
# STATS GROUP
# PRODUCT CATALOGUE

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STATS GROUP
MANAGING PRESSURE, MINIMISING RISK

statsgroup.com

# CONTENTS



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# PIPELINE ISOLATION, HOT TAPPING & LINE PLUGGING EXPERTS

## PROVIDING SPECIALIST TOOLS AND TECHNOLOGY SERVICES FOR A SAFER ENERGY INDUSTRY

### YOUR TRUSTED PARTNER

We are market leaders in the supply of pressurised pipeline isolation, hot tapping and line stop services to the global energy industry. DNV type approved isolation tools provide leak-tight double block and bleed isolation that enables safe and efficient maintenance and repair of onshore, topsides and subsea pipeline infrastructure.

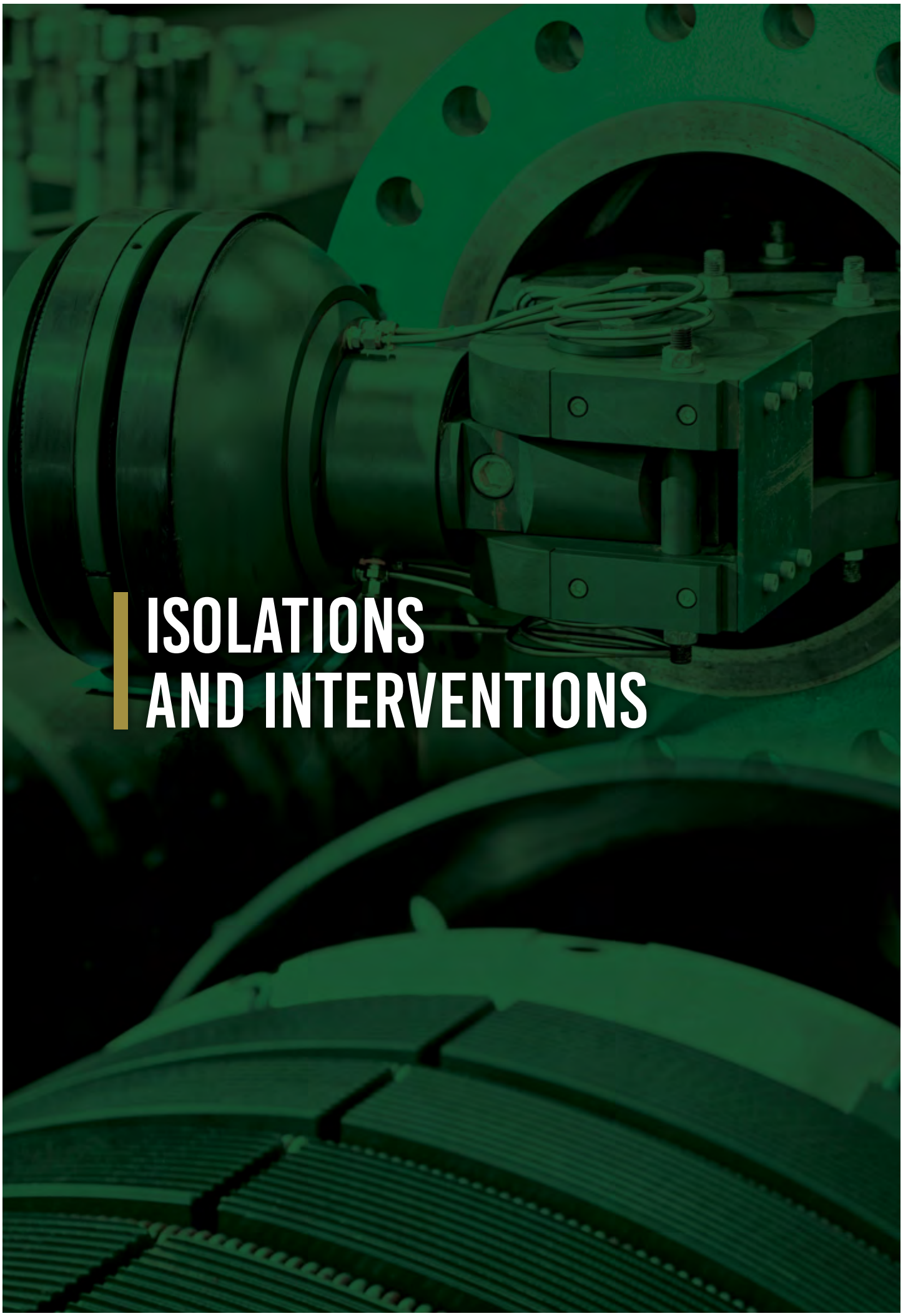
Our Process Plant Solutions offer hot-work barriers and localised hydrostatic test tools to verify the integrity of welds or fittings, reducing system downtime, minimising environmental impact and increasing worksite safety. Mechanical pipe connectors replace the need for welding, significantly reducing expenditure and associated risks with hot-work.

Our services extend over the entire lifecycle of hydrocarbon assets from construction, maintenance, asset life extension, through to decommissioning and on to hydrogen transportation, carbon capture and storage.

We are committed to incorporating sustainability into our core activities to assess and measure our social and environmental impact. Our aim is to drive higher levels of safety and support the industry as we transition to a low carbon future.

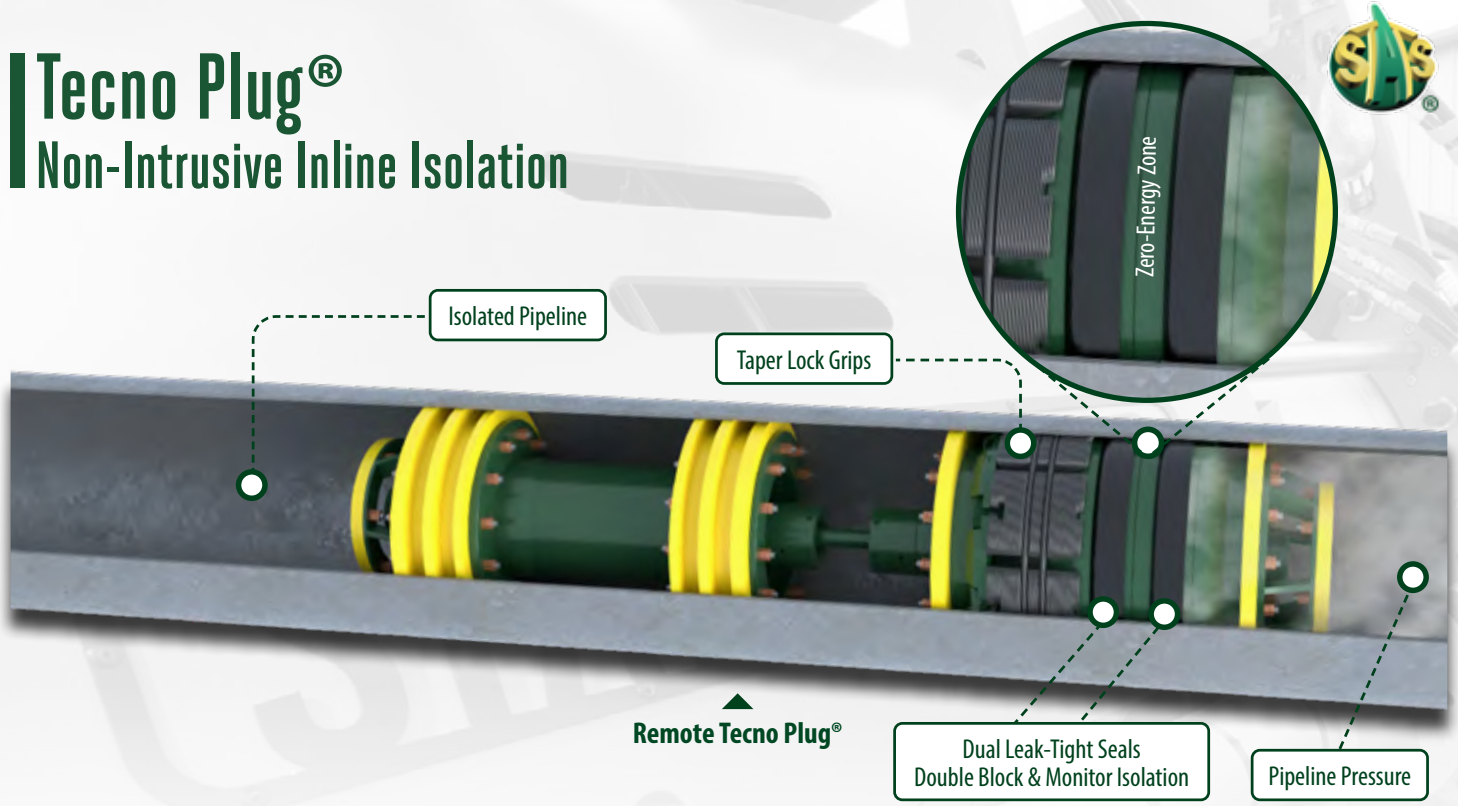
- INCREASE SAFETY
- REDUCE ASSET DOWNTIME
- IMPROVE ENVIRONMENTAL PERFORMANCE
- ENHANCE ASSET PERFORMANCE
- SUPPORT ENERGY TRANSITION

48" Remote Tecno Plug® Installation, UK



# ISOLATIONS AND INTERVENTIONS

# Tecno Plug®
## Non-Intrusive Inline Isolation




**The safe isolation of pipelines and pipework systems is a key requirement for the maintenance and modification of oil, gas and petrochemical infrastructure. STATS Group has an extensive global track record of providing temporary pressurised isolation of onshore, topsides and subsea pipelines up to 56" and in a range of pipeline mediums. Piggable isolation tools require no welding or cutting into live lines, leaving no residual fittings or hardware on the pipeline.**

STATS DNV type approved Tecno Plug® provides fail-safe double block and bleed / monitor isolation of pressurised pipelines while the system remains live and at operating pressure. Dual seals provide a zero-energy zone to enable maintenance work on pressurised systems to be carried out safely and efficiently. The dual seal configuration of the Tecno Plug provides an annulus void which can be pressure tested to verify both seals are leak-tight before maintenance work is carried out. Both seals are leak tested with full pipeline pressure.

Once the seal integrity has been proved the annulus is then vented to ambient to create a zero-energy zone, providing effective double block and bleed isolation.

The large section elastomer seals are highly compatible with poor pipe surfaces and are engineered to suit corrosion or ovality issues ensuring a leak-tight seal even in ageing assets. The Tecno Plug has the ability to monitor the isolated pipeline pressure, this is achieved via a dual sealed pressure impulse line and ensures there is no leak path through the tool. If required, pressure application through the tool is attained by adding an additional module containing a second equalisation valve. Isolation safety is ensured as two separately controlled valves need to be functioned to allow pressure communication through the Tecno Plug.

### SELF-ENERGISATION

The Tecno Plug fail-safe design uses differential pressure acting on the tool to energise the locks and seals, this is referred to as self-energisation. When the isolation plug is self-energised the isolation is maintained independent of the control system, it is however backed up by the hydraulic control system which maintains the isolation when the differential pressure is below the self-energisation threshold.

Once the Tecno Plug is activated the hydraulic circuits are locked in by pilot operated check valves and manual isolation valves (tether controlled) or fail-safe solenoid valves (remote controlled).

The check valve pilot lines can be separate lines controlled independently if required. In the event that the control system is compromised, the tool actuation mechanism will unset when differential pressure is equalised. This feature ensures pipeline integrity is maintained and the Tecno Plug is always recoverable upon job completion.

The remotely operated Tecno Plug system is a piggable, remote controlled, tetherless isolation tool. The remote control system provides a high degree of flexibility and eliminates the need for tethers or specially modified pig-trap doors. Through-wall communication is achieved using an extremely low frequency (ELF) inductive system for reliable tracking and accurate positioning of the Tecno Plug. An onboard hydraulic power pack provides the necessary actuation and control functions for the tool.

The Remote Control Module provides a robust system for safety critical activities. Certain Remote Control Modules can be made available for use in a Zone 2, Potentially Explosive environment. The communication antenna and field cable are available for use in a Zone 1, Potentially Explosive environment.

## Pipeline Isolation Applications

- **Pipeline valve replacement / repair**
- **Riser replacement / repair**
- **Pressure testing i.e. leak detection of risers or repaired pipelines**
- **Mid-line pipeline repair / tie-in**
- **Platform abandonment and bypass**
- **Pipeline diversion**

**STATS Tecno Plugs are fully certified by DNV to verify that the design criteria satisfies the requirements for Pipeline Isolation Plugs to provide dual seal and isolation in accordance with Offshore Standards; DNV-OS-F101 (Submarine Pipeline Systems) and recommended Practices; DNV-RP-F113 (Subsea Pipeline Repair) and in compliance with the following code; ASME BPVC Section VIII, Division 2.**

## Operator Benefits

- Safe breaking of containment on pressurised pipelines, providing a fully proved double block and bleed / monitor isolation, with a zero-energy zone maintained between the two barrier seals - in accordance with topside and subsea isolation guidelines
- Piggable isolation tools require no welding or cutting into live lines, leaving no residual fittings or hardware on the pipeline
- De-commissioning (bleeding down) and re-commissioning (refilling and re-pressurising) of pipelines minimised or eliminated, saving time and reducing costs
- Production continued during pipeline maintenance or modifications
- No flaring of gas or displacement of pipeline inventory
- No emissions of gas or hydrocarbon vapour to the atmosphere during blow down
- No danger of accidentally flooding offshore pipelines during construction
- No need to dispose of hydrates, chemicals and contaminated water
- Isolates short sections of pipeline anywhere in the pipeline system
- Emergency preparedness and operational readiness

12" Remote Tecno Plug®, New Zealand

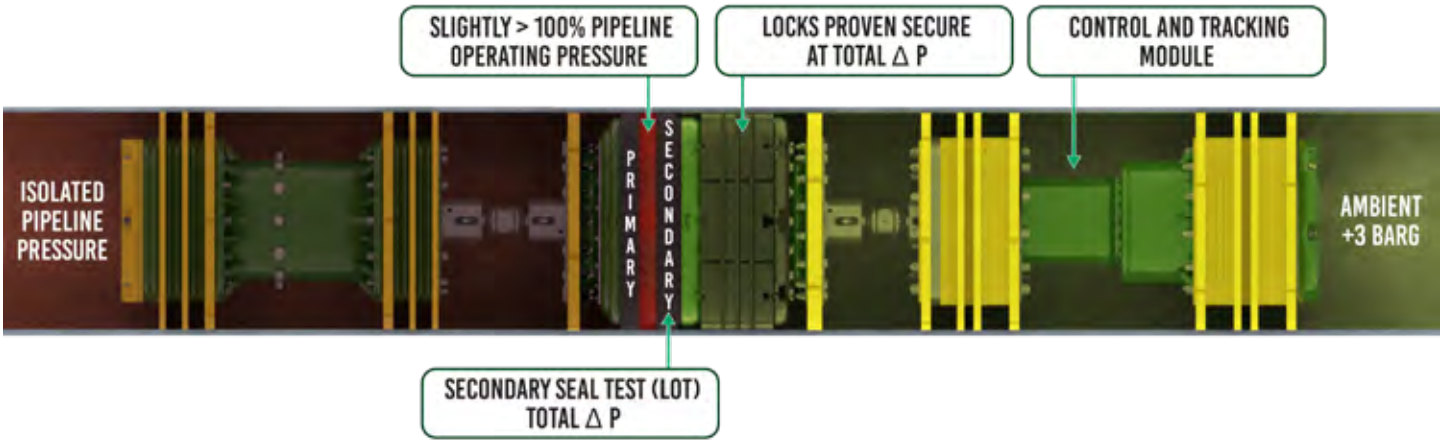
# Fully Proved Double Block
## Seal Test Sequence

Once the Tecno Plug arrives at the isolation location it is hydraulically activated, setting the isolation plug. Setting the Tecno Plug retracts the internal hydraulic cylinder activating the locks and seals against the pipe wall to create the initial barrier.

Once the Tecno Plug is confirmed as set, the pipeline pressure inboard (portion of the pipe to be isolated) is vented generating a pressure differential across the plug module. As the pressure differential is applied, the trapped pipeline content in the annulus between the seals is compressed due to the seal compression.

Once inboard pressure is vented the Tecno Plug secondary seal is tested in-situ to above the pipeline pressure, in the correct direction. This proves the integrity of the secondary seal. The annulus is then vented to the tail pressure and locked-in. This allows the primary seal to be tested to the full differential pressure. The isolation is then monitored for an extended period prior to breaching the pipeline integrity.

