

#### PCRS – Deepwater Repair Systems



Connection Repair System



Hydraulic Smart Flange Connector



**Diverless Smart Clamps** 

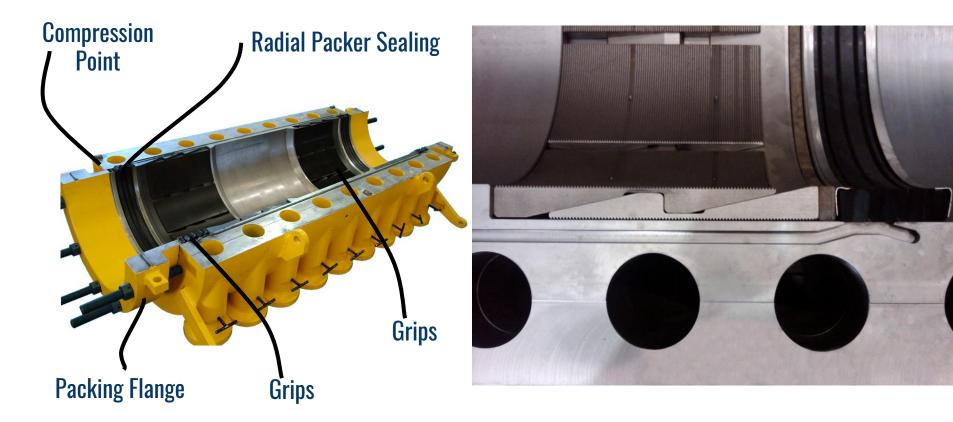


Grayloc® Subsea Remote Connectors

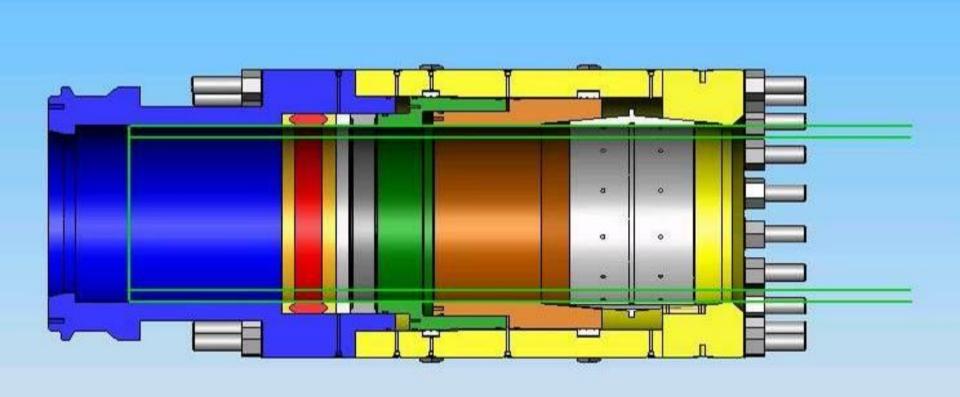
#### SUBSEA PIPELINE REPAIRS



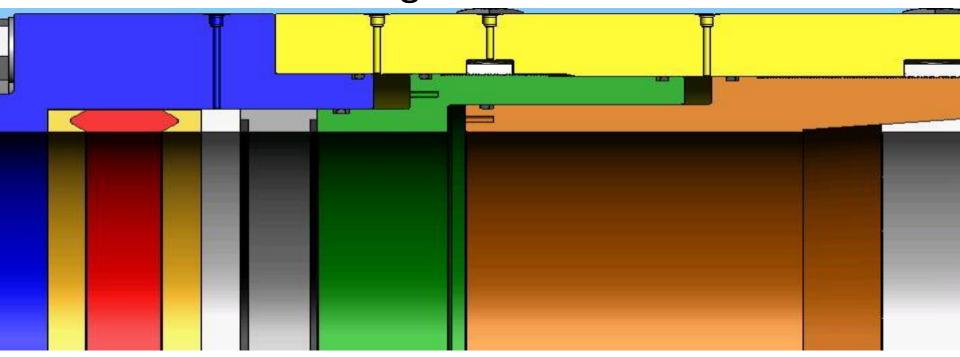
## Pipeline Services Repair Clamp



# Deepwater Applications – Hydraulic Smart



# Deepwater Applications – Hydraulic Smart Flange Connector



## **ROV Tooling for Deepwater Pipeline Repairs**



Pipe Lift Frames



Coating & Weld Seam Removal Tool



Pipe End Preparation Tool



Pipe Cutting Tool (Chop Saw)



Pipe End Check Tool

## Pipeline Repair Systems- Benefits

- Suitable for both Diver and ROV assisted operations
- Quick installation
- Withstand full pipeline axial, bending and torsion loads while maintaining full pressure integrity
- No weldements are required, thus eliminating the associated Weld Procedures and Qualifications and NDT activities

**Pipeline Integrity** 

