

AHSTCO

VALVE CARE SPECIALIST



PRODUCT CATALOGUE

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INTRODUCTION

AHSTCO is well established and highly professional Saudi Owned Company in the Kingdom specialized in **IN-LINE UNDER PRESSURE** valve care maintenance, repair and service.

BRIEF HISTORY

The company was established in 1988 with the motto of providing reliable services to SAUDI ARAMCO, SABIC, SCECO and local industries in the field of valve maintenance, Construction, Central Air-conditioning, Fabrication and support services.



In 2006, AHSTCO in association with SEALWELD CORPORATION, CANADA, one of the leading valve care maintenance company in the world, became pioneer in In-line valve repair. AHSTCO had successfully completed several projects (MFC, SFC) in different SAUDI ARAMCO facilities. AHSTCO has got head office and work shop in ABQAIQ and branch offices in Jubail and Al Hassa.

Due mainly to AHSTCO's self imposed, high standard of service, quality assurance, reliability and its realistic set of objectives the company has grown steadily and soundly to its present stature. Our company along with SEALWELD Corporation, Canada has been able to provide value added services in the field of valve care.

Our Special Service includes:

- ♦ Emergency valve Sealing 24/7
- ♦ In-Line under pressure valve Maintenance/Repair
- ♦ New Valve Commissioning
- ♦ Valve technician Training
- ♦ Seized or hard to operated valve repair (All types).
- ♦ Seat leakage Measurement & sealing Solutions
- ♦ Supply of Greasing/Sealing Equipments
- ♦ Supply of Valve Cleaner, Lubricants and Sealants.
- ♦ Supply of high Pressure Injection Fittings, special adapters.

Other Services

- ♦ Building Constructions
- ♦ Central Air-Conditioning
- ♦ Supply of wooden Steel Doors
- ♦ Support Services.

COMPANY OBJECTIVE

- To assist our customers in minimizing production loss caused by defective valves, repair and maintaining the valves with different causes to minimize the cost of materials and manpower in replacing valves aside from stopping the flow of production.

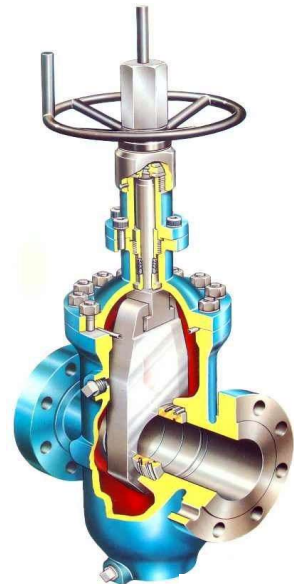
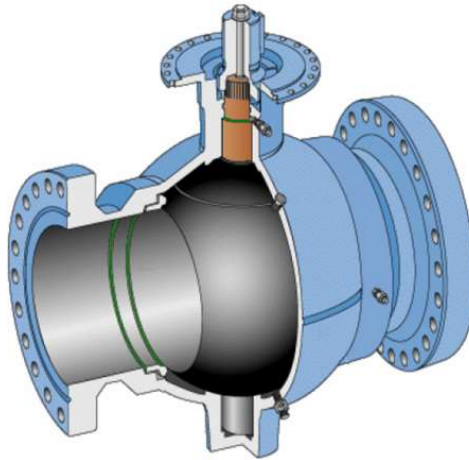
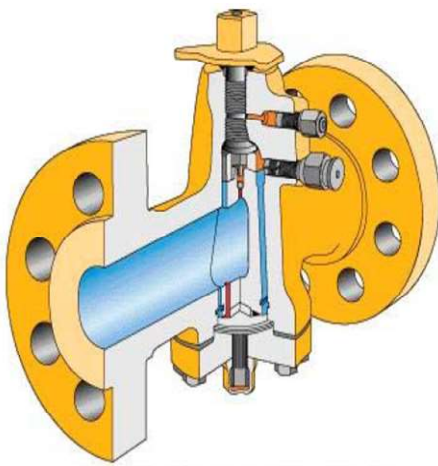
Through commitment to excellence a dedicated workforce and an adaptation of leading technologies AHSTCO will deliver quality, innovation, price sensitive products and service.



AHSTCO



24 Hours a Day!
7 Days a Week!
365 Days a Year!



GENERAL CONTRACTING SERVICES

VALVE CARE MAINTENANCE

AHSTCO provides certified valve technicians for a wide range of on-site valve specialist services utilizing dependable Sealweld Products and high pressure grease equipment. Services includes:

- In-Line Under pressure Valve Repair up to 10,000 PSI
- New Valve Commissioning
- Emergency Valve Sealing. (24 Hrs Service)
- Valve Preventive Maintenance
- Seized & Hard to Operate Valves
- Seat Leakage Measurement & Sealing Solutions
- Stem Leakage Problems

Specific procedures have been developed to seal even worst-case seat leakage problems with effective procedures & techniques for all types of valves in all oilfield hydrocarbon services.



KEY POINTS FOR SAFE VALVE MAINTENANCE

Effective valve maintenance can be accomplished using cleaners and introducing the proper lubricant at regular and frequent intervals. This will assure efficient and safe operation of thousands of valves that are now being removed and repaired or discarded each year. It has been suggested that increasing the frequency of servicing valves automatically places more grease into pipelines and other facilities. Not so. Injection of small amounts of our high-quality, insoluble lubricants will provide proper lubrication of valves at all times, and, ultimately, require less lubricant.

Cleaning and lubricating a valve, like changing oil in a new car, is a MUST if economical operation and long life are expected.

ALWAYS get specific authorization from your Supervisor or the control room **BEFORE** cycling (turning or operating) any valve in the system.

Do **NOT** open the body vent/drain fitting in the body cavity unless it is safe to do so.

Most gases are lethal in high concentrations. Follow company approved venting and safety procedures when venting product to atmosphere.

Many types of hydrocarbon liquids and gases can explode violently in certain mixtures and concentrations.

Take your time when servicing valves, be patient. The problems have taken many years to develop, it may take a few hours or even days to get some of the more difficult valves working properly again.

NEVER use excessive force or torque when trying to turn a seized valve. Excess stem torque may cause the valve to bend or break making the valve inoperable.

ALWAYS keep the high-pressure gauges on the sealant injection pump working properly. Most hand-held sealant injection pumps are capable of generating 10,000 to 15,000 PSI. Learn to 'read' the high-pressure gauge attached to the pump.

Read the original maintenance manual supplied with the valve for specific details regarding safe valve maintenance routines.

Watch the needle on the gauge drop as sealant moves through the valve. If blockage occurs the needle will not drop. If blockage occurs pump and inject Sealweld® Valve Cleaner Plus to clear the passage.

CLEANING VALVES

Valves which hang up, are hard-to-turn or do not seal properly usually require cleaning. Inject sufficient quantities of cleaner to displace all of the lubricant/ sealant in the valve sealant system*. Leave the valve cleaner in the valve for at least 30 to 40 minutes and cycle the valve, if permitted, to ensure complete coverage. **ALWAYS** displace the valve cleaner with equal quantities of lubricant/ sealant after cleaning. For problem valves, leave the cleaner inside the valve for several days and top-up frequently. Tests prove that periodic lubrication with valve cleaner prevents formation of gums and lacquers in valves, preventing costly repairs and downtime.

Valve cleaner is used as an internal valve cleaning compound in ball, gate and plug valves, as well as orifice fittings. Use in wellhead valves, at pump and compressor stations and distribution systems. Ideal for use on valves with plugged sealant fittings, seat leakage problems or valves which are hard-to-turn. The best results are achieved by injecting while the valve is in the full open

or full closed position. Purge valve cleaner from the system after use. ALWAYS attach a Flow Wolf® Leak-Lock Adapter to the valve fitting prior to injecting valve cleaners.

TOPPING-UP LUBRICANT/SEALANT

Routine maintenance often consists of topping-up the lubricant/ sealant in the valve sealant system.* The sealant system is a network of grooves and channels inside the valve leading to seal points around the ball, gate or plug. Quantities required to top-up any valve can vary greatly depending on the valve size, design, cycle frequency, service conditions and riser pipe height, if applicable. Use correct volumes of grease, too much and the excess is washed downstream, too little is a waste of time, money and manpower. Learn how to properly 'read' a high-pressure sealant injection gauge (mounted on the pump) to help determine when the sealant reaches the seal points.

LUBRICANTS

Sealweld® lubricants are a grease-like substance designed to lower torque in valves, is resistant to deterioration by product flowing through the pipeline and is stable over a broad temperature range.

LUBRICANTS/SEALANTS

Lubricant/ sealants are similar in characteristics to valve lubricants, with added bridging agents to provide sealing ability for minor damage such as scratches on seal faces.

EMERGENCY SEALANTS

The introduction of heavy sealants provides the ability to achieve a temporary seal even if more serious seal damage has occurred. ALWAYS displace extra heavy sealant and double extra heavy sealant with a lighter lubricant/ sealant when the seal is no longer required to avoid the risk of plugging complications at some future date. Valves which constantly require extra heavy sealant should be adjusted, repaired or replaced.

PACKINGS

Sealweld® also manufactures a complete product line of semi-liquid and injectable packing compounds for valve stems, pump glands and stuffing boxes. Our packings are designed to lubricate and seal and extend seal life many times over. Our newest product, Sealweld® Steam Shield Sticks valve stem packing is performing exceptionally well in temperatures up to + 370°C (+ 700°F) and beyond.

For safety reasons, the removal of stem packing should NOT be attempted while the valve is under pressure.

INJECTION TECHNIQUES

The best results are achieved by injecting while the valve is in the fully open or fully closed position. When attempting to seal a valve, if leakage persists, check the valve stops to ensure the valve is fully closed.

LUBRICANT FITTINGS

Many lubricant fittings have a two-piece body construction. Some valve manufacturers install this type at the factory. Usually reliable, the fitting pieces have been known to separate under pressure causing serious injury or fatality. Safer fittings reduce the pipeline operators' risk of liability.

Due to the absence of industry standards many dangerous types of fittings have been put into service.

Fitting failure is the #1 cause of technician injury and/ or death. Sealweld® Corporation has invested many years of research and development into designing the Flow Wolf® and have obtained Alberta Boilers Branch approval for our Flow Wolf® Internal Check Valves, Flow Wolf® Sealant Injection Fittings, and Sealweld® Body Vent Fittings. Certified fittings are stamped with a Canadian Registration Number (CRN)*.



Follow these simple procedures to prevent the loss of production, reduce down-time and costly repairs.

For procedures for the safe, in-line servicing of valves under pressure, we recommend ValvePro®, the Certified Valve Maintenance Technician Training Program.

For more information and to register, go to: www.valvepro.com

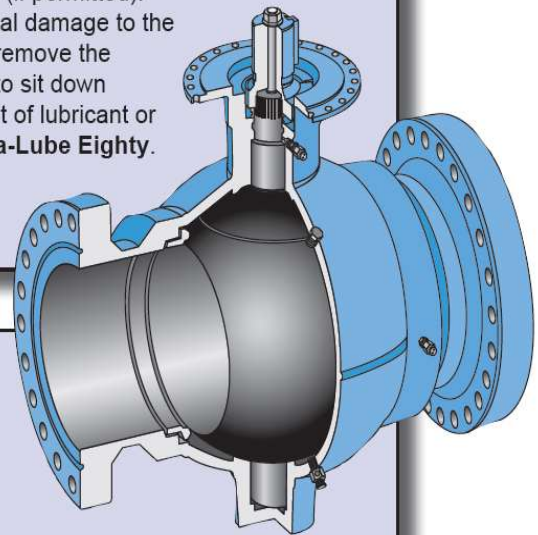
Ball Valves

VALVE SEAT LEAKS

Inject Sealweld® **Valve Cleaner Plus** then cycle the valve 3 times (if permitted). Wait 30 to 40 minutes and cycle valve again. If there is no physical damage to the seals this will be all that is required. The cleaning procedure will remove the build-up of contaminants from seal faces, allowing the seat rings to sit down tightly on the ball. Purge the cleaner by injecting an equal amount of lubricant or sealant. In new valves or valves with no seat damage inject **Equa-Lube Eighty**. If the seat leakage rate is minor, inject **Total-Lube #911**. In cases of severe seat leakage, inject Sealweld® **Ball Valve Sealant #5050**.

VALVE STEM LEAKS

If the valve is equipped with a buttonhead sealant injection fitting in the stem seal area, inject Sealweld® **Ball Valve Sealant #5050**. DO NOT exceed 3,000 PSI injection pressure. Refer to the Valve Maintenance and Servicing Hints available from Sealweld® and follow these simple procedures to help reduce the loss of product, down-time and costly repairs.