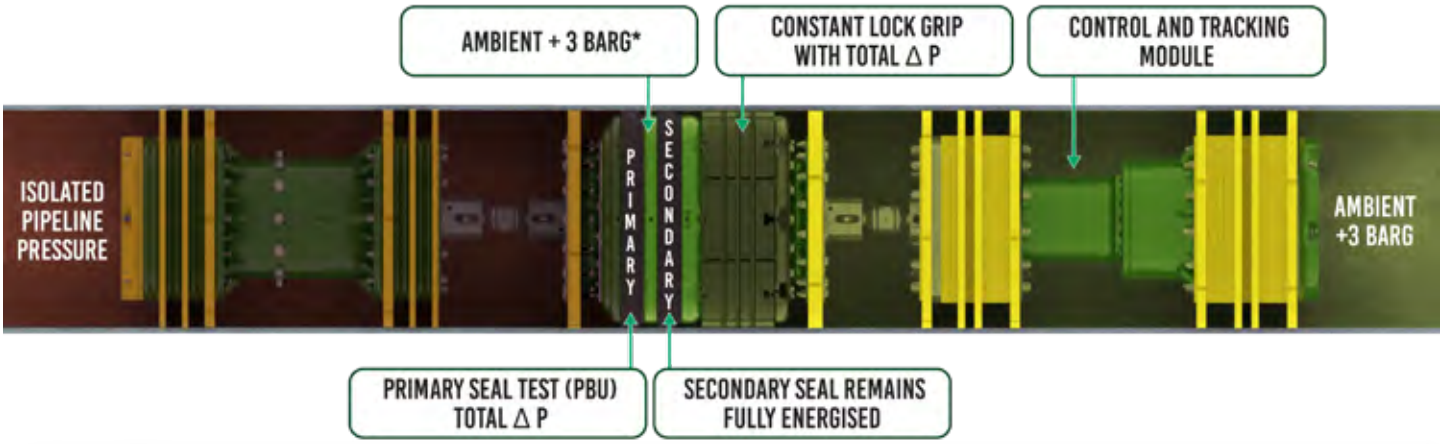
## Tecno Plug® Seal Verification Cycle
### Secondary Seal: Leak-Off Test




- Vent tail pressure (behind the plug) to ambient +3 bar.
- Monitor annulus pressure for Leak-Off.
- Secondary seal proved with full differential pressure (actually slight above) in the correct direction.

# Fully Proved Double Block
## Seal Test Sequence

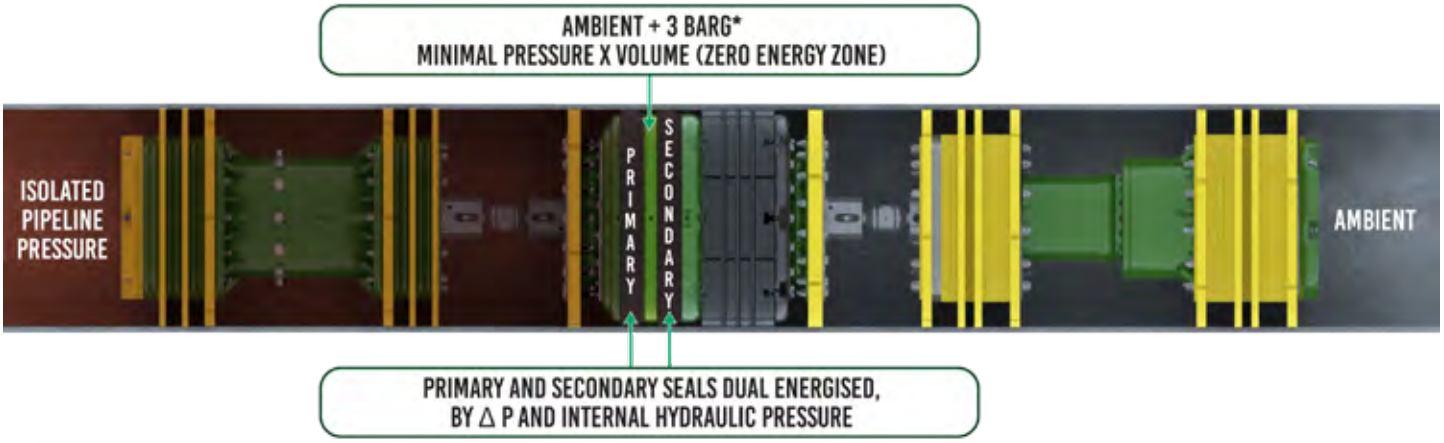
### Tecno Plug® Seal Verification Cycle
### Primary Seal: Pressure Build-Up Test




After the successful secondary seal test:

- Annulus pressure is vented to behind the plug (Ambient pressure + 3 bar). The annulus vent valve is used to bleed the annulus.
- The annulus vent valve is closed and annulus pressure is monitored for Pressure Build-Up *minor PBU in annulus is expected to stabilise at a few bar above tail pressure as seals settle into depressurised annulus.
- The Primary seal is proved with full differential pressure in the correct direction.

## Isolation Stability Hold Period - And Duration of Isolation




- After the Secondary Seal and the Primary Seal have each been proved with full differential pressure (with the plug in-situ at the isolation location) the tail pressure is vented to ambient.
- Then the extended isolation stability hold period (4hr-24hr depending on risk assessment) is performed.
- During the Isolation Stability hold period the hydraulic set pressure, the pipeline head pressure and the annulus pressure (along with all other sensors; voltage, signal strength, control module pressure, etc) are monitored to confirm stability of the fully proved double block isolation.
- * As the annulus pressure is above tail pressure this confirms the annulus vent valve is closed and sealing.
- The Isolation Certificate is issued after successful isolation stability hold period.
- The double block isolation integrity is continuously monitored throughout the period of isolation.

# Tethered Tecno Plug®

## Key Features

- Size range: 3" – 56"
- Standard Tecno Plug up to 230 bar / 3336 psi with bespoke solutions up to 600 bar / 8702 psi available upon request
- DNV Type Approval in accordance with; DNV-OS-F101 (Submarine Pipeline Systems) and recommended Practices; DNV-RP-F113 (Subsea Pipeline Repair)
- Available as 3D bend compliant as standard with 1.5D on request
- Robust compact design, enables Tecno Plug to be set in short sections of pipeline. In many instances production can be continued during pipeline maintenance or modifications activities
- Twin compression elastomer seals are highly effective even in pipelines with corrosion and ovality issues
- Annulus bleed between seals allows pressure to be vented to ambient creating a zero-energy zone providing true double block and bleed isolation
- Fail-safe design feature; taper lock grips and seals energised by differential pressure; referred to as self-energisation
- Self-energisation feature maintains safe isolation while differential pressure exists across the Tecno Plug
- Both seals fully energised by pressure – rubber pressure 1.1 – 1.4 times greater than pipeline pressure
- Reverse pressure can be applied across the Tecno Plug to facilitate system leak testing
- Outboard pressure monitoring options


30" Tethered Tecno Plug®, New Zealand

# Remote Tecno Plug®

## Key Features

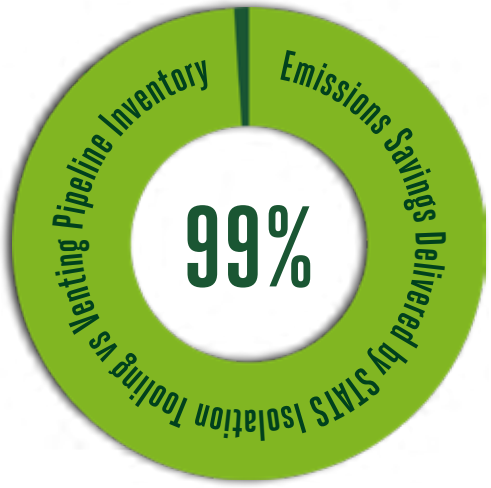
- Size range: 10" – 56"
- Pressure range: standard remote control module housing is rated for 200 bar / 2900 psi external pressure
- DNV type approval in accordance with; DNV-OS-F101 (Submarine Pipeline Systems) and recommended Practices; DNV-RP-F113 (Subsea Pipeline Repair)
- The Remote Control Module provides a robust system for safety critical activities. Certain Remote Control Modules can be made available for use in a Zone 2, Potentially Explosive environment
- Zone 2 18" remote isolation tools -
  CE II 3 G Ex ec ic pzc IIB T3 Gc
  -20°C ≤ Ta ≤ 54°C
  Type Examination Certificate No. DNV 23 ATEX 78058X
- The communication antenna and field cable are available for use in a Zone 1, Potentially Explosive environment.
- Topside communications antenna -
  CE II 2 G Ex e IIC T6 Gb
- Hydraulic system override releases the plug setting mechanism when pressure is equalised (Fail-safe passive unset feature)
- Through-wall communication is achieved using an extremely low frequency (ELF) inductive system for reliable tracking and accurate positioning
- Subsea communication via acoustic link (3000m depth rating)


36" Remote Tecno Plug®, Middle East

# Piggable Bypass Technology
## Unpiggable Lines

STATS have developed a patented pigging bypass system for our isolation plugs which allows two Tecno Plugs to be pigged towards a blind centre. The technology was developed to facilitate the pipeline repair of unpiggable defects. This system allows a section of pipeline to be isolated where full bore pipeline access is unavailable due to a defect such as a pipeline buckle or dent. Each Tecno Plug is pigged from either end of the pipeline towards the defect to isolate the section and allow repair or replacement.


32" and 38" Remote Tecno Plugs®, Qatargas




# Supporting clients to achieve their sustainability goals
## Reducing flaring and venting during repair and maintenance

Large sections of pipelines and process plant systems are frequently vented to facilitate valve repairs and other maintenance activities. Temporary isolation tools minimise this requirement by providing safe, localised isolations where incumbent valves are not available.

Using STATS proprietary double block isolation technologies for localised repair and maintenance allows worksites to be safely isolated without the need to depressurise large sections of the pipeline, thereby avoiding the need to discharge significant quantities of greenhouse gases into the atmosphere.

STATS isolation technologies have been independently verified to deliver carbon emissions savings of over 99% compared to venting a pipeline for repair and maintenance.

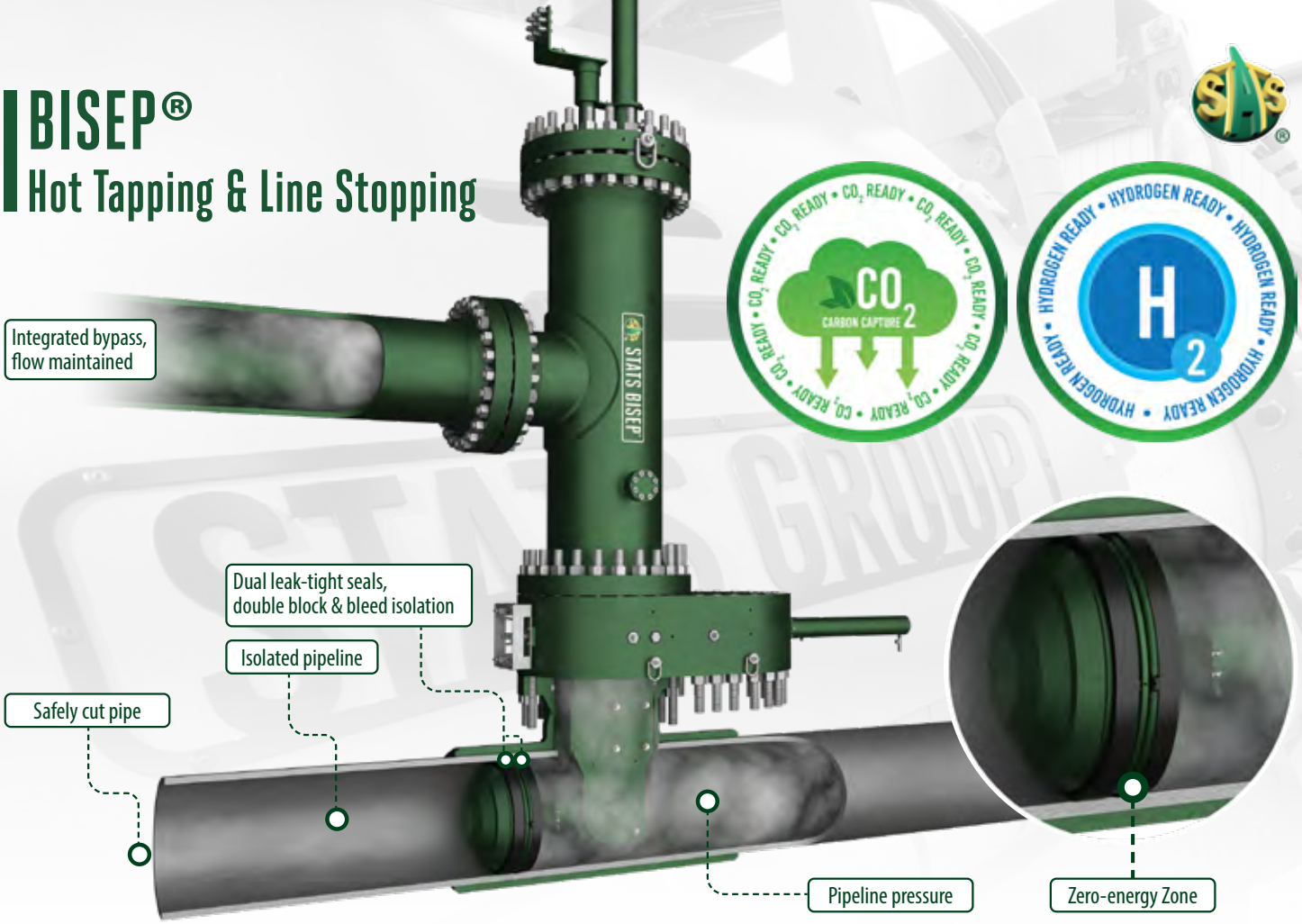
### Middle East

**38" 80bar Pipeline - 80km**
Welded repair required to remove an integrity threat. Tecno Plug® Double block isolation prevented the potential discharge of approximately 9,600 tons of CO2 into the atmosphere.

### North Sea

**36" 120 bar Subsea Pipeline, 450km**
Onshore isolation valve replacement. Using Tecno Plug® Double block isolation prevented the potential discharge of approximately 70,000 tons of CO2 into the atmosphere.

# BISEP®
## Hot Tapping & Line Stopping




**STATS BISEP® provides operators pioneering hot tap installed line stopping capabilities to enable the safe and effective repair and modification of pipeline infrastructure. The patented BISEP provides fail-safe, double block and bleed isolation with integrated bypass, deployed through a single hot tap intervention. Two BISEPs can be utilised to establish mid-line isolation of pipeline sections. The integrated bypass line facilitates sectional isolation while keeping the pipeline in service, ensuring operational continuity and maintaining product flow without requiring a system shutdown.**

The BISEP offers significant safety advantages over traditional line stop technologies, with hydraulically activated dual seals providing leak-tight isolation for ambient and pressurised pipelines.

This high integrity isolation is provided by a spherical dual seal plug which is hydraulically deployed into the pipeline from a pressure competent launcher, through a STATS dual seal slab valve. The BISEP seals are hydraulically compressed resulting in radial expansion against the pipe bore. During isolation barrier proving, each seal is tested independently with full pipeline pressure in the direction of the expected pressure differential, proving both seals of the double block isolation are leak-tight. Following successful seal proving, the seal annulus void is then vented, closed and monitored, creating a zero-energy zone. The zero-energy zone between the seals is monitored throughout the work scope, confirming the isolation integrity with zero leakage, a crucial factor in the energy industry where any compromise in integrity can have severe consequences.

