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Hoses, Couplers, and Accessories



TOPSIDE TORQUE WRENCH

1/4" COUPLERS 700 bar/10,000 psi



| Twin-line Topside Hoses | | | | | | | |
|-------------------------|---------------------------------------|--|--|--|--|--|--|
| | Standard Twin-line Hoses (4:1 Burst) | | | | | | |
| Order No. | DESCRIPTION | | | | | | |
| TWH15-BS | 15 ft twin-line hose | | | | | | |
| TWH20-BS | TWH20-BS 20 ft twin-line hose | | | | | | |
| TWH50-BS | 50 ft twin-line hose | | | | | | |
| | | | | | | | |
| Sta | andard CE Twin-line Hoses (4:1 Burst) | | | | | | |
| Order No. | DESCRIPTION | | | | | | |
| TWH3E | 3 meter twin-line hose | | | | | | |
| TWH6E | 6 meter twin-line hose | | | | | | |
| TWH10E | 10 meter twin-line hose | | | | | | |

Additional lengths (all styles) available upon request.

| 9072 | The state of the s | 700 bar, 10,000 psi gauge for torque wrench applications |
|--------------------|--|---|
| 9042DG | SPX. © | 700 bar, 10,000 psi gauge for torque wrench applications. Custom scale enables the following units to be displayed: lb-ft or Nm |
| 252365 | | Metal Dust Cover for male coupler |
| 252364 | | Metal Dust Cover for female coupler |
| (male) 251411 | | Quick-connect, screw-on male nipple. Used on 700 bar torque wrenches, nutsplitters, hoses, and pumps. 1/4" NPT Female Thread |
| (female) 251410 | | Quick-connect, screw-on female coupling. Used on 700 bar torque wrenches, nutsplitters, hoses, and pumps. 1/4" NPT Male Thread |

Refer to page 114 for complete calibration services



| Tensioner Hoses | | | | | |
|---|--|--|--|--|--|
| Topside, with Locking Collar Order No. DESCRIPTION | | | | | |
| HL1M | 1 m Hose, 1,500 bar, CE, with locking collar (only stocked in Europe & Asia) | | | | |
| HL13M | 1.3 m Hose, 1,500 bar, CE, with locking collar (Optionally available in the Americas) | | | | |
| HL3M | 3 m Hose, 1,500 bar, CE, with locking collar | | | | |
| HL5M | 5 m Hose, 1,500 bar, CE, with locking collar | | | | |
| HL8M | 8 m Hose, 1,500 bar, CE, with locking collar | | | | |
| HL10M | 10 m Hose, 1,500 bar, CE, with locking collar | | | | |

Additional lengths available upon request.

TENSION HOSES

1,500 bar/21,750 psi



| 9042DG1500 | SPX. © | 1,500 bar; 21,750 psi digital gauge for P59L-1500 pumps | | | | |
|-------------|--|--|--|--|--|--|
| 2002278 | | 2,000 bar; 30,000 psi gauge for PE8 pumps. Typically attached with quick coupler (ordered separately). | | | | |
| HHAMA150001 | | 1,500 Bar Elbow Block: Used to change direction of tensioner hoses if standard orientation is not possible. Hoses can swivel around coupling axis. | | | | |
| HHAMA150003 | | 1,500 Bar Tee Block Assembly: Used to interconnect tensioners with single ports. | | | | |
| HHAMA150004 | The state of the s | 1,500 Bar Banjo Assembly: Used to allow a hose to connect to a tool at 90 degrees. The nipple can be oriented in any direction around the port axis but must be tightened to create a seal. Does not act as a swivel around port axis. | | | | |

| 2001772 | Male Coupling: Quick-connect, push-in male nipple. Used on 1,500 bar tensioners and pumps. G 1/4" Female Thread |
|-------------|---|
| 2008548 | Female Coupling: Quick-connect, push-in female coupling with locking collar. Used on 1,500 bar tensioners hoses. 6 1/4" Female Thread. |
| STDHC000025 | 1/4" BSP Plug: Used to plug a port when a banjo assembly or coupling will not be used. |

Hoses come standard with recessed female coupler type (2008548). Flat Face couplers available upon request.

SUBSEA TORQUE WRENCH 1/4" COUPLERS

700 bar/10,000 psi



Hose reel stand complete with twin down line for offshore equipment use.

Couplers for hose reel and offshore equipment.



Remote Diver Control Valve (HCUCV070001) uses 1 each of all four couplings shown on this page.