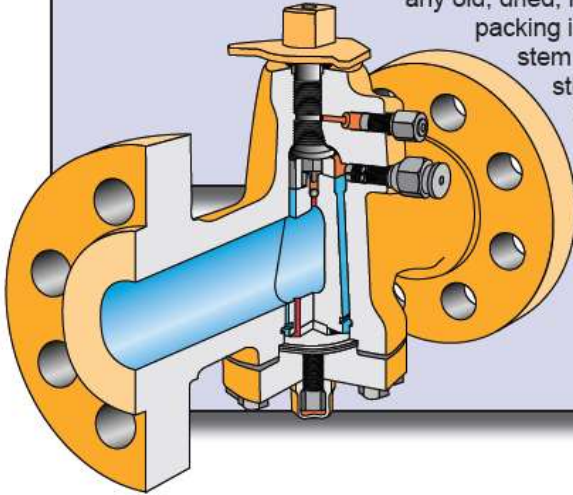
Plug Valves

SEIZED OR HARD-TO-TURN

Calculate the quantity required*, then fill with **Valve Cleaner Plus**. Wait 30 minutes, cycle the valve repeatedly, then inject the same quantity of **Total-Lube #911**.

STEM PACKING LEAKS OR VALVE IS STILL HARD-TO-TURN

For plug valves equipped with stem packing such as threaded-stem plug valves -- use the following procedure. Be sure pressure is relieved from valve, remove plug from opposite side of stem packing injector, dig out old packing, fill cavity with **Valve Cleaner Plus** to soften and break-down any old, dried, hardened stem packing. Replace plug. Load the stem packing injector with Sealweld® **Slick Sticks** and repack valve stem by turning bolt in until it is tight. This may take several sticks. If the plug valve stem is leaking but the valve turns easily - simply load the packing injector with **Slick Sticks** to repack.



VALVE LEAKS IN CLOSED POSITION

After cleaning with **Valve Cleaner Plus**, inject Sealweld® **Total-Lube #911** Lubricant/ Sealant.

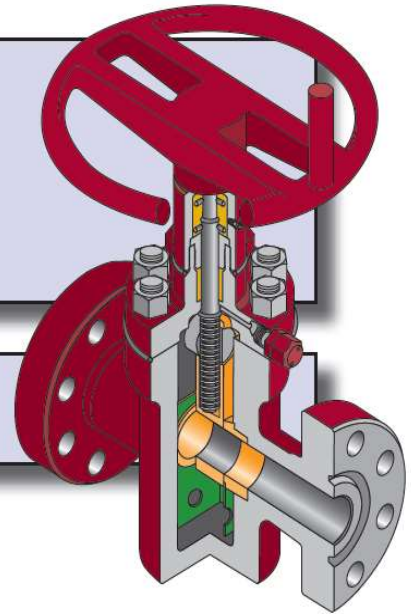
Gate Valves

VALVE SEAT LEAKS

When injecting directly into the body cavity, the injection pressure should NEVER exceed the maximum rated working pressure (MWP) of the valve. Inject Sealweld® Valve Cleaner Plus, allow the cleaner to soak for 30 - 40 minutes, up to 24 hours. Cycle the valve 3 times to spread the cleaner. Follow up by injecting Total-Lube #911 and cycle the valve repeatedly.

VALVE STEM LEAKS

If equipped with a packing injector, inject Sealweld® Slick Sticks.



VALVE MAINTENANCE TRAINING PROGRAM

ValvePro

The most complete
VALVE CARE TRAINING
in the industry.

The University of Texas at Austin
Petroleum Extension (PETEX)

Preventative valve maintenance, when performed regularly by skilled individuals, can mean the difference between optimal operation of your facilities or pipeline and an unscheduled shutdown. **Because** every second of **downtime** means lost revenue, the ability to safely service valves that are inline and under pressure, without a shutdown, becomes essential to any operator whose goal is to run their facility as safely, efficiently and profitably as possible.

ValvePro is a training program designed to help students acquire advanced knowledge of valve components and functions, and to practice hands-on skills to properly maintain valves and increase overall pipeline integrity. ValvePro graduates will gain the knowledge and skill set to increase valve

life span, reduce fugitive emissions and optimize efficiency at their facility. They will also benefit from enhancing their awareness of potentially hazardous situations and improving work practices.

PETEX AND SEALWELD WORKING TOGETHER

The University of Texas – Petroleum Extension Service (PETEX) and Sealweld Corporation have joined forces to provide the most comprehensive valve maintenance training available today. ValvePro® has, to date, certified hundreds of students from over a dozen countries worldwide.

PETEX has been training companies and individuals since 1944. Headquartered at the J.J. Pickle Research Campus north of the main university campus, PETEX develops, produces, and delivers technical and non-technical training courses, publications, and audiovisual aids for the oil and gas industry.

Sealweld has been servicing valves inline and under pressure, and educating clients how to do so safely and efficiently for over forty years. When it comes to valve care training and products, Sealweld not only wrote the book, but several of them.

VALVE PRO® - VALVE TECHNICIAN TRAINING

Training That Works

ValvePro® is a comprehensive training and qualification program conducted by Sealweld aimed at the people responsible for the servicing and maintenance of valves.

Computer Based Training Only (Access to the ValvePro® web-based learning center)

This read-only reference version of the ValvePro CBT module will appeal to all departments including engineering operations, procurement, environmental and of course, maintenance.

Computer-Based Training with Testing

You can purchase the CBT Software License separately from the full package as a standalone resource or as a step towards CVMT certification at a later date. Tests Included. Suitable for Management or persons who need the knowledge but are not actively servicing equipment.



Full Training with Certification

The complete package leading to Certified Valve Maintenance Technician (CVMT) certification Issued by PETEX this includes the Computer-Based Training module scoring 80% or higher on all 3 levels, plus attendance and passing of the 3-day certification 'hands-on' sessions. Ideal for the person in the field. We have 3 training facilities, Calgary Alberta, Houston, Texas and Odessa, Texas. The first 2 days are spent in our classroom and training lab. On the final day of the seminar, students

will complete competency testing in our training lab one-on-one with the instructor to prove their skills and earn their certification.

Here's what to expect from the ValvePro® training program:

- Learn how to safely service valves in-line and under pressure.
- Learn how to extend valve service life.
- Develop a checklist of everything to be done to get your equipment properly serviced.
- Perform a complete valve health check including before and after service leakage verification.
- Demonstrate your qualification to comply with Occupational Health and Safety legislation.
- Free a seized ball, gate or plug valve safely.
- Seal stem and seat leakage from all makes and types of valves.
- Safely inject cleaners, lubricants, sealant and emergency sealants into valves under pressure.
- Avoid costly mistakes by ensuring workers have the skills they need.
- Save time and frustration knowing the servicing is right the first time.
- Troubleshoot inoperable lubrication equipment.

Go to www.valvepro.com for information

MOBILE TRAINING WORKSHOP

AHSTCO/SEALWELD utilizes a mobile training trailer in which air is used to simulate gas pressure. Or if weather permits and facilities are available close by, a field demonstration and/or a walk through can be used to reiterate the information covered in the class.

Our Valve Maintenance training is based on OVER 40 years of service experience. We cover ALL manufacturers' equipment and can CUSTOMIZE your training to your sites specific requirements.

We have designed the valve service training to the next level by bringing the workshop to your facility. The participants will have an opportunity to closely interact with specialists and share ideas. The program is designed with the motto of "Learning through practice"

This workshop will provide the candidate with insight into:

- Integrity testing
- Wellhead valve inspection
- Gate, Plug, Ball valve inspection
- Emergency in-line under pressure valve sealing and testing
- Valve and valve fittings identification



The mobile workshop facility includes Valve models including well head, ball, gate and plug valve of various size, Pressurized flow line, High pressure injection pumps and maintenance tools.



CERTIFICATES



JUAYMAH TERMINAL OPERATIONS DIVISION

أرامكو السعودية
Saudi Aramco

THIS CERTIFICATE IS AWARDED TO

AHSTCO

FOR HIS CONTRIBUTION DURING KJ-1 OUTAGE TO INSTALL A NEW PCV AND TO
REPAIR THE PUMP OUT CRACK

NASSER J. AL-DOSSARY, SUPERINTENDENT
JUAYMAH TERMINAL OPERATIONS DIVISION



Safaniya Offshore Producing Division

أرامكو السعودية
Saudi Aramco

Appreciation Certificate Given to:

**Abdallah Hammad Al Shammary
Trading Company**

In recognition of the substantial efforts to
succesfully seal the passing subsea ball valve #149
on June 25, 2008



Nabil S. Al-Khanaifer, Supt.,
Safaniya Offshore Producing Division.

BERRI GAS PLANT

أرامكو السعودية
Saudi Aramco



Certificate of Appreciation

Presented to

AHSTCO

*For the Safe and Successful sealing of passing 24" BORSIG "S Type"
Ball Valve at Berri Gas Plant using Sealweld CHAMILEON Sealant.*

*Buti R. Al-Subai, Superintendent
BGP Engineering Division*



2012
MAINTCON



Certificate

Presented to

Abdullah H. Al Shammary Trading & Contracting

*for participating in the Exhibition organized in conjunction with
2nd Middle East Maintenance Conference & Exhibition*

*Organized by
Gulf Society of Maintenance Professionals &
Bahrain Society of Engineers
02 - 05 December 2012, Kingdom of Bahrain*

Eng. Nezar Al Shammasi
Conference Chairman

Eng. Abdullah Al-Mugahwy
Chairman, Exhibition Committee



Saudi Arabian Section of
American Institute of Chemical Engineers
(SAS - AIChE)



جمعية المهندسين
BAHRAIN SOCIETY OF ENGINEERS

Certificate

Presented to

Abdullah Al Shammary Trading & Contracting (AHSTCO)

*for participating in the Exhibition organized in conjunction with
First Middle East Process Engineering Conference & Exhibition*

*Organized by
Saudi Arabian Section of American Institute of Chemical Engineers &
Bahrain Society of Engineers*

23 - 26 October 2011, Kingdom of Bahrain

Eng. Said Al-Zahrani
Sponsorship & Exhibition - Chairman



Certificate of Appreciation

D&TO PLANNING & TECHNICAL DIVISION

Presents this Certificate to

AHSTCO

In recognition of their outstanding contribution to the success of
Marine and Truck Loading Process Technical Exchange Meeting
Held at Dhahran on November 5-6, 2013

General Supervisor
D&To Planning & Technical Division

AHSTCO



GENERAL TRADING SERVICES

VALVE LUBRICANTS, SEALANTS, CLEANERS & PACK-KINGS



Valve Lubricants, Sealants and Cleaners

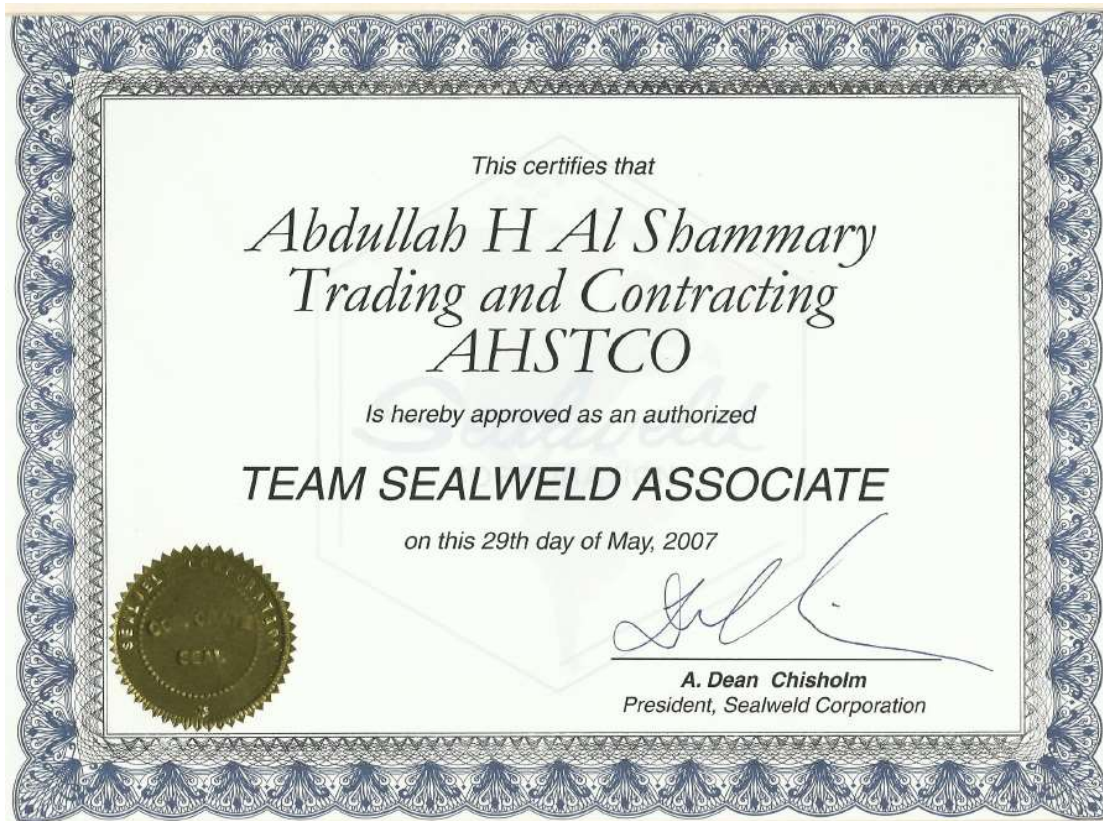
Preferred by professional valve maintenance technicians around the world because they have come to depend on our consistent quality and performance in routine use and in an emergency when a critical seal is demanded.

