



**STATS GROUP**  
Managing Pressure, Minimising Risk

**Branch Installed Self-Energised Plug - BISEP®**

**Live Double Block Isolation and Repair Services**

*Aiden Hardy – Business Development Manager*

*aiden.hardy@statsgroup.com*

*+44 (0)7469 353630*

# Dual Seal Protection Throughout All Live Operations



## Key Features

- Dual Seal Mechanical Hot Tap Fitting (If required)
- Dual Seal Slab Valve with purge facility
- Dual Seal Hot Tap Machines
- Dual Seal Isolation Equipment



*Mechanical Hot Tap Fitting*



*SureTap® ST1220-90*



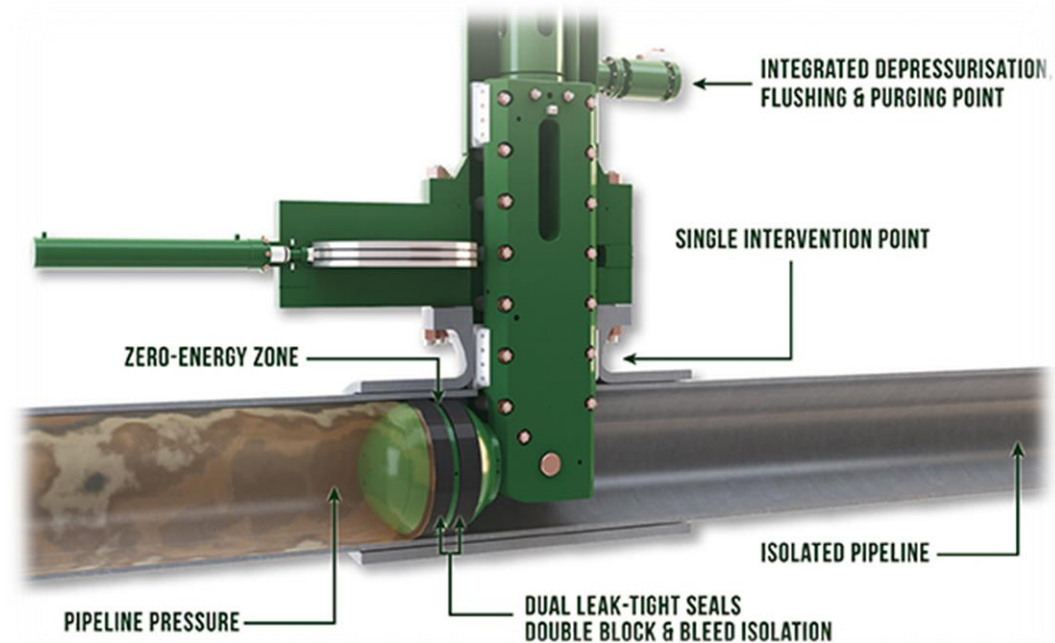
*30" BISEP® & Slab Valve*

# BISEP® Features and Benefits



## Key Features

- Double Block and Bleed protection throughout the entire operation
- Fully Verifiable double block and bleed isolation through a single penetration
- No single point of failure, dual redundancy, self-energised isolation
- Available in 3" to 54" diameters - 600# as standard (900# available)
- BISEP Launcher ported to facilitate venting, purging and flushing of isolated section
- Can accommodate reinstatement pressure test through the back of the BISEP head in compliance with ASME B31.3 requirements
- Can be deployed through conventional size on size tee / clamp (welded or mechanical)
- Annular bleed port proves and monitors the seal integrity with a Zero-Energy Zone
- Hydraulic actuation allows for seal manipulation in poor pipe conditions