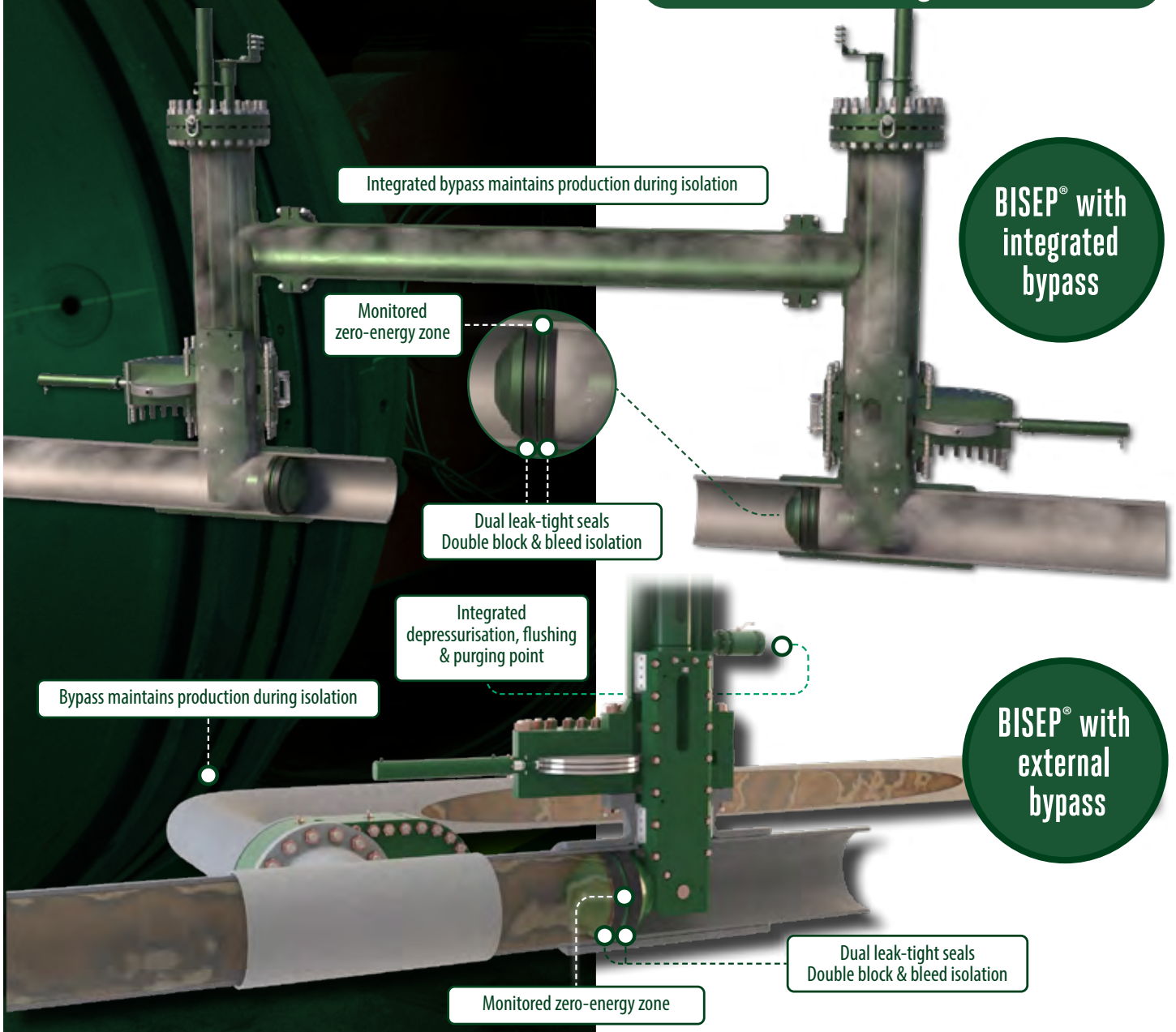
The line pressure acting against the BISEP pressure head offers a fail-safe feature by providing actuation independent of the hydraulic system. Further safety is provided in the form of a secondary independent hydraulic piston to deliver additional security in low pressure pipeline applications.

# Pipeline Isolation Applications

- Pipeline / launcher valve installation or replacement
- Pipeline / riser repair, replacement or decommissioning
- Pipeline / pipework re-routing
- Mid-line repair of pipeline defects
- Isolate pressure vessels
- Water or gas injection line isolation
- Isolation of pipeline end manifolds, pipeline end terminals for repair, upgrade or replacement

The BISEP is the only DNV Type Approved line stop tool. This verifies that the design criteria satisfy the requirements for Pipeline Isolation Plugs to provide dual sealing and isolation in accordance with; DNV-OS-F101 (Submarine Pipeline Systems) and recommended Practices; DNV-RP-F113 (Subsea Pipeline Repair) as well as in compliance with code ASME BPVC Section VIII, Division 2.

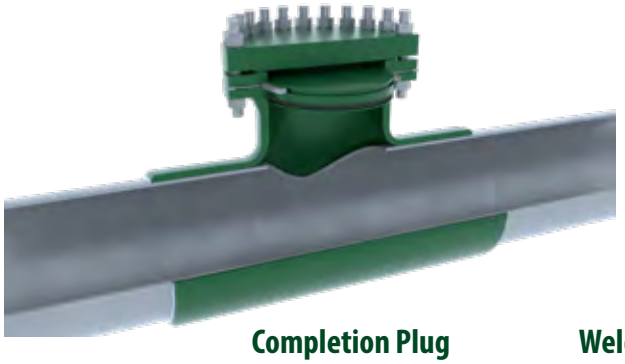
## BISEP Configurations



# Reinstatement Pressure Testing

The BISEP is designed to resist back pressure and therefore can also be used as a test boundary for pipeline reinstatement testing. Uniquely the BISEP is designed to take 50% of its design pressure in the reverse direction. This allows pressure higher than the isolated pipeline pressure to be applied to the reinstated pipework (as a pressure test or purge) prior to removing the BISEP.

STATS also supply welded and mechanical split tee fittings for hot tap and BISEP applications along with its patented dual seal slab valves and hot tapping services. To allow the BISEP and valve to be recovered fittings can be supplied with a completion plug and blind flange to isolate the branch off-take.



**Completion Plug**

**Welded Split Tee**

**Mechanical Clamp**

# Operator Benefits

- Fully verified double block and bleed isolation through a single hot tap intervention
- Leak-tight isolation dramatically increases safety over traditional line stop technologies
- Isolation remains stable and leak-tight even with significant fluctuating pipeline pressures
- Single hot tap intervention significantly reduces timescales and costs and also allows installation on short sections of pipework.
- Full compliance with oil and gas industry standard double block and bleed requirements
- Minimal production disruption on interconnected pipeline networks during valve repairs / tie-ins

# BISEP® Specification

- Size range: 3" – 56"
- Pressure range: up to 153 bar, available in ANSI Class 600 and 900 ratings
- Maximum operating temperature: 100˚C, minimum operating temperature: -20˚C
- Other pressure and temperature combinations available by request

## Main Industries Served


## Key Features

- Monitored dual seal annulus void proves seal integrity before and during intervention work
- Isolation integrity continuously monitored through annulus void, hydraulic set circuit and body vents
- Seal annulus void provides a Zero-Energy Zone (minimal volume x pressure)
- Design provides axial restraint through bearing on dual clevis plates (no single point failure)
- Dual compression seals provide higher integrity isolation than traditional cup seals
- Hydraulically activated seals can be manipulated to improve performance when sealing in pipes with issues such as ovality and internal surface irregularities; i.e. weld seams, corrosion, erosion
- No additional pipeline hot taps required for bleed or vent ports
- Self-Energisation of seals maintains isolation integrity independent of hydraulic control circuit
- Ability to accommodate reinstatement pressure test against the rear of the plugging head
- BISEP isolation installed upstream of fitting, maintaining fitting in safe zone during workscope
- BISEP launcher ported to facilitate venting, purging and flushing of isolated section
- Can be deployed through a conventional equal tee, clamp or branch
- Design allows for deployment into flow conditions (Engineering Assessment Required)
- Hydraulic rotation of the plugging head enables BISEP deployment into pipes in any orientation. In addition to horizontal and vertical pipes the BISEP can also operate in pipes inclined from the horizontal making it more versatile than traditional line stop systems

# Subsea Isolations with BISEP®

Subsea Double BISEP® with bypass

The BISEP when deployed subsea provides the highest level of hot tap installed pipeline isolation in the industry. Complying with all relevant subsea isolation guidelines, the BISEP ensures safe worksite conditions for divers from breaking containment to reinstatement.

The BISEP is the only DNV Type Approved line stop tool. This verifies that the design criteria satisfy the requirements for Pipeline Isolation Plugs to provide dual sealing and isolation in accordance with; DNV-OS-F101 (Submarine Pipeline Systems) and recommended Practices; DNV-RP-F113 (Subsea Pipeline Repair) as well as in compliance with code ASME BPVC Section VIII, Division 2.

The use of the BISEP provides high integrity, temporary subsea isolation that offers operators significant benefits by avoiding the need to decommission and then recommission the entire subsea infrastructure.

48" Subsea BISEP®, Persian Gulf

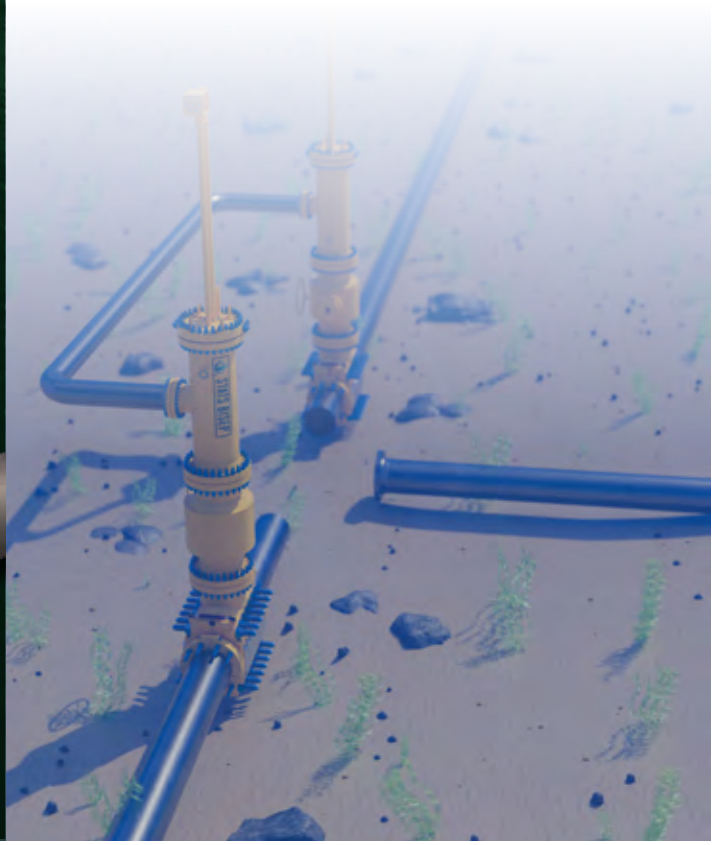
# Subsea BISEP®
## Main Applications

- Sectional replacement / pipeline repair
- Pipeline tie-in operations
- Pipeline re-routing
- Dead leg removal
- Pipeline abandonment and decommissioning
- Isolation of subsea manifolds or skids for repair or replacement


14" BISEP® Cl600, East China Sea

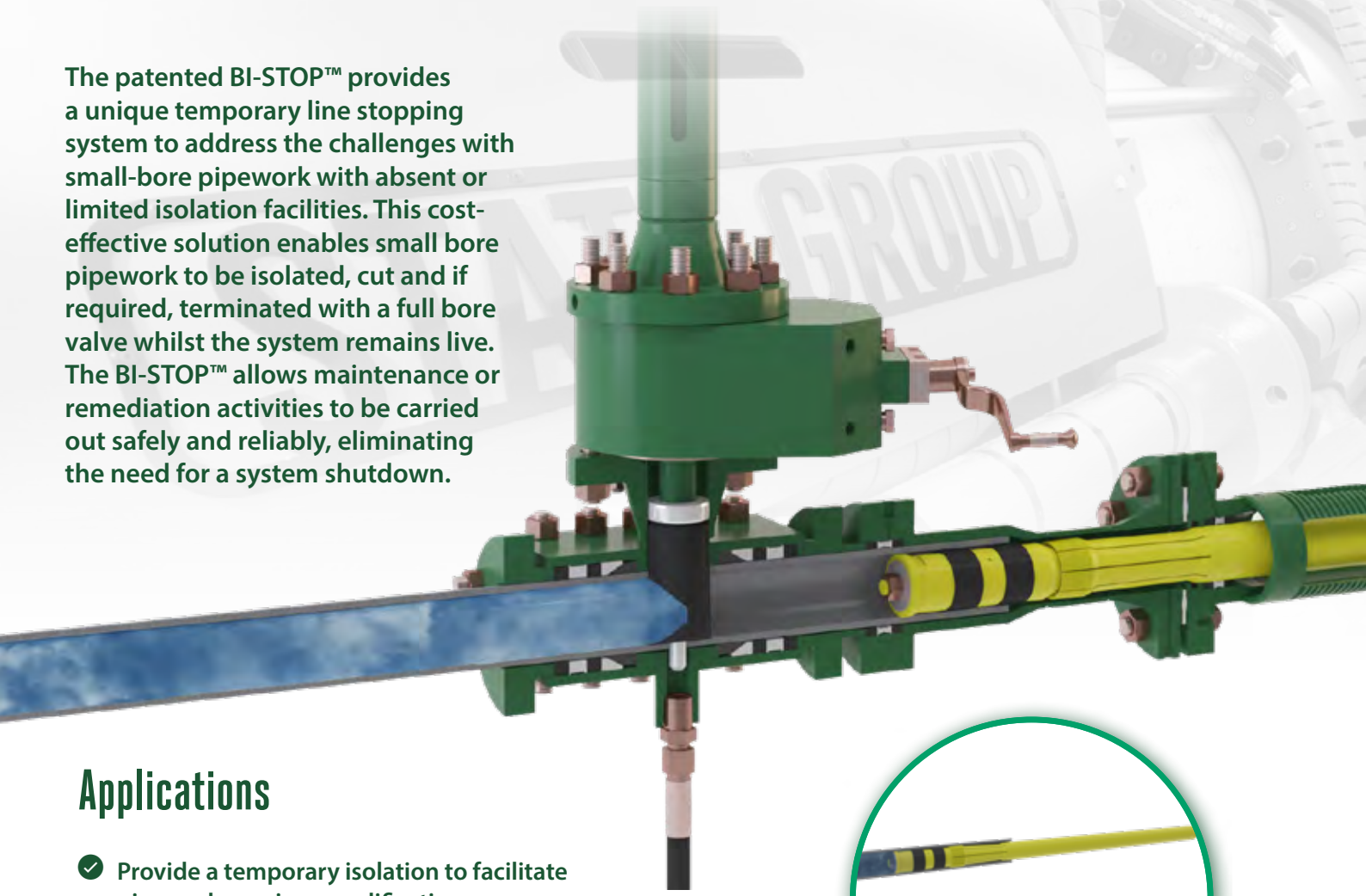
## Key Features for Subsea Activities

- Double block and bleed isolation compliant with subsea industry isolation best practice. (DNV-RP-F113 Pipeline Subsea Repair – recommended practice)
- Monitored dual seal annulus void proves seal integrity before and during intervention work
- Isolation integrity continuously monitored through annulus void, hydraulic set circuit and body vents
- Seal annulus void provides a Zero-Energy Zone (minimal volume x pressure)
- In bad weather, enhanced actuation system allows long-term disconnection from support vessel
- Isolation remains stable and leak-tight even with significantly fluctuating pipeline pressures
- The BISEP design ensures diver safety in the event of negative and positive pipeline differential pressures
- Ability to accommodate reinstatement pressure test against the rear of the plugging head



# BI-STOP™
## Small Bore Temporary Line Stopping

The patented BI-STOP™ provides a unique temporary line stopping system to address the challenges with small-bore pipework with absent or limited isolation facilities. This cost-effective solution enables small bore pipework to be isolated, cut and if required, terminated with a full bore valve whilst the system remains live. The BI-STOP™ allows maintenance or remediation activities to be carried out safely and reliably, eliminating the need for a system shutdown.



## Applications

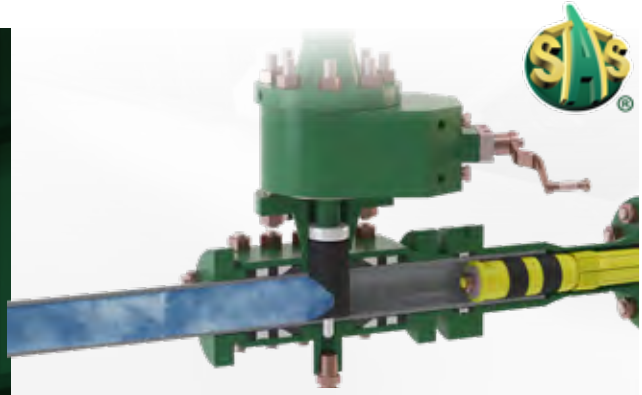
- Provide a temporary isolation to facilitate pipework repair or modification
- Install a system specified full bore valve where isolation facilities are absent or limited
- Cap and terminate dead leg or redundant pipework
- Provide a permanent or temporary pipework tie-in

## BI-STOP Specification:

Standard Nominal Size Range 1", 1.5" and 2"

Pressure Rating ANSI Class 300 (51.1 bar / 741 psi)

# BI-STOP™ Installation Process



**STEP 1**

Install and leak test temporary hot tap fitting, isolation valve and hot tap machine.

**STEP 2**

Conduct hot tap and deploy BI-STOP isolation barrier.

**STEP 3**

Cut pipework behind BI-STOP isolation barrier and install inline isolation tool and launcher.

**STEP 4**

Recover BI-STOP isolation and deploy inline isolation tool and set at location.

**STEP 5 & 6**

Remove temporary hot tap fitting, inline isolation tool launcher and cut pipework to remove hot tap penetration.

Install welded or mechanical flange and permanant isolation valve complete with isolation tool launcher. Unset and recover inline isolation tool into launcher and close valve.