Sealweld Valve Care Products are recommended by many of the world's largest valve manufacturers and are recommended as "no substitute" by many of the world's largest pipeline operators and oil and gas companies for over forty years.

Our easy 3-step process of injecting Valve Cleaner Plus, Total-Lube #911 and Sealweld #5050 sealant will resolve over 80% of all normal valve leakage problems in natural gas, crude oil and related hydrocarbon product services.

Sealweld synthetic valve lubricants are formulated to remain soft and pliable, and will not break-down or go hard in order to achieve the longest possible in-service maintenance cycle.

Sealweld synthetic valve sealants are unique and have no equal. They are designed to provide a reliable, temporary seal even in severely leaking valves.



- ❖ **Authorized Sole Agent in the Kingdom in providing dependable & reliable Sealweld Valve Care Products that are equally suited to either gas or oil and are proven effective in all hydrocarbon product related applications.**

SEALWELD VALVE CLEANER PLUS

Non-hazardous, environmentally friendly product designed to clean valve seal faces and internal sealant passages. In many cases, simply cleaning the seat sealant system and/or valve body will loosen seized metal components and clean build-up and debris from critical sealing surfaces. In many cases this may solve the problem.

Description

Valve Cleaner Plus is not a sealant, it is a combination of solvent and semi-synthetic lubrication oils. Formulated to be injected directly into the seat sealant system to **clean seal faces and sealant passages**. Cycle the valve (if permitted) to ensure complete coverage, to allow the valve cleaner to soften old sealants and remove residual build-up from seal points. Valves with severe or persistent leakage may require more wait time. The best results are achieved by displacing the valve cleaner with equal quantities of lubricant/ sealant after cleaning.

Recommended for use in ball, gate or plug valves and orifice fittings. For use at refineries, wellheads, pump or compressor stations and in gas distribution systems.

- Non-Flammable
- Non-Carcinogenic
- Non-Ozone Depleting



Product Specifications

Base Oil	Semi-synthetic
Colour	Black
Drop Point	+ 235°C or + 455°F
Texture	Thin paste
Pressure	10,000 PSI
ASTM Penetration	250 – 340
Compatibility	Dispersant
Solvent Resistance	N/A
Special Additives	Molybdenum Disulfide
Composition	Semi-liquid
Range :	- 40°C to + 204°C - 40°F to + 400°F

Order Details

<u>Ordering Size</u>	<u>Part No.</u>
10 Ounce Cartridge - 1 Single	S-VCP-HG
14 Ounce Cartridge - 1 Single	S-VCP-SG
10 Ounce Cartridges - 16 per Case	S-VCP-HGC
14 Ounce Cartridges - 12 per Case	S-VCP-SGC
9 Pound Can	S-VCP-9P
36 Pound Pail	S-VCP-36P
110 Pound Drum	S-VCP-110D
360 Pound Drum	S-VCP-360D

SEALWELD ODYSSEY INDUSTRIAL CLEANING SOLVENT

A synthetic industrial cleaning solvent.

Description

Sealweld® **Odyssey Cleaning Solvent** is a synthetic industrial cleaning solvent. *Excellent for removing heavy deposits of grease, lubes and heavy oils, as well as removing sludge and dirt from metal parts.* Sealweld® **Odyssey Cleaning Solvent** will not harm metal, most types of rubber, plastic or concrete. It is excellent for dissolving asphaltene build-up, and has many other uses in the industrial marketplace. Sealweld® **Odyssey Cleaning Solvent** does not contain water and is not water-soluble, on the contrary it leaves behind a protective barrier that inhibits spot rust.

- Use as a valve body flushing solvent for seized or hard to turn valves
- Non-Flammable
- Non-Hazardous
- Non-Polluting



Product Specifications

Temperature Range - 29°C to + 232°C
 - 20°F to + 450°F

Order Details

Ordering Size

Spray Bottle
Bottle - 4 Liters
Pail - 5 Gallons
Drum - 45 Gallons

Part No.

K-OS-SB
K-OS-4L
K-OS-5G
K-OS-45G

EQUA-LUBE EIGHTY

Our most economical, light synthetic lubricant ideal for commissioning new pipeline valves. Use in ball, gate and plug valves with little to no wear, as well as orifice fittings.

Ideal for year-round use and in all climates.

Description

Sealweld® **Equa-Lube Eighty** provides an insoluble film of lubricant to protect critical seal faces and reduce torque requirements. Extend valve service life by injecting Sealweld® **Equa-Lube Eighty** immediately after the hydrostatic test at the valve factory or repair facility. This will purge all test water from the seat pockets where corrosion commonly occurs.

Protects against damage from pipeline contaminants, such as dirt, sand, line scale and welding slag at start-up. Insoluble in water, crude oil, natural gas, condensate and related by-products.

Recommended for use in new valves, wellhead valves, at refineries, pump and compressor stations and in gas distribution systems. Equally effective in both oil and gas facilities.



Product Specification

Base Oil	Synthetic
Colour	Amber/ Brown
Drop Point	None
Texture	Tacky
Pressure	10,000 PSI
ASTM Penetration	210 – 290
Compatibility	Excellent
Solvent Resistance	Excellent
Special Additives	None
Particle Size	N/A
Composition	Semi-liquid
Temperature Range	- 40°C to + 149°C - 40°F to + 300°F

Order Details

<u>Ordering Size</u>	<u>Part No.</u>
'J' Stick - 1-3/8" x 8-1/2"- 1 Stick	S-EQ-J
'J' Stick - 1-3/8" x 8-1/2"- 16/Box	S-EQ-16J
11 Ounce Cartridge - 1 Single	S-EQ-HG
15 Ounce Cartridge - 1 Single	S-EQ-SG
11 Ounce Cartridges - 16/Case	S-EQ-HGC
15 Ounce Cartridges - 12/Case	S-EQ-SGC
10 Pound Can -	S-EQ-10P
40 Pound Pail -	S-EQ-40P
120 Pound Drum -	S-EQ-120D
16 Ounce Brush Top Can -	S-EQ-BT
16 Ounce Brush Top Can - 12/Case	S-EQ-BTC
400 Pound Drum -	S-EQ-400D

SEALWELD TOTAL-LUBE #911

Superior grade synthetic lubricant/ sealant designed specifically for worn valves with minor leakage problems.

Description

Sealweld® **Total-Lube #911** provides an effective film of lubricant to protect seal faces and reduce torque requirements. Incorporated with microscopic particles of PTFE, Total lube will seal minor scratches to sealing surfaces and shallow corrosion pits. Seals scratches up to 0.010" and nicks and cuts on soft seats. Designed specifically as an all-purpose seat lubricant/ sealant to extend the maintenance interval in severe service and critical service valves. Sealweld® **Total-Lube #911** is insoluble in water, oil, natural gas and related by-products. Suitable for sour service valves.

Recommended for use in ball, gate, and plug valves as well as orifice fittings. Use at refineries, wellheads, pump or compressor stations and in gas distribution systems. Excellent for plug valve maintenance



Product Specification

Base Oil	Synthetic
Colour	White
Drop Point	None
Texture	Tacky
Pressure	10,000 PSI
ASTM Penetration	170 – 250
Compatibility	Excellent
Solvent Resistance	Excellent
Special Additives	PTFE
Particle Size	Micronized
Composition	Semi-liquid
Temperature Range	- 29°C to + 232°C - 20°F to + 450°F

Order Details

Ordering Size	Part No.
'A' Stick - 1/4" x 1" - 108/Box	S-TL-108A
'B' Stick - 3/8" x 1-1/2" - 72/Box	S-TL-72B
'C' Stick - 7/16" x 2-1/8" - 32/Box	S-TL-32C
'D' Stick - 1/2" x 2-1/4" - 28/Box	S-TL-28D
'G' Stick - 5/8" x 3-1/2" - 14/Box	S-TL-14G
'J' Stick - 1-3/8" x 8-1/2" - 1 Stick	S-TL-J
'J' Stick - 1-3/8" x 8-1/2" - 6/Box	S-TL-6J
'J' Stick - 1-3/8" x 8-1/2" - 16/Box	S-TL-16J
11 Ounce Cartridge - 1 Single	S-TL-HG
15 Ounce Cartridge -1 Single	S-TL-SG
11 Ounce Cartridges - 16/Case	S-TL-HGC
15 Ounce Cartridges - 12/Case	S-TL-SGC
10 Pound Can	S-TL-10P
40 Pound Pail	S-TL-40P
120 Pound Drum	S-TL-120D
400 Pound Drum	S-TL-400D

SEALWELD BALL VALVE SEALANT # 5050

A synthetic sealant recommended for use in pipeline valves with more severe leakage problems.

Description

Sealweld® **Ball Valve Sealant #5050** provides an insoluble film of lubricant to protect seal faces and reduce torque requirements. Specially processed particles of PTFE will seal scratches to sealing surfaces up to 0.030". Will not harden or plug off conventional giant buttonhead sealant injection fittings. **#5050** is ideal for use in natural gas, water, oil, and related by-products. Use in ball, gate and plug valves, orifice fittings, valve stems and seat seals with minor to severe leakage problems. Use at refineries, wellheads, pump or compressor stations and in gas distribution systems. Suitable for crude oil, sour gas, CO₂, water/ brine solutions, and refined petroleum product pipelines.

For best results, first inject Sealweld® **Valve Cleaner Plus**, then leave in the valve for 30 – 40 minutes (up to 8 hours for problem valves). Purge the system with Sealweld® Total-Lube #911. Inject **Ball Valve Sealant #5050** if **Total-Lube #911** fails to hold a reliable seal.

#5050 is also available in heavier grades for severely leaking valves and emergency valve sealing conditions.

This product is available in a wide range of extra heavy grades with increasing amounts of PTFE. Designed for use by qualified technicians ONLY.

Contact AHSTCO for consultation prior to application of these products.



Product Specification

Base Oil	Synthetic
Colour	Green
Drop Point	None
Texture	Tacky
Pressure	10,000 PSI
ASTM Penetration	200 – 250
Compatibility	Excellent
Solvent Resistance	Excellent
Special Additives	PTFE
Particle Size	Semi-micronized
Composition	Semi-liquid
Temperature Range	- 29°C to + 232°C - 20°F to + 450°F

Order Details

<u>Ordering Size</u>	<u>Part No.</u>
11 Ounce Cartridge - 1 Single	S-VS-HG
15 Ounce Cartridge - 1 Single	S-VS-SG
11 Ounce Cartridges - 16/Case	S-VS-HGC
15 Ounce Cartridges - 12/Case	S-VS-SGC
10 Pound Can	S-VS-10P
40 Pound Pail	S-VS-40P
120 Pound Drum	S-VS-120D
400 Pound Drum	S-VS-400D

SEALWELD EXTRA HEAVY BALL VALVE SEALANT #5050

Synthetic emergency sealant for ball and gate valves with SEVERE leakage problems and pipeline valve stems in high-temperature service.

Always use the lightest grade sealant before progressing to the heavier more aggressive sealants to avoid complications with the sealant fittings and internal passages.

Description

Designed for use by qualified technicians ONLY. Contact AHSTCO/SEALWELD for consultation prior to application of these products.

Note: Not recommended for use in plug valves except in an emergency. The excellent sealing ability of this compound may restrict internal sealant passages and/ or plug them completely. Purge from system after use. Not recommended for use in small diameter plug valves.



