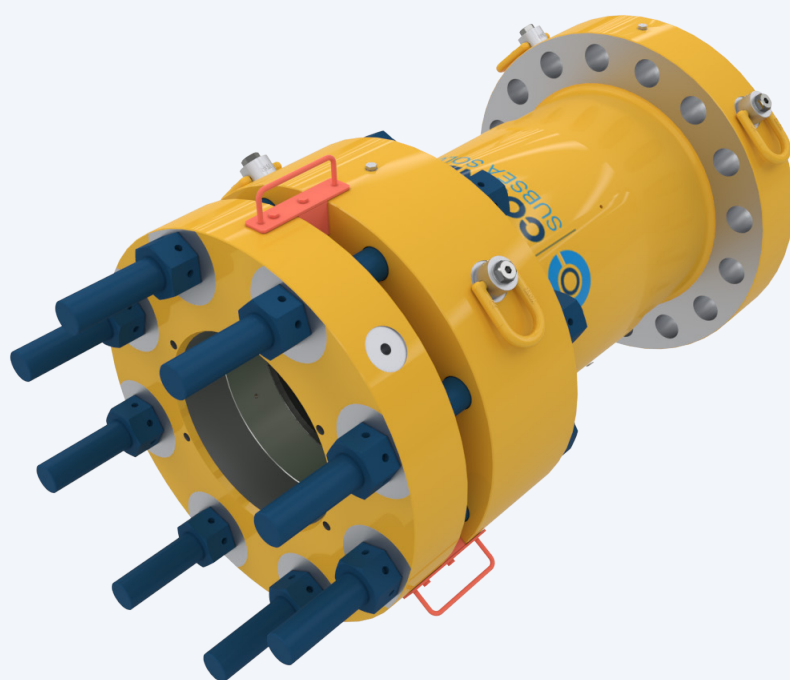


MORGRIP MORSMART

SUBSEA DIVER INSTALLED CONNECTORS

PRODUCT GROUP

MORGRIP CLAMPS & CONNECTORS



PRODUCT DESCRIPTION

MORGRIP MORSMART, our standardized subsea diver installed connector enables subsea pipelines to be terminated in an standard ASME/ANSI Class 600, 900, 1500 & 2500 flange without the need for hyperbaric welding or hot work.

Designed, manufactured and tested to our high quality standard, these units deploy a compressed elastomeric seal system and a collet gripping system to enable suitable application to a wide range of pipeline sizes, wall thicknesses and pressures.

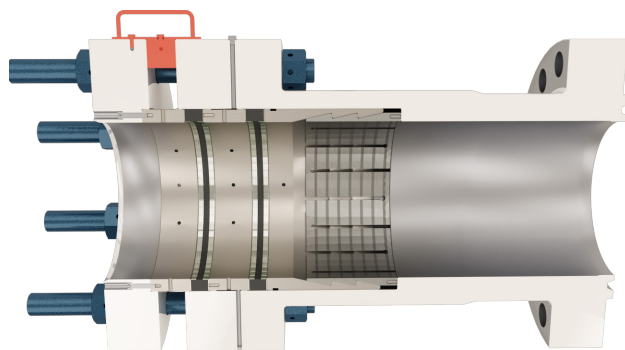
Through standardizing design and production, we are able to significantly reduce cost, increase stock and mitigate long delivery schedules.

Complete with external pressure test facilities, length compensation and subsea coating the MORGRIP MORSMART is a quick, easy to install permanent repair solution to subsea pipeline repair & tie-in.

CAPACITIES

Pipeline size	4in to 56in
Wall Thickness	Varies per Pressure Class and NPS
Corrosion Allowance	0.75mm on minimum wall thickness
Length Compensation	0.5 x Nominal pipe diameter
Material	Per API Spec 5L Grades of carbon steel
Temperature	-20degC to 120degC
Working Pressure	Per ASME/ANSI Classes 600, 900, 1500 & 2500

For applications outside of this scope, see our MORGRIP product range of application or customer specific mechanical connectors and clamps.



