



WELL INTERVENTION

Pressure Control Equipment

TIS Pressure Control Equipment



TIS Manufacturing | Well Intervention | Pressure Control Equipment

TIS Pressure Control Equipment is designed to form a complete lubricator stack for positioning onto the wellhead during well service operations.

A completed stack is utilised to contain the pressure of a well during deployment of slickline or braided line, and includes features for testing pressure of sections, preventing dropping of tool strings and opening and closing the pressure to the well.

Sections in the lubricator stack include:

- ▶ Wireline Valves
- ▶ Stuffing Boxes & Grease Injection Heads
- ▶ In-situ Test Subs
- ▶ Pump-in Tees
- ▶ Tool Traps & Hydraulic Tool Catchers
- ▶ Lubricator & Riser Pressure Sections
- ▶ Ancillary Pressure Control Items

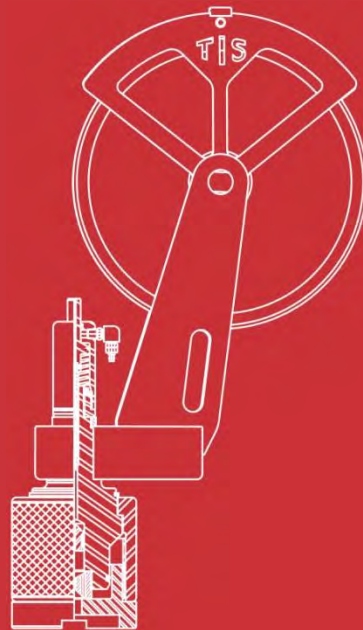


Pressure Control Equipment | Stuffing Boxes

TIS Stuffing Boxes are designed to retain well pressure around moving and stationary wire while guiding slickline wire into the top of the lubricator stack.

A **Composite Sheave Wheel** provides a lightweight means of deploying of the wire accurately.

STUFFING BOX



Pressure Control Equipment | Grease Injection Heads

TIS Grease Injection Heads are designed to retain well pressure around moving and stationary wire while guiding braided wire into the top of the lubricator stack.

Integral sections of the unit serve as injection points for grease to maintain well pressure and avoid loss of control.

GREASE INJECTION HEAD



Pressure Control Equipment | Hydraulic Tool Catchers

TIS Hydraulic Toolcatchers are designed as a safety measure for catching the tool string using collets at the top of the lubricator stack in the event of the wire being stripped from the rope socket.

Once the tool string has passed through the toolcatcher section, pressure is applied via a valve to fix lock the collets in position so that objects wider than the wire can only pass in one direction.

HYDRAULIC TOOL CATCHER

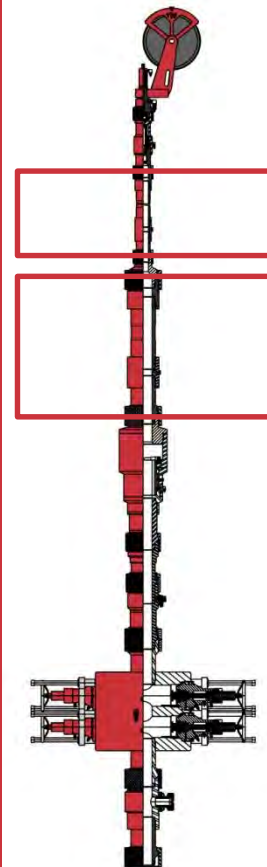


Pressure Control Equipment | Lubricator Sections

TIS Lubricator & Riser Sections are designed to retain well pressure while deploying wireline tools during well service operations.

Available in standard (4 – 12ft) or bespoke lengths, sections are fitted with standard quick unions and coupled together to provide sufficient length to accommodate the tool string and working pressure.

LUBRICATOR SECTION

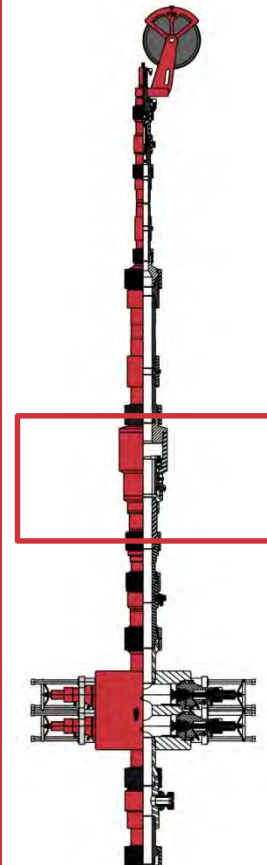


Pressure Control Equipment | Tool Traps

TIS Tool Traps are designed as a safety measure to prevent the tool string from falling down the well using a spring loaded flapper mechanism, and positioned at the base of the lubricator stack.