Order Details - XH #5050

Ordering Size	Part No.
11 Ounce Cartridge - 1 Single	S-XS-HG
15 Ounce Cartridge - 1 Single	S-XS-SG
11 Ounce Cartridges - 16/Case	S-XS-HGC
15 Ounce Cartridges - 12/Case	S-XS-SGC
120 Pound Drum	S-XS-120D
10 Pound Can	S-XS-10P
40 Pound Pail	S-XS-40P
400 Pound Drum	S-XS-400D

Order Details - XXXH #5050

Ordering Size	Part No
11 Ounce Cartridge - 1 Single	S-XXXS-HG
15 Ounce Cartridge - 1 Single	S-XXXS-SG
11 Ounce Cartridges - 16/Case	S-XXXS-HGC
15 Ounce Cartridges - 12/Case	S-XXXS-SGC
120 Pound Drum	S-XXXS-120D
10 Pound Can	S-XXXS-10P
40 Pound Pail	S-XXXS-40P
400 Pound Drum	S-XXXS-400D

Order Details - XXH #5050

Ordering Size	Part No
11 Ounce Cartridge - 1 Single	S-XXS-HG
15 Ounce Cartridge - 1 Single	S-XXS-SG
11 Ounce Cartridges - 16/Case	S-XXS-HGC
15 Ounce Cartridges - 12/Case	S-XXS-SGC
120 Pound Drum	S-XXS-120D
10 Pound Can	S-XXS-10P
40 Pound Pail	S-XXS-40P
400 Pound Drum	S-XXS-400D

Order Details - XXXXH #5050

Ordering Size	Part No
11 Ounce Cartridge - 1 Single	S-XXXXS-HG
15 Ounce Cartridge - 1 Single	S-XXXXS-SG
11 Ounce Cartridges - 16/Case	S-XXXXS-HGC
15 Ounce Cartridges - 12/Case	S-XXXXS-SGC
120 Pound Drum	S-XXXXS-120D
10 Pound Can	S-XXXXS-10P
40 Pound Pail	S-XXXXS-40P
400 Pound Drum	S-XXXXS-400

SEALWELD CHAMELEON SEALANT

Emergency Valve Body Sealant

Sealweld Chameleon Seal should only be used by Experienced professional pipeline valve technicians. Use only after all conventional seat sealing methods have proven ineffective.

Description

Chameleon seal is a proprietary blend of semi-synthetic compounds designed specifically for sealing severe valve seat leakage in downstream seating ball and gate valves. Cycle the valve to the fully open position. Flush the body cavity with an approved solvent solution in case contaminants have collected in the body cavity. Inject chameleon sealant in to body cavity. Do not overfill the body cavity. Do not exceed the maximum body pressure rating.

Chameleon Seal is the ultimate emergency valve sealant

Ideal for use at offshore platforms and sub-sea valves.



Product Specification

Base Oil	Semi-synthetic
Colour	Blue/Green
Drop point	> +260 C or > +500F
Texture	Thick paste
Pressure	10,000 PSI
ASTM Penetration	225-270
Compatability	Excellent
Solvent Resistance	N/A
Special Additives	Vespel
Particle Size	Semi-micronized
Temperature Range	-20C to +170C -5F to +336F

Order Details

Ordering Size	Part No
10 Pound Can	S-GS-10P
40 Pound pail	S-GS-40P
400 Pound Drum	S-GS-400

WINTER-LUBE #7030

All-purpose synthetic valve lubricant formulated to remain soft in sub-zero winter climates.

Description

Sealweld® **Winter-Lube #7030** is a synthetic-based lubricant designed specifically for use in sub-zero winter climates where conventional sealants become stiff and too hard to pump. Unique additives provide excellent low-temperature pumping ability and lower operating torque in severe operating conditions. Sealweld®**Winter-Lube #7030** can be used year-round in all types of service. Formulated to remain insoluble in water, oil, all types of hydrocarbon services including natural gas, condensate, related by-products, crude oil and refined petroleum products. Use in ball, gate and plug valves.

Recommended for use on: above ground valves such as blow-down valves, pig launching and receiving valves and in refineries, wellheads, pump or compressor stations and in gas distribution systems.

Suitable for use in Sour Service.



Product Specification

Base Oil	Synthetic
Colour	Grey
Drop Point	None
Texture	Tacky
Pressure	10,000 PSI
ASTM Penetration	210 – 290
Compatibility	Excellent
Solvent Resistance	Excellent
Special Additives	PTFE
Particle Size	Micronized
Temperature Range	- 40°C to + 205°C - 40°F to + 400°F

Order Details

Ordering Size	Part No.
11 Ounce Cartridge - 1 Single	S-WL-HG
15 Ounce Cartridge - 1 Single	S-WL-SG
11 Ounce Cartridges - 16/Case	S-WL-HGC
15 Ounce Cartridges - 12/Case	S-WL-SGC
10 Pound Can	S-WL-10P
40 Pound Pail	S-WL-40P
120 Pound Drum	S-WL-120D
400 Pound Drum	S-WL-400D

SEALWELD WINTER-SEAL #2525

Synthetic valve sealant for use in extremely cold climates. **Winter-Seal #2525** is similar to **#5050** sealant in terms of sealing ability and remains pumpable at cold temperatures. Can also be custom blended into XH, XXH, XXXH grades.

Description

Sealweld® **Winter-Seal #2525** utilizes the same base formula as Sealweld® **Winter-Lube #7030** with added PTFE particles that improve the sealing characteristics. Sealweld® **Winter-Seal #2525** reduces torque and provides reliable sealing in leak passages up to 0.030". This product may also be used as a secondary stem sealant, when the ambient temperature makes pumping conventional sealants difficult and time consuming. Designed to remain insoluble in all types of hydrocarbon services including natural gas, condensate, related by-products, crude oil and refined petroleum products. Suitable for use in Sour Service.



Product Specifications

Base Oil	Synthetic
Colour	Dark Grey
Drop Point	None
Texture	Tacky
Pressure	10,000 PSI
ASTM Penetration	200 – 250
Compatibility	Excellent
Solvent Resistance	Excellent
Special Additives	PTFE
Particle Size	Semi-micronized
Temperature Range	- 40°C to + 205°C - 40°F to + 400°F

Order Details

Ordering Size	Part No.
11 Ounce Cartridge - 1 Single	S-WS-HG
15 Ounce Cartridge - 1 Single	S-WS-SG
11 Ounce Cartridges - 16 per Case	S-WS-HGC
15 Ounce Cartridges - 12 per Case	S-WS-SGC
10 Pound Can	S-WS-10P
40 Pound Pail	S-WS-40P
120 Pound Drum	S-WS-120D
400 Pound Drum	S-WS-400D

LOW-TEMPERATURE LUBRICANT D-1014

Synthetic valve lubricant, extremely light consistency, designed for super-cold LNG/ LPG and similar applications.

D-1014 is available with or without PTFE and in extra heavy grade S-XD.

Description

Sealweld® **Low-Temperature Lubricant D-1014** is a proprietary blend of synthetic materials formulated with low temperature additives. **D-1014** significantly reduces torque requirements, counters the extreme drying effects produced by liquefied petroleum gases and lubricates long after other types of lubricants have been washed out. Sealweld® **Low-Temperature Lubricant D-1014** makes an excellent gear box lubricant.

Recommended for use in LPG/ NGL services including propane, butane, ethane, ethylene and related by-products. Ideal for use in ball, gate, plug, wellhead valves and other valves designed to be left offline in extreme climate conditions and must be available for actuation as in the case of pig traps and launchers.



Product Specification

Base Oil	Synthetic
Colour	Grey
Drop Point	None
Texture	Thin Paste
Pressure	10,000 PSI
NGLI Grade	1
ASTM Penetration	230 - 330
Special Additives	Graphite & PTFE
Flash Point	+ 221°C or + 430°F
Melting Point	None
Temperature Range	- 54°C to + 204°C - 75°F to + 400°F

Order Details With PTFE

Ordering Size	Part No.
11 Ounce Cartridge - 1 Single	S-DS-HG
15 Ounce Cartridge - 1 Single	S-DS-SG
11 Ounce Cartridges - 16/Case	S-DS-HGC
15 Ounce Cartridges - 12/Case	S-DS-SGC
10 Pound Can	S-DS-10P
40 Pound Pail	S-DS-40P
120 Pound Drum	S-DS-120D
400 Pound Drum	S-DS-400D

Order Details No PTFE

11 Ounce Cartridge - 1 Single	S-DSX-HG
15 Ounce Cartridge - 1 Single	S-DSX-SG
11 Ounce Cartridges - 16/Case	S-DSX-HGC
15 Ounce Cartridges - 12/Case	S-DSX-SGC
10 Pound Can	S-DSX-10P
40 Pound Pail	S-DSX-40P
120 Pound Drum	S-DSX-120D
400 Pound Drum	S-DSX-400D

ETERNA-LUBE #1000

Anti-seize compound and high-temperature lubricant for use in severe service conditions. Use in gear boxes, stem extensions and steam service.

Description

Sealweld® **Eterna-Lube #1000** is a superior multi-use, anti-seize compound formulated to provide rust and corrosion protection for all metal surfaces by forming a protective coating. Enhanced with additives that create an impenetrable barrier that will withstand extreme heat, pressure and friction, reduce torque requirements and eliminate wear.

Eterna-Lube #1000 is waterproof, non-melting, highly resistant to chemicals and gases (except oxygen) and will not harden.

Sealweld® **Eterna-Lube #1000** is the recommended valve seat lubricant in high temperature services including hydrocarbons, hot air and steam.

Recommended for use in: valve stems, gear boxes, expansion joints, conveyor belts, air motors, pumping mechanisms, all threaded connections, hand and motor-operated valves, gaskets, flanges, O-rings, bushings, bearings, rollers, gears, transmission boxes, chains, drives, automotive chassis, wheel bearings, universal joints, electric motors, compressors, hoists, turbines, winches, furnaces, burner assemblies, regulators, pumps, control chests, headers, cylinder head assemblies, gasket manifold assemblies, stud assemblies, fuel injectors, pre-combustion chambers, valve cages, turbo charger fittings, guides, fine thread tubing, compressor cages, silencer piping, shaft coupling bolts, keyways, spark plugs, torque rod pins and lubes, air cylinder assemblies, pneumatic cylinder shafts, liquid fuel pumps, air slides and axle shafts.

NOT recommended for use in high-speed bearings.



Product Specification

Base Oil	Synthetic
Colour	Silver Grey
Drop Point	+ 327°C or + 621°F
NLGI Grade	1
ASTM Penetration	240 - 330
Specific Gravity	1.30
Flash Point (Base Oils)	+ 302°C or + 575°F
Thermal Decomposition Point	+ 371°C or + 700°F
Spontaneous Ignition Point	+ 487°C or + 910°F
Freeze Point	- 22°C or - 8°F
Temperature Range	- 40°C to + 1093°C - 40°F to + 2000°F

Order Details

Ordering Size	Part No.
16 Ounce Brush Top Can	S-EL-BT
16 Ounce Brush Top Can- 12/Case	S-EL-BTC
11 Ounce Cartridge - 1 Single	S-EL-HG
15 Ounce Cartridge - 1 Single	S-EL-SG
11 Ounce Cartridges - 16/Case	S-EL-HGC
15 Ounce Cartridges - 12/Case	S-EL-SGC
10 Pound Can	S-EL-10P
40 Pound Pail	S-EL-40P
120 Pound Drum	S-EL-120D
400 Pound Drum	S-EL-400D

STEAM SHIELD 2000

Sealweld® has developed **Steam Shield 2000**, a unique specialty synthetic valve lubricant tested and proven to remain stable at extremely high temperatures.

Steam Shield 2000 is recommended specifically for use in valves used for steam injection and heavy oil recovery. Also recommended for use in building steam heating systems, geothermal service, etc.

Case Study

The original field pilot began in spring 2002. Several wellhead valves were filled with Steam Shield 2000 lubricant and then put into service. Steam was injected into the formation at + 295°C/ + 563°F continuously for the first year. At the first maintenance interval the same wellhead valves were re-lubricated with additional Steam Shield 2000.

Observations: Steam Shield 2000 remained exceptionally stable with very little to no break down or hardening occurring. Steam Shield 2000 helped to dissipate the heat caused by the extreme high-temperature steam injection and hot oil production.

The presence of this inert lubricant helped prevent internal seat seal damage, wash-outs and cuts normally associated with this high-temperature and highpressure service.

Wellhead valves protected by Steam Shield 2000 will exhibit prolonged valve service life. Wellhead valves in nearby fields, using the same SAGD technology, were found to be exhibiting extensive seal damage and in many cases severe seat leakage. These valves were injected with conventional high-temp lubricants or none at all. High-temperature wellhead repair costs become prohibitively expensive when the cost of lost production revenue is taken into consideration. Protect your company's investment -- use Steam Shield 2000 on all of the SAGD wellheads at your facility.

