

MANAGING PRESSURE, MINIMISING RISK



Issue 5 Sep 2023

STATSGROUP.COM



IProcess Plant Solutions

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. Multidisciplined, 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

- \gg Size range: common pipe sizes $^{3\!4''}$ 36" as standard. Sizes up to 72" available on request
- ABSA Certified: CRN 0H11625.2
- Weight Stress Stress
- Pressure range up to 690 bar / 10,000 psi dependent on specification, maximum test pressure to suit system
- Pressure assisted sealing





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

Key Features

- Simple, straight forward installation and operation
- Easily installed, activated in a matter of minutes
- Carge 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





Mechanical Flanged Weld Test Tools

Specification

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





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
3⁄4″	TT0013	13mm	¾″ XS, 80, 80s	600 Bar	222mm	86mm	0.5kg
3⁄4″	TT0017	17.6mm	¾″ 30, 40, 40s, Std	500 Bar	222mm	86mm	0.5kg
3⁄4″	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
11⁄2″	TT0024	24mm	11⁄2″ XXS	550 Bar	245mm	90mm	1kg
11⁄2″	TT0030	30mm	11⁄2″ 160	350 Bar	245mm	90mm	1kg
11⁄2″	TT0034	34mm	11/2" 30, 40, 40s, Std, XS, 80, 80s	800 Bar	280mm	100mm	1kg
11⁄2″	TT0037	37mm	11⁄2″ 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	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	16″	TT0381	381.2mm	16″ 5, 5s, 10, 10s	650 Bar	748mm	462mm	380kg
10″	TT0212	212.3mm	10″ 140, XXS	450 Bar	413mm	269mm	60kg	18″	TT0350	350.5mm	18″ 160	875 Bar	748mm	462mm	380kg
10″	TT0220	220.2mm	10″ 120	400 Bar	413mm	269mm	60kg	18″	TT0358	358mm	18″ 140	750 Bar	748mm	462mm	380kg
10″	TT0226	226.6mm	10″ 100	375 Bar	413mm	269mm	60kg	18″	TT0364	364.8mm	18″ 120	700 Bar	748mm	462mm	380kg
10″	TT0233	233mm	10" XS, 60, 80, 80s	1000 Bar	500mm	269mm	160kg	18″	TT0388	388mm	18" 30, XS, 40, 60, 80, 100	425 Bar	600mm	320mm	395kg
10″	TT0243	243.5mm	10" Std, 40, 40s	950 Bar	500mm	269mm	160kg	18″	TT0430	430mm	18" 5, 5s, 10, 10s 20, Std	375 Bar	600mm	315mm	395kg
10″	TT0246	246mm	10″ 20, 30	900 Bar	500mm	269mm	160kg	20″	TT0450	450mm	20″60, 40	400 Bar	620mm	311mm	575kg
10″	TT0253	253.7mm	10″ 5, 5s, 10, 10s	800 Bar	500mm	269mm	160kg	20″	TT0478	478mm	20" 20, Std, 10, 10s, 5, 5s	900 Bar	710mm	345mm	725kg
12″	TT0243	243.5mm	12″ 160	950 Bar	500mm	269mm	160kg	22″	TT0430	430mm	22″ 160, 140	325 Bar	600mm	315mm	450kg
12″	TT0260	260mm	12″ 120, 140, XXS	750 Bar	500mm	269mm	160kg	22″	TT0478	430mm	22" 100, 80, 60	1000 Bar	710mm	345mm	450kg
12″	TT0270	270mm	12″ 100	650 Bar	500mm	269mm	160kg	22″	TT0520	520mm	22" 5, 5s, 10, 10s, Std, 20,	550 Bar	710mm	345mm	760kg
12″	TT0277	277mm	12″80	600 Bar	500mm	269mm	160kg				XS, 30				
12″	TT0285	285mm	12" XS, 60, 80s	550 Bar	500mm	269mm	160kg	24″	TT0478	478mm	24" 120, 140, 160	850 Bar	710mm	345mm	725kg
12″	TT0291	291mm	12″40,40s	500 Bar	500mm	269mm	180kg	24″	TT0520	520mm	24" 100, 80, 60	500 Bar	710mm	345mm	760kg
12″	TT0295	295mm	12″ Std, 30	500 Bar	500mm	269mm	180kg	24″	TT0550	550mm	24" Std, 20, XS, 30, 40	400 Bar	710mm	345mm	825kg
12″	TT0300	300mm	12″ 10, 10s, 20	450 Bar	500mm	269mm	180kg	28″	TT0660	660mm	28" XS, 20, 30	250 Bar	844mm	412mm	1180kg
12″	TT0304	304mm	12″ 5, 5s	450 Bar	500mm	269mm	180kg	28″	TT0680	680mm	28″ 10, Std	250 Bar	844mm	412mm	1250kg
14″	TT0270	270mm	14″ 160	650 Bar	500mm	269mm	180kg	30″	TT0720	720mm	30" 10, Std, XS, 20, 30	250 Bar	844mm	412mm	1400kg
14″	TT0277	277mm	14″ 140	575 Bar	500mm	269mm	180kg	36″	TT0837	837mm	36" 10, Std, XS, 20, 30, 40	340 Bar	823mm	356mm	2000kg
14″	TT0285	285mm	14″ 120	550 Bar	500mm	269mm	180kg					٥			
14″	TT0295	295mm	14″ 100	500 Bar	500mm	269mm	180kg					A		→ I	
14″	TT0304	304mm	14″80	450 Bar	500mm	269mm	180kg					111			
14″	TT0311	311mm	14″60	425 Bar	500mm	269mm	180kg					в			
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		0000	0 ° 0 0	00000000		L		
16″	TT0311	311mm	16″ 160	1000 Bar	748mm	462mm	380kg		0000	00,00					
16″	TT0319	319mm	16″ 140	1000 Bar	748mm	462mm	380kg		0000	0 0 0	0.000000				
16″	TT0330	330mm	16″ 120	1000 Bar	748mm	462mm	380kg		0000		000000			100	
16″	TT0339	339mm	16″ 100	900 Bar	748mm	462mm	380kg		000	00,0	000000				
16″	TT0350	350.5mm	16″80	875 Bar	748mm	462mm	380kg		0000	00 00					
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								