Once the tool string has passed through the tool trap section, the semi-circular flappers close creating a barrier with a hole that allows the wire to continue being deployed or recovered.

TOOL TRAP



Pressure Control Equipment | In-situ Test Sub

TIS In-situ Test Subs are designed to provide an economic and time efficient means for pressure testing the lubricator stack prior to exposing it to live well pressure.

The stack must be tested each time the bottom connection is broken, which can cost a large amount of time without this section in use.

IN-SITU TEST SUB



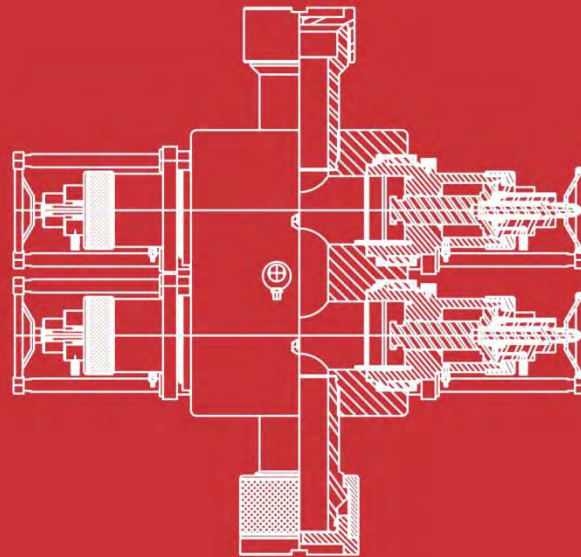
Pressure Control Equipment | Wireline Valves

TIS Wireline Valves are designed to provide a positive seal and retain well pressure around stationary slickline or braided wire during well service operations.

Rams are positioned horizontally opposite each other and close together to centralize the wire and facilitate a seal around it.

The **Triton** and **Apollo** valve ranges include single, dual, triple and quad valve configurations, with either manual or hydraulic operation available.

DUAL APOLLO WIRELINE VALVE

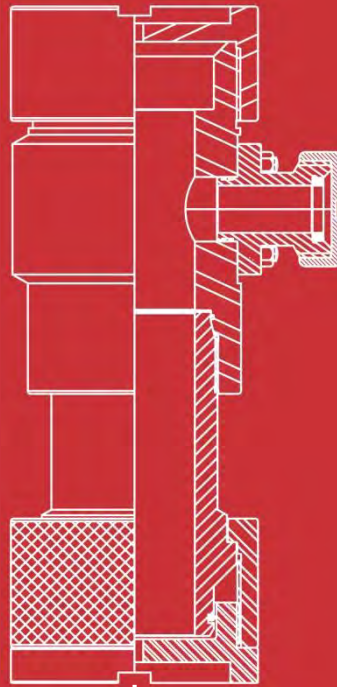


Pressure Control Equipment | Pump-in Tees

TIS Pump-in Tees are designed to provide a large flow fluid entry path into the lubricator stack to complete hydrostatic testing or pump fluid into the well.

This section can be positioned below or above the Wireline Valve, depending on operator preference.

PUMP-IN TEE



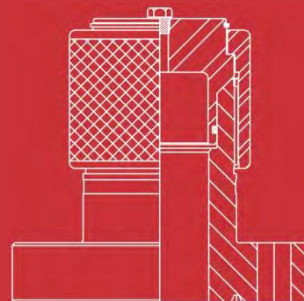
Pressure Control Equipment | Ancillary Items

TIS Ancillary Pressure Control Items comprise a range of specially engineered pressure control products including:

- › Quick Union Crossovers & Tubing Adapters
- › Wellhead Flange Adapters
- › Rig-up Dollies
- › Lift-Test Caps & Lifting Caps
- › Test Caps & Stumps
- › O-Rings & Thread Protectors
- › Hydraulic Line Wiper Assemblies
- › Swabbing Heads
- › Wireline Valve Consumables