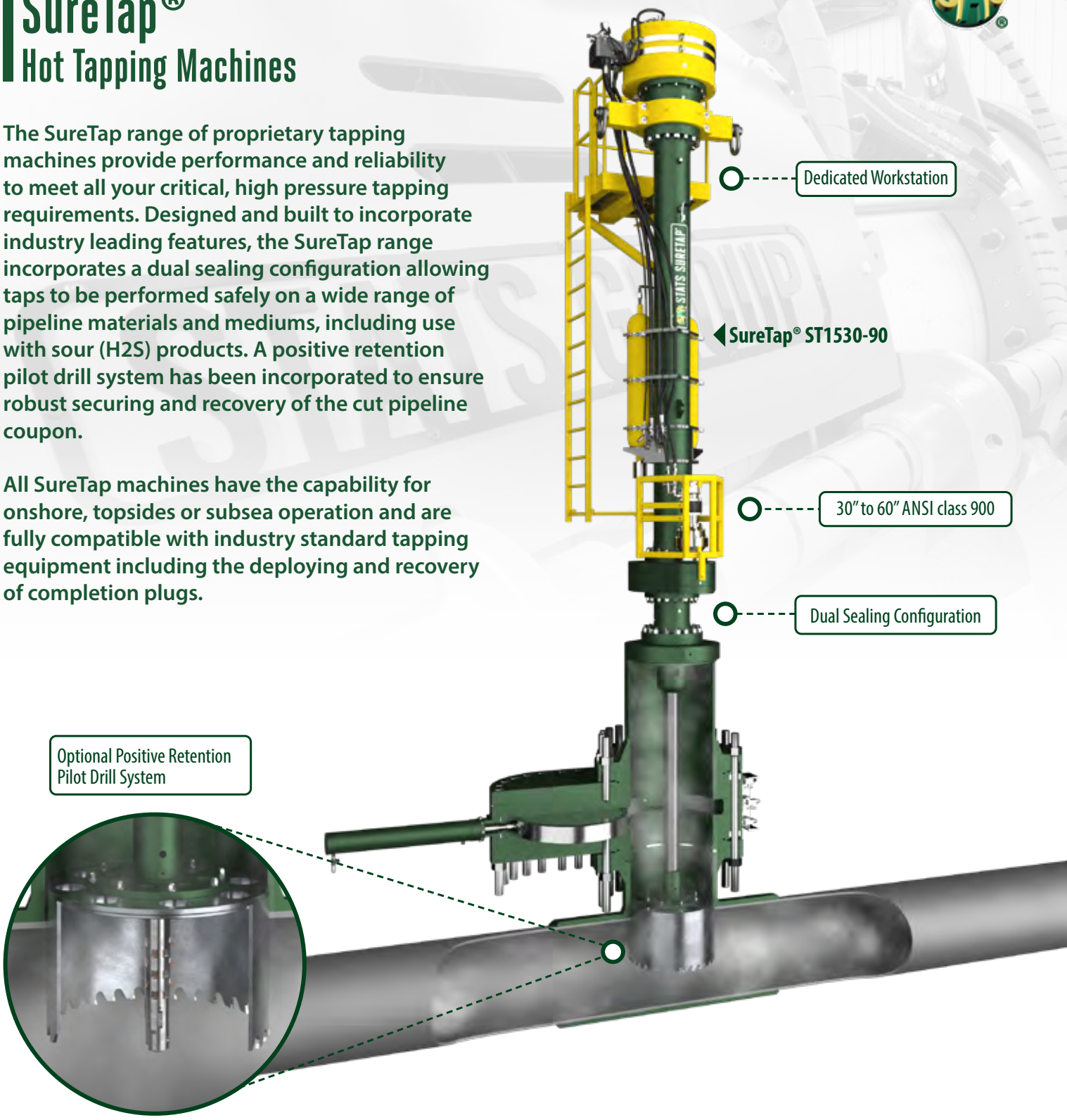
**STEP 7**

Install new pipework to isolation valve.

# SureTap®
## Hot Tapping Machines

**The SureTap range of proprietary tapping machines provide performance and reliability to meet all your critical, high pressure tapping requirements. Designed and built to incorporate industry leading features, the SureTap range incorporates a dual sealing configuration allowing taps to be performed safely on a wide range of pipeline materials and mediums, including use with sour (H2S) products. A positive retention pilot drill system has been incorporated to ensure robust securing and recovery of the cut pipeline coupon.**

**All SureTap machines have the capability for onshore, topsides or subsea operation and are fully compatible with industry standard tapping equipment including the deploying and recovery of completion plugs.**




## Materials of Construction

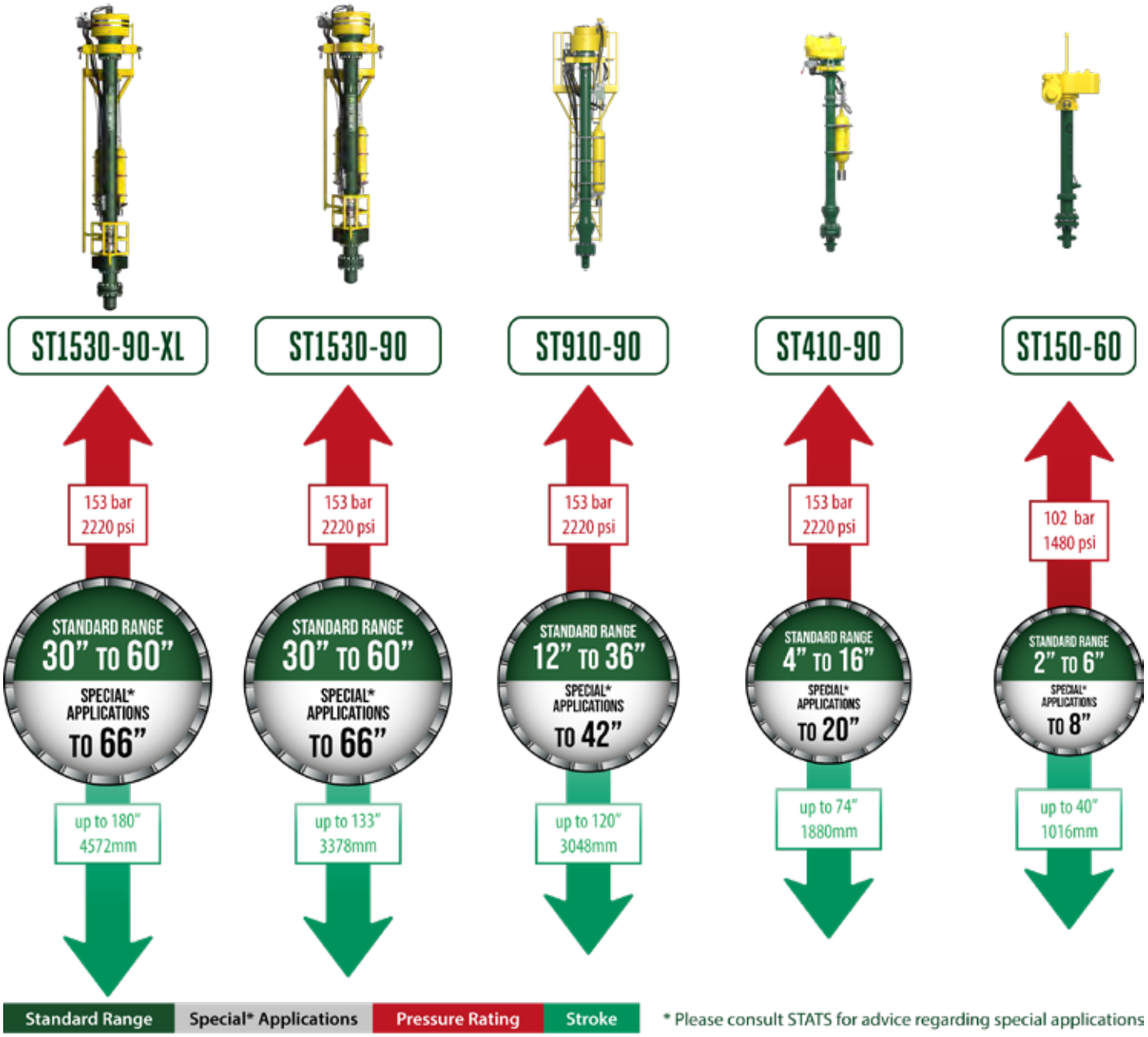
The SureTap machines are manufactured from high quality materials to European or North American standards. All components used to contain pressurised process fluids are manufactured from pressure vessel grade materials (to ASTM or EN standards), impact tested at sub-zero temperatures and resistant to sulphide stress cracking (SSC)

# Legislation, Codes & Directives

**Design compliant with:**

- ASME B16.5: Pipe flanges and flanged fittings
- ASME B31.3: Process piping
- ASME B31.4: Pipeline Transportation System for Liquid Hydrocarbons and Other Liquids
- ASME B31.8: Gas Transmission & Distribution Piping Systems
- ASME BPVC. Section VIII, Division 1: Design and Fabrication of Pressure Vessels
- ASME BPVC. Section VIII, Division 2: Alternative Rules
- NACE MR0175/ISO 15156-2: Petroleum and natural gas industries - Materials for use in H2S containing environments in oil and gas production
- EU directive 2006/42/EC: Machinery. EU directive 97/23/EC: Pressure equipment

## SureTap® Range



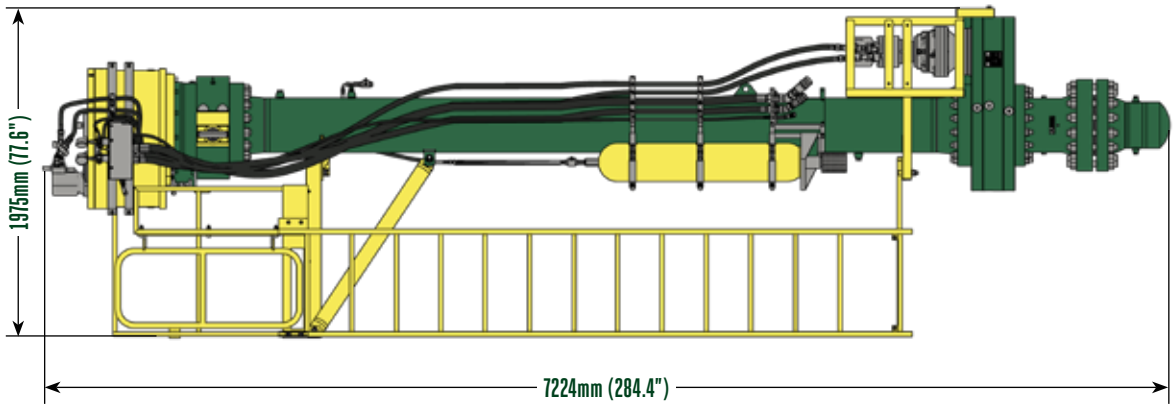
# SureTap® ST1530-90-XL MACHINE

## 30" – 60"* cutter size
## 153 bar / 2220 psi pressure rating

- Process fluid seal housing features dual seal configuration
- Positive retention pilot drill system for robust securing and recovery of the cut pipe coupon
- Pressure compensated feed system
- Variable speed and feed configuration
- Suitable for use with sour (H2S) products
- Compatible with industry standard tapping equipment
- Capable of deploying and recovering completion plugs
- Dedicated transportation frame for secure shipping, storage and routine maintenance
- Dedicated work station for ease of use and operator safety
- Power provided from a portable, custom hydraulic power unit (HPU)
- Subsea compatible
- Pressure class: ANSI Class 900

* Please consult STATS for cuts up to 66"

| Operating Parameters | | |
|---|---|---|
| Pressure – temperature rating: | ASME B16.5 Class 900. Table 2 - 1.1 | |
| Maximum operating pressure: | 153 Bar @38°C | 2220 psi @ 100°F |
| Operating temperature range - process fluid: | | |
| *Standard configuration* | -20°C to 150°C | -4°F to 302°F |
| Operating temperature range - ambient (atmospheric): | -20°C to 40°C | -4°F to 104°F |
| Minimum cutter size: | 30" | |
| Maximum cutter size: *STANDARD RANGE* | 60" | |
| Maximum cutter size: *SPECIAL APPLICATIONS* | 66" | |
| Boring bar rotational speed: | 0 to 17 rpm | |
| Boring bar feed rates: | | |
| *Feed rate 1* | 0.08mm/rev | 0.003"/rev |
| *Feed rate 2* | 0.18mm/rev | 0.007"/rev |
| *Feed rate 3* | 0.28mm/rev | 0.011"/rev |
| *Auxiliary feed* | 343mm/min | 13.5"/min |
| Boring bar travel: | | |
| *Standard machine* | 4572mm | 180" |
| Machine weight: | 6480kg | 14286lbs |
| Overall dimensions, L x W x H: | 7224 x 1400 x 1975mm | 284.4 x 55.1 x 77.6" |
| Machine + Skid Weight: | 7410kg | 16336lbs |
| Shipping dimensions, L x W x H: | 7300 x 1430 x 2110mm | 287.5 x 56 x 83" |



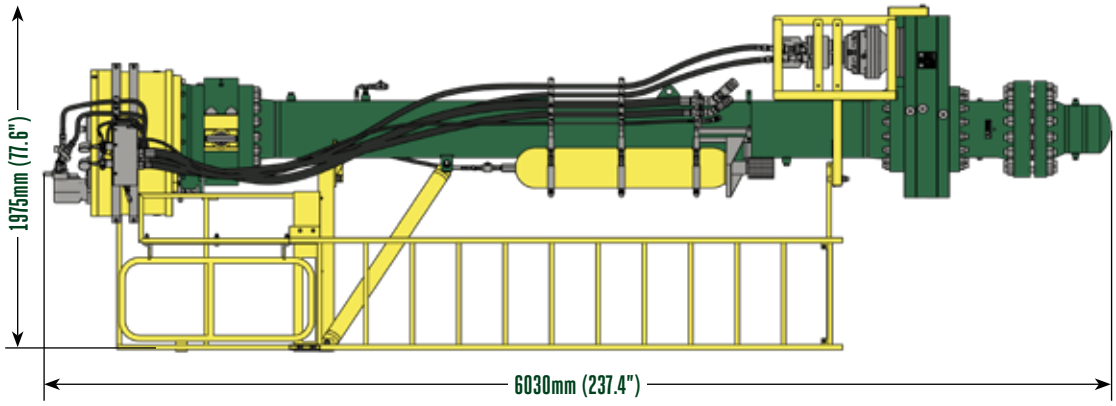
# SureTap® ST1530-90 MACHINE

## 30" – 60"* cutter size
## 153 bar / 2220 psi pressure rating

- Process fluid seal housing features dual seal configuration
- Positive retention pilot drill system for robust securing and recovery of the cut pipe coupon
- Pressure compensated feed system
- Variable speed and feed configuration
- Suitable for use with sour (H2S) products
- Compatible with industry standard tapping equipment
- Capable of deploying and recovering completion plugs
- Dedicated transportation frame for secure shipping, storage and routine maintenance
- Dedicated work station for ease of use and operator safety
- Power provided from a portable, custom hydraulic power unit (HPU)
- Subsea compatible
- Pressure class: ANSI Class 900

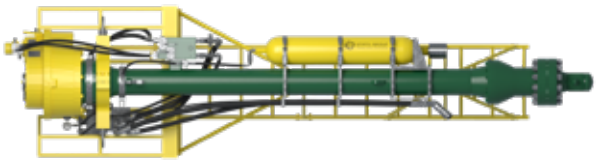
* Please consult STATS for cuts up to 66"

| Operating Parameters | | |
|---|---|---|
| Pressure – temperature rating: | ASME B16.5 Class 900. Table 2 - 1.1 | |
| Maximum operating pressure: | 153 Bar @38°C | 2220 psi @ 100°F |
| Operating temperature range - process fluid: | | |
| *Standard configuration* | -20°C to 150°C | -4°F to 302°F |
| Operating temperature range - ambient (atmospheric): | -20°C to 40°C | -4°F to 104°F |
| Minimum cutter size: | 30" | |
| Maximum cutter size: *STANDARD RANGE* | 60" | |
| Maximum cutter size: *SPECIAL APPLICATIONS* | 66" | |
| Boring bar rotational speed: | 0 to 17 rpm | |
| Boring bar feed rates: | | |
| *Feed rate 1* | 0.08mm/rev | 0.003"/rev |
| *Feed rate 2* | 0.18mm/rev | 0.007"/rev |
| *Feed rate 3* | 0.28mm/rev | 0.011"/rev |
| *Auxiliary feed* | 343mm/min | 13.5"/min |
| Boring bar travel: | | |
| *Standard machine* | 3378mm | 133" |
| Machine weight: | 6142kg | 13541lbs |
| Overall dimensions, L x W x H: | 6030 x 1400 x 1975mm | 237.4 x 55.1 x 77.6" |
| Machine + Skid Weight: | 6971kg | 15369lbs |
| Shipping dimensions, L x W x H: | 6100 x 1430 x 2110mm | 240 x 56 x 83" |