SUBSEA TWIN-LINE HOSES

SPX FLOW can customize a reel and hose combination for your specific job. Standard reel construction is powder coated carbon steel. Aluminum reels optional. Contact factory for details.

| Twin-line Subsea Hoses | | | | | | | |
|---|---|--|--|--|--|--|--|
| | Standard CE Twin-line Subsea Hoses (4:1 Burst) | | | | | | |
| Order No. | DESCRIPTION | | | | | | |
| TWH06E-SS 6 meter (20 ft) twin-line subsea hose, uses red couplers show below (2008549 & 2008550) | | | | | | | |
| | | | | | | | |
| 0 | lownline Twin-line Hoses (4:1 Burst) | | | | | | |
| Order No. | DESCRIPTION | | | | | | |
| TWH30E-SS | TWH30E-SS 30 meter (100ft) twin-line, uses screw together couplers (251411 & 251410) configured to be able to join multiple lengths together on Hose reel | | | | | | |
| TWH100-SS 30 meter (100 ft) twin-line subsea hose, uses stainless steel couplers | | | | | | | |

Additional lengths (all styles) available upon request.

| 9072 | | 700 bar, 10,000 psi gauge for torque wrench applications |
|--------|--------|---|
| 9042DG | SPX. © | 700 bar, 10,000 psi gauge for torque wrench applications. Custom scale enables the following units to be displayed: lb-ft or Nm |

Couplers for Diver Control Valve and select subsea tools.

| (male) 2008549 | the soft of the so | Quick-connect, push-in male nipple. Used on Subsea 700 bar torque wrenches, nutsplitters, flange pullers, hoses, and pumps. 1/4" NPT Female Thread |
|---------------------|--|--|
| (female) 2008550 | To summer | Quick-connect, push-in female coupling with locking collar. Used on 700 bar torque wrenches, nutsplitters, flange pullers, hoses, and pumps. 1/4" NPT Female Thread |

SUBSEA TENSION HOSES

SPX FLOW can customize a reel and hose combination for your specific job. Standard reel construction is powder coated carbon steel. Stainless hose reels optional. Contact factory for details.

Downline hoses usually supplied in 30 m lengths, male/ female quick connect couplings so they can be linked together to make up the desired length of hose.

Maximum hose length capacity 500 m

| Subsea Tensioner Hoses | | | | | | | | |
|------------------------|--|--|--|--|--|--|--|--|
| | Subsea, without Locking Collar | | | | | | | |
| Order No. | DESCRIPTION | | | | | | | |
| HL1M | 1 m Hose, 1,500 bar, CE, with locking collar (only stocked in Europe & Asia) | | | | | | | |
| HL13M | 1.3 m Hose, 1,500 bar, CE, with locking collar (Optionally available in the Americas) | | | | | | | |
| HL3M | 3 m Hose, 1,500 bar, CE, with locking collar | | | | | | | |
| HL5M | 5 m Hose, 1,500 bar, CE, with locking collar | | | | | | | |
| HL8M | 8 m Hose, 1,500 bar, CE, with locking collar | | | | | | | |
| HL10M | 10 m Hose, 1,500 bar, CE, with locking collar | | | | | | | |
| | - | | | | | | | |
| | Subsea down-line hose | | | | | | | |
| Order No. | DESCRIPTION | | | | | | | |
| HL30M-DL | 30 m Hose, 1500 bar, CE, with locking collar, 1 x male + 1 x female coupler with locking collar. Used to link hoses together between hose reel and subsea work site. | | | | | | | |

Additional lengths available upon request.



SUBSEA TENSION

1,500 bar/21,750 psi



Hose reel stand complete with tensioner down line for offshore equipment use.



Hoses come standard with recessed female coupler type (2008548). Flat Face couplers available upon request.

SPLITTERS & SPREADERS

3/8" COUPLERS

700 bar/10,000 psi



| 9670 | | Tee adapter. For installing gauge between pump and hose coupling. Has 1/4" and 3/8" NPTF female and 3/8" NPTF male ports. | | | | |
|--------------------------|---------|---|--|--|--|--|
| 9799 | 200 | Optional metal dust cap (hose half) | | | | |
| 9797 | O Color | Optional metal dust cap (pump/tool half) | | | | |
| 9798 (male coupler) | | Male (hose) half coupler (with No. 9800 dust cap). 3/8" NPTF. | | | | |
| 9796 (female coupler) | | Female (pump/tool) half coupler (with No. 9800 dust cap). 3/8" NPTF. | | | | |
| 9800 | | Dust cap for male or female 3/8" NPTF half couplers. | | | | |

IJ100 HYDRAULIC HOSE ASSEMBLY (AMERICAS & ASIA)

No. 9764 – Hose assembly consisting of 9767 (6' hose), 1/4" I.D. polyurethane with 9798 hose half coupler and 9800 dust cap assembly. Complies to MHI Standard IJ100 (2:1 Burst).

