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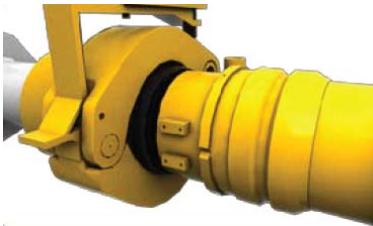
SPECIAL PROJECT INFORMATION SHEET



Project Description	Class 4 to 9,500 N.m Subsea torque multiplier for pipe clamps		
Date created	21 October 2015	Project Number	Q3306 / 3307

INTRODUCTION & APPLICATION

Oil & gas industry application for sub-sea torque multipliers to actuate 12" & 16" pipe clamps. The multiplier will be positioned by an ROV and driven by a standard API Class 4 hydraulic tool. Normal operation output torque 6,000 N.m max. / peak break-out torque 9,500 N.m.



SOLUTION

Sub-sea torque multiplier with common nose / interface for both 12" & 16" pipe clamp actuation. Torque verification kit including 10,000 N.m HE transducer & instrument. Also used as a transport case.



TECHNICAL SPECIFICATION / DATA HIGHLIGHTS

Torque multiplication 5:1 / Input torque 1,900 N.m / Output torque 9,500 N.m max.
API Class 4 receptacle with tool latching features in the top face and bore.
Spring loaded drive with 50mm (nom) female hexagon flank drive & visual engaged / disengaged indicator.
Reaction nose seated visual indicators.
Topside and subsea versions. Subsea version oil filled & pressure compensated for up to 3,000m depth.
Vertical use only, with retractable ROV lifting handle.
Multiplier air weight 61 Kg / Sea water weight 46Kg. Complete kit / case weight <160 Kg.