CONNECTOR SUBSEA SOLUTIONS

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

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MORGRIP MORSMART SUBSEA DIVER INSTALLED CONNECTORS

MORGRIP CLAMPS & CONNECTORS

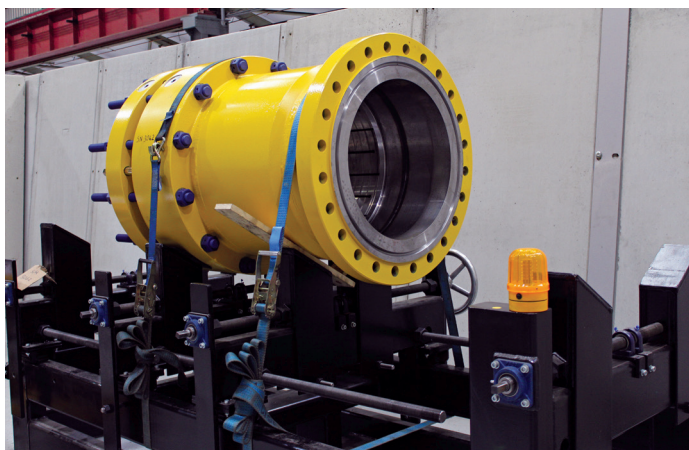


INTERFACES

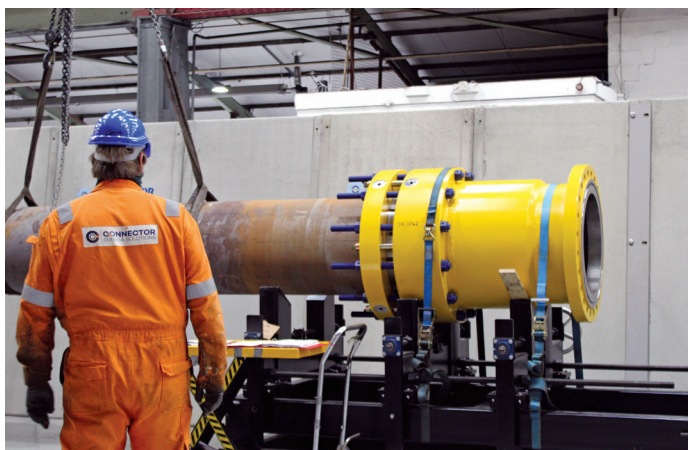
Activation	Single Activation with Bolt Tensioners
Gripping Technology	Collet
Seal Material	Dual Elastomeric
Back Seal Pressure Test	Yes
Installation	Rigging with buoyancy or subsea lifting frames

ADDITIONAL INFORMATION

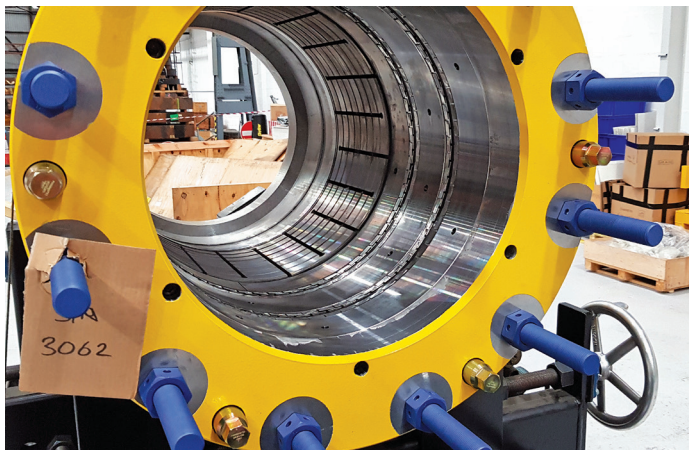
Design code	API 5L ASME B31.3 ASME BPVC VIII Div. 2
Body Material	ASTM A694 Grade F52 or equivalent
Gripper Material	ASTM A29 Grade 4140
Coating	Jotamastik 87, which is NORSOK M-501 System 7B Compliant
Maintenance	Not required post installation
Packing	Wooden Shipping Crates



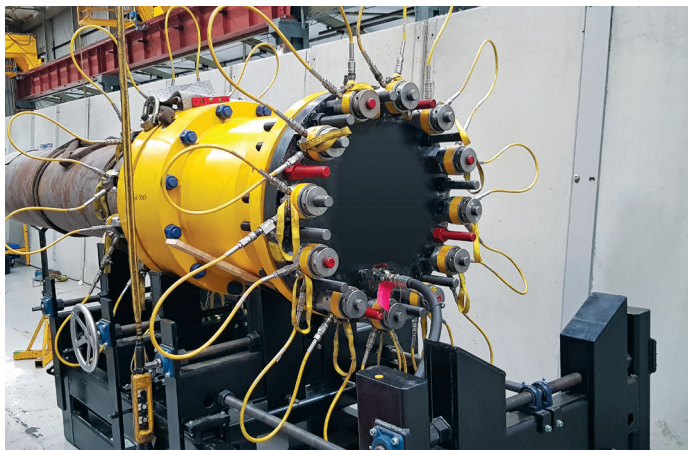
01 // MORGRIP MORSMART



02 // MORGRIP MORSMART Connector during factory acceptance testing



03 // Cross section showing internal grips and seals



04 // Hydro-static testing arrangement


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