# SureTap® ST910-90 MACHINE

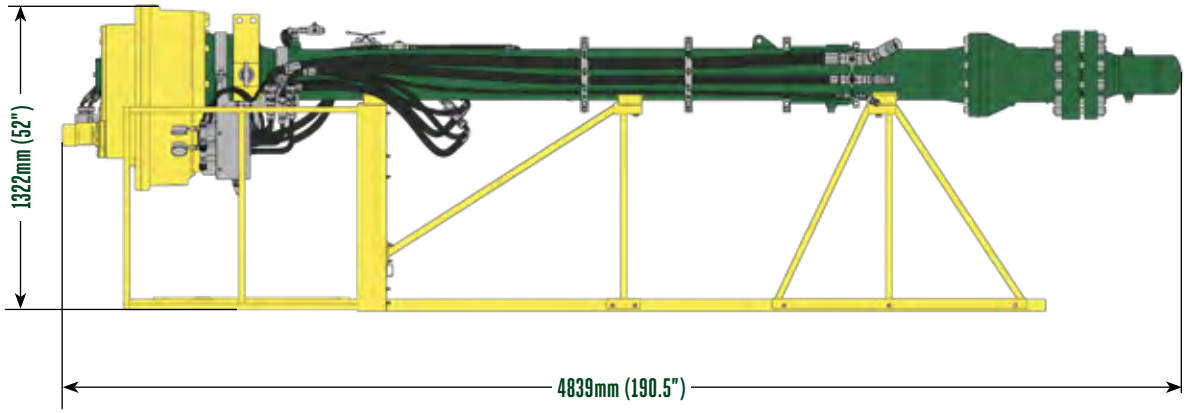
## 12" – 36"* cutter size
## 153 bar / 2220 psi pressure rating



- Process fluid seal housing features dual seal configuration
- Positive retention pilot drill system for robust securing and recovery of the cut pipe coupon
- Pressure compensated feed system
- Variable speed and feed configuration
- Suitable for use with sour (H2S) products
- Compatible with industry standard tapping equipment
- Capable of deploying and recovering completion plugs
- Dedicated transportation frame for secure shipping, storage and routine maintenance
- Subsea compatible
- Pressure class: ANSI Class 900

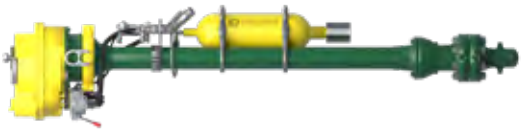
* Please consult STATS for cuts up to 42"

| Operating Parameters | | |
|---|---|---|
| Pressure – temperature rating: | ASME B16.5 Class 900. Table 2 - 1.1 | |
| Maximum operating pressure: | 153 Bar @38°C | 2220 psi @ 100°F |
| Operating temperature range - process fluid: | | |
| *Standard configuration* | -20°C to 121°C | -4°F to 250°F |
| Operating temperature range - ambient (atmospheric): | -20°C to 40°C | -4°F to 104°F |
| Minimum cutter size: | 12" | |
| Maximum cutter size: *STANDARD RANGE* | 36" | |
| Maximum cutter size: *SPECIAL APPLICATIONS* | 42" | |
| Boring bar rotational speed: | 0 to 30 rpm | |
| Boring bar feed rates: | | |
| *Feed rate 1* | 0.10mm/rev | 0.004"/rev |
| *Feed rate 2* | 0.15mm/rev | 0.006"/rev |
| Boring bar size: | 101.6mm | 4" |
| Boring bar travel: | 3048mm | 120" |
| Machine weight: | 1934kg | 4264lbs |
| Overall dimensions, L x W x H: | 4839 x 1221 x 1322mm | 190.5 x 48 x 52" |
| Machine with Ladder / Platform & Transport Frame weight: | 2800kg | 6172lbs |
| Shipping dimensions, L x W x H: | 5131 x 1700 x 1422mm | 202 x 66.9 x 56" |



# SureTap® ST410-90 MACHINE

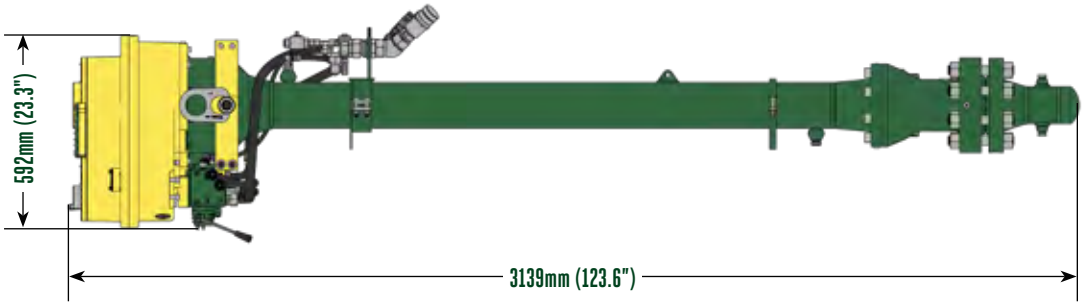
## 4" – 16"* cutter size
## 153 bar / 2220 psi pressure rating



- Process fluid seal housing features dual seal configuration
- Positive retention pilot drill system for robust securing and recovery of the cut pipe coupon
- Pressure compensated feed system
- Variable speed and feed configuration
- Suitable for use with sour (H2S) products
- Compatible with industry standard tapping equipment
- Capable of deploying and recovering completion plugs
- Dedicated transportation frame for secure shipping, storage and routine maintenance
- Subsea compatible
- Pressure class: ANSI Class 900

* Please consult STATS for cuts up to 20"

| Operating Parameters | | |
|---|---|---|
| Pressure – temperature rating: | ASME B16.5 Class 900. Table 2 - 1.1 | |
| Maximum operating pressure: | 153 Bar @38°C | 2220 psi @ 100°F |
| Operating temperature range - process fluid: | | |
| *Standard configuration* | -20°C to 121°C | -4°F to 250°F |
| Operating temperature range - ambient (atmospheric): | -20°C to 40°C | -4°F to 104°F |
| Minimum cutter size: | 4" | |
| Maximum cutter size: *STANDARD RANGE* | 16" | |
| Maximum cutter size: *SPECIAL APPLICATIONS* | 20" | |
| Boring bar rotational speed: | 0 to 40 rpm | |
| Boring bar feed rates: | | |
| *Feed rate 1* | 0.08mm/rev | 0.003"/rev |
| *Feed rate 2* | 0.13mm/rev | 0.005"/rev |
| Boring bar size: | 69.9mm | 2.8" |
| Boring bar travel: | 1880mm | 74" |
| Machine weight: | 540kg | 1190lbs |
| Overall dimensions, L x W x H: | 3139 x 611 x 592mm | 123.6 x 24.1 x 23.3" |
| Machine with Ladder / Platform & Transport Frame weight: | 809kg | 1784lbs |
| Shipping dimensions, L x W x H: | 3300 x 800 x 750mm | 129.9 x 31.5 x 29.5" |



# SureTap® ST150-60 MACHINE

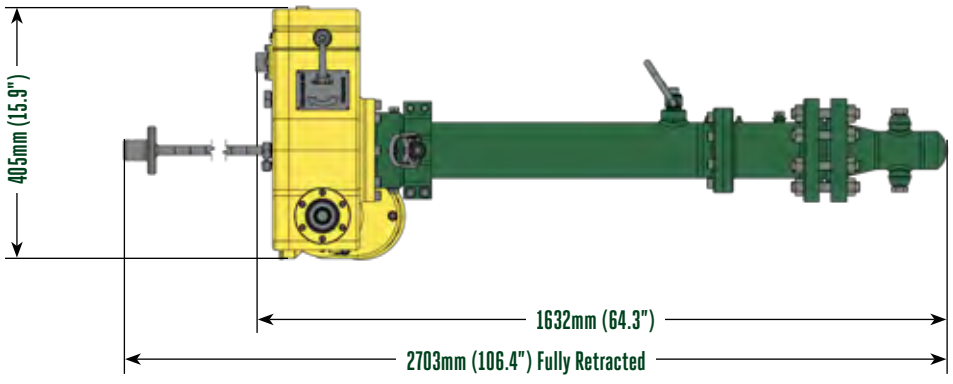
## 2" – 6"* cutter size
## 102 bar / 1480 psi pressure rating

- Variable speed and feed configuration
- Suitable for use with sour (H2S) products
- Compatible with industry standard tapping equipment

- Capable of deploying and recovering completion plugs
- Dedicated transportation frame for secure shipping, storage and routine maintenance
- Subsea compatible
- Pressure class: ANSI Class 600

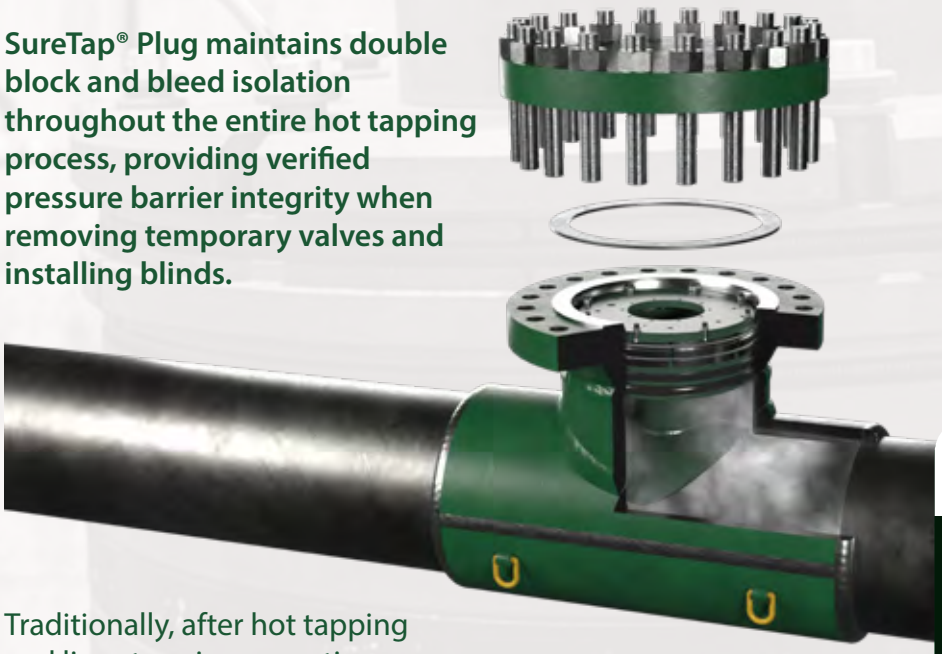
* Please consult STATS for cuts up to 8"

| Operating Parameters | | |
|---|---|---|
| Pressure – temperature rating: | ASME B16.5 Class 600. Table 2 - 1.1 | |
| Maximum operating pressure: | 102 Bar @38°C | 1480 psi @ 100°F |
| Operating temperature range - process fluid: | | |
| *Standard configuration* | -20°C to 121°C | -4°F to 250°F |
| *High temperature service module* | 0°C to 370°C | 32°F to 698°F |
| Operating temperature range - ambient (atmospheric): | -20°C to 40°C | -4°F to 104°F |
| Minimum cutter size: | 2" | |
| Maximum cutter size: *STANDARD RANGE* | 6" | |
| Maximum cutter size: *SPECIAL APPLICATIONS* | 8" | |
| Boring bar rotational speed: | 0 to 40 rpm | |
| Boring bar feed rates: | | |
| *Feed rate 1* | 0.08mm/rev | 0.003"/rev |
| *Feed rate 2* | 0.13mm/rev | 0.005"/rev |
| Boring bar size: | 42.8mm | 1.7" |
| Boring bar travel: | 1016mm | 40" |
| Machine weight: | 125kg | 276lbs |
| Overall dimensions, L x W x H: | 1632 x 595 x 405mm | 64.3 x 23.4 x 15.9" |
| Machine with Ladder / Platform & Transport Frame weight: | 210kg | 463lbs |
| Shipping dimensions, L x W x H: | 1800 x 700 x 530mm | 70.9 x 27.6 x 20.9" |



# SureTap® Plug
## Double Block & Bleed Completion Plug

**SureTap® Plug maintains double block and bleed isolation throughout the entire hot tapping process, providing verified pressure barrier integrity when removing temporary valves and installing blinds.**



Traditionally, after hot tapping and line stopping operations have been completed using tested dual-seal isolation systems, operators must rely on completion plugs incorporating a single O-ring seal. This compromises the DBB integrity established during the operation and introduces operational risk.

SureTap Plug fundamentally changes this approach by delivering true DBB capability when deploying completion plugs in hot tap fittings. Two independent compression seals, separated by a testable annulus, enable operators to verify both seal integrity and correct plug positioning before the deployment system is disconnected and vented. This allows the pressure barrier to be fully tested before any ejection load is applied to the plug.

The hydraulically actuated design incorporates multiple fail-safe features, including lock segments that engage with a machined groove in the completion flange and a compression prevention plate that prevents seal activation until the plug is correctly positioned and locked.

By maintaining the same level of isolation integrity established during hot tapping and line stopping operations, SureTap Plug provides a verified, tested pressure barrier without requiring specialist licensing or proprietary deployment procedures. The integrated design eliminates external actuators and penetrations on the completion flange, reducing potential leak paths compared to conventional designs that require external lock dogs or setting mechanisms. It represents a significant advancement in completion plug safety, bringing final-stage operations in line with modern DBB standards.

## Specification

- **Size Range:** 6" to 56" (covers majority of hot tapping applications)
- Pressure Ratings: 300#, 600#, 900# as standard | 1500# available on request
- **Deployment Options:** Standard SureTap hot tap machines | Dedicated hydraulic launcher system (available for rent or purchase)
- **Seal Configuration:** Dual independently testable compression seals with intermediate annulus
- **Product Compatibility:** Hydrocarbons, hydrogen, high-pressure liquid $CO_2$
- **Design Life:** 25-year minimum (suitable for permanent abandonment)
- **Locking Mechanism:** Internal radial lock segments engaging with standard industry completion flange groove (no external penetrations)
- **Standards Compliance:** IMCA subsea diver safety requirements for double block and bleed isolation
- **Applications:** Onshore/topsides and subsea environments

# PROCESS PLANT SOLUTIONS

# Process Plant Solutions
## Maintenance & Repair

**By far the most challenging activity for any facility is the planning and execution of shutdown maintenance activities and repairs. With the safety of personnel and asset integrity being the primary consideration for any task, the execution of all repair work demands the use of safe, reliable and efficient equipment operated by experienced and professional technicians.**

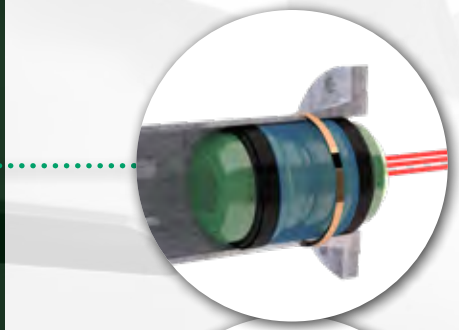
**STATS understand the criticality of system outages, and that operators need to meet production and export commitments in conjunction with managing safety obligations, reducing outage costs and complying with environmental requirements.**

**With an extensive track record, STATS provides best in class equipment for sale or rental to major operators and contractors during maintenance shutdowns and turnarounds. STATS has gained an excellent reputation for providing a responsive service, improving safety, efficiency and reducing client expenditure and downtime during maintenance activities.**

# Products & Services

## Localised Hydrostatic Test Tools

In-Line and Flanged Test Tools provide hot work barriers and localised hydrostatic testing to verify the integrity of welds or fittings, reducing system downtime, minimising environmental impact and increasing worksite safety.

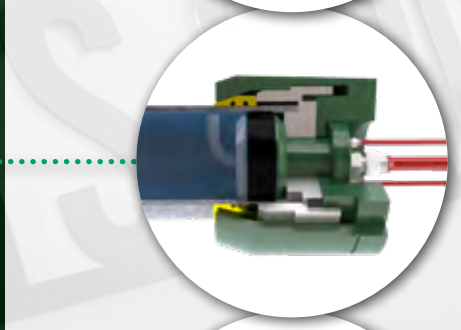


## SureSafe Plug™

SureSafe™ plugs provide a simple and effective low pressure isolation solution, allowing hot work activities to be carried out safely. The plugs provide assurance of a secure, leak-tight vapour barrier.

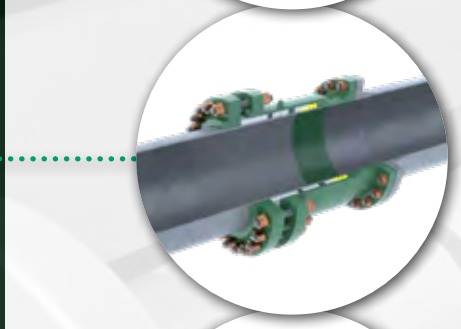
## Pipe End Plugs

Pipe End Plugs provide a fast and efficient method of installing temporary test caps on open ended pipe, pipe spools or piping systems to facilitate hydrostatic leak and strength tests. Pipe End Plugs reduce time and costs compared to traditional methods of welding end caps to the pipe spool. The Pipe End Plug range covers two separate products with the I-PEP™ fitting the pipe internally and the patented E-PEP™ gripping the pipe externally.