CE HYDRAULIC HOSE ASSEMBLY (EUROPE)

No. 9764E – Hose assembly consisting of 9767E (2m hose), 6mm I.D. polyurethane with 9798 hose half coupler and 9800 dust cap assembly. Complies to CE Standards (4:1 Burst over Nominal pressure ratio).

Note: Not for ENS Series Nut Splitter

For ENS NUT SPLITTER (TOPSIDE)

Hose assembly, 6mm I.D. polyurethane with 251410 hose coupler (1/4". Complies to CE Standards (4:1 Burst over Nominal pressure ratio).

HHASH070001 - 3m Hose Assembly HHASH070002 - 6m Hose Assembly.

For ENS Subsea Nut Splitters, see page 104.

| 9040 9040E | | Gauge for 700 bar; 10,000 psi hand pumps. 9040 has psi as primary unit. 9040E has bar as primary unit. |
|---------------|--------|---|
| 9042DG | SPX. © | 700 bar, 10,000 psi gauge for torque wrench applications. Custom scale enables the following units to be displayed: lb-ft or Nm |

See page 114 for gauge calibration services.



STANDARD HYDRAULIC OIL

- For dependable performance of all your hydraulic pumps and cylinders.
- Contains foam suppressant additives and has a high viscosity index.

FLAME-OUT® 220 FIRE RESISTANT HYDRAULIC FLUID*

- Contains anti-rust, anti-foam and anti-sludge additives.
- Provides fire resistant protection.

(Note: Will burn if heat source is extreme enough. Will not, however, propagate the flame and is self-extinguishing when there is no ignition source.)

- Provides maximum lubrication and heat transfer.
- Offers a wider operating temperature range.
- No need to change seals in your equipment. Just drain the standard oil and replace it with Flame-Out® 220.

LOW TEMPERATURE OIL

Provides smooth, reliable operation in the coldest climate conditions.

HYDRAULIC FLUIDS

Standard, Flame Out®, Biodegradable and Low Temperature

BIODEGRADABLE HYDRAULIC FLUID

- Biodegradable, non-toxic fluid withstands moderate to severe operating conditions; provides excellent protection against rust.
- Offers superior anti-wear properties, has excellent multi-metal compatibility.

Developed to meet stringent performance requirements and satisfy growing environmental needs for hydraulic fluids which are readily biodegradable and non-toxic. Depending on the contamination or degradation levels which might be present in used fluid, small amounts of this substance, if spilled, will not affect ground water or the environment. This fluid has been tested against EPA 560/6-82-003 and OECD 301 for biodegradability, and toxicity has been tested against EPA 560/6-82-002 and OECD 203: 1-12. Not recommended for operation in temperatures below -7°C (20°F) or above 71°C (160°F). Recommended storage temperatures not below -23°C (-10°F) or above 77°C (170°F).

| Specifications and Dimensional Data | | | | | | | | | | | | | |
|-------------------------------------|---|---------------|--------------|-----|-----|-----|-----|-----|-----------|-----------------------|-----------------------|---------------|--------|
| Description | Specific Flash Fire Pour Viscosity Rescription Grade Gravity Color Point Point Point | | | | | | | | Foam Test | | | | |
| Boothpaon | (ASTM) | @ 60°F (16°C) | (ASTM) | °C | °F | °C | °F | °C | °F | SUS @ 38°C (100°F) | SUS @ 99°C (210°F) | Index min. | (ASTM) |
| Standard Oil | 215 | .88 | 2.0 | 204 | 400 | 221 | 430 | -34 | -30 | 215 | 48 | 100 | Pass |
| Flame-Out® | 220 | .91 | Light Amber | 260 | 500 | 288 | 550 | -26 | -15 | 220 | 55 | 140 | Pass |
| Biodegradable | - | .92 | 2.0 | 224 | 432 | NA* | NA* | 30 | -22 | 183 | 53 | 213 | Pass |
| Low Temp. | - | .87 | 6.5 (Red) | 180 | 356 | 204 | 399 | 45 | -48 | 183 | 52 | 190 | Pass |