Description

Sealweld® **Steam Shield 2000** is a proprietary blend of synthetic ingredients that when combined, exceed the ratings of the components. As a result, **Steam Shield 2000** lubricant/sealant withstands temperatures up to + 398°C or + 750°F with minimal thermal decomposition. **Steam Shield 2000** provides an insoluble film of synthetic lubricant to protect valve seal faces and reduce torque requirements. **Steam Shield 2000** is non-melting and insoluble in water, steam and related by-products. Tested in California and Alberta's steam-enhanced recovery projects as a valve and stuffing box sealant, **Steam Shield 2000** demonstrated excellent results. The viscosity of **Steam Shield 2000** allows for ease of application using a brush, grease pump or automatic injection equipment.

In cases of extreme valve leakage where regular sealants do not achieve desired results, Sealweld® offers a full range of specialty sealants to achieve a reliable temporary seal.



Base Oil	Synthetic	Ordering Size	Part No.
Colour	Black	11 Ounce Cartridge - 1 Single	S-SS-HG
Drop Point	+ 327°C or + 621°F	15 Ounce Cartridge - 1 Single	S-SS-SG
Texture	Tacky	11 Ounce Cartridges - 16/Case	S-SS-HGC
NLGI Grade	1	15 Ounce Cartridges - 12/Case	S-SS-SGC
ASTM Penetration	260 – 340	10 Pound Can	S-SS-10P
Compatibility	Excellent	40 Pound Pail	S-SS-40P
Water Resistance	Excellent	120 Pound Drum	S-SS-120D
Special Additive	Moly	400 Pound Drum	S-SS-400D
Particle Size	< 4 Microns		
Composition	Semi-liquid		
Temperature Range	- 30°C to + 400°C - 21°F to + 750°F		

SLICK STICKS

Moldable valve stem packing sticks. Use in wellhead gate valves, plug valves and as a supplemental pump gland packing.

Description

Sealweld® **SLICK STICKS** are made of moldable packing putty with a proprietary blend of PTFE particles which bond to form a durable yet replaceable seal. **SLICK STICKS** provide maximum sealing and lubricating efficiency when injected into ball, gate, or plug valves, stems, stuffing boxes, pump glands and expansion joints. Can be used in high-pressure and corrosive service, all types of pumps and stuffing boxes and packing glands. Sealweld® **SLICK STICKS** are insoluble in water, oil, sweet or sour natural gas and related by-products. Recommended for use at: refineries, wellheads, pump or compressor stations and in gas distribution systems.

Note: When using **SLICK STICKS** on centrifugal pumps, the maximum surface speed of the shaft should not exceed 1000 feet per minute.

i.e. Maximum shaft size and speed is 2.25 inch diameter shaft rotating at 1800 RPM.



Product Specification

Temperature Range	- 40°C to + 260°C - 40°F to + 500°F
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Order Details - High-Temperature Packing

Ordering Size	Part No.
'J' Stick - 1 Stick	P-SP-J
Jar - approximately 100 'B' Sticks	P-SP-100J
Pail - approximately 1,000 'B' Sticks	P-SP-1MP

STEAM SHIELD STICKS

Extreme high-temperature valve stem and pump packing.

Description

Steam Shield Sticks are blended with specially processed Vespel®* particles for extremely high-temperature sealing capability.

* Vespel is the registered trademark of E.I. duPont de Nemours and Co



Product Specification

Temperature Range - 22°C to + 400°C
 - 8°F to + 750°F

Order Details - High-Temperature Packing

Ordering Size
 10 ounce Jar - approx/100 Sticks "B"
 Pail - approx/7.5 Pounds 1000 "B"

Part No.
 P-HTS-100J
 P-HTS-7.5

Order Details - Stem Packing

Ordering Size
 10 Ounce Jar - approx/100 Sticks
 Pail - approx/7.5 Pounds
 "J" Stick - 8 ounce

Part No.
 P-HTS-SP-100J
 P-HTS-SP-7.5
 P-HTS-SP-J

PACKING #301

Moldable plastic valve stem packing sticks. Similar to **SLICK STICKS** with a higher concentration of PTFE.

Description

Sealweld® **Pack King #301** is a putty-type PTFE packing compound made from a 100% synthetic base formulated as an injectable packing for valve stems, packing glands and stuffing boxes. Designed to mold around valve stems and pump rods to form a drip-tight seal where other sealing procedures prove ineffective. Sealweld® **Pack King #301** exhibits an extremely low coefficient of friction and is resistant to most chemicals and solvents. Resistant to today's most exotic products and ideal for condensate service. Sealweld® **Pack King #301** is also available in bulk containers for use as a **flange sealant**.



Product Specification

Temperature Range - 29°C to + 250°C
 - 20°F to + 500°F

Order Details - Stem Packing

Ordering Size
 'J' Stick - approx/8 ounce Stick
 'B' Sticks - approx/12 ounce Jar

Part No.
 P-301-J
 P-301-12J

PACK-IT PARTICLE PAK

A multi-purpose self-forming packing made with specifically processed granulated PTFE.

Description

Sealweld® **Pack-It** is a granular multi-purpose self-forming packing made with specially processed PTFE. Sealweld® **Pack-It** compacts to form a rigid but flexible self-sealing packing which will conform to any size or type of shaft, rod or stuffing box. Simple in application and durable in service, this product ends the need for expensive inventories of various sizes of packing rings. Sealweld® **Pack-It** will not decompose, oxidize, or deteriorate and compensates for wear simply by remolding itself when the packing gland is adjusted. May be used as a valve stem packing on all valves, including ball, gate, plug, check, globe, motor and control valves regardless of service. Also used in conjunction with conventional rope packings to extend packing life and eliminate leakage at start-up.

Product Specification

Temperature Range - 240°C to + 250°C
- 400°F to + 500°F

Order Details - Stem Packing

Ordering Size
Jar - approx/10 ounce
Pail - approx/6.25 Pounds

Part No.
P-PK-10J
P-PK-6.25

SEALANT INJECTION PUPS, TOOLS & EQUIPMENT



SEALWELD® HIGH-PRESSURE SEALANT/LUBRICANT INJECTION PUMPS

Sealweld® Sealant Injection Pumps are specifically designed to safely inject viscous sealants into valves operating under pressure. ALWAYS use a high-pressure gauge and learn how to 'read' it. Make sure the hose assembly and all of the components are; rated to the maximum working pressure (MWP) of the pump and are in good working order.

Our pumps have been designed for years of continuous service in demanding field conditions and are preferred by professionals around the world.

The Sealweld® SuperGun® Pump is the best manual sealant pump in the world and is designed for easy field repair, quick sealant delivery and extremely high injection pressure, if ever required.

The Sealweld® Uni-Seal™ and ACTIV-8® pumps use a unique air/ hydraulic motor and direct-push technology to safely inject even the most viscous and heavy sealants quickly and efficiently. We recommend each crew have 2 pumps, one for injecting cleaner and the other for sealant. This eliminates having to empty the pump when changing products and cuts overall maintenance time considerably.

Sealweld® can repair all makes of high-pressure sealant injection pumps. We carry a vast inventory of parts and provide instructions for doing your own repairs. Our pump technicians will do repairs and pump repair training at your field location.

SEALANT INJECTION PUMP COM PARISONS

<u>Pump Type</u>	<u>Maximum Discharge</u>	<u>Loaded Capacity</u>	<u>Discharge Volume</u>
SuperGun Pump Manual	15,000 PSI	16 Ounces	1 Ounce/ 25 Strokes
Hydraulic Hand-Held Manual	10,000 PSI	12 Ounces	1 Ounce/ 50 Strokes
ACTIV-8® Pneumatic/ Hydraulic	10,000 PSI	160 Ounces	16 Ounces/ < 2 Minutes
Uni-Seal™ Pneumatic/ Hydraulic	10,000 PSI	16 Ounces	16 Ounces/ < 2 Minutes
SuperSeal Series Pneumatic	6,500 - 10,000	40 pounds (5 Gallon)	variable

Sealweld® injection pumps are designed to pump all types of valve cleaners, lubricant/sealants and emergency valve sealants.

The use of a gauge will assist you in determining what is happening inside the valve during injection.

NEVER use an automotive type grease pump for injecting into a valve under pressure!



SUPERGUN SCREW-PRIMED PUMP G-SGUN-C

The patented Sealweld® **SuperGun® Pump** is designed for many years of rugged use.

Features include:

- Discharges 1 ounce of sealant easily with every 25 (approx.) strokes
- Generates up to 15,000 PSI when required
- Large capacity barrel holds 33% more than other similar hand-held injection pumps
- Field-replaceable piston head cartridge
- Reloads easily with a 12 ounce or 16 ounce cartridge from **EZ-Loader**
- Pumps 'K' sticks, Gun-Packs and all types of bulk lubricant/ sealants

Order Details

Description

SuperGun® Screw-Primed Pump - Complete
Includes: 18 inch high-pressure hose assembly with 15,000 PSI gauge.
Plastic Carrying Case - optional

Part No.

G-SGUN-C

B-PC-SG

The Sealweld® **SuperGun® Pump** has an extra long lever handle that makes high pressure injection easy. It is lightweight and very portable. The screw-primed design indicates how much product remains in the barrel and the high-pressure check valve system prevents dangerous "kicks".

The **SuperGun® Pump** has been designed to withstand the rigors of field use and every pump is tested prior to shipment. Durability, easy to carry and faster pumping make it the valve technician's favorite hand-held, high-pressure sealant injection pump for topping-up procedures when only small quantities of lubricant is required.



HYDRAULIC HAND-HELD PUMP

The Sealweld® **Hydraulic Hand-Held Pump** is lightweight and very portable.

Features include:

- Discharges 1 ounce of sealant easily with every 50 strokes
- Generates up to 10,000 PSI when required
- Self-priming hydraulic action makes manual injection simple
- Reloads easily with a 12 ounce cartridge from **EZ-Loader**
- Pumps liquids, flange sealants, stem packings, 'J' sticks, Gun-Packs and all types of sealants.

Order Details

Description

Hydraulic Hand-Held Pump - Complete
Includes: 18 inch high-pressure hose assembly with 15,000 PSI gauge

G-HGUN-C

The Sealweld® **Hydraulic Hand-Held Pump** has a locking handle to prevent piston damage. It is lightweight and very portable. The compact size makes it easy to keep one in your general toolbox or behind the seat of your pickup for quick top-ups and emergency sealing jobs between regular maintenance intervals.

Ships with an 18 inch long hose, buttonhead coupler and high-pressure gauge, it is ready for loading and field use right out of the box. Perfect for pumping small quantities of valve cleaner, lubricant or sealant. No toolbox is complete without one.

Part No.

G-HGUN-C



UNI-SEAL™

The **Uni-Seal™** is the fastest hand-held air/hydraulic injection pump on the market.

Product Specification

Maximum Inlet Air Pressure	120 PSI
Recommended Air Volume	20 CFM
Maximum Discharge Pressure	10,000 PSI
Delivery Rate	16 ounces /2 minutes
Re-load	EZ-LOADER
Sealant Capacity	10 or 15 ounce cartridges
Weight	25 pounds
100% Guarantee 1 Year - Repairable	Normal use In shop

Order Details

Description

Uni-Seal™ Pump - Complete
High Pressure Hose Assembly

Part No.

G-UGUN-C
H-U-HOSE

G-UGUN-C

The **Uni-Seal™** pump has an air/hydraulic motor that can be powered by compressed air, bottled air or natural gas. *

Up to 10,000 PSI is quickly generated by stepping on the foot pedal making this pump ideal for servicing large diameter valves.

The high speed action of the **Uni-Seal™** pump makes it ideal for "popping" the plug out of it's seat in tapered plug valves that become hard-to-turn.

* Consult your company's safety policy
BEFORE operating with natural gas.

* May void warranty.