## Mechanical Pipe Connectors

STATS Type Approved mechanical pipe connectors provide a cold-work solution, removing the associated risks of welding. Easy to install, this permanent solution significantly reduces maintenance duration and provides a cost-effective solution for piping repair, tie-in or capping of pipework.



## Pin-Hole Leak Repair Clamps

Pin-Hole Leak Repair Clamps have been developed for process piping repair in oil and gas process facilities. Easily installed with minimal disruption to the pipework or operation of the system, the repair clamps provide a rapid and versatile solution for localised leak points.

## Onsite Machining Services

Onsite machining services include pipe cutting and weld prep application, trepanning, flange re-facing and controlled bolting to complement our extensive range of time-saving Process Plant Solutions equipment. Multi-disciplined, trained and competent technicians available to support all product lines.

# In-Line Weld Test Tool

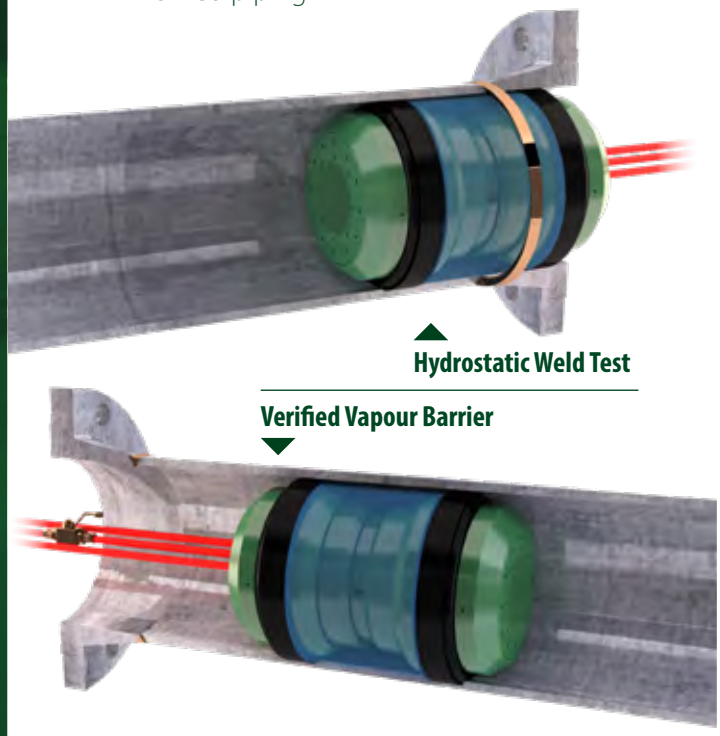
In-Line Weld Test Tools provide a fast and efficient method of verifying the integrity of welds or fittings. Localised hydrostatic testing reduces system downtime, minimising environmental impact and increasing worksite safety. Additionally, In-Line Weld Test Tools can be used to provide a verified atmospheric barrier adjacent to the hot work source, only where containment is maintained at atmospheric pressure.

## Operator Benefits

- **Reduces system downtime and increases worksite safety by minimising pressure test volume**
- **Operators save time and reduce costs by limiting test area to only new welds or welded components**
- **Timely completion of maintenance and modification activities**
- **No requirement to flood & de-water gas systems**
- **No requirement for full system pressurisation beneficial to mature systems by decreasing potential for spading or leakage**
- **Installed and activated in a matter of minutes**
- **Sale or rental options available, complete with full ancillary equipment**

## Key Features

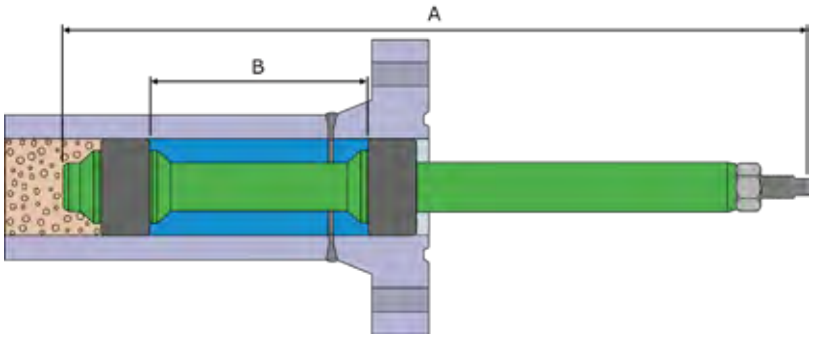
- Simple, straight forward installation and operation
- Installed and activated in a matter of minutes
- Large section high quality elastomer seals ensure a leak tight seal, even in pitted pipework
- Designed with generous radial clearance to cope with typical internal obstructions such as weld beads, ovality, etc
- Easily installed pre hot work operations to provide a verified vapour barrier
- Suitable for use with most test mediums (liquid or gas)
- High performance elastomer seals provide excellent radial expansion and relaxation properties, after many operating cycles
- Robust construction ensures years of trouble free operation even in the harshest environments
- Suitable for installation in horizontal, vertical and inclined piping



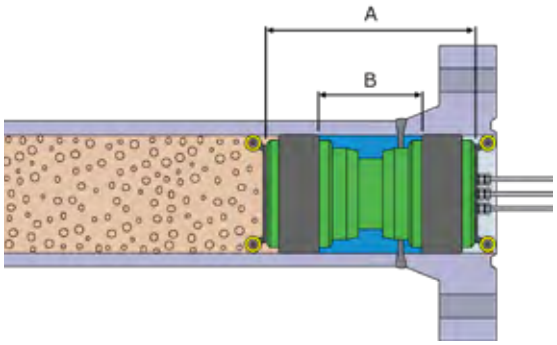

## Specification

- **Size range: common pipe sizes ¾"- 36" as standard. Sizes up to 72" available on request**
- **Hydraulically actuated above 2"**
- **Pressure range up to 690 bar / 10,000 psi dependent on specification, maximum test pressure to suit system**
- **Pressure assisted sealing**

# In-Line Weld Test Tool
## Interface Dimensions




Mechanical In-Line Weld Test Tool ¾" up to 2"




Hydraulic In-Line Weld Test Tool 3" up to 36"

| Tool Ref Size | Tool Model Number | Tool Diameter | Compatible Pipe Schedules | Tool Maximum Working Pressure | Overall Length - A | Length Between Seals -B | Weight |
|---|---|---|---|---|---|---|---|
| ¾" | TT0013 | 13mm | ¾" XS, 80, 80s | 600 Bar | 222mm | 86mm | 0.5kg |
| ¾" | TT0017 | 17.6mm | ¾" 30, 40, 40s, Std | 500 Bar | 222mm | 86mm | 0.5kg |
| ¾" | TT0021 | 21.3mm | ¾" 5, 5s, 10, 10s | 400 Bar | 222mm | 86mm | 0.5kg |
| 1" | TT0017 | 17.6mm | 1" 160 | 550 Bar | 222mm | 86mm | 0.5kg |
| 1" | TT0021 | 21.3mm | 1" 10, 10s, 30, 40, Std, XS, 80, 80s | 550 Bar | 245mm | 90mm | 1kg |
| 1" | TT0027 | 27mm | 1" 5, 5s | 550 Bar | 245mm | 90mm | 1kg |
| 1½" | TT0024 | 24mm | 1½" XXS | 550 Bar | 245mm | 90mm | 1kg |
| 1½" | TT0030 | 30mm | 1½" 160 | 350 Bar | 245mm | 90mm | 1kg |
| 1½" | TT0034 | 34mm | 1½" 30, 40, 40s, Std, XS, 80, 80s | 800 Bar | 280mm | 100mm | 1kg |
| 1½" | TT0037 | 37mm | 1½" 5, 5s, 10, 10s | 600 Bar | 280mm | 100mm | 1kg |
| 2" | TT0034 | 34mm | 2" XXS | 1000 Bar | 280mm | 100mm | 1kg |
| 2" | TT0037 | 37mm | 2" 160 | 750 Bar | 280mm | 100mm | 1kg |
| 2" | TT0045 | 45mm | 2" 5, 5s, 10, 10s, 30, 40, Std, XS, 80, 80s | 400 Bar | 280mm | 100mm | 1kg |
| 3" | TT0054 | 54.9mm | 3" XXS | 1000 Bar | 200mm | 94mm | 5kg |
| 3" | TT0062 | 62.6mm | 3" 160 | 820 Bar | 200mm | 94mm | 5kg |
| 3" | TT0069 | 69.7mm | 3" XS, 80, 80s | 590 Bar | 200mm | 94mm | 5kg |
| 3" | TT0073 | 73mm | 3" 30, Std, 40, 40s | 600 Bar | 206mm | 120mm | 6.5kg |
| 3" | TT0078 | 78.8mm | 3" 10, 10s | 525 Bar | 206mm | 120mm | 6.5kg |
| 3" | TT0081 | 81mm | 3" 5, 5s | 475 Bar | 206mm | 120mm | 6.5kg |
| 4" | TT0073 | 73mm | 4" XXS | 550 Bar | 206mm | 120mm | 6.5kg |
| 4" | TT0081 | 81mm | 4" 160 | 425 Bar | 206mm | 120mm | 6.5kg |
| 4" | TT0086 | 86mm | 4" 120 | 350 Bar | 206mm | 120mm | 6.5kg |
| 4" | TT0091 | 91.2mm | 4" XS, 80, 80s | 325 Bar | 206mm | 120mm | 6.5kg |
| 4" | TT0096 | 96.3mm | 4" 30, Std, 40, 40s | 275 Bar | 206mm | 120mm | 6.5kg |
| 4" | TT0102 | 102.5mm | 4" 5, 5s, 10, 10s | 225 Bar | 206mm | 120mm | 6.5kg |
| 5" | TT0096 | 96.3mm | 5" XXS | 275 Bar | 206mm | 120mm | 6.5kg |
| 5" | TT0102 | 102.5mm | 5" 120, 160 | 225 Bar | 206mm | 120mm | 6.5kg |
| 5" | TT0124 | 124.3mm | 5" 5, 5s, 10, 10s, Std, 40, 40s | 500 Bar | 308mm | 197mm | 24kg |
| 5" | TT0116 | 116.9mm | 5" XS, 80, 80s | 650 Bar | 308mm | 197mm | 24kg |
| 6" | TT0116 | 116.9mm | 6" XXS | 650 Bar | 308mm | 197mm | 24kg |
| 6" | TT0124 | 124.3mm | 6" 160 | 550 Bar | 308mm | 197mm | 24kg |
| 6" | TT0132 | 132.2mm | 6" 120 | 450 Bar | 308mm | 197mm | 24kg |
| 6" | TT0138 | 138.9mm | 6" XS, 80, 80s | 400 Bar | 308mm | 197mm | 24kg |
| 6" | TT0146 | 146.6mm | 6" Std, 40, 40s | 350 Bar | 308mm | 197mm | 24kg |
| 6" | TT0154 | 154.6mm | 6" 5, 5s, 10, 10s | 300 Bar | 308mm | 197mm | 24kg |
| 8" | TT0165 | 165.8mm | 8" 140, 160, XXS | 900 Bar | 413mm | 269mm | 60kg |
| 8" | TT0174 | 174.6mm | 8" 120 | 800 Bar | 413mm | 269mm | 60kg |
| 8" | TT0180 | 180.9mm | 8" XS, 80, 80s, 100 | 700 Bar | 413mm | 269mm | 60kg |
| 8" | TT0190 | 190.5mm | 8" Std, 20, 30, 40, 40s, 60 | 550 Bar | 413mm | 269mm | 60kg |
| 8" | TT0204 | 204.7mm | 8" 5, 5s, 10, 10s | 500 Bar | 413mm | 269mm | 60kg |

# In-Line Weld Test Tool
## Interface Dimensions

| Tool Ref Size | Tool Model Number | Tool Diameter | Compatible Pipe Schedules | Tool Maximum Working Pressure | Overall Length - A | Length Between Seals -B | Weight |
|---|---|---|---|---|---|---|---|
| 10" | TT0204 | 204.7mm | 10" 160 | 500 Bar | 413mm | 269mm | 60kg |
| 10" | TT0212 | 212.3mm | 10" 140, XXS | 450 Bar | 413mm | 269mm | 60kg |
| 10" | TT0220 | 220.2mm | 10" 120 | 400 Bar | 413mm | 269mm | 60kg |
| 10" | TT0226 | 226.6mm | 10" 100 | 375 Bar | 413mm | 269mm | 60kg |
| 10" | TT0233 | 233mm | 10" XS, 60, 80, 80s | 1000 Bar | 500mm | 269mm | 160kg |
| 10" | TT0243 | 243.5mm | 10" Std, 40, 40s | 950 Bar | 500mm | 269mm | 160kg |
| 10" | TT0246 | 246mm | 10" 20, 30 | 900 Bar | 500mm | 269mm | 160kg |
| 10" | TT0253 | 253.7mm | 10" 5, 5s, 10, 10s | 800 Bar | 500mm | 269mm | 160kg |
| 12" | TT0243 | 243.5mm | 12" 160 | 950 Bar | 500mm | 269mm | 160kg |
| 12" | TT0260 | 260mm | 12" 120, 140, XXS | 750 Bar | 500mm | 269mm | 160kg |
| 12" | TT0270 | 270mm | 12" 100 | 650 Bar | 500mm | 269mm | 160kg |
| 12" | TT0277 | 277mm | 12" 80 | 600 Bar | 500mm | 269mm | 160kg |
| 12" | TT0285 | 285mm | 12" XS, 60, 80s | 550 Bar | 500mm | 269mm | 160kg |
| 12" | TT0291 | 291mm | 12" 40,40s | 500 Bar | 500mm | 269mm | 180kg |
| 12" | TT0295 | 295mm | 12" Std, 30 | 500 Bar | 500mm | 269mm | 180kg |
| 12" | TT0300 | 300mm | 12" 10, 10s, 20 | 450 Bar | 500mm | 269mm | 180kg |
| 12" | TT0304 | 304mm | 12" 5, 5s | 450 Bar | 500mm | 269mm | 180kg |
| 14" | TT0270 | 270mm | 14" 160 | 650 Bar | 500mm | 269mm | 180kg |
| 14" | TT0277 | 277mm | 14" 140 | 575 Bar | 500mm | 269mm | 180kg |
| 14" | TT0285 | 285mm | 14" 120 | 550 Bar | 500mm | 269mm | 180kg |
| 14" | TT0295 | 295mm | 14" 100 | 500 Bar | 500mm | 269mm | 180kg |
| 14" | TT0304 | 304mm | 14" 80 | 450 Bar | 500mm | 269mm | 180kg |
| 14" | TT0311 | 311mm | 14" 60 | 425 Bar | 500mm | 269mm | 180kg |
| 14" | TT0316 | 316mm | 14" XS | 400 Bar | 500mm | 269mm | 180kg |
| 14" | TT0322 | 322mm | 14" Std, 20, 30, 40 | 375 Bar | 500mm | 269mm | 180kg |
| 14" | TT0332 | 332mm | 14" 5, 5s, 10, 10s | 350 Bar | 500mm | 269mm | 180kg |
| 16" | TT0311 | 311mm | 16" 160 | 1000 Bar | 748mm | 462mm | 380kg |
| 16" | TT0319 | 319mm | 16" 140 | 1000 Bar | 748mm | 462mm | 380kg |
| 16" | TT0330 | 330mm | 16" 120 | 1000 Bar | 748mm | 462mm | 380kg |
| 16" | TT0339 | 339mm | 16" 100 | 900 Bar | 748mm | 462mm | 380kg |
| 16" | TT0350 | 350.5mm | 16" 80 | 875 Bar | 748mm | 462mm | 380kg |
| 16" | TT0358 | 358mm | 16" 60 | 825 Bar | 748mm | 462mm | 380kg |
| 16" | TT0364 | 364.8mm | 16" XS, 40 | 750 Bar | 748mm | 462mm | 380kg |
| 16" | TT0373 | 373mm | 16" Std, 20, 30, 40 | 700 Bar | 748mm | 462mm | 380kg |
| 16" | TT0381 | 381.2mm | 16" 5, 5s, 10, 10s | 650 Bar | 748mm | 462mm | 380kg |
| 18" | TT0350 | 350.5mm | 18" 160 | 875 Bar | 748mm | 462mm | 380kg |
| 18" | TT0358 | 358mm | 18" 140 | 750 Bar | 748mm | 462mm | 380kg |
| 18" | TT0364 | 364.8mm | 18" 120 | 700 Bar | 748mm | 462mm | 380kg |
| 18" | TT0388 | 388mm | 18" 30, XS, 40, 60, 80, 100 | 425 Bar | 600mm | 320mm | 395kg |
| 18" | TT0430 | 430mm | 18" 5, 5s, 10, 10s 20, Std | 375 Bar | 600mm | 315mm | 395kg |
| 20" | TT0450 | 450mm | 20" 60, 40 | 400 Bar | 620mm | 311mm | 575kg |
| 20" | TT0478 | 478mm | 20" 20, Std, 10, 10s, 5, 5s | 900 Bar | 710mm | 345mm | 725kg |
| 22" | TT0430 | 430mm | 22" 160, 140 | 325 Bar | 600mm | 315mm | 450kg |
| 22" | TT0478 | 430mm | 22" 100, 80, 60 | 1000 Bar | 710mm | 345mm | 450kg |
| 22" | TT0520 | 520mm | 22" 5, 5s, 10, 10s, Std, 20, XS, 30 | 550 Bar | 710mm | 345mm | 760kg |
| 24" | TT0478 | 478mm | 24" 120, 140, 160 | 850 Bar | 710mm | 345mm | 725kg |
| 24" | TT0520 | 520mm | 24" 100, 80, 60 | 500 Bar | 710mm | 345mm | 760kg |
| 24" | TT0550 | 550mm | 24" Std, 20, XS, 30, 40 | 400 Bar | 710mm | 345mm | 825kg |
| 28" | TT0660 | 660mm | 28" XS, 20, 30 | 250 Bar | 844mm | 412mm | 1180kg |
| 28" | TT0680 | 680mm | 28" 10, Std | 250 Bar | 844mm | 412mm | 1250kg |
| 30" | TT0720 | 720mm | 30" 10, Std, XS, 20, 30 | 250 Bar | 844mm | 412mm | 1400kg |
| 36" | TT0837 | 837mm | 36" 10, Std, XS, 20, 30, 40 | 340 Bar | 823mm | 356mm | 2000kg |

# Flanged Weld Test Tool

Flanged Weld Test Tools enable localised pressure testing of new flange welds. These tools minimise the test system limits and reduce the time required to undertake maintenance or modification work. The tools are designed with a single seal and flange configuration and are available in a range of sizes compatible with common pipe schedules and flange types / sizes.

