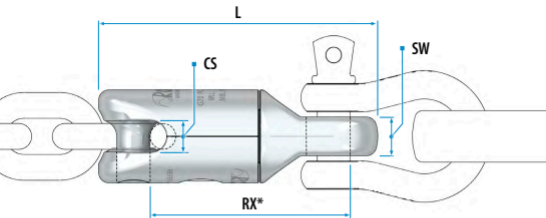
Veillez lire attentivement ce guide. Il est important pour l'utilisation correcte et sécurisée de votre émerillon.

Specifications & Dimensions

CP: Swivel chain pin size	TBA	12 mm	TBA	TBA
CS: Chain slot		12.5 mm		
SP: Shackle point		17 mm		
SW: Shackle end width		15 mm		
L: Length		109 mm		
OD: Diameter		36 mm		
RX*		78 mm		
Compatible chain, mm		10, 11 (max G70)		
Compatible chain, Imp. / US		3/8" (max G70)		
Weight		540 g		
Screw tightening torque		20 N•m (15 lbf•ft)		
WLL (Working Load Limit)		3 460 kgf 7 640 lbf		
MBL (Minimum Breaking Load)		13 800 kgf 30 500 lbf		

* RX: Rode extension length is the distance by which the addition of the swivel extends your chain.

Steel type (swivel bodies): G70 duplex stainless steel



Chain & shackle compatibility

Chain							
Metric	G3/30 / 'L'	G4/40/43 / 'M'	G7/70	US/Imp.	G30 / 'Proof Coil'	G43 / 'High Test'	G70
mm	MBL kgf	MBL kgf	MBL kgf	nominal	MBL kgf	MBL kgf	MBL kgf
10	5,099	6,424	11,217	3/8"	4,808	7,348	11,975
11	6,424	7,750					
Other sizes TBA							

Non-exhaustive chart to compare chain & shackle options, arranged by compatibility. Other sizes & steel grades are available.

Dimensions and strengths are listed as examples only.

MBL (Minimum Breaking Load) figures only, noted for simplicity. All MBL converted to kgf for comparability. 1 kgf = 9.8 kN.

Rules or regulations not accommodated by this chart may apply to you.

Metric: figures per selected manufacturers.

US/Imperial: figures per ASTM A413/A413M.

Rocna Swivel			Shackles					
Chain pin mm	MBL kgf	Shackle pin hole, mm	Body/nominal		Pin		G6 / 'S'	G8 / 'T'
			mm	US/lmp.	mm	US/lmp.	MBL t	MBL t
12	13,800	17	10	3/8"	11	0.44"	6	9
			11	7/16"	13	0.50"	9	12
			13.5	1/2"	16	0.62"	12	16.5
Other sizes TBA								

For swivel dimensions, refer to **Specifications & Dimensions** (previous page).

1 t (metric tonne) = 1,000 kgf
Shackle strengths per selected manufacturers.

High resistance shackles listed as most restrictive examples.
Other shackles are compatible.

Guide only. Always check actual ratings. Never exceed manufacturer rated Working Load Limits.

Installation

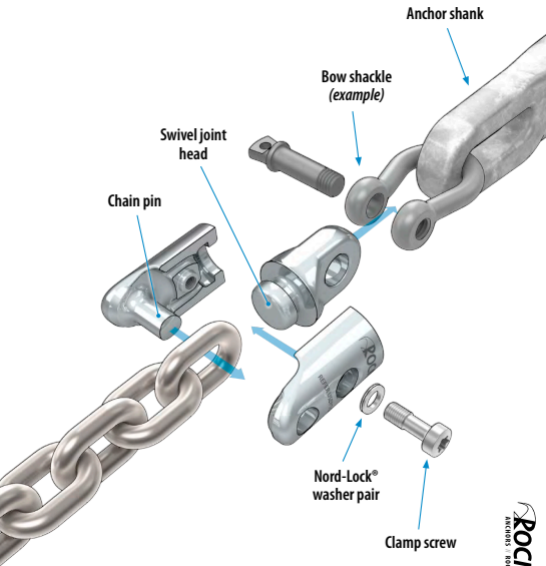
Attaching the swivel to your anchor

The Rocna Swivel is designed to connect to your anchor using a shackle. This permits adequate articulation in response to veered loads applied to your anchor.