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 are available for mechanical or hydraulic activation. 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 buildup.

Benefits

- Quick and safe to install
- Safe isolation monitoring capability 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
- Dual seal configuration offers a Nitrogen or water test between the seals to verify the seal integrity at installation and during hot work
- Hydraulic deployment for applications out of reach of mechanical operation

Key Features

- Lightweight tool
- Integrated taper grip locks
- Leak-tight Nitrile (NBR) seal (alternative seal material available to suit application)
- Size range: 5" to 24"
- Temperature range: 0°C to 100°C

SureSafe (Single Seal)

- Mechanically activated
- Single leak-tight seal
- Pressure range: up to 10 bar

Optional SureSafe Upgrades

- Ø Dual Seal Adding a second seal and test port allows the seal integrity to be verified during installation.
- The SureSafe plug can also be supplied in a slightly heavier configuration to isolate up to 40 Bar.
- Wydraulic activation This is a separate module which can be bolted on the back of the SureSafe plug to hydraulically set the seal(s) where the mechanical activation is not practical. This can be added to both single and dual seal configurations and either pressure rating.





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

- No hot-work required, significantly reducing associated risk and costs
- Quick to install resulting in timely completion of maintenance activities
- Easily installed and commissioned with only basic pipework preparation
- Significantly reduces maintenance time and cost by eliminating the need for welding equipment and personnel
- External grip assembly applies even linear and circumferential load around the host pipe, eliminating localised material deformity and localised stress fractures
- External lock and seal assembly eliminates flow restriction or turbulence
- Removable and reusable with no damage to existing pipework

Key Features

- Simple standard bolted installation, no specialist tools required
- Maintenance free mechanical pipe connection in accordance with API Specification 6H and certified fire-safe to API 6FA
- Seal verification port can be fitted with a DBB valve to comply with specific operator inspection requirements
- Robust construction provides equivalent or greater design criteria than host pipework
- Coating provided to client specification
- Fabricated design provides a lightweight unit





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.



Specification

- Sizes 1" to 36" 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
- Ø Dual graphite seal arrangement with verification port to enable pre-commission leak-test
- Minimum design life 20 years

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

Connector Configurations

- Connector: Flanged outlet for connecting plain-end pipe to a pre-flanged termination
- Coupling: Connecting plain-end pipe to plain-end pipe
- **End Cap:** Capping plain-end redundant pipework





Connector Weights & Dimensions

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







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.

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









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-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

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

> E-PEPs installed onto spool to provide hydrostatic pressure test



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 deenergising 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[™]Weights & Dimensions

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
3⁄4″	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

42″

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

1077mm

*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.

990mm

1000 - 1048mm





2600kg

726mm

36" I-PEP in Shipping Skid



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)	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	18"	12	DAK-27-0001-0001	567 x 389 x 75	7.4
3"	6	DAK-17-0001-0001	138 x 144 x 40	1.1	20"	12	DAK-28-1000-0001	631 x 414 x 75	7.9
4"	6	DAK-19-0001-0001	181 x 208 x 75	3.2	22"	12	DAK-29-0001-0001	694 x 404 x 75	8.5
6"	12	DAK-21-0001-0001	242 x 249 x 75	3.9	24"	12	DAK-30-1000-0001	744 x 465 x 75	8.4
8"	12	DAK-22-0001-0001	304 x 300 x 75	4.8	28"	12	DAK-32-1000-0001	854 x 516 x 75	9
10"	12	DAK-23-0001-0001	365 x 300 x 75	5.4	30"	12	DAK-33-1000-0001	919 x 554 x 75	9.9
12"	12	DAK-24-0001-0001	429 x 322 x 75	5.9	34"	12	DAK-35-1000-0001	1028 x 637 x 75	11
14"	12	DAK-25-0001-0001	472 x 300 x 75	6.8	42"	12	DAK-39-1000-0001	1248 x 739 x 75	12.2
16"	12	DAK-26-0001-0001	541 x 365 x 75	7.4	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.





I 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.



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.

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.



Trepanning

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

Trepanning, FPSO, Central North Sea





24" Header branch deconstruct, Gas Terminal, Scotland

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.







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