## Operator Benefits

- **Reduces system downtime and increases worksite safety by minimising pressure test volume**
- **Saves times and reduces costs by limiting test area to only the new weld or welded component**
- **Timely completion of maintenance and modification activities**
- **No requirement to flood and de-water gas systems**
- **No requirement for full system pressurisation, beneficial to mature systems by decreasing potential for spading or leakage**
- **Sale or rental options available, complete with full ancillary equipment**

**18" Flanged Weld Test Tool**

## Key Features

- Simple, straight forward installation and operation
- Easily installed, activated in a matter of minutes
- Large section high quality elastomer seals ensure a leak tight seal, even in pitted pipework
- Designed with generous radial clearance to cope with typical internal obstructions such as weld beads / ovality
- Tools can be configured to suit applications where hydrotest is required on butt weld between flange and welded fitting such as an elbow or tee
- Suitable for use with most test mediums (liquid or gas)
- High performance elastomer seals provide excellent radial expansion and relaxation properties, even after many operating cycles
- Robust construction ensures years of trouble free operation even in the harshest environments
- Suitable for installation in horizontal, vertical and inclined piping

**Flanged Weld Test Tool Hydrotest**

**Mechanical Flanged Weld Test Tools**

## Specification

- **Size range: common pipe sizes ½"- 36" as standard. Sizes up to 48" available on request**
- **Designed to provide recommended test pressure requirements up to ASME 2500#**
- **Separate fill and vent ports**
- **Pressure assisted sealing**

# SureSafe™

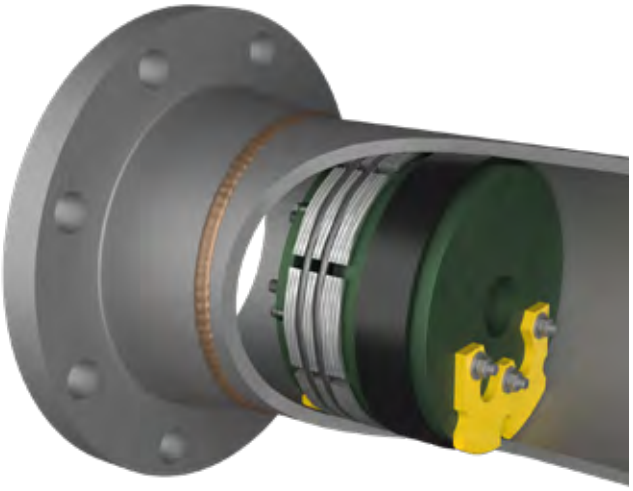
STATS SureSafe™ plugs provide a simple and effective low pressure isolation solution, allowing hot work activities to be carried out safely. Suitable for pressures from ambient to up to 10 bar, the plugs provide assurance of a secure, leak-tight vapour barrier and will be supplied with mechanical or hydraulic activation depending upon size. Integrated taper locks together with a vent port for pressure monitoring and, if required, purging operations protect personnel and the worksite by minimising the risks from unexpected pressure build-up.

## Operator Benefits

- **Quick and safe to install**
- **Safe during hot work activities**
- **Solid rubber compression seal combined with taper locks provide assurance against the risks from unexpected pressure build-up**
- **Vent port for downstream monitoring, venting and purging operations**
- **Vent port can be locked into gauge to reduce risk of damage to vent hose**
- **Significant track record**
- **Pipeline stress verification/assurance provided as standard**

## Key Features

- Size range: 3″ to 48″
- Hydraulically activated above 6″
- Pressure range: up to 10 bar
- Leak-tight NBR elastomeric seal material (alternative seal material available to suit application)
- Integrated taper grip locks
- Lightweight tool
- Temperature range: 0°C to 100°C



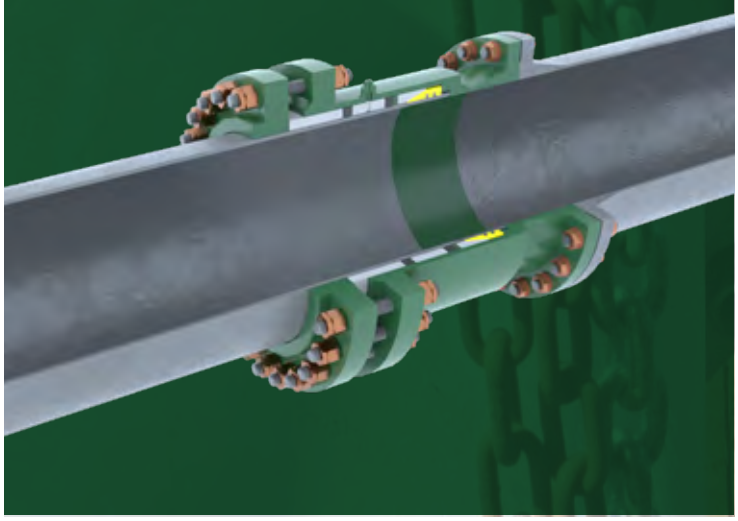
# Mechanical Pipe Connectors

STATS Type Approved mechanical pipe connectors provide a cold-work solution, removing the associated risks of welding. Quick and efficient to install, this permanent solution significantly reduces maintenance duration and provides a cost-effective solution for piping repair, tie-in or capping of pipework.

Easy to install with only basic pipework preparation, STATS mechanical connectors follow a simple standard bolted installation with no specialist tools required. This results in timely completion of maintenance activities and avoids the costly hire of specialist installation or activation equipment.

Once installed the integrity of the Connector is verified with a simple pressure test. An integrated seal verification port provides access to the annulus void between the seals allowing a leak-test to be carried out.

A double block and bleed valve can be fitted to the seal verification port to provide a means of periodically monitoring the integrity of the connection, as part of a routine maintenance or inspection programme. Mechanical connectors have been fitted to a variety of piping systems with a 100% leak-free service history.



## Operator Benefits

- **Simple, straight forward installation and operation**
- **Easily installed, activated in a matter of minutes**
- **Large section high quality elastomer seals ensure a leak tight seal, even in pitted pipework**
- **Designed with generous radial clearance to cope with typical internal obstructions such as weld beads / ovality**
- **Tools can be configured to suit applications where hydrotest is required on butt weld between flange and welded fitting such as an elbow or tee**
- **Suitable for use with most test mediums (liquid or gas)**
- **High performance elastomer seals provide excellent radial expansion and relaxation properties, even after many operating cycles**
- **Robust construction ensures years of trouble free operation even in the harshest environments**
- **Suitable for installation in horizontal, vertical and inclined piping**

## Key Features

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- Robust construction ensures years of trouble free operation even in the harshest environments
- Suitable for installation in horizontal, vertical and inclined piping

# Mechanical Pipe Connectors

Connectors are suitable for topside, terminal, FPSO or subsea installation and compatible with processed water, air systems and hydrocarbon applications. Available to suit a wide range of pipe materials including carbon steel, stainless steel, duplex and super duplex.

Connectors conform to ISO 21329 Standard and are DNV Type Approved, compliant with DNV-OS-F101:2012 Submarine Pipeline Repair and DNV-RP-F113:2007, Pipeline Subsea Repair. (Cert No: TAP00000BE).

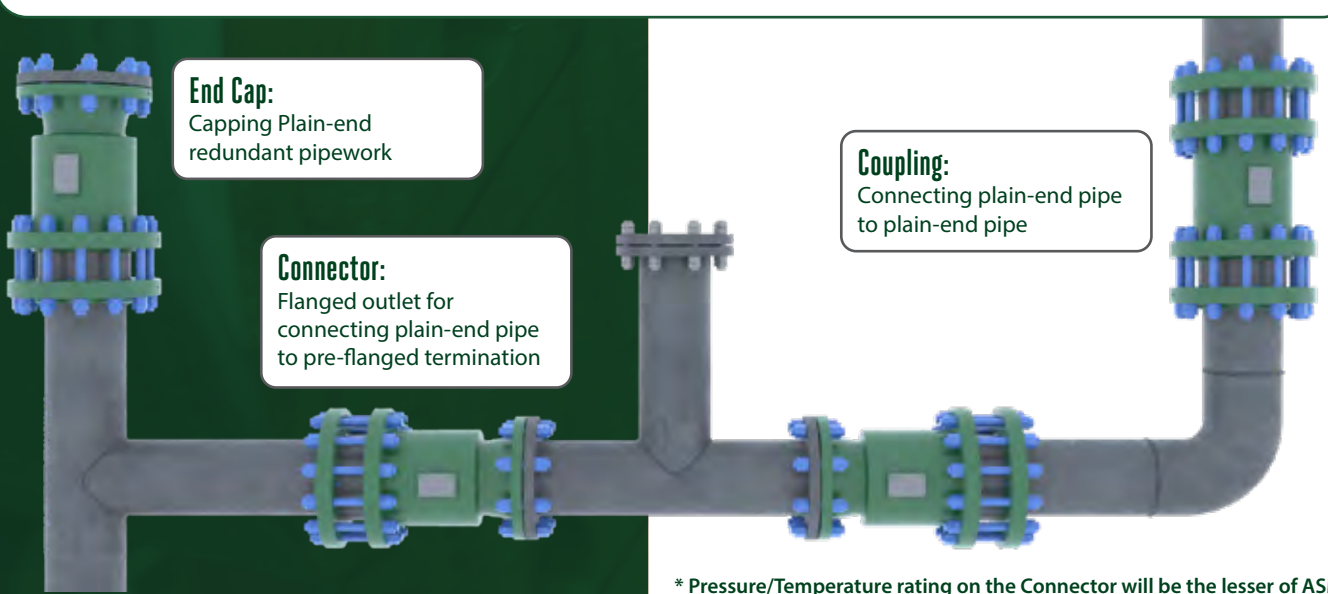
The Connector assembly and components are designed in accordance with API 6H requirements, with design strength verified in accordance with ASME B31.3 and other codes (ASME B31.4, B31.8, ASME VIII, etc.). Designed to fit standard pipe specification (ASME B36.10 & B36.19, API 5L, etc.) and fire tested to API 6 FA.

## For Titanium Pipelines

STATS mechanical connectors are now DNV type approved for use on titanium pipelines, offering the energy industry a safe and efficient alternative to welding. Unlike existing alternatives that are limited in size range or lack proper testing capabilities, STATS connectors provide a reliable, permanent connection with an integrated test port— enabling a leak test to be performed once the connector is fully installed – negating the need for additional joint testers.

## Specification

- **Sizes 0.75" to 60" as standard, sizes up to 72" available on request**
- **Maximum working pressure: up to ASME 300# (50 bar / 725 psi) as standard, up to ASME 1500# (256 bar / 3713 psi) available on request***
- **Temperature range: -40°C to 300°C as standard**
- **Dual graphite seal arrangement with verification port to enable pre-commission leak-test**
- **Minimum design life 20 years**
- **DNV Type Approved, compliant with DNV-OS-F101:2012 Submarine Pipeline Repair and DNV-RP-F113:2007, Pipeline Subsea Repair. (Cert No: TAP00000BE).**




*** Pressure/Temperature rating on the Connector will be the lesser of ASME codes for flanges and/or seal material**

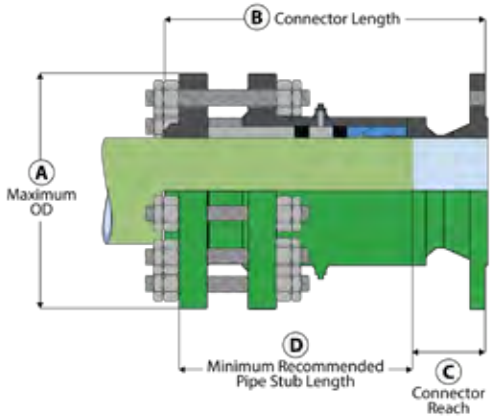
# Connector Weights & Dimensions

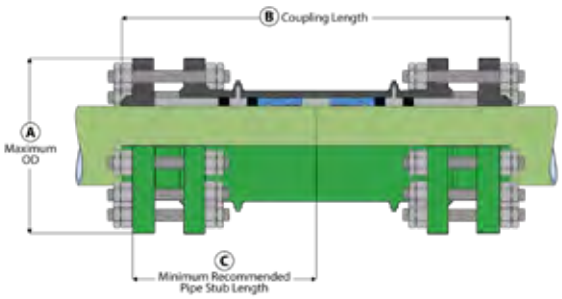
| Nom Size | Max Design Pressure | A-OD | B-Length | C-Reach | D-Pipe Stub Length | Weight |
|---|---|---|---|---|---|---|
| 1″ | 20 Bar / 290 psi | 155mm | 366mm | 75mm | 265mm | 13kg |
| 1″ | 50 Bar / 725 psi | 155mm | 366mm | 75mm | 265mm | 13kg |
| 1.5″ | 20 Bar / 290 psi | 155mm | 346mm | 85mm | 233mm | 12kg |
| 1.5″ | 50 Bar / 725 psi | 155mm | 346mm | 85mm | 233mm | 12kg |
| 2″ | 20 Bar / 290 psi | 165mm | 335mm | 91mm | 235mm | 16kg |
| 2″ | 50 Bar / 725 psi | 165mm | 347mm | 97mm | 235mm | 16kg |
| 3″ | 20 Bar / 290 psi | 210mm | 390mm | 98mm | 269mm | 27kg |
| 3″ | 50 Bar / 725 psi | 210mm | 403mm | 107mm | 269mm | 32kg |
| 4″ | 20 Bar / 290 psi | 254mm | 487mm | 115mm | 349mm | 44kg |
| 4″ | 50 Bar / 725 psi | 254mm | 496mm | 124mm | 349mm | 43kg |
| 6″ | 20 Bar / 290 psi | 318mm | 489mm | 120mm | 351mm | 72kg |
| 6″ | 50 Bar / 725 psi | 318mm | 499mm | 130mm | 351mm | 81kg |
| 8″ | 20 Bar / 290 psi | 381mm | 549mm | 138mm | 385mm | 116kg |
| 8″ | 50 Bar / 725 psi | 381mm | 548mm | 148mm | 385mm | 131kg |
| 10″ | 20 Bar / 290 psi | 445mm | 601mm | 149mm | 419mm | 169kg |
| 10″ | 50 Bar / 725 psi | 445mm | 617mm | 166mm | 419mm | 189kg |
| 12″ | 20 Bar / 290 psi | 521mm | 662mm | 161mm | 471mm | 245kg |
| 12″ | 50 Bar / 725 psi | 521mm | 678mm | 178mm | 471mm | 269kg |
| 14″ | 20 Bar / 290 psi | 584mm | 713mm | 178mm | 503mm | 345kg |
| 14″ | 50 Bar / 725 psi | 584mm | 729mm | 194mm | 503mm | 384kg |
| 16″ | 20 Bar / 290 psi | 647mm | 737mm | 178mm | 522mm | 423kg |
| 16″ | 50 Bar / 725 psi | 647mm | 756mm | 197mm | 522mm | 451kg |
| 18″ | 20 Bar / 290 psi | 711mm | 819mm | 211mm | 572mm | 552kg |
| 18″ | 50 Bar / 725 psi | 711mm | 838mm | 230mm | 572mm | 618kg |
| 20″ | 20 Bar / 290 psi | 775mm | 850mm | 215mm | 601mm | 615kg |
| 20″ | 50 Bar / 725 psi | 775mm | 835mm | 231mm | 588mm | 651kg |
| 24″ | 20 Bar / 290 psi | 914mm | 873mm | 230mm | 609mm | 915kg |
| 24″ | 50 Bar / 725 psi | 915mm | 888mm | 246mm | 609mm | 1035kg |

# Coupling Weights & Dimensions

| Nom Size | Max Design Pressure | A-OD | B-Length | C-Pipe Stub Length | Weight |
|---|---|---|---|---|---|
| 2″ | 50 Bar / 725 psi | 165mm | 503mm | 228mm | 23Kg |
| 3″ | 50 Bar / 725 psi | 210mm | 590mm | 264mm | 40Kg |
| 4″ | 50 Bar / 725 psi | 254mm | 757mm | 354mm | 76Kg |
| 6″ | 50 Bar / 725 psi | 318mm | 747mm | 354mm | 118Kg |
| 8″ | 50 Bar / 725 psi | 381mm | 820mm | 379mm | 172Kg |
| 10″ | 50 Bar / 725 psi | 445mm | 759mm | 418mm | 208Kg |
| 12″ | 50 Bar / 725 psi | 521mm | 1012mm | 473mm | 401Kg |
| 14″ | 50 Bar / 725 psi | 584mm | 1093mm | 521mm | 400Kg |
| 16″ | 50 Bar / 725 psi | 648mm | 1138mm | 544mm | 675kg |
| 18″ | 50 Bar / 725 psi | 711mm | 1267mm | 599mm | 886kg |

*** Dimensions to be used for reference only. For exact dimensions please contact your STATS representative.**



# Pipe End Plugs

Pipe End Plugs provide a fast and efficient method of installing temporary test caps on plain end pipe for hydrostatic testing up to 350 bar / 5076 psi. Pipe End Plugs reduce time and material costs, minimise environmental impact and improve testing productivity and are robustly designed to sustain the rigours of the fabrication yard environment. STATS range of Pipe End Plugs cover two separate products with the I-PEP™ fitting the pipe internally and the patented E-PEP™ gripping the pipe externally.