CROSSOVER

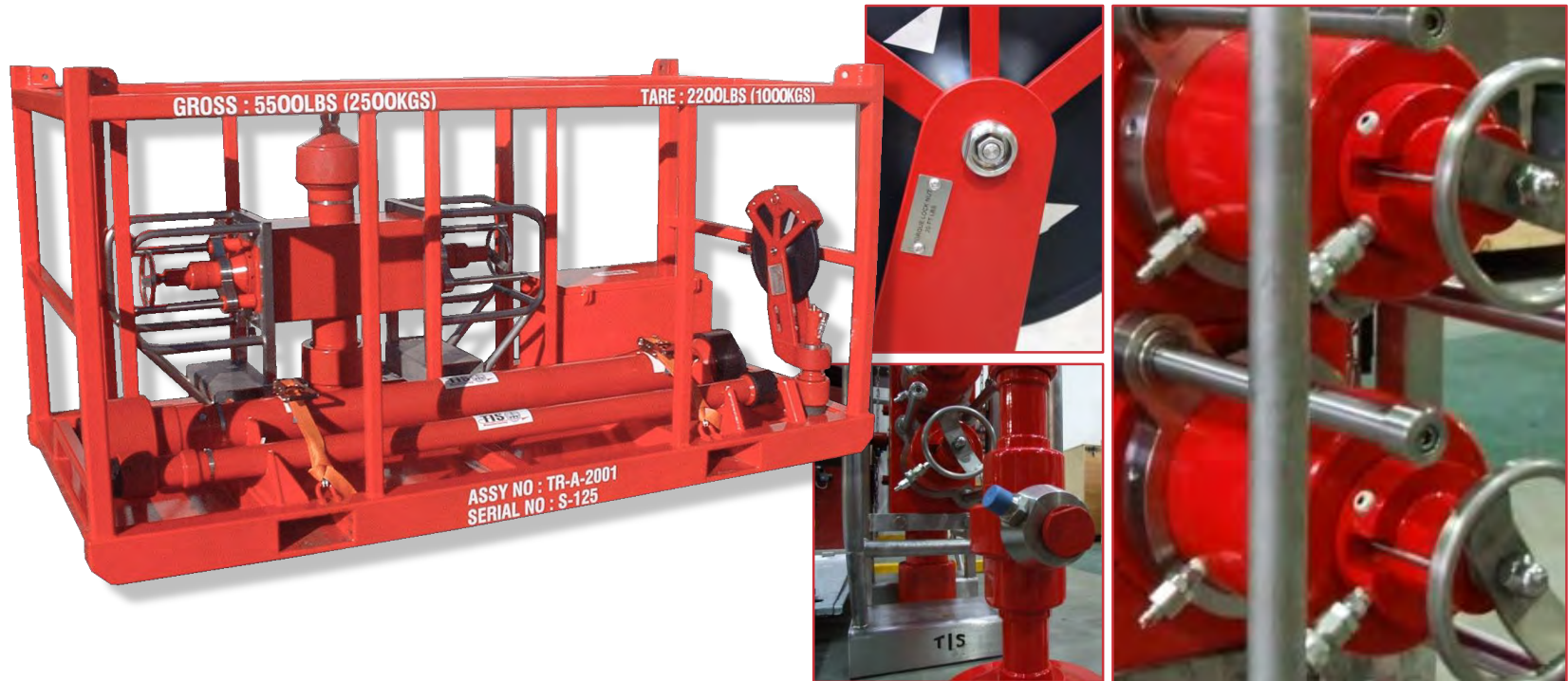
WELLHEAD FLANGE ADAPTER



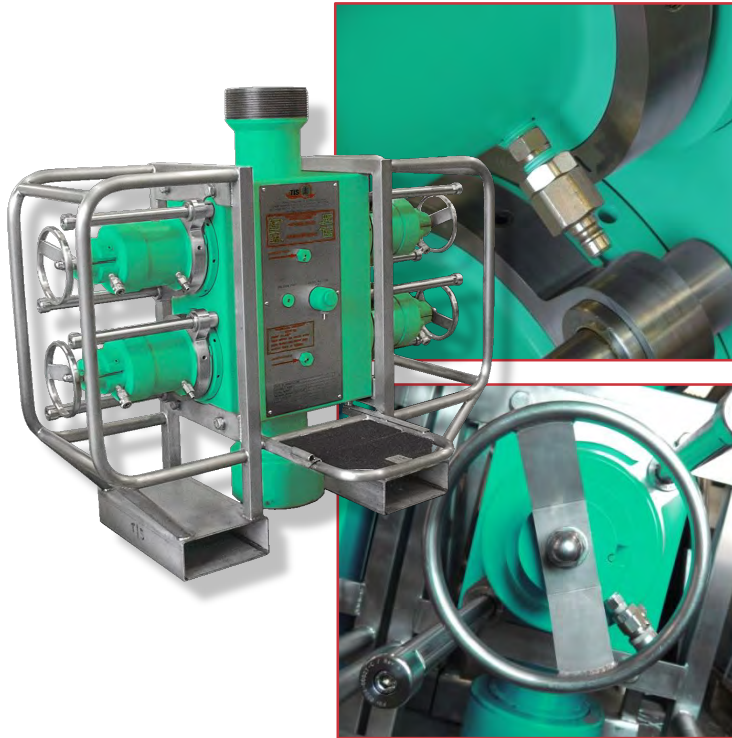
Pressure Control Equipment | Packages Delivered