⚠ *We advise against the use of any swivel attached directly to the anchor shank. Sideways forces may damage the swivel at loads below its rated strength, bend the anchor shank more easily because of the added leverage, or interfere with the anchor's performance.*

We recommend a bow shackle with the body of the shackle looped through the anchor shank attachment point. Pass the shackle pin through the attachment point on the Rocna Swivel. Check the shackle can articulate freely in all directions on the anchor shank.

i If your anchor shank cannot accept a shackle body, use a second shackle and connect them body-to-body.



⚠ *Shackles with a conventional screw pin must have their pin seized with two turns of stainless steel or Monel seizing wire, lest it work its way loose.*

Select the size of shackle required to match or exceed the rated breaking strength of your chain. We recommend the use of proof tested shackles. Stainless steel shackles are popular but care of quality should be taken.

To match the strength of higher grade chains like G70, you may find a shackle of sufficient strength is too large to fit the chain. The Rocna Swivel permits you to bridge the two as it is compatible with larger size shackles and stronger than the chain.

i For more information, please consult the article on shackles on the Rocna Knowledge Base.

Attaching the swivel to your chain

The chain pin is a solid part of the Rocna Swivel. Insert the pin through the end-link of your chain, place the swivel joint head in its cavity, and join together the two chain-side bodies.

Matching anchor rode components

Your anchor rode is only as strong as its weakest link. When adding different components, be aware of the rated breaking strengths of every item. These are often published as “MBL”, “MBF”, or “MBS” (Minimum Breaking Load/Force/Strength).

Sometimes only the “WLL” or “SWL” (Working Load Limit / Safe Working Load) is stated, with a ratio relative to MBL such as 4:1 or 6:1. When this ratio across components is inconsistent, it may be easier to compare breaking strengths instead.

i It is standard for marine chain to be rated with a MBL to WLL ratio of 4:1 or higher, but much chain is sold with wildly varying ratios. American “High Test” chain is 3:1. Some manufacturers now market chain with a ratio of only 2:1. Relying only on advertised WLL can be misleading.

The clamp screw

The Nord-Lock® locking washer

The Rocna Swivel uses a Nord-Lock® washer to lock the clamp screw and prevent it loosening during use. It consists of two washers making a pair.

The washer pair must be present and the screw correctly tightened for your swivel to be secure.

The Nord-Lock washer may be re-used unless badly worn or damaged.

⚠ *The Nord-Lock washer supplied with your swivel is made from a special steel. Do not replace it with alternatives.*



Anti-seize

The clamp screw threads and the locking washers benefit from the application of nickel-based anti-seize paste. Your Rocna Swivel comes from the factory with a suitable application to start with. For future use, re-apply as necessary (refer "Servicing & maintenance"). The absence of anti-seize can cause galling damage and affect the correct tightening of the screw.

Tightening the screw

Install the Nord-Lock® washer pair under the screw head. The serrations (fine teeth) on both of the washers must face away from each other, and the cams must face toward each other.

Insert the screw and turn clockwise gently by finger until the screw stops against the swivel. Do not try to tighten at all. Note the rotational position of the screw.

Using the supplied key or a square-drive bit with an appropriate tool, tighten the screw no more than 60°.



(For torque specifications, please see the next page).

Tightening the screw with a torque-wrench

You may instead tighten the screw according to the following torque values:

Swivel (chain pin size)	Drive	Torque
12 mm	T45	20 N•m / 15 lbf•ft

⚠ *Do not over-tighten the screw.*

Disassembly

Using the supplied key or square-drive bit with an appropriate tool, turn the screw counter-clockwise to loosen it.

- i** The presence of the Nord-Lock® washer will necessitate greater force than was used during tightening, until the wedging cams are overcome. This is normal. Hold the tool securely.

Separate the swivel bodies in reverse of assembly.