| Ordering Information | | | | | | |
|----------------------|---------------|------|--------------------------|--|--|--|
| Order No. | Description | Quan | tity | | | |
| 9636 | Standard Oil | 0.91 | 1 qt. (57 cu. in.) | | | |
| 9637 | Standard Oil | 3.81 | 1 gal. (231 cu. in.) | | | |
| 9638 | Standard Oil | 9.51 | 2-1/2 gal. (577 cu. in.) | OWER TEAM | | |
| 9616 | Standard Oil | 2081 | 55 gal. | NOWER TEAM | | |
| 9639 | Flame-Out® | 3.81 | 1 gal. (231 cu. in.) | Hydraulic | | |
| 9640 | Flame-Out® | 9.51 | 2-1/2 gal. (577 cu. in.) | per and the management of the control of the contro | | |
| 9645 | Biodegradable | 3.81 | 1 gal. (231 cu. in.) | | | |
| 9646 | Biodegradable | 9.51 | 2-1/2 gal. (577 cu. in.) | | | |
| 9647 | Low Temp. | 3.81 | 1 gal. (231 cu. in.) | | | |

For additional technical information or to order a Material Safety Data Sheet call 1-800-477-8326 or go to www.spxboltingsystems.com.

FLANGEPRO provides a fully featured Flange Management System, maximizing the control of the Flange Register, allowing comprehensive and consistent operation of all flange break, make-up and inspection processes or commissioning, operations and turnarounds/shutdown applications.

WHY IS FLANGE INTEGRITY SO IMPORTANT?

Flange Management Systems can help address elements of SEMS, SEMS II, and RP 75, such as:

- Maintaining key information on flanged joints, leak testing, and controlled bolting bolt load calculations and methods.
- Documentation of operating procedures for controlled bolting processes.
- Help maintain mechanical integrity of piping assets.

Flange Management
Systems can help address
KP4 requirements:

 Help track flange records for ageing assets and maintain a documented record of their condition.

Flange Management Systems provides a system to help manage hydrocarbon-containing equipment from experiencing a hydrocarbon release.

MANAGEMENT SYSTEMS

ANGE IN

A 3 year study on
the impact of leaking pipe flanges
showed a major refinery averaged
630 leaks per year resulting in
380,000 pounds of volatile
organic compounds (VOC) being released
into the atmosphere. Estimated monetary
losses from fines, materials, and labor
charges averaged \$440K per
year (not including production
losses)*.

What's it worth to help prevent a catastrophic event?

- The Deepwater Horizon accident resulted in the loss of eleven lives and the overall cost was several billion dollars.
- The Piper Alpha accident cost the loss of 167 lives and changed the face of the North Sea O&G industry entirely.
- A high consequence event that occurred in a California refinery which resulted when a 4inch 300# gasket failed due to improper tightening. The refinery reported that consequential damages due to production loss, fines, and rework were in excess of \$500M*.

Our Flange Management Systems helps to:

- Mitigate & Avoid high consequence events
- Extend the life of an asset
- Maintain expected performance
- Manage Risk

(* Source: 2014 AFPM Reliability & Maintenance Conference)



FLANGE MANAGEMENT SYSTEMS PRODUCT FEATURES



MULTIPLE PROJECTS

A centralized repository to capture, store and visualize multiple project or asset related information.



CLOUD PLATFORM

Internet-based global delivery of integrity systems to support both regional and international project execution and governance.



ASSET IDENTIFICATION

Rapid operations using barcoding and RFID for identification of physical and paper assets to automate business processes and improve accuracy.



CONFIGURIABILITY /FLEXIBILITY

Our software is very flexible and can be extensively customized to mirror your organizational process and procedures.



ISO 27001

Our Data Centers are all ISO 27001 and 9001 accredited and operated at tier 3+ equivalent levels, ensuring you receive the highest standard of service.

| Product Features | Personal | Professional | Enterprise |
|---|----------|--------------|------------|
| Core Features | | | |
| Cloud-based service with full resilience | Standard | Standard | Standard |
| Adviser Bolt Load Calculation Tool | Standard | Standard | Standard |
| Flange Management System | Standard | Standard | Standard |
| Inspection & Leak Test Planning System | Standard | Standard | Standard |
| Configurable Integrity Management Platform | Standard | Standard | Standard |
| All Upgrades / Software Maintenance | Standard | Standard | Standard |
| Easy Data Out Policy | Standard | Standard | Standard |
| Priority Access to Technical Assurance Centre | | Limited | Standard |
| Collaboration | | | |
| Multi-user collaboration | | Standard | Standard |
| Offline / Desktop Application | | | Standard |
| Hardware Integrity Kit Rental | Optional | Optional | Optional |
| Floating License Option | | | Optional |
| Named Users to Floating License Max Ratio | | 1:1 | 1:2 |
| Back to Back License Option | | | 1:1 |
| Feature Packs | | Optional | Standard |
| TAR - Project Management Module | | Optional | Standard |
| TAG - Tag production and workflow system | | Optional | Standard |