ACTIV-8®

Sealweld® **ACTIV-8®** is the favorite pump of professional valve technicians. The **ACTI V-8®** is capable of drawing product directly from a 10 pound can and is capable of running on compressed air, bottled air or natural gas in an emergency.*

- Generates up to 10,000 PSI injection pressure when required
 - Controls the quantity of lubricant/ sealant being injected; prevents over-lubrication
 - Rugged steel frame and pneumatic tires make this pump ideal for field and plant work
 - Air/ hydraulic motor is powered by compressed air, bottled air or natural gas *
 - Simple design makes field repairs quick and easy
 - Delivers lubricant/ sealant at up to 1 pound every 70 seconds
 - High speed action cuts valve maintenance time by up to 75% on large diameter valves and at facilities with many valves
 - Patented **ACTI V-8®** delivers valve cleaners, lubricants and sealants faster than any other pump on two wheels
 - High-speed action and 10 pound (5 quart) capacity makes this pump ideal for pipelines and large plants
 - Complete with 10 foot sealant hose, swivels and coupler. 15,000 PSI gauge and guard is also standard equipment. Longer hoses are available on request
 - Built-in air filter/ lubricator system
 - Each pump comes complete with an owner's manual and an 8 minute DVD describing safe operating procedures
- * Consult your company's safety policy BEFORE operating with natural gas G-A8GUN-C



Order Details

Description

Sealweld® ACTIV-8® Pump - Complete

Includes:

10 foot/ 120 inch High-Pressure Hose
 15,000 PSI High-Pressure Gauge /w Guard
 Swivels
 Coupler

Owner's Manual
 8-Minute Operating Instructions on DVD
 Release Valve

Part No.

G-A8GUN-C

H-HS-120HP

H-GD-01C

H-SV-ST1
 H-SV-L1
 H-CPSG-2

A-M-A8
 D-VD-A8

H-RVAB

Product Specification

Maximum Inlet Air Pressure	120 PSI
Recommended Air Volume	20 CFM
Max. Discharge Pressure	10,000 PSI
Delivery Rate	16 ounces/ +/- 70 seconds
77% Fewer Moving Parts	Less wear
Re-load Time	< 30 seconds
Sealant Capacity	10 pounds/ 5 quarts
Air/ Hydraulic Motor	Serviceable world-wide
100% Guarantee	1 Year - Normal use
Repairable	In the field or shop

SEALWELD SUPERSEAL II PUMP

Complete with heavy duty tube steel frame & solid wheels, pneumatic lift ram, air filter lubricator assembly, designed for rugged field work on pipelines, platforms and wellheads. Includes standard 6 meter high pressure hose assembly with 1/2" whip hose assembly, check valve, 10,000 psi pressure gauge.

Ideal for injecting Heavy sealants into valve body cavity and seat.

- Pumps from a standard 40 lb. open top metal pail (5 gallon pail size)
- Pump outlet: 1/2-14" FNPT
- Air inlet: 1/2-14" FNPT
- Maximum Discharge Volume: 2.1 lbs./min (.95 kg.)
- Required Air Volume: Approximately 40 cfm
- 100:1 ratio pump – 10,000 psi maximum Discharge

Order Details

Description	Part No.
Grease Pump Single Skid-Complete	MAH-129-APSSU



PORTABLE GREASE PUMP UNIT

Easy to handle pump unit, ideal for injecting lubricant and cleaners into the valve. Can attain a maximum pressure of 8000PSI Complete with heavy duty tube steel frame & solid wheels, pneumatic lift ram, air filter lubricator assembly, designed for rugged field work on pipelines, platforms and wellheads. Includes standard 6 meter high pressure hose assembly with 1/2" whip hose assembly, check valve, 10,000 psi pressure gauge.

Order Details

Description	Part No.
Portable Grease Pump	MAH-129-PGPU



SEALWELD CUSTOM DESIGNED PROFESSIONAL HIGH PRESSURE PUMP PACKAGES



Sealweld can design and manufacture customized large volume and multiple unit pumps and air compressor packages for service trucks, valve service skids and offshore containers.

Every package is custom designed to each customer's specific requirements depending on the type and size of valves, maintenance frequency, valve capacities, available manpower (crew size) and mobility issues as it relates to valve proximity.

Climactic considerations are critical to designing the optimum packages. These are only a few of the many packages currently being produced.

New combinations of technologies are being bundled as the needs arise.

We have the ability to design packages specifically for:

- Sub Sea Applications
- Hele-Portable Applications
- Rugged Pipeline Right-of-Way Applications
- Long Distance Pipeline Specific Packages
- Wellhead Service Units for both on-shore and off-shore
- Plant and Platform specific applications for unique situations
- Others – by request



Order Details

Description
Grease Pump Skid Unit

Part No.
MAH-129-GPSU

PORTABLE FLUSHING BUCKET PUMP

Easy to use and light weight Pneumatic pump unit designed for injecting liquid lubricant & flushing fluids.

Product Specification

Max Pressure : 8400 PSI
Storage Capacity : 5 Gallon
Pressure Ratio : 50:1
Gauge Pressure : 10,000PSI

Order Details

Description	Part No.
Portable Flushing Bucket Pump	MAH-129-PFBPU



PORTABLE GREASING BUCKET PUMP

Easy to use and light weight Pneumatic pump unit designed for injecting grease/lubricants.

Product Specification

Max Pressure : 8400 PSI
Storage Capacity : 5 Gallon
Pressure Ratio : 50:1
Gauge Pressure : 10,000PSI

Order Details

Description	Part No.
Portable Greasing Bucket Pump	MAH-129-PGBPU



PORTABLE HIGH PRESSURE HYDRAULIC GUN

Description

Handheld high pressure hydraulic injection gun designed to inject high pressure viscosity sealants.

Order Details

Description	Part No.
Portable High Pressure Hydraulic Gun	AHS-4329-C-GNHP



DIESEL ENGINE AIR COMPRESSOR SKID



Description :

AIR COMPRESSOR (CHAMPION, USA), driven by a compression ignition diesel engine rated to supply the required 160 psig for all pumps. Diesel engine is rated to operate the compressor including all losses at ambient temperature from 0C-50C. Includes spark arrestor, Emergency shutdown switch, Self start, Relief valve, Spark arrestor, Grounding Unit.

Built-in Control panel consisting of Starter Switch, Drain Valve, Shutdown Switch & Tank Pressure Indicator set @ 200 psi.

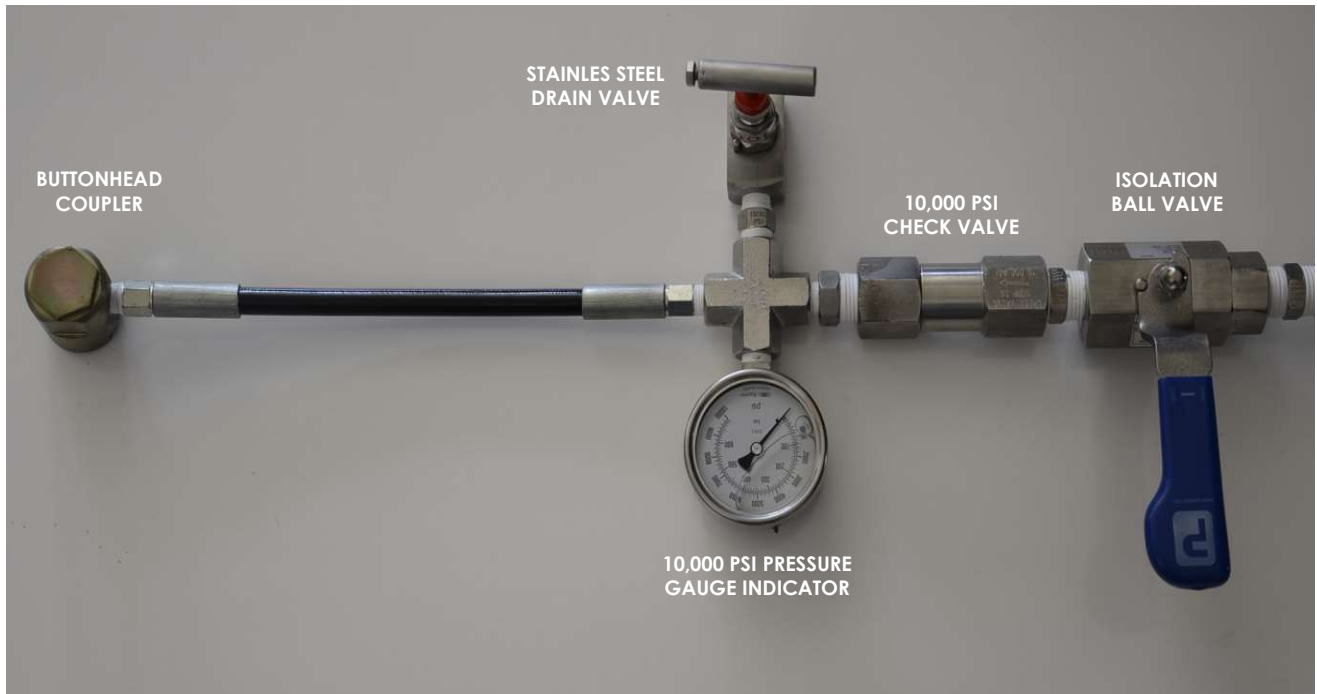
The Air Compressor with engine is mounted on Steel Skid Frame 1500 mm x 500 mm with shock absorber

Order Details

Description
Air Compressor Skid Unit

Part No.
MAH-129-ACU-1

SAFETY WHIP HOSE MANIFOLD



Description :

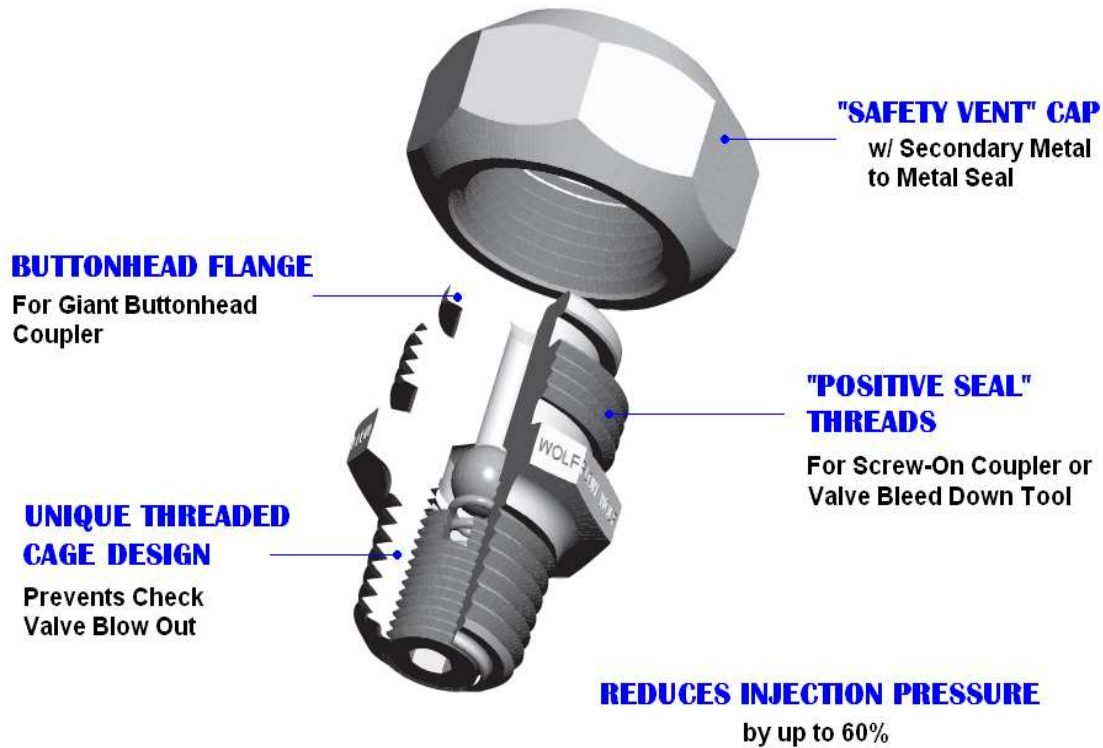
Heavy Duty Whip Hose Manifold consisting of High-Pressure Easy Connect ,10 ,000 PSI Stainless Steel Check Valve, 10,000 PSI Pressure Gauge Indicator , High Pressure Release Valve, High Pressure Cross Joint and High Pressure 10" X 1/4" Whip Hose.

Order Details

Description	Part No.
Safety Whip Hose Manifold	MAH-129-SWH-01

SEALANT INJECTION FITTINGS





SEALANT INJECTION FITTINGS

Description

The patented **Flow Wolf®** design was originally invented in the field by our founder, W.J. "Bill" Chisholm, on a job where we needed to inject a super heavy sealant compound into severely leaking valves.

The valve manufacturer's sealant fittings plugged off immediately and subsequent high-pressure resulted in the "blow-out" of the check valve mechanism. This situation leads to the development of the **Flow Wolf®** design with the assistance of Russian field engineers and the assistance Sealweld®'s own engineers in Canada.

The **Flow Wolf®** design is now in use in pipeline valves around the globe and preferred by many of the world's largest pipeline operators. Also available by special request when you order new valves from all the world's leading valve manufacturers be sure to specify:

"Sealant fittings to be the Sealweld® **Flow Wolf®** design - no substitutes!"