## Operator Benefits

- **Reduced cost associated with welding / cutting end caps during construction and fabrication activities**
- **Saves time with faster completion of hydrostatic testing during construction and fabrication activities**
- **Sale or rental options available complete with full ancillary equipment**

All Pipe End Plugs are designed in accordance with STATS engineering standards (based on international codes) to facilitate testing in accordance with ASME B31.3 and similar piping codes. Sizes are based on standard pipe with interchangeable seals to cover ASME B36.10 and ASME B36.19 schedules.

16" E-PEP™ in Shipping Skid

## Key Features

- Simple, straight forward installation, installed and activated in a matter of minutes
- Test pressure applies differential pressure across the tool keeping the locks and seals self-energised ensuring fail-safe operation
- Generous radial clearance to cope with typical internal obstructions such as weld beads, ovality, etc
- Non-destructive, does not damage the interior / exterior wall of pipes or vessels
- Internal / external grip lock assembly applies even linear and circumferential grip load around the host pipe, eliminating localised material deformity and localised stress fractures
- High performance, large section, quality elastomer seals ensure a leak tight seal and provide excellent radial expansion and relaxation properties, even after many operating cycles
- Through-port allows efficient fill or vent of the test medium
- Robust construction ensures years of trouble free operation even in the harshest environments
- Suitable for installation in horizontal, vertical and inclined piping

Mechanical I-PEP™ with Securing Clamp

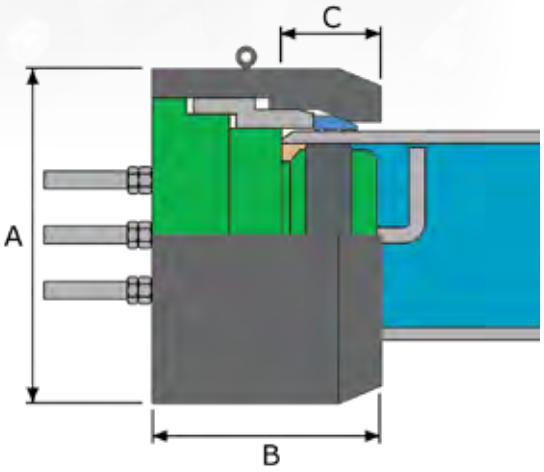
# E-PEP™
## External Pipe End Plug

The E-PEP series of patented Pipe End Plugs are fitted to the pipe end and hydraulically actuated, gripping the pipe externally.

The introduction of hydraulic set pressure activates a mechanical lock assembly that grips the outside diameter of the pipe whilst simultaneously energising an elastomeric seal in the inside diameter. This allows the pipework to be quickly and efficiently pressure tested with minimum preparation to the pipe end and no remedial work after the E-PEP is removed. A through-port allows the system to be filled and pressurised or vented through the E-PEP.

To remove the E-PEP from the pipe end, hydraulic pressure is applied to the unset circuit. Retracting the lock assembly and de-energising the seal, allowing the tool to be removed. The E-PEP range covers pipe sizes from 3" to 36" complementing the I-PEP range.

E-PEPs installed onto spool to provide hydrostatic pressure test




# E-PEP™ 3" - 36"
## Weights & Dimensions

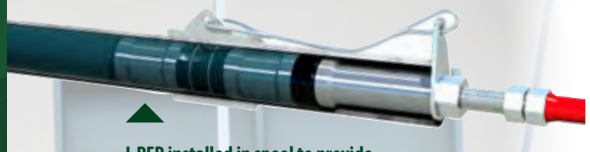
| Tool Ref Size | A - Outside Diameter | B - Overall Length | C - Length Required Of Engagement | Weight |
|---|---|---|---|---|
| 3" | 180mm | 211mm | 75mm | 35kg |
| 4" | 205mm | 200mm | 80mm | 41kg |
| 6" | 265mm | 266mm | 105mm | 74kg |
| 8" | 350mm | 255mm | 115mm | 160kg |
| 10" | 430mm | 365mm | 165mm | 336kg |
| 12" | 470mm | 370mm | 175mm | 397kg |
| 14" | 621mm | 562mm | 200mm | 602kg |
| 16" | 678mm | 562mm | 205mm | 704kg |
| 18" | 732mm | 567mm | 215mm | 825kg |
| 20" | 814mm | 587mm | 245mm | 1083kg |
| 24" | 892mm | 597mm | 245mm | 1261kg |
| 30" | 1080mm | 730mm | 260mm | 2036kg |
| 36" | 1279mm | 760mm | 265mm | 3050kg |

# I-PEP™
## Internal Pipe End Plug

The I-PEP series of Pipe End Plugs are inserted into the bore of the pipe and hydraulically actuated. These tools internally grip the pipe allowing hydrostatic pressure tests to be quickly and efficiently performed.

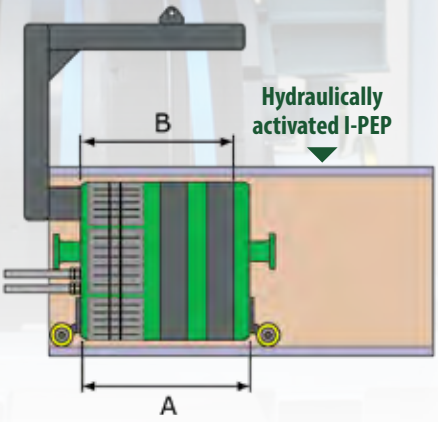
The introduction of hydraulic set pressure activates a mechanical lock assembly that grips the internal diameter of the pipe whilst simultaneously energising an elastomeric seal. This allows the pipework to be quickly and efficiently pressure tested with minimum preparation required to the internal surface of the pipe and no remedial work after the I-PEP is removed.

A through-port allows the system to be filled and pressurised or vented through the I-PEP. To remove the I-PEP from the pipe, hydraulic pressure is applied to the unset circuit, retracting the lock assembly and de-energising the seal allowing the tool to be removed. Hydraulic I-PEPs cover pipe sizes from 30" to 42", however for sizes ¾" to 2" mechanical tools are used and fitted with securing clamps for added safety.



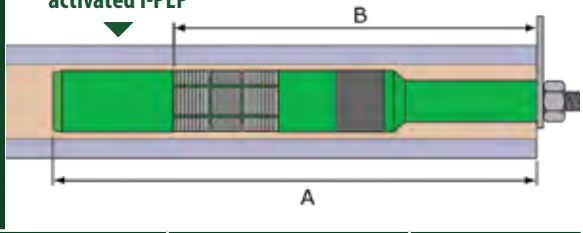
I-PEP installed in spool to provide hydrostatic pressure test, securing clamp fitted for added safety

I-PEPs installed in spool to provide hydrostatic pressure test




Hydraulically activated I-PEP

Mechanically activated I-PEP




## I-PEP™ ¾ - 2" Weights & Dimensions

| I-PEP Nominal Diameter | Pipe ID (Min - Max) | I-PEP OD | A - Overall Length | B - Length of Engagement | Weight |
|---|---|---|---|---|---|
| ¾" | 19 - 22mm | 17mm | 222mm | 126mm | 1kg |
| 1" | 24 - 28mm | 22mm | 245mm | 165mm | 1.5kg |
| 1½"" | 38 - 42mm | 34mm | 280mm | 184mm | 2.5kg |
| 2" | 49 - 57mm | 45mm | 280mm | 184mm | 2.5kg |

## I-PEP™ 30"- 42" Weights & Dimensions

* I-PEP maximum working pressure up to 350 bar / 5076psi. Dimensions to be used for reference only. For exact dimensions please contact your STATS representative.

| I-PEP Nominal Diameter | Pipe ID (Min - Max) | I-PEP OD | A - Overall Length | B - Seal To Lock (Unset)* | Weight |
|---|---|---|---|---|---|
| 30" | 635 - 675mm | 625mm | 1025mm | 584mm | 993kg |
| 30" | 654 - 694mm | 644mm | 1025mm | 584mm | 1062kg |
| 30" | 704 - 744mm | 694mm | 1025mm | 587mm | 1223kg |
| 32" | 754 - 794mm | 744mm | 1156mm | 674mm | 1567kg |
| 34" | 780 - 820mm | 770mm | 1151mm | 671mm | 1686kg |
| 34" | 804 - 844mm | 794mm | 1151mm | 674mm | 1785kg |
| 36" | 835 - 875mm | 825mm | 1105mm | 705mm | 2039kg |
| 36" | 879 - 919mm | 869mm | 1105mm | 705mm | 2180kg |
| 42" | 1000 - 1048mm | 990mm | 1077mm | 726mm | 2600kg |

*Dimension B reduces by approximately 15% - 20% when the tool is in the set position. Hydraulic I-PEP maximum working pressure up to 350 bar / 5076 psi.

# Pin-Hole Leak Clamp

Pin-Hole Leak Clamps have been developed for process piping repair in oil and gas process facilities.

Designed for simple installation, Pin-Hole Leak Repair Clamps provide a rapid and versatile solution for localised leak points. Installation can be undertaken with minimal disruption to the pipework or operation of the system to which they are fitted.

## Key Features

- Available in sizes from 2" up to 48"
- Pressure range: up to 153 Bar (900lbs)
- Maximum pin-hole size up to 12mm
- No pipework preparation required
- Simple to install, can be fitted onto live leak
- Xylan coating provides excellent corrosion resistance





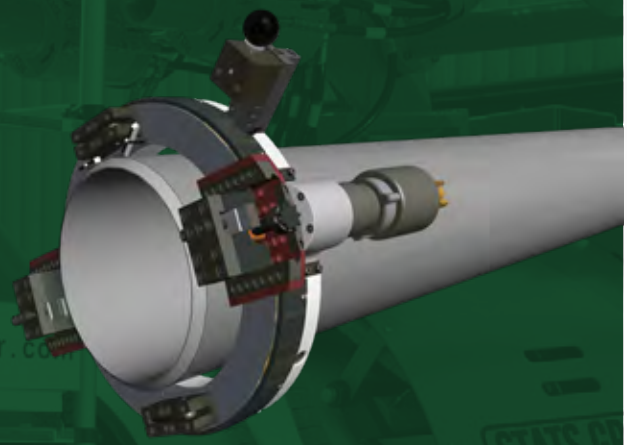
## Weights & Dimensions

| Pipe Nominal Size | Maximum Pin-Hole Size (mm) | Model Number | Shipping Dimensions (mm) | Weight (Kgs) |
|---|---|---|---|---|
| 2" | 6 | DAK-13-0001-0001 | 117 x 115 x 40 | 0.9 |
| 3" | 6 | DAK-17-0001-0001 | 138 x 144 x 40 | 1.1 |
| 4" | 6 | DAK-19-0001-0001 | 181 x 208 x 75 | 3.2 |
| 6" | 12 | DAK-21-0001-0001 | 242 x 249 x 75 | 3.9 |
| 8" | 12 | DAK-22-0001-0001 | 304 x 300 x 75 | 4.8 |
| 10" | 12 | DAK-23-0001-0001 | 365 x 300 x 75 | 5.4 |
| 12" | 12 | DAK-24-0001-0001 | 429 x 322 x 75 | 5.9 |
| 14" | 12 | DAK-25-0001-0001 | 472 x 300 x 75 | 6.8 |
| 16" | 12 | DAK-26-0001-0001 | 541 x 365 x 75 | 7.4 |
| 18" | 12 | DAK-27-0001-0001 | 567 x 389 x 75 | 7.4 |
| 20" | 12 | DAK-28-1000-0001 | 631 x 414 x 75 | 7.9 |
| 22" | 12 | DAK-29-0001-0001 | 694 x 404 x 75 | 8.5 |
| 24" | 12 | DAK-30-1000-0001 | 744 x 465 x 75 | 8.4 |
| 28" | 12 | DAK-32-1000-0001 | 854 x 516 x 75 | 9 |
| 30" | 12 | DAK-33-1000-0001 | 919 x 554 x 75 | 9.9 |
| 34" | 12 | DAK-35-1000-0001 | 1028 x 637 x 75 | 11 |
| 42" | 12 | DAK-39-1000-0001 | 1248 x 739 x 75 | 12.2 |
| 48" | 12 | DAK-42-1000-0001 | 1407 x 805 x 75 | 13 |

**Dimensions to be used for reference only. For exact dimensions please contact your STATS representative.**

# Onsite Machining Services

To ensure asset integrity and efficient operations, regular maintenance of facilities is required. STATS onsite machining services have been developed to provide efficient repair or maintenance activities on location preventing the need for equipment to leave the facility for rework or replacement. Onsite machining services are ideal for new construction projects, modifications, planned shutdowns or emergency repairs. Multi-disciplined, trained and competent technicians are available to support all products and onsite machining services.



## Flange Re-Facing

STATS range of portable Flange Facing machines allow for all types of flange facing, seal groove machining, weld prep and counter boring. Onsite Flange Re-Facing reduces downtime and costs by carrying out repairs onsite to ensure systems run efficiently and safely. Internal and externally mounted Flange Re-Facing machines are available on a rental basis.

Flange Re-Facing, Trinidad

## Cold Cutting and Beveling

Cold cutting and beveling machines replace traditional cutting methods such as torches, reed cutters, and grinders, removing the risk of fire or explosion. These machines simultaneously sever and bevel as they cut, fully preparing the pipe-end for welding with greater accuracy and a higher level of safety. Cuts can be performed quickly and effectively often without the requirement for hot work permits. Portable clamshell machines are designed for precision onsite severing, severing / beveling, and severing / double beveling.

The aluminum frame is a split ring assembly capable of being disassembled to allow installation around in-line piping, elbows, tees, valves, nozzles and flanges. These lightweight low clearance clamshells are designed to fit into tight working areas whilst retaining rigidity during operation.

24" Header branch deconstruct, Gas Terminal, Scotland

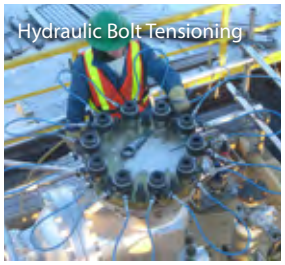
## Trepanning

STATS Trepanning services include drilling and tapping services, including supply of bolted clamp connections for use on a variety of materials and applications.

## Controlled Bolting

STATS controlled bolting provides a safe and efficient service for hydraulic bolting, bolt tensioning, and bolt torqueing. Controlled bolting enables the correct bolt loads to be accurately applied ensuring leak-free bolted connections.

Trepanning, FPSO, Central North Sea



Hydraulic Bolt Tensioning


## SERVICES

LEARN MORE ABOUT OUR COMPREHENSIVE RANGE OF PRESSURISED PIPELINE ISOLATION, HOT TAPPING, PLUGGING AND TESTING SERVICES

## PRODUCTS

FIND OUT MORE ABOUT OUR EXTENSIVE RANGE OF PROPRIETARY PRODUCTS.

## GET IN TOUCH

IF YOU HAVE A QUESTION OR WOULD LIKE MORE INFORMATION, WE ARE HERE TO HELP YOU

# STATS GROUP