

Rocksteady



Subsea mooring connector

Rocksteady is a self-locking subsea mooring connector that guarantees faster installation and reliable disconnection.

DNV & ABS approved

We have designed, break-load tested, fatigue tested and durability tested to qualify capacities up to 3,000t MBL.

Versatile

Used in-line, as a platform or anchor connector; Rocksteady can be supplied with integrated bearings for high oscillating loads; or interface with chain, shackles, rope sockets, or any subsea structure or foundation.

Reliable connection

Proven offshore high speed latch (3m/s), high angle tolerance, pull-in cable, and remote disconnect under load, Rocksteady will connect and release in all weather conditions.

Built tough

Rocksteady's locking mechanism is simple and all moving parts are recoverable. All load path components are full forged with field proven coatings and seals to protect the internal components from corrosion and debris ingress. Rocksteady has unparalleled fatigue capacity and the unique capability to accommodate bending, tension, compression, shear and torsion loads.



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Manufacturing and Design		
Codes	DNV OS E301, DNV OS E302, ABS #39 Mooring Chain, API RP A203	
Material	DNV OS E302 forgings, 350HV10 max	
Mechanical Design	ISO 13628-7 (elastic plastic FEA), DNV RP C203	
Testing	Minimum break load (MBL), proof load, volumetric and surface NDT, 3.1 certs	
Applications		
Mooring	Permanent mooring, temporary rig mooring, remote emergency disconnection Offshore floating wind platform connector, in-line connector, anchor connector Tidal and wave power applications, power-take-off unit tethering	
Lifting	(refer to Rocksteady lift tool datasheet)	
Operations		
Installation	Freely guide with funnel, central pull-in line, Rocksteady tension tool	
Control method	Automatic lock, external hydraulic tool, chaser or rope pull to release, visual indication	
Control options	Preloaded lock (bending applications) Hydraulic with ROV hot stab override Electric motor (QD option), lock proximity sensor	
Tested installation cases	High speed latch (3m/s) Release under load (100% capacity – QD model) Fatigue tests (10 x chain fatigue life) Offset stab, 15° angled stab Connect / disconnect endurance (100 cycles)	
Connector sizing		
Load rating (MBL)	t	Enter an MBL up to 3,000t to calculate size and weight of the standard in-line connector. Rocksteady is available in a variety of form factors and integration options, please contact SRP for detailed design data.
Connected Length		
Diameter		
Weight in air (male)		
Weight in air (female)		



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