All Sealweld® **Flow Wolf®** are designed to extend the in-service life of every type and make of valve through the safe in-line and under pressure injection of valve cleaner, synthetic valve lubricants and

SETTING NEW VALVE FITTING STANDARDS

Many of the world's oldest and largest oil & gas fields have exceeded their original planned life expectancy and are seeing new expansions as new technologies are applied to increase production. This is in direct response to increased energy prices; fields that were once considered marginal are now being revitalized.

Sealweld Corporation has been focused for over 40 years on developing products, technologies and procedures to extend the in-service life of large diameter valves in high-pressure pipeline applications. Now these technologies are being applied to valves on wellheads, gathering systems, processing facilities and gas distribution systems with equal success.

Sealweld® valve sealants are designed with the ability to achieve a reliable temporary seal in older worn valves. A valve Technician's ability to inject an emergency sealant compound is determined by the quality and capability of the fittings installed on the valve. In an effort to manufacture a cheaper, less expensive valve, many valve manufacturers installed cheap and in some cases, dangerous fitting designs. Now operators are discovering that their ability to avoid a million dollar emergency shut-down is being determined by a \$5 valve fitting.

For decades, Sealweld Corporation has been investing in research dedicated to understanding fitting failures. In collaboration with oil & gas producers and pipeline operators and through extensive cooperation with local and international regulatory and administrative bodies, we have designed new valve fittings capable of meeting or exceeding the demands of our rapidly expanding energy industry.

In direct response to increased industry demand for a solution to the problems with dangerous valve fitting designs, Sealweld® Corporation has formed a strategic alliance with Techne® S.R.L. to design and patent the solution; the new Flow Wolf® –Techne® fittings for valves.

Pressure Vessel Markings

ABSA Alberta Boilers Safety Association
 CRN 0C07140.2
 PED 97/23/EC CE0035
 Nr. 01 202 I / U " -06 2320
 ATEX 94/9/EC
 Nr. 968/Ex-Ab 871/06

Quality System

ISO 9001:2008 Nr. APIQR-0502
 ISO TS 29001 Nr. TS-0012
 API Q1 ED.8 Nr. Q1-0221

Design in Accordance with

API 6D – 23rd ED.
 API 6D SS I ED.
 API 6A 19th ED.
 ASME VIII
 ASTM B16.34
 ARAMCO STD. 04/SAMSS-01 P35

* According to available latest edition Standard.

Fugitive Emission (Upon Request)

ISO 15848
 Shell SPE 77/312
 * Additional qualifications available on request.

Pressure Test

- In accordance with internal procedures or upon request in accordance with API 598 or other stds.
- Canadian, U.S. and Italian patent approved
- ASME III for nuclear service

Dangerous and sub-standard valve fitting designs are the #1 cause of valve technician injury and even death.

PATENTED 'ORIGINAL' FLOW WOLF® FITTINGS

The patented 'Original' Flow Wolf® threaded-cage design has been incorporated into all of our most popular fitting and adapter designs including:

- Sealant injection fittings
- Internal check valves
- Cameron®, WKM®, Daniel® and other specialty adapters
- Quad-Seal fittings and more!!
- Body grease fittings
- Leak-Lock adapters

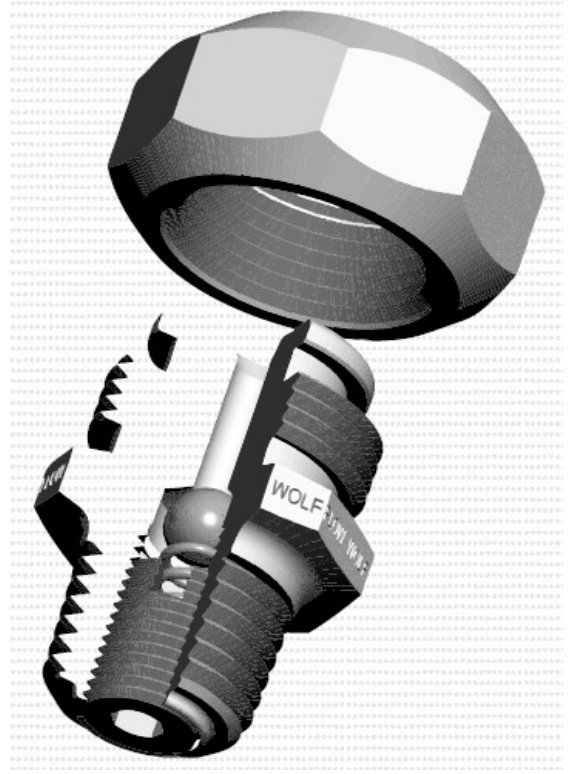
Description

The patented **Flow Wolf®** design was originally invented in the field by our founder, W.J. "Bill" Chisholm, on a job where we needed to inject a super heavy sealant compound into severely leaking valves.

The valve manufacturer's sealant fittings plugged off immediately and subsequent high-pressure resulted in the "blow-out" of the check valve mechanism.

This situation lead to the development of the **Flow Wolf®** design with the assistance of Russian field engineers and the assistance Sealweld®'s own engineers in Canada. The **Flow Wolf®** design is now in use in pipeline valves around the globe and preferred by many of the world's largest pipeline operators. Also available by special request when you order new valves from all the world's leading valve manufacturers be sure to specify:

"Sealant fittings to be the Sealweld®Flow Wolf® design - no substitutes!"



Flow Wolf® Patented Designs

Description	Part Number
Capped Buttonhead Fittings	F-FW # -BH
Capped Techne® Buttonhead	Fitting F-FWT
Quad-Seal Fitting Series	F-FWQS #

Specialty Adapters for Cameron, WKM and Daniel Fittings

Cameron® Screw-On Adapters	D-FW-CAM-SO-CS
Inner Check Design Series	D-FW-IC #
Leak-Lock Adapter Series	D-FW-LL #
Screw-On Buttonhead Adapter/Coupler	D-FW-SO-BH-CS

Product Specifications

BUTTONHEAD FLANGE	REDUCES PRESSURE
- For Giant Buttonhead Coupler	Up to 60%
UNIQUE THREADED-CAGE DESIGN	ONE-PIECE BODY
- Prevents check valve blow-out	- Withstands more pressure than two-piece
"SAFETY VENT" CAP	THREADED CAGE
- With secondary metal-to-metal seal	- Reduces the risk of fatigue by distributing the force across many threads
"POSITIVE SEAL" THREADS	
- For screw-on coupler or valve bleed-down tool	

FLOW WOLF® 1/2" BUTTONHEAD FITTING

The 1/2 inch **Flow Wolf**® vented cap, single check, sealant injection fitting with giant buttonhead, comes in stainless steel and carbon steel

This fitting is the industry standard for ball valve fittings and is suitable for high-pressure service. The tapered thread ensures a tight fit. Perfect for ball and gate valves.

Sealweld Flow Wolf Button Head Fitting 1/2" SS with Cap

P/N: F-FW-1/2-BH-SS-CRN



Sealweld Flow Wolf 1/2" 65MM L with Cap

P/N: F-FW-RN1/2-SS-65MM



Sealweld Flow Wolf 1/2" M20 L with Cap

P/N: F-FW-M20-SS-65MM



Sealweld Flow Wolf 1/2" BH-SS-95 L with Cap

P/N: F-FW-1/2-BH-SS-95MM



**Sealweld Flow Wolf 1/2" 95MM L
with Cap**

P/N: F-FW-RN1/2-SS-95MM



**Sealweld Flow Wolf 1/2" 110MM L
with Cap**

P/N: F-FW-1/2-BH-SS-110



**Sealweld Flow Wolf 7/8" 65MM L
with Cap**

P/N: F-FW-NH7/8-SS-65MM



**Sealweld Flow Wolf 7/8" 95MM L
with Cap**

P/N: F-FW-NH7/8-SS-95MM



FLOW WOLF® 1/4" BUTTONHEAD FITTING

The 1/4 inch **Flow Wolf**® vented cap, single check, sealant injection fitting with giant buttonhead, comes in stainless steel only. The tapered thread ensures a tight fit.

Perfect for small ball and gate valves and is suitable for high-pressure service.

Sealweld Flow Wolf Button Head Fitting 1/4" SS

P/N: F-FW-1/4-BH-SS-CRN



Sealweld Flow Wolf 1/4" 65MM with Cap

P/N: F-FW-RN1/4-SS-65MM



Sealweld Flow Wolf 1/4" 65MM with Cap

P/N: F-FW-RN1/4-SS-95MM



FLOW WOLF® 3/8" BUTTONHEAD FITTING

The 3/8 inch **Flow Wolf®** vented cap, single check, sealant injection fitting with giant buttonhead, comes in stainless steel only.

It is suitable for high-pressure service.

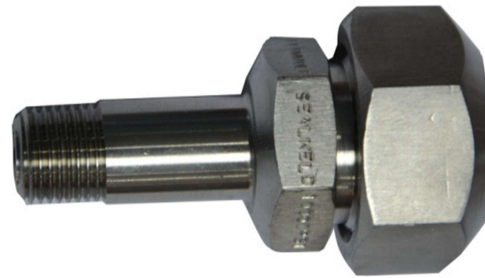
Sealweld Flow Wolf Button Head Fitting 3/8" SS

P/N: F-FW-3/8-BH-SS-
CRN



Sealweld Flow Wolf 3/8" 65MM with Cap

P/N: F-FW-RN3/8-SS-
65MM



Sealweld Flow Wolf 3/8" 65MM with Cap

P/N: F-FW-RN3/8-SS-
95MM



FLOW WOLF® 3/4" BUTTONHEAD FITTING

The 3/4 inch **Flow Wolf®** vented cap, single check, sealant injection fitting with giant buttonhead, comes in stainless steel only.

It is suitable for high-pressure service.

Sealweld Flow Wolf Button Head Fitting 3/4" SS

P/N: F-FW-3/4-BH-SS-CRN



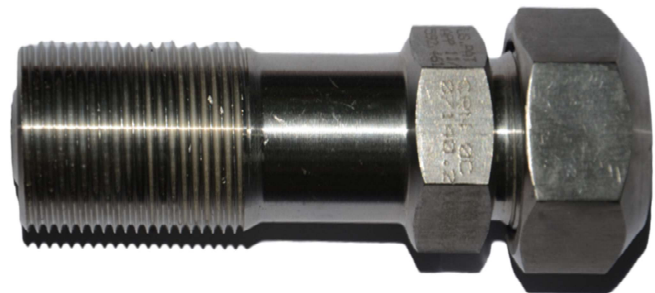
Sealweld Flow Wolf 3/4" 65MM with Cap

P/N: F-FW-RN3/4-SS-65MM



Sealweld Flow Wolf 3/4" 65MM with Cap

P/N: F-FW-RN3/4-SS-95MM



FLOW WOLF® 1" BUTTONHEAD FITTING

The 1 inch **Flow Wolf®** vented cap, single check, sealant injection fitting with giant buttonhead, comes in stainless steel only.

It is suitable for high-pressure service.

Sealweld Flow Wolf Button Head Fitting 1" SS

P/N: F-FW-1-BH-SS



Sealweld Flow Wolf 1" 65MM with Cap

P/N: F-FW-RN1-SS-65MM



PATENTED FLOW WOLF® QUAD SEAL FITTINGS

Sealweld® is proud to introduce the latest advancement in sealant injection fitting design technology; the Flow Wolf® - QUAD-SEAL Injection Fitting.

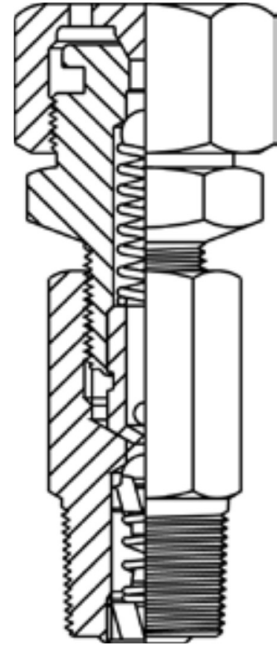
DESCRIPTION

Eliminates all leakage to atmosphere and harmful fugitive emissions, during the maintenance routine and when the valve is unattended.

Ideal for use on offshore platforms, inside buildings, compressor buildings and meter stations, or when handling hazardous or toxic gases and/ or liquids.

All stainless steel construction eliminates the risk of plating failure, which can occur on all types of standard carbon steel. The thin plating is often worn off through use. The bare steel then begins to rust and corrode, rendering the fitting unusable and potentially dangerous.