Due to ongoing development work the product features may change

FLANGE MANAGEMENT **SYSTEMS FLANGEPRO BENEFITS**



FLANGEPRO

FlangePro provides a fully featured Flange Management System, maximizing the control of the flange register, allowing comprehensive and consistent operation of all flange break, make-up and inspection processes for commissioning, operations and turnarounds/shutdown applications.

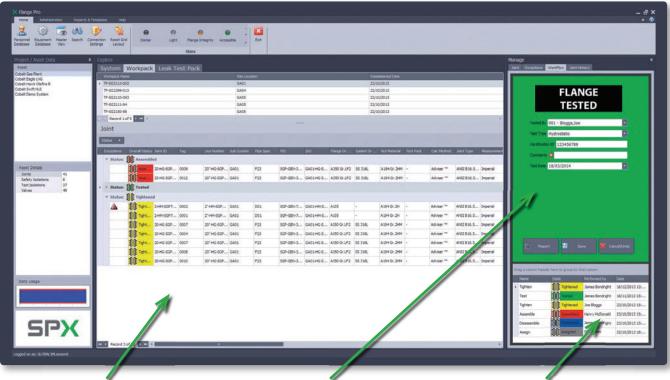
Built upon our unique and highly flexible Integrity Management System platform, FlangePro can be used in many different fields, project phases (Pre-Bid, On Site Work, Pre-Work and Completion Handover) and for many different service lines and activities, such as;

- Flange Management
- Equipment & Inventory Management
- Personnel management
- Service, Inspection and Process Management
- Shutdown Project Management
- Pre-Commissioning Completions Management
- Leak Test planning
- On-demand version allows licensing for specific short term projects

Product Features:

- Multiple Projects
- Asset Identification
- Secure Cloud Platform
 Configurability/Flexibility

Visit spxboltingsystems.com for more details



Sort workpacks/activities by status for ease of management

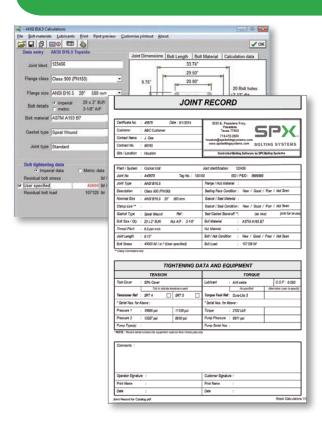
Visual workflow status matching any tagging process adopted

Full history of workflow/activities is recorded against the safety crtical artificat and the activity pack it is held on.

The Adviser software package includes:

- Tightening data for BS1560, MSS SP44, API 6A and 17D flanged joints.
- Encompasses standard flanges, wafer check valves, spade and spacers, and swivel flange assemblies.
- Torque data and tensioning tool pressures for both Subsea and Topsides applications.
- Bolt extension calculations.
- Tightening procedures and Torque sequences.
- Joint specific recommendations for improved integrity.
- Large database of bolt materials.
- Large database of bolt lubricants.
- Dimensional data of flanges.
- Recommended bolt lengths.
- Simple user interface with 'Windows' look and feel.
- New bolt materials and lubricants can be added!

BOLT LOAD CALCULATOR ADVISER



App Store Visit the Apple AppStore for mobile applications















TRAINING

SPX FLOW Bolting Systems offer a range of courses covering joint integrity and flange management to industry recognized standards. All of our instructors have many years' experience in the joint integrity/ flange management sector most of which have spent considerable time in a hands on role actually doing the job that they are now training others to do. Our instructors have nationally recognized teaching qualifications which reinforce the quality of the training programs that we offer.

Our courses contain a mix of both theoretical and practical elements providing a positive learning experience for the learner. We have purpose built training facilities around the globe which house the latest in flange management tooling and associated equipment and in which learners are encouraged by our Instructors to embrace all aspects of Health and Safety and to strive for a right first time approach to all joint integrity



applications. Courses can be delivered in a variety of formats including:

- Industry Approved training
- Well established in-house programs
- Bespoke options tailored to a client's requirement including SPX Flow Bolting tool maintenance, Adviser Software, etc

SPX FLOW Bolting Systems are an ECITB and API approved training provider.