- ⚠** *Be careful not to drop or lose the screw or either of the Nord-Lock washers. Carefully retain for re-installation.*

Lost or damaged screw or washers

- ⚠** *The clamp screw is specially designed for your swivel. Do not replace a lost screw with "off-the-shelf" hardware even if it fits.*

You may obtain replacement parts from your supplier or directly from us. Please refer to "Contact us".

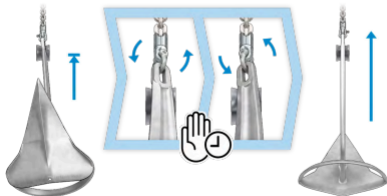
Use

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The Rocna Swivel permits your chain and rode to remain straight and un-twisted during anchoring.

If your anchor self-rights on your bow roller upon retrieval, it also reduces resistance from chain-twist.

When recovering your anchor onto a bow roller, take care to ensure the anchor safely transitions onto the roller in the desired orientation. It may be advisable to halt the windlass as the shackle or anchor shank first meets the roller in order to give the anchor time to rotate, then proceed slowly and carefully until it is stable.



⚠ *Do not subject the swivel to loads exceeding the rated WLL (Working Load Limit). Ensure that the swivel can always articulate freely and forces are always applied inline with the axis of the swivel.*

Looking after your swivel

The Rocna Swivel is built from a high quality stainless steel which is intended for use in seawater, even for permanent immersion. Nevertheless all stainless steel rewards some best practices.

Cleaning

Clean with fresh water when possible. Stainless steel benefits when oxygen is available to the surface. Do not stow the swivel in damp conditions or in persistent contact with water-absorbent materials such as cordage or accumulated soil. Stowage should be as dry as possible, permit air circulation around the swivel, and allow drainage of any water.

The Rocna Swivel features flushing drains which during normal anchoring help to keep the interior of the swivel joint clean. During casual cleaning of your

anchor rode (e.g. hosing mud off your chain) you may make use of these by directing water between the chain end-link and one drain hole – water will be directed out the other drain, flushing the space.

- i** **Stubborn obstructions or dried mud may require disassembly to clean properly.**

Maintaining the polished stainless steel finish

We finish stainless steel products with a process called “passivation”. During passivation a protective chromium oxide layer forms on the surface. This layer is durable and usually self-healing, but it may be physically or chemically damaged.

- Avoid any contact with regular steel or rust. Rusty particles can contaminate the stainless steel and rust spots may develop.
- Keep the swivel free from organic materials; when anchoring in brackish water, the risk of corrosion will increase through sediment, micro-organisms, and biofouling.
- The swivel’s smooth surface finish is important. In the event of light scratching, use a stainless steel polish to restore. Avoid the use of any cleaners with chlorine or ammonia. In the event of deeper scratches, re-passivation of the area may be

required. A number of products contain citric, oxalic, or phosphoric acid which are effective at cleaning and passivation.

Servicing and maintenance

The Rocna Swivel is designed to be user serviceable. It requires little maintenance. Nevertheless we recommended routine checks.

Casual checks (without disassembly):

- ▶ Inspect the swivel for obvious signs of damage. Look for unexpected gaps between components. Verify the pin-end is flush with the outside surface of the body. Check the chain articulates freely. Check the swivel joint rotates smoothly.
- ▶ Check for any signs of corrosion.
- ▶ Check the screw is tight. You may monitor this by marking a line across the screw head and the swivel body to check it does not move between inspections, or you may re-apply the torque specified above using a torque wrench to satisfy yourself the screw does not move.

Full service (disassembly):

- Disassemble the swivel and remove all attachments. Check for indications of damage as above. Check the chain bodies come apart and re-assemble easily. Clean with fresh water.
- Using a solvent cleaner and rag or small brush, remove remnant anti-seize from the screw, the female threads on the chain body, and the Nord-Lock washer pair. Rinse with fresh water. Let dry.
- Inspect the screw and the Nord-Lock washer pair for any damage or wear. Check the screw drive recess and the threads. Replace screw and washer pair if needed.
- Re-apply nickel based anti-seize to the threaded section of the screw, to the underside of the screw head, and to the opposite (under) side of the Nord-Lock washer pair.
- Re-assemble the swivel (refer "Installation").