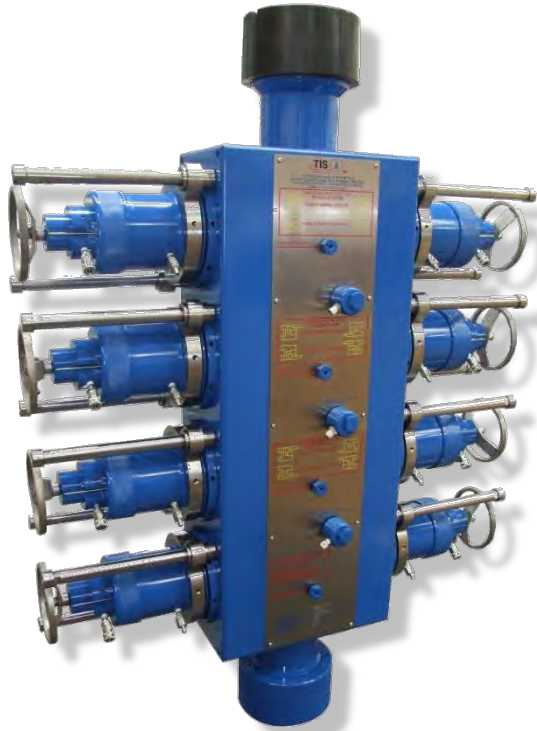
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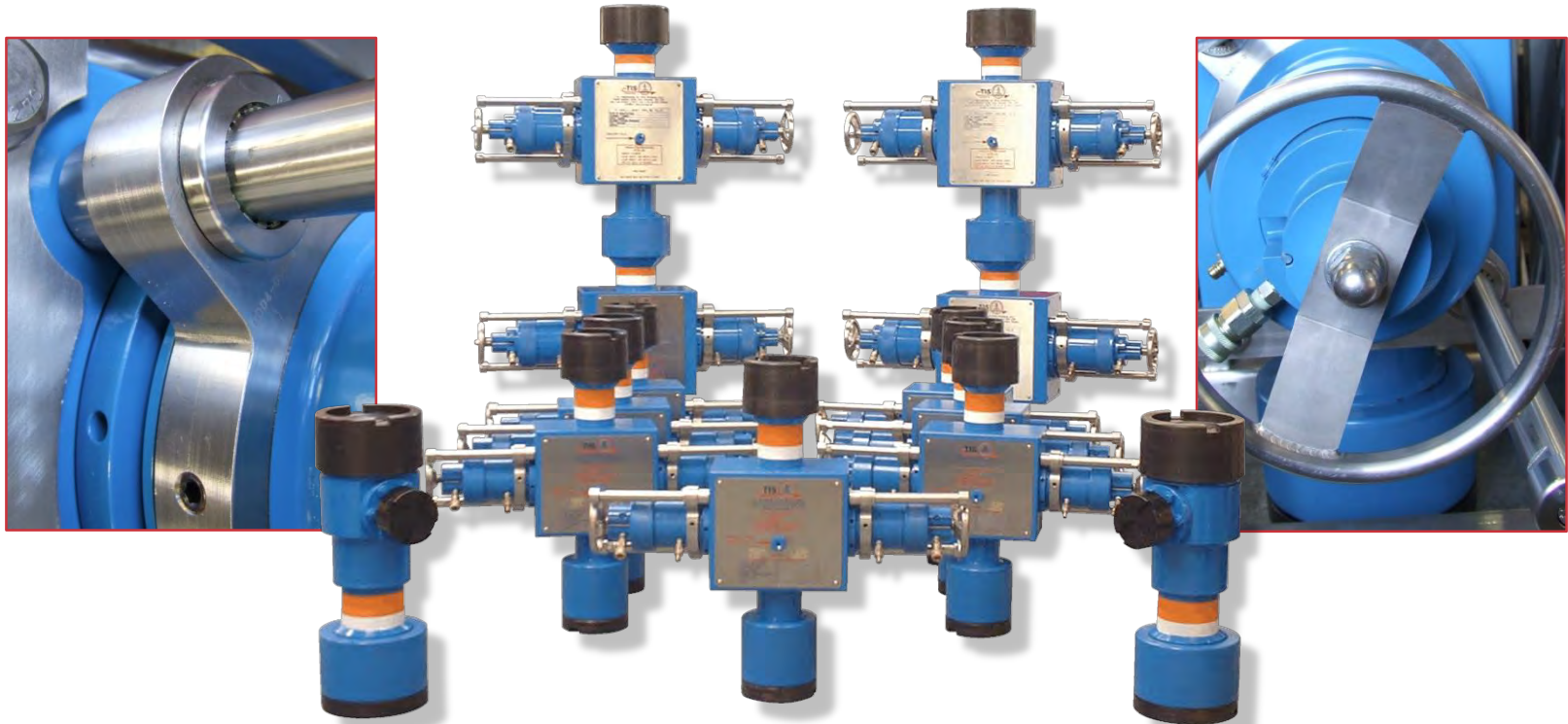
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