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Managing Pressure, Minimising Risk

## **Driving Efficiency by Adopting Mechanical Connectors as a Cold-Work Solution for Permanent Pipe Connection**

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# CHALLENGE: ON-SITE WELDING



## Hot Work Disadvantages

- Risk of fire / explosion
- Requirement to shutdown plant
- Habitat required
- Finite resources / skills
- NDT inspection required
- Additional personnel / accommodation requirements
- Time taken to weld / inspect





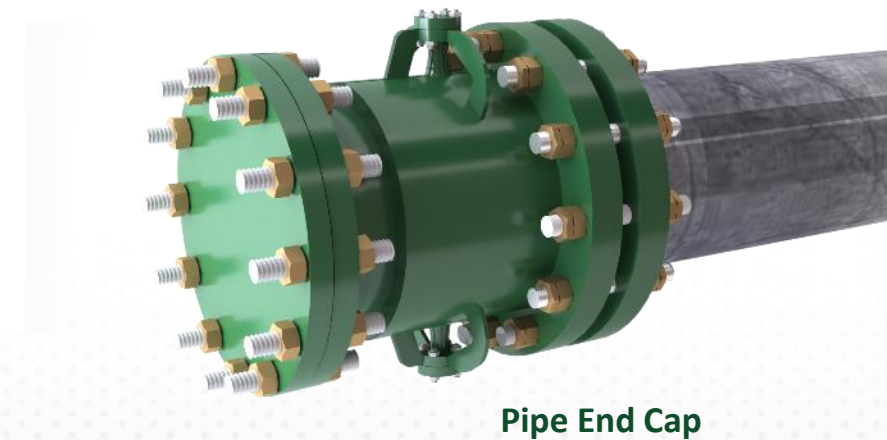
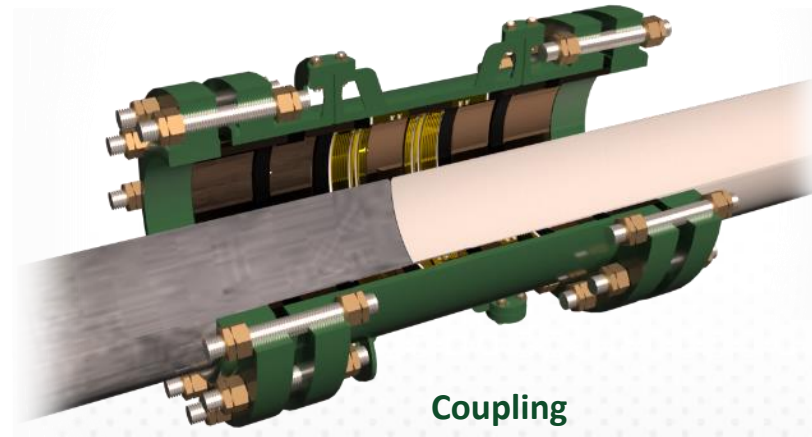
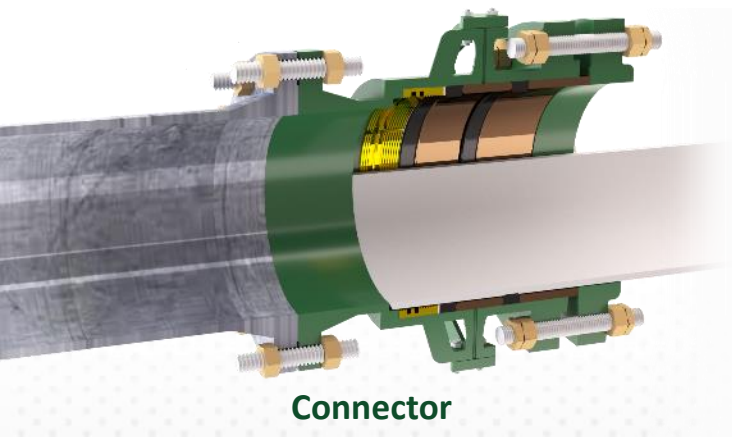
# WELDLESS PIPE CONNECTION



**DNV GL type approved Mechanical Connectors provide a permanent pipe to pipe or pipe to flange connection where welded or hot work options may be undesirable.**

The slipover design and external gripping assembly enables quick and efficient installation, providing cost effective piping repair, tie-in or capping of redundant pipework.