Engineering Construction Industry Training Board

APPROVED PROVIDER

ECITB APPROVED TRAINING

The ECITB has approved the following specific courses which are derived from the new Mechanical Joint Intregity and Small Bore Tubing Technical Training Standards.

- MJI10 Hand Torque Bolted Connection Techniques one day duration
- MJI18 Hydraulically Tension Bolted Connection Techniques – one day duration
- MJI19 Hydraulically Torque Bolted Connection Techniques – 1.5 days duration
- MJI 10, 18 & 19 Hydraulically Torque and Tension Bolted Connection Techniques – 2.5 days duration
- SBT01 Assemble and Install Small Bore Tubing with Twin Ferrule Mechanical Grip Fittings – 2 days duration

TECHNICAL TESTS

Technical Testing with an associated ECITB certificate of achievement plays a key role in validating an individual's skill, ability and job knowledge in a specific task area. Each test consists of a knowledge test and practical activity test against identified test criteria.

- There are five ECITB approved Technical Tests covering mechanical joint integrity and two covering Small Bore Tubing
- TMJI10 Dismantle, Assemble and Hand Torque Flanged Joints

- TMJI11 Dismantle, Assemble and Hand Torque Clamp Connectors
- TMJI18 Dismantle, Assemble and Tensioning Bolted Connections (Hydraulic Tensioning)
- TMJI 19 Dismantle, Assemble and Hydraulically Torque Flanged Joints
- TMJI 20 Dismantle, Assemble and Hydraulically Torque Clamp Connector Joints
- TSBT 01 Assemble and Install small bore tubing assemblies- Twin Ferrule
- TSBT 02 Disassemble and reinstall small bore tubing assemblies

ECITB courses and technical tests can be delivered at:

- SPX FLOW UK ECITB approved training and testing centers
- SPX FLOW Houston, TX, USA ECITB approved training and testing centers
- SPX FLOW Global Training facilities subject to approval via SPX Training UK and ECITB
- Client Site UK subject to approval via SPX FLOW Training UK.
- Client Site Global subject to approval via SPX FLOW Training UK and ECITB







AMERICAN PETROLEUM INSTITUTE - APPROVED TRAINING

As an API-U approved training provider SPX FLOW can offer a two day course covering the assembly, tightening and disassembly of bolted connections. This course includes in depth practical instruction on the safe and effective use of both hand and hydraulic bolt tightening equipment.

This SPX FLOW API approved training course can be delivered at:

- SPX FLOW global training facilities
- Client Site Global subject to approval via SPX FLOW Training UK.

API-U is dedicated to providing excellence in petroleum industry training. Because API has access to the largest pool of subject experts in the industry, API-U programs are taught by the best trainers who utilize today's innovative methods. The practical knowledge gained from API-U training enables participants to maintain professional competency.



ADDITIONAL COURSE OFFERINGS

SPX FLOW ADVISOR – controlled bolting software

SPX FLOW FLANGEPRO – joint monitoring software

Service and Maintenance of SPX FLOW products



IOSH Managing Safely IOSH Working Safely



RENTAL, CALIBRATION & SERVICE CENTERS

SPX FLOW Rental Service Centers offer full range of hydraulic torque wrenches, topside tensioners, subsea tenisoners, nut splitters, pump units and ancillary equipment all available 24/7 to meet our customers needs.

All SPX FLOW Bolting Systems Service Centers offer calibration services for all hydraulic torque wrenches, torque pump units and tensioner pump units. Please contact your local SPX FLOW Service Center for details and pricing.













HOUSTON, TEXAS

- Located in Pasadena, TX near the O&G, Refinery and Petrochemical market
- Full Rental Inventory
- Training Facilities
- Calibration
- Repair
- 24/7 Availability



ABERDEEN, SCOTLAND

- Near key North Sea Offshore customers
- Rental Inventory
- Training Facilities



PERTH, AUSTRALIA

- Serves SE Asia customers
- Rental Inventory
- Training Facilities



OTHER LOCATIONS

- Corpus Christi, TX USA
- Gonzales, LA USA
- Sulphur, LA USA
- Ashington, UK
- Eygelshoven, Netherlands
- Singapore
- · Shanghai, China