

MORGRIP CLIP CONNECTORS

PRODUCT GROUP

MORGRIP CLAMPS & CONNECTORS



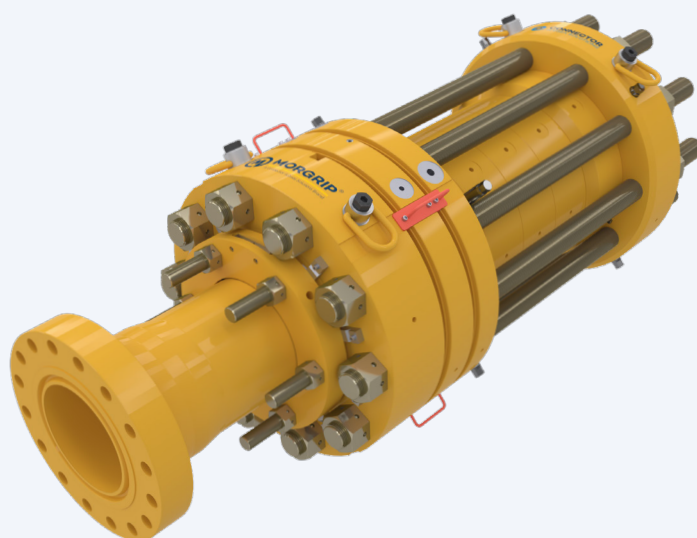
PRODUCT DESCRIPTION

The MORGRIP Clad & Lined Pipe (CLiP) Connector is the only DNV-GL Type Approved method to permanently repair pipelines which are clad or lined with corrosion resistant alloy (CRA). These pipeline systems cannot be repaired in the conventional manner as the pipe media, if allowed to bypass the CRA, will penetrate the base metal leading to failure.

Developed under a joint industry project with 2 major operators and witnessed throughout by DNV-GL in accordance with RP-A203 Technology Qualification, MORGRIP CLiP provides a reliable, repeatable, permanent repair that does not prevent pigging operations or other long term inspection and maintenance programs.

Deploying an End Seal Module that is fitted to conventional MORGRIP designs, including onshore, topside, subsea and remote deepwater connectors, the technology uses graphite seals that engage onto the pipe inner diameter, ensuring continuation of the CRA lining.

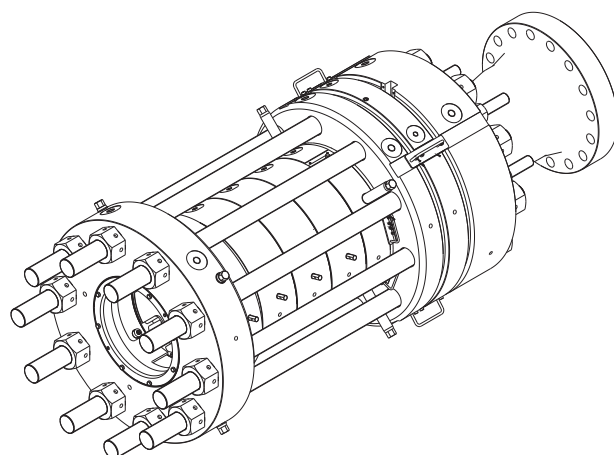
MORGRIP CLiP Connectors, ideal for emergency repair, planned shutdown or contingency stock, are based on over 30 years of MORGRIP technology and application. Quicker, easier, safer and significantly cheaper than complex hyperbaric welding or pipeline replacement.



CAPACITIES

Pipeline size	10" to 26"
Material	Carbon steel pipeline clad or lined with corrosion resistant alloy
Temperature	-40degC to 149degC
Working Pressure	Up to 364Bar

For applications outside of this scope, bespoke engineered solutions are available.



CONNECTOR SUBSEA SOLUTIONS

Head office: Kokstadflaten 17, 5257 Kokstad, Norway
Locations in: Brazil, UK, Croatia & Bosnia

www.connectorsubsea.com // mail@connectorsubsea.com

+47 99 70 11 11 // [in](https://www.linkedin.com/company/connector-subsea-solutions) connector-subsea-solutions

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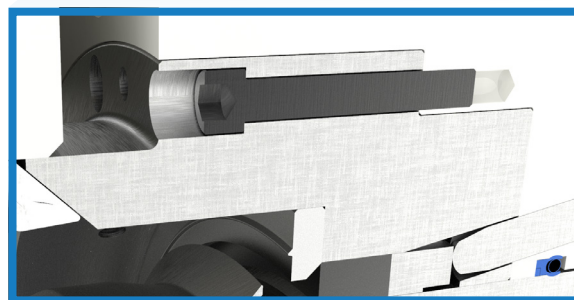
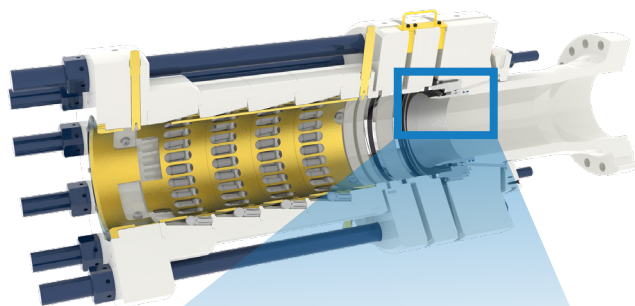
INTERFACES

Activation	Bolt Tensioners
Gripping Technology	Ball & Taper
Seal Material	Dual Graphite
Back Seal Pressure Test	Yes
Diver Installation	Rigging with buoyancy subsea or subsea lifting frames
Remote Installation	Connector installation frame

ADDITIONAL INFORMATION

Design code	DNVGL-ST-F101/ F113 Pipeline Repair ASME BPVC VIII Div.1 ASME B31.3 API 5L Linepipe specification ASME BPVC VIII Div.2 on request
Coating	Jotamastik 87 or Interzone 954 as standard
Maintenance	Not required post installation
Packing	Steel shipping frames

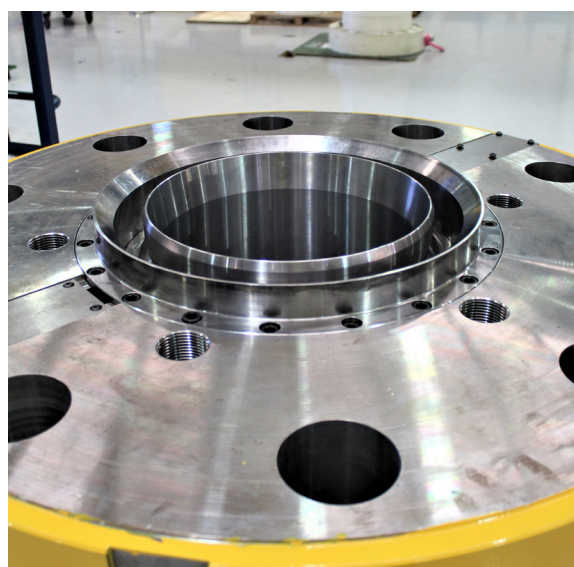
End Seal Module featured in standard
MORGRIP Subsea Flange Adaptor



End Seal Module that enables graphite seal activation
on pipe end



01 // 16in MORGRIP CLiP Connector



02 // End Seal Module mounted in Adaptor Plate



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