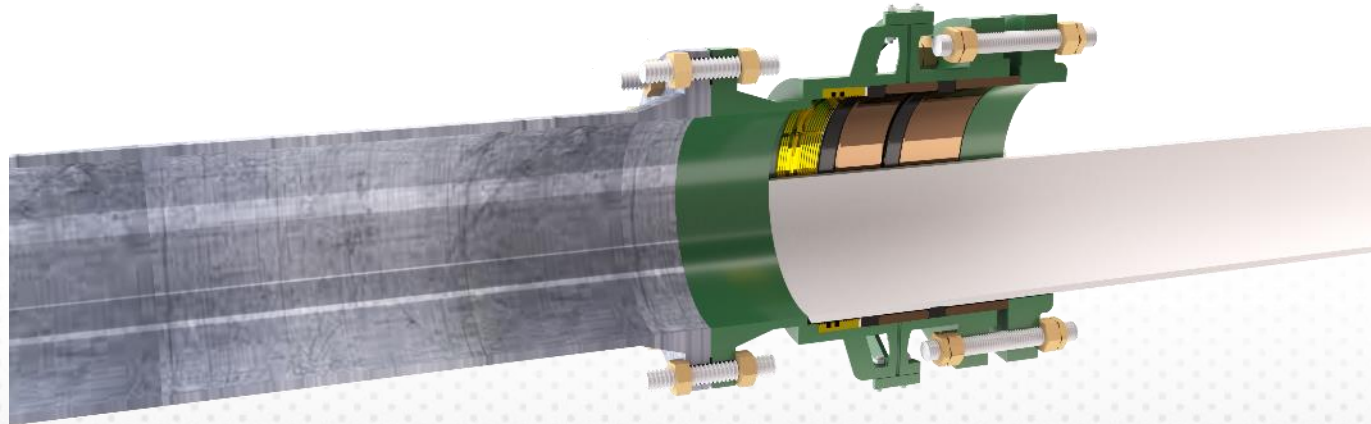
*DNV-OS-F101:2012 Submarine Pipeline Repair and DNV-RP-F113:2007 Pipeline Subsea Repair*





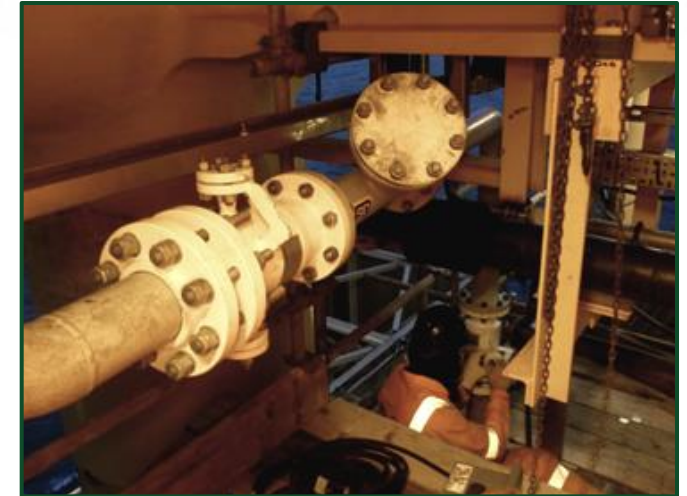
## Mechanical Connector Benefits

- Timely: Significantly quicker to install compared to welding
- Safer: Eliminates hot work
- Cost Effective: Eliminates welding equipment, personnel, habitat and finite resources
- Cost Comparison: A 4" Connector is typically £30,000 cheaper when compared to welding
- External grip assembly applies code compliant connection loads into pipe, avoiding any localised plastic deformation and overstress conditions



## Weldless Connector Key Features

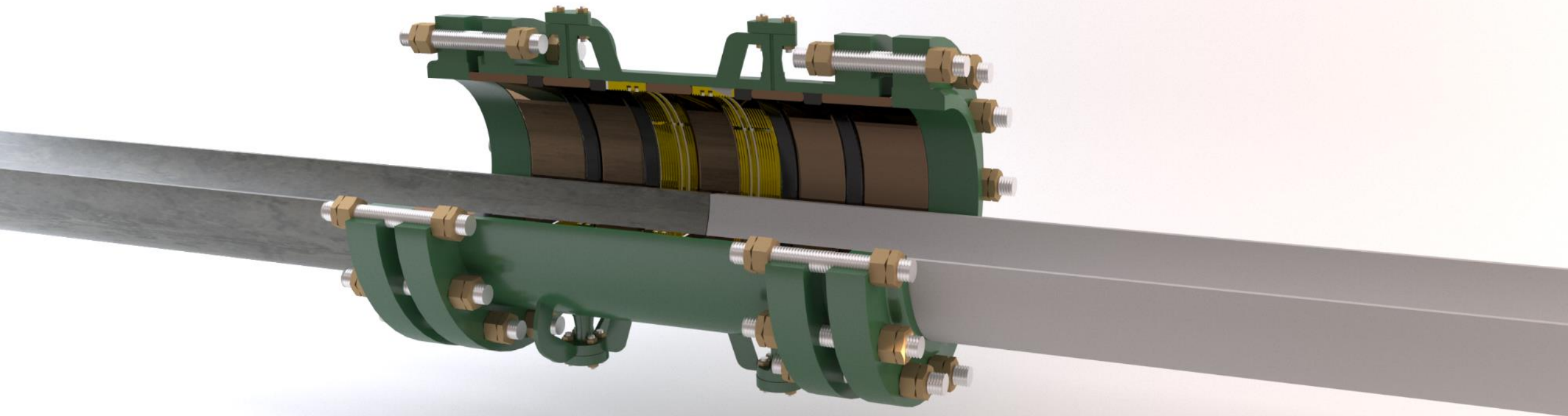
- Sizes 2" to 36" as standard
- Maximum allowable operating pressure: up to 50 bar / 725 psi
- Maintenance free mechanical pipe connection
- Lightweight, fabricated design
- Designed to provide a service life in excess of 20 years
- Integrity is easily verified post installation
- Ports can be used for routine inspection
- Available in exotic materials







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