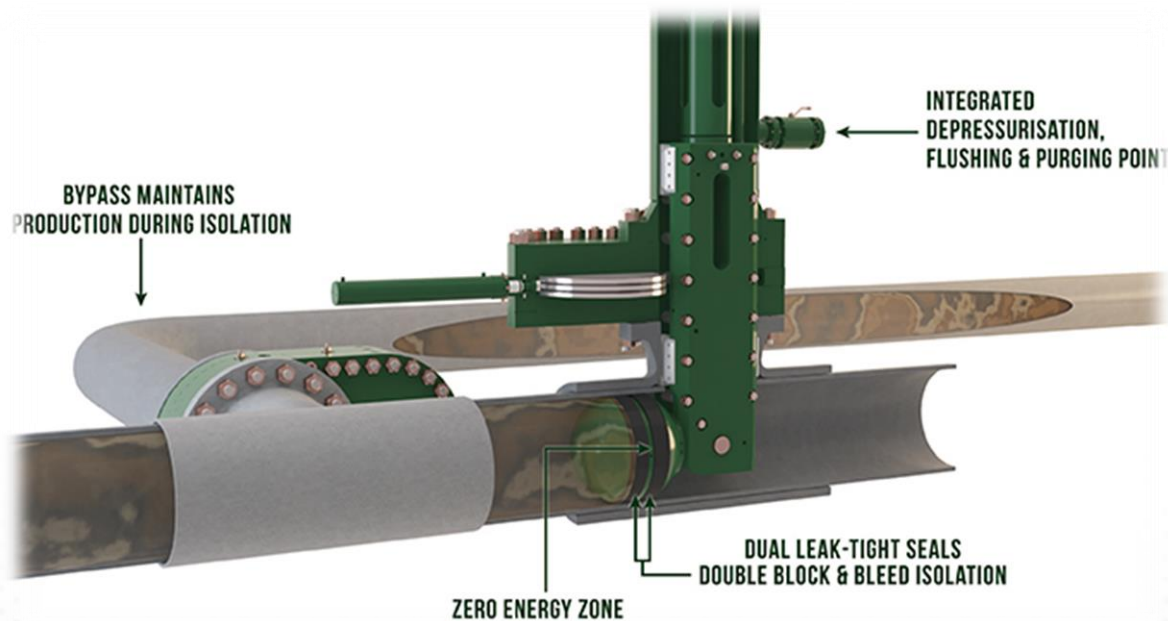
*Standard BISEP® Deployment*



# Deployment Application Methods – Continuous Production

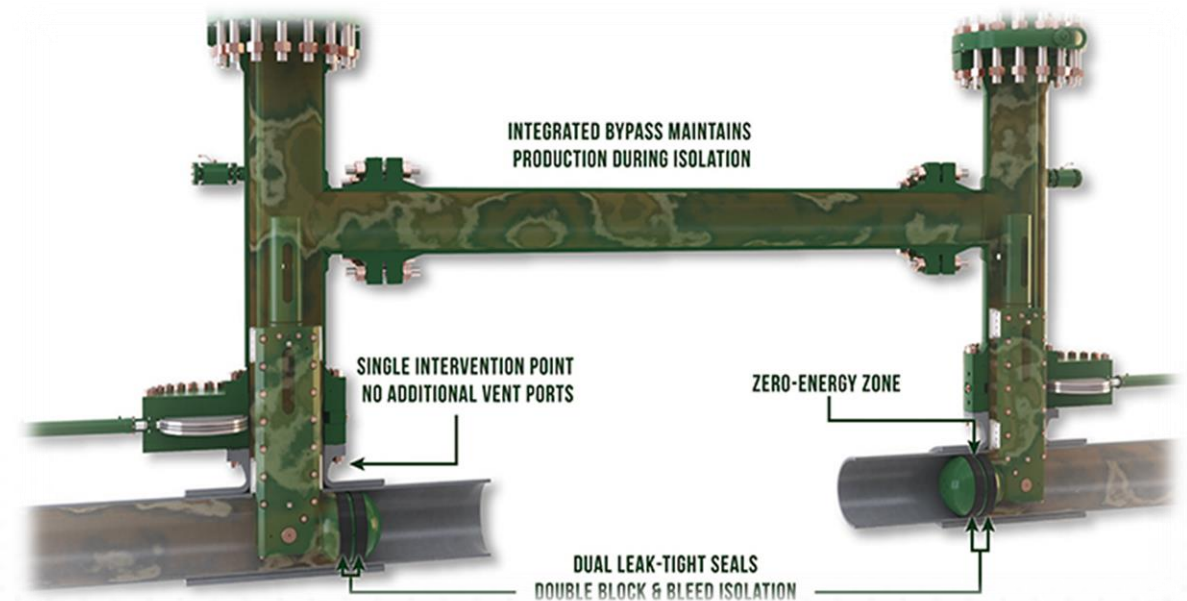
## Standard BISEP® with Full Bore Bypass

