

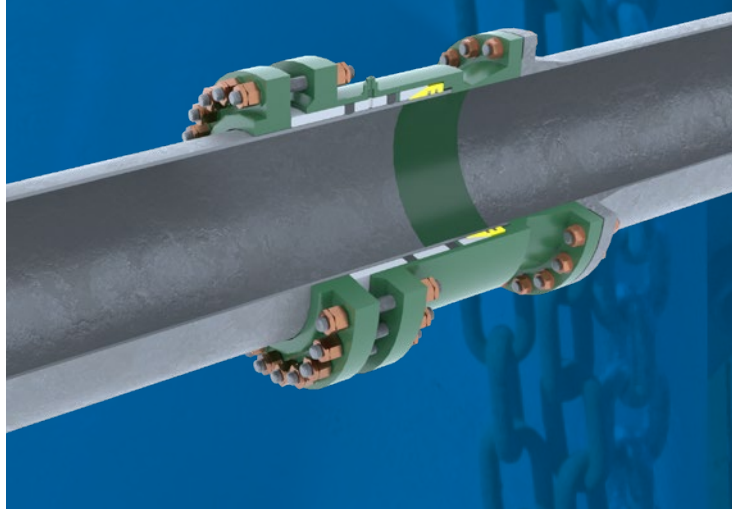
Mechanical Pipe Connectors

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 **PATRIOT®**

- ✓ 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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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.

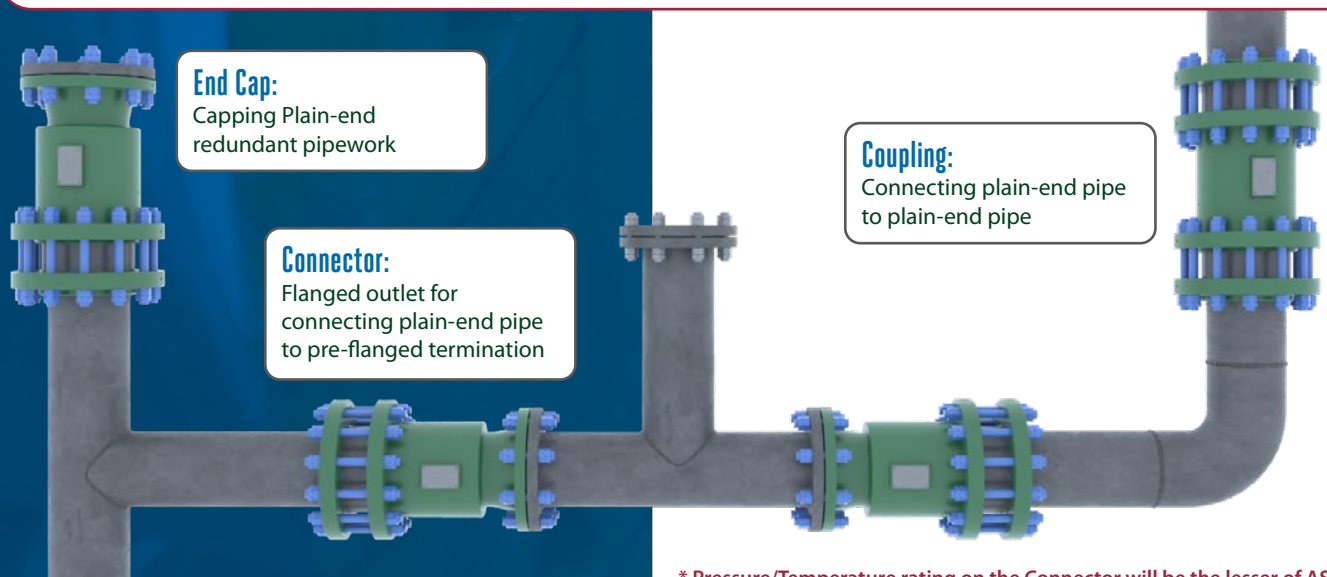
For Titanium Pipelines



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.