Lifetime Manufacturer's Warranty Against Defects

Coverage

CMP Group Ltd. warrants that the product will be free from material defects and workmanship under normal use for the lifetime of the product from the date you purchase the product. This includes coverage for any bending or deformation of the swivel, provided the rated WLL (Working Load Limit) as published by us and marked on the swivel was not exceeded.

Exclusions

Coverage does not include:

Faults and damage caused by using the swivel outside of the Product Specifications and/or the User's Guide;

Faults and damage resulting from general wear-and-tear;

Faults and damage where modifications to the swivel have been undertaken by any third party not authorized by us;

Faults and damage caused by failure of any accessory not approved by us;

Faults and damage where unapproved replacement components have been used (screw, washer, or other);

Faults and damage caused by product maintenance and repair services by any third party not authorized by us;

Faults and the repair of damage to property (including the swivel), and personal injury arising from the act, error, fault, neglect, misuse or omission of any user of the swivel;

Repair of damage to property (including the swivel), and personal injury due to external causes, including accident, abuse, misuse, failure to perform preventative maintenance and/or repairs;

Repair of damage to property (including the swivel), and personal injury caused by the operation of the swivel other than in accordance with recommended operating procedures as set out in the User's Guide or otherwise than in accordance with the directions or recommendations of the manufacturer.

Warranty Fulfilment Options

Where the swivel is faulty or damaged CMP will repair, replace, provide a credit or refund with proof of purchase.

Claims Process

If you have a warranty claim, please download the Warranty Claim form at rocna.com/lifetime-warranty/, fill it out as fully as possible, and submit to support@rocna.com. One of our customer service personnel will be in touch to determine the best means to address your concerns.

Disclaimer

Your use of the products must be strictly in accordance with the User's Guide so that the swivel is not used for any purpose for which it is not suitable. You shall solely be responsible for using all necessary skill and care in handling, storing, maintaining, and using the swivel. Any information about the swivel supplied by Rocna is provided for guidance only and nothing contained herein should be

construed as a recommendation to use any particular product in the range of products. You shall make your own determination as to its fitness or suitability for your purposes prior to use. The User's Guide can be found on Rocna's website Rocna.com.

Limitations of Liability

Warranty is non-transferable and applies only to the original purchaser.

CMP is not liable for incidental, indirect, or consequential damages arising from the use of the product. This warranty gives you specific legal rights. You may also have other rights with vary by jurisdiction. Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so these limitations may not apply to you.

Except as expressly provided for in this Warranty, Rocna's liability to you whether in contract, tort or otherwise for any loss, damage or injury arising directly or indirectly from any defect in or non-compliance of the products or from any other breach of Rocna's obligations under this Warranty shall not exceed an amount equivalent to the price invoiced by the reseller for the faulty products or the products giving rise to the claim.

How to Contact Us

Tel +1-604-940-2010
E-mail support@rocna.com

CMP Group Ltd.
7733 Progress Way, Delta, B.C. V4G 1A3, Canada

Visit us on the internet: **Rocna.com**

Maybe you already use a Rocna or Vulcan anchor. If not, we would like to invite you to consider one. Peter Smith – designer, boat-builder, and lifelong sailor – has developed them into the world's best and most versatile anchors. We are confident you would experience a substantial improvement in anchoring performance and reliability.

Please also take a look at the Rocna Anchors Knowledge Base – a collection of information and material relating to anchors, accessories, and using them: **kb.rocna.com/kb**

Get to know Peter better at his personal website:
www.petersmith.net.nz

Disclaimer & Intellectual Property

The descriptions and guidelines shown in this literature should be used as a general reference only. For any further technical information please contact our Technical Service. The contents of this guide are based on the latest information available at the time of publication.

CMP / Rocna Anchors assumes no responsibility for the accuracy of the information contained herein. Product specifications are subject to change without notice.

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