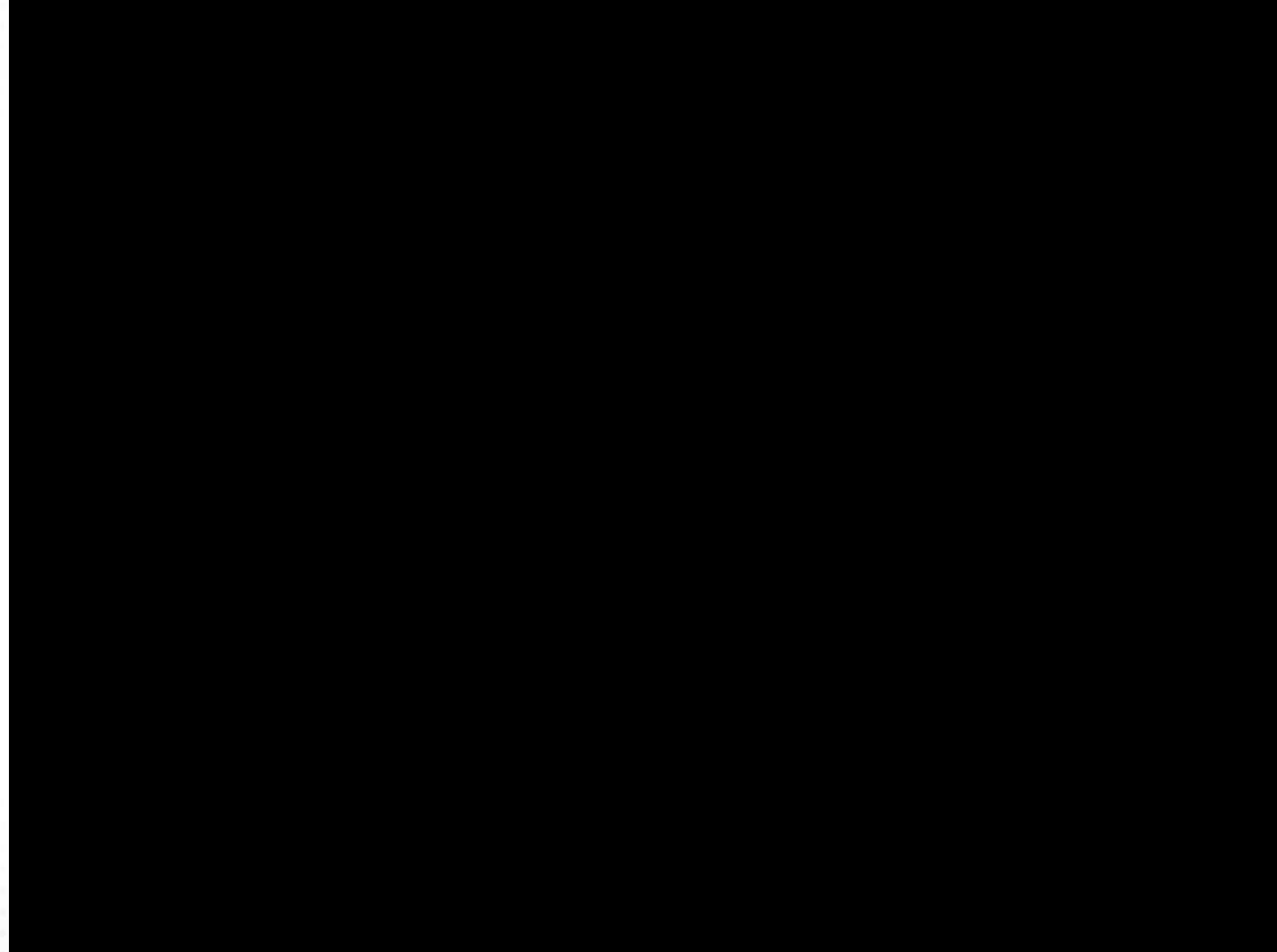
- Production maintained during repair activities through a full bore temporary bypass
- 4 x full bore hot taps (welded or mechanical fittings)



## Downstream BISEP® with Integrated Bypass

- Production maintained during repair activities through a reduced bore temporary bypass
- 2 x full bore hot taps (welded or mechanical fittings)







