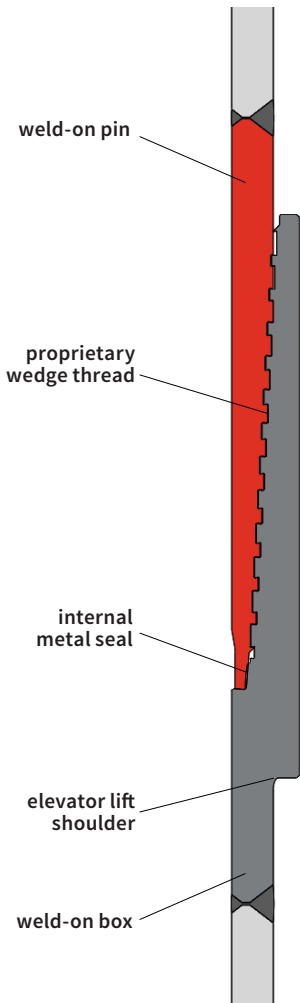# XL Systems 22 x 1.00 X80 XLW-GT Connector

Gas Tight Surface Casing

An increasing number of deepwater casing designs are extending the intermediate strings closer to the reservoir, potentially exposing the surface casing to internal gas pressure. This means that seal performance of the surface casing connectors is extremely important to well integrity; therefore, verification of connector performance ratings through analyses and physical testing is critical to minimize risks during drilling and production.

XLW-GT Connection

NOV XL Systems has responded by introducing the new XLW-GT (Gas Tight) connector to the surface casing market. Featuring an optimized internal metal seal design, XLW-GT raises the bar on large diameter connector seal performance under gas pressure loading. Extensive ISO 13679 testing on the 22 x 1.00 X80 pipe size has confirmed gas tight sealability up to 90% of X80 grade nominal pipe body pressure ratings. Additional testing on 20- and 22-inch sizes is in progress to further expand the production line.

Utilizing the same wedge thread design as the widely used XLW connector, XLW-GT maintains 100% pipe body ratings in tension, compression, and bending. Since no anti-rotation feature installation is required due to the wedge thread design, strings are run faster and rig utilization is decreased.

Successfully qualified to 90% of X80 grade pipe body pressure ratings to ISO/FDIS 13679:2011 CAL I-E (with gas)

ISO/FDIS 13679:2011 CAL I-E (Gas)
Series A - 90% Scaled Pressure
22 x 1.00 X80 XLW-GT Connector

ISO/FDIS 13679:2011 CAL I-E (Gas)
Series B - 90% Scaled Pressure
22 x 1.00 X80 XLW-GT Connector

ISO/FDIS 13679:2011 CAL I-E Limit Load Test (Water)
ISO Load Paths LP3 and LP5 - Ambient
22 x 1.00 X80 XLW-GT Connector

- weld-on pin
- proprietary wedge thread
- internal metal seal
- elevator lift shoulder
- weld-on box

XLW-GT unique advantages:

- optimized internal metal-to-metal seal for gas tight sealability - no o-ring seal required

- successfully tested to the latest ISO 13679 requirements

- rated to a minimum of 100% pipe body ratings in tension, compression, and bending strengths

- no anti-rotation feature required

- no upper torque limitations allow for tighter make-ups if required

- a weld-on pin and box design creates more flexibility for manufacturing

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