



ELEVATING ASSET INTEGRITY



We elevate our clients' integrity management **PERFORMANCE**
By combining cutting-edge containment **TECHNOLOGIES**
With engineering and operational **KNOW-HOW**

BoltEx Flange Clamp

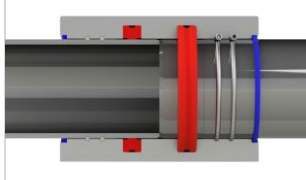


Safe online bolt replacement

Flange reinforcement

No damage to flange gasket

SRJ Weld-free Pipe Coupling



Weld-free pipe connection

Spool tie-in or replacement

Multiple configurations

Multi-Shell Repair Clamp



Emergency pipe repair

Proactive application

Reusable and compact to store

Bespoke Solutions



Enclosure repair units

Composite wrap solutions

Elbows, tees, flanges, nozzles & valves

SRJ Weld-free Pipe Coupling

- Designed in accordance with ASME B31.3
- Type Approved product by Lloyd's Register and ABS for 1.25" to 16" pipe OD
- Improves maintenance efficiency by enabling permanent repair in a fraction of time
- Eliminates the need for welding personnel, weld-habitat, PWHT & NDT inspection

INDUSTRY CHALLENGES

- Corrosion of piping systems
- Flange and weld failures
- Safety risks
- Costly repair works
- Shutdowns – Penalties
- Loss of containment – Loss of production



SRJ Weld-free Pipe Coupling

BROWNFIELD

Weld-free spool replacement with multiple configurations to address different piping system needs and rapid equipment change out (e.g., PSV)

GREENFIELD

SRJ Coupling enables time efficient spool or modular tie-in, especially where pressure testing is not practical (e.g., “golden welds”)



BENEFITS

Quick and safe to install

- + 2 installers (minimum impact on POB)
- + No welding / hot-work required to implement a repair
- + Reduced risk removes complex work-permit requirement
- + Up to 60% lighter than the equivalent flange
- + Enables fast, safe, and efficient installation

Compact and reusable

- + Applicable to restricted locations (e.g., pipe racks)
- + Easy to remove and reinstall (up to 90% time saving in valve change out for maintenance)

Flexible design

- + Multiple configurations to address different piping system needs (pipe to pipe, pipe to flange, blind end, reducer, etc.)
- + Rapid spool replacement (up to 90% faster compared to a welded repair)
- + Enables rapid PSV change out saving crucial maintenance time (e.g., unmanned facilities)

Innovative non-destructive design

- + Does not introduce added stresses to the pipe (unlike ball-grip mechanical couplings)
- + SRJ Coupling is ABS and LR approved as a permanent repair /connection
- + ABS and LR approved for hydrocarbon service