**Kinder Morgan – 30" 148barg Liquid CO2  
Bypass Maintaining Production**



**Kuwait Oil Company – 42" 30barg Gas Pipeline**

# Case Study – Largest BISEP and Hot Tap



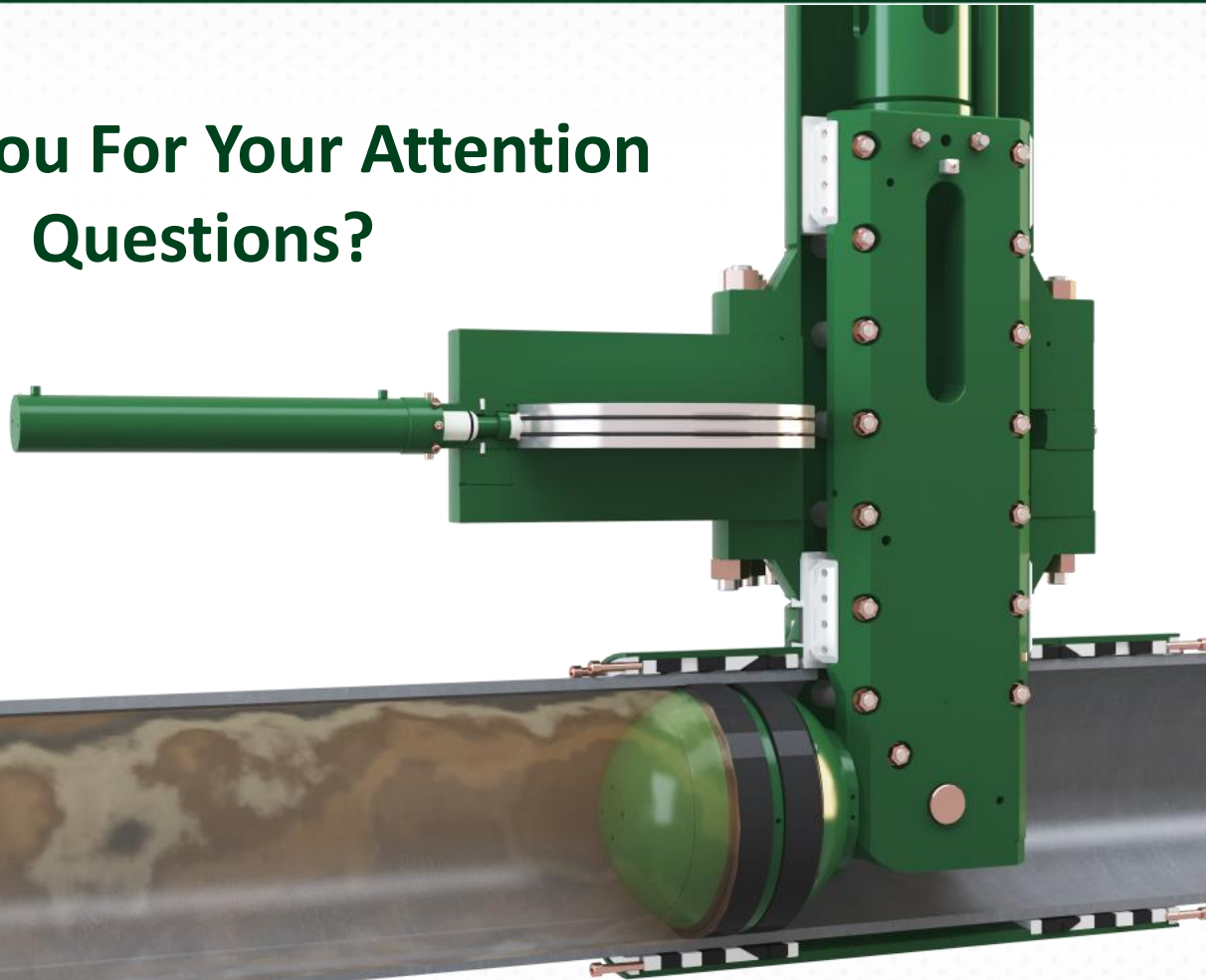
**54" BISEP®, Abu Dhabi, UAE**



**54" SureTap®, Abu Dhabi, UAE**



**Thank You For Your Attention  
Questions?**



**for more information visit  
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