Extend the effective service life of the fitting many times over. Reduce fitting replacement costs in all types of valves and wellhead equipment.



Flow Wolf® QUAD SEAL Fitting

Designed to be LEAK-FREE.

Allows the technician to safely remove the cap and attach the pump with ZERO RISK of product leakage to atmosphere. Open the upper section one full turn to open the metal-to-metal seal between the upper and lower sections. Then begin pumping. Close the metal-to-metal seal (one full turn) before detaching the pump.

Replace steel cap to provide reliable double-isolation.

Recommended for:

SEVERE service, including (but not limited to): H₂S, CO₂, NGL/ LPG, SAGD, steam, enclosed spaces, sub-sea applications...

* Seal material specification is determined by intended service. Custom orders accepted.

Thread	Material	Part Number
1/4" - 18 NPT	.316 Stainless Steel	F-FWQS1/4-SS-CRN
3/8" - 18 NPT	.316 Stainless Steel	F-FWQS3/8-SS-CRN
1/2" - 14 NPT	.316 Stainless Steel	F-FWQS1/2-SS-CRN

Product Specifications

.316 Stainless Steel Construction	- For long life and superior corrosion resistance
4 Independent Metal -to -Metal Seals	- For maximum seal reliability
2 Double-Isolation Check Valves	- With verification capability
Patented FLOW WOLF® Threaded Cage	- Allows heavy sealants to be injected in an emergency
2 Collapse-Proof Springs	- Reduce injection pressures

INTERNAL CHECK VALVES

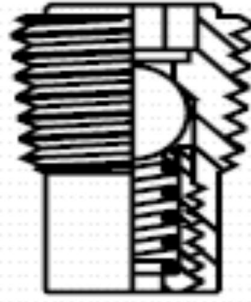
BEFORE commissioning a new valve it is important to make sure it contains a top quality internal check valve. When ordering a new valve, specify to the manufacturer that you want Sealweld® **Flow Wolf® Internal Check Valves**.

Sealweld® **Flow Wolf® Internal Check Valves** are ONLY manufactured from stainless steel and all include the patented **Flow Wolf®** threaded-cage to ensure that the ball check is NOT accidentally injected into the valve when pumping heavy valve sealant.

A working check valve is CRITICAL to ensuring valves can be serviced under pressure safely. Internal check valves will remain in place for years and must stand up to direct contact with corrosive environments. In addition, it is much more difficult to remove an internal check valve than a standard fitting; this is especially true when the internal check valve is corroded.

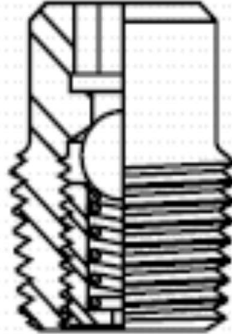
Ensure years of safe service by insisting on Sealweld® patented **Flow Wolf® Internal Check Valves**.

FLOW WOLF 1/4" INTERNAL CHECK VALVE



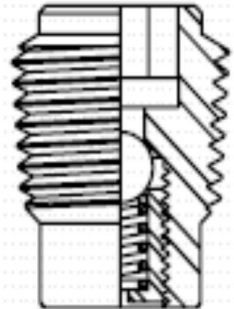
Thread	Material	Part Number
1/4" - 18 NPT	Stainless Steel	D-FW-IC1/4-SS-CRN

FLOW WOLF 3/8" INTERNAL CHECK VALVE



Thread	Material	Part Number
3/8" - 18 NPT	Stainless Steel	D-FW-IC3/8-SS-CRN

FLOW WOLF 3/8" INTERNAL CHECK VALVE



Thread	Material	Part Number
1/2" - 14 NPT	Stainless Steel	D-FW-IC1/2-SS-CRN

SEALWELD® FLOW WOLF® INTERNAL CHECK VALVES HAVE BEEN GRANTED A CERTIFICATE OF AUTHORIZATION ISSUED BY ABSA (ALBERTA BOILERS SAFETY ASSOCIATION) AND ASSIGNED THE FOLLOWING CANADIAN REGISTRATION NUMBER: CRN 0C07140.2

BODY VENT/DRAIN FITTINGS

TC3 STYLE



The standard body vent / drain fitting does not allow for the removal of the stinger which is held in place with pins. Ideal for blowing-down ball valves or releasing pressure from the body of a gate valve during normal service.

This fitting has a large opening to prevent freeze-up during depressurization.

Available from stock in stainless steel ONLY. Other materials available by special request.

Thread	Material	Part Number
1/2" NPT	SS	F-BV1/2-TC3-SS-CRN
3/4" NPT	SS	F-BV3/4-TC3-SS-CRN
1" NPT	SS	F-BV1-TC3-SS-CRN
1-1/2" NPT	SS	F-BV1 1/2-TC3-SS

Product Specifications

- Weather Seal O-Ring : Prevents water from entering fitting.
- Spring Pins : Prevent removal of bolt.
- Thread Seal O-Ring : Prevents leakage through threads
- Coarse Thread : Prohibits thread damage
- Threaded Vent Hole : Pipe leakage away from work site
- Reduced Bore Hole : Prevents jamming of ball
- .316 Stainless Steel Body
- .316 Stainless Steel Bolt : Prevents corrosion, extend service life



TC 4 Style

Similar to the TC3 in all respects with added stainless steel ring and cable. Designed to replace the existing carbon steel bleeder on hinged closures, where plating failure has rendered the existing fitting inoperable.

Available from stock in stainless steel ONLY.

Other materials available by special request.

Thread	Material	Part Number
1/2" NPT	SS	F-BV1/2-TC4-SS-CRN
3/4" NPT	SS	F-BV3/4-TC4-SS-CRN
1" NPT	SS	F-BV1-TC4-SS-CRN
1-1/2" NPT	SS	F-BV1 1/2-TC4-SS

Disclaimer: Material selections suggested in this catalog are based on historical sales information ONLY.

It is the responsibility of your engineering manager to make the final decision on the suitability of materials used for fittings on valves in your system. We have the capability to manufacture fittings out of various materials and grades. The carbon steel and stainless steel fittings referenced in this catalogue should work in most field conditions.

SPECIAL ADAPTERS & COUPLERS





SEALWELD® FLOW WOLF® VALVE FITTING ADAPTER KIT

A MUST for every valve technician. An assortment of our most popular adapters for attaching the hose assembly to the different styles of valve fittings.

D-FW-KIT-06 – Flow Wolf® Adapter Kit Includes

Description	Part No.
Flow Wolf® Leak-Lock Adapter #1	D-FW-LL1-SS
Flow Wolf® Leak-Lock Adapter #2	D-FW-LL2-SS
Flow Wolf® Leak-Lock Adapter #1 Metal-Seated	D-FW-LL1-MS-SS
Screw-On Body Vent Tool	D-SO-BV-CS
Flow Wolf® Screw-On Adapter	D-FW-SO-BH
Daniel Orifice Adapter	D-FW-OA1/4-CS
Cameron Screw-On Adapter	D-FW-CAM-SO-CS
Small Buttonhead Coupler	H-CPAS
Sealweld® Screw-On Coupler	H-CPSO
Small Screw-On Adapter	D-SSO-SO-CS
McEvoy-Style Screw-On Adapter	D-M1-SO-CS
Screw-On Relief Valve Coupler	D-SO-RV
High-Pressure Straight Swivel	H-SV-ST1
Release Valve	H-RVAB
Giant Buttonhead Coupler	H-CPSG-2
Locking Plastic Case	B-CS-ADPKIT

NEW FLOW WOLF MEGA-LOCK

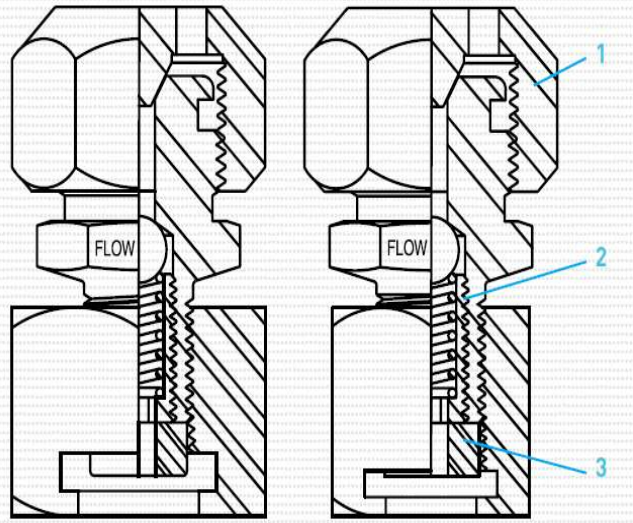
Sealweld designs and manufactures a broad range of different and specialized valve fitting adapters, our most popular styles are illustrated on the following pages. We have many more different styles and combinations available too numerous to include in this current publication.

To obtain a quotation just call Sealweld, send us an email, or better yet send us a sample fitting if you're unsure of what you need.

- Never remove a valve fitting from a valve under pressure.
- Some valve fittings, such as combination fittings found in plug valves have additional independent check valves, always request permission, obtain additional training, and consult the original valve manufacturer.
- Never stand in front of the valve fitting
- Always use a second backup wrench when removing steel caps and when installing adapters
- Never take chances with safety. When in doubt - ask.

The fittings and adapters illustrated on the following pages are only a few of the many hundreds of different designs, styles and materials grades we are capable of manufacturing. If you don't see what you need, just call, fax or email Sealweld.

NEW FLOW WOLF MEGA-LOCK



- 1 Steel Cap - Prevents leakage when unattended.
- 2 Patented Flow Wolf threaded cage for safety injecting emergency sealants.
- 3 NEW: PTFE Gasket – ideal for severely damaged buttonheads and hard to hold liquids and cleaners.

Material

Stainless Steel
 Stainless Steel
 PTFE MEGA-LOCK GASKET
 Giant button head style
 PTFE MEGA-LOCK GASKET
 Small button head style

Part Number

D-FWLL-SS-ML
 D-FWLL2-SS-ML
 D-LL-GSK-ML1
 D-LL-GSK-ML2

FLOW WOLF® LEAK LOCK METAL SEAT



LEAK-LOCK ADAPTERS

The **Flow Wolf® Leak-Lock #1** Metal-Seated Adapter is designed for use on capped fittings ONLY. It provides an additional check valve so you can continue to service the valve in-line, under pressure.

Seal type: Metal-to-Metal

The new **Flow Wolf® style Leak-Lock Adapter** has all the features of a regular Leak-Lock plus an additional metal to-metal seal (with cap). Will accept liquids and pass the heaviest sealants without plugging off.

Material

Stainless Steel
Stainless Steel

Part Number

D-FW-LL1-MS-SS
D-FW-LL2-MS-SS



FLOW WOLF® LEAK-LOCK ADAPTER#1

Emergency Sealing Device for Buttonhead Fittings

Convert leaking or damaged fittings into safe fittings without shut-down or loss of production. Leak-Lock is not a permanent repair device but should be used until a scheduled turn-around or when the pipeline is depressurized and the leaking fitting can be replaced safely. Also for use on damaged buttonhead fittings.

Can be used in applications where a second independent check valve is required to comply with safety codes or company policy. Can be left on permanently or until the pipeline is depressurized and the existing fitting can be replaced safely.

Material

Stainless Steel
Leak-Lock Gasket

Part Number

D-FW-LL1-SS
D-LL-GSK-ASB

This emergency sealing device fits on a leaking or damaged giant buttonhead fitting. Uses a replaceable gasket seal. Ideal for old or leaking fittings or when you need to go from giant buttonhead to threaded coupler.

Seal type: Gasket



FLOW WOLF® LEAK-LOCK ADAPTER #2

This emergency sealing device converts a small buttonhead fitting to a giant buttonhead fitting. Uses a replaceable gasket seal.
Seal type: Gasket

Material	Part Number
Stainless Steel	D-FW-LL2-SS
Leak-Lock Gasket	D-LL-GSK-ASB



DANIEL ORIFICE FITTING ADAPTER

This adapter allows you to service a Daniel Senior Orifice fitting as well as allowing you to inject sealant into a standard gate valve stem just like a packing injector. This adapter is designed for Daniel Senior orifice fittings and allows the technician to inject **Valve Cleaner Plus** to clean the internal valve sealing surfaces. Can also be used to inject **Total-Lube #911** or **#5050** sealant in an emergency. Also fits into packing injectors for **Valve Cleaner Plus** or sealant injection.
Available from stock in carbon steel and stainless steel.
Other materials and grades available by special request.

Description	Material	Part Number
Top Only	Stainless Steel	F-FW-OA1/4-T-SS
With Bottom	Carbon Steel	F-FW-OA1/4-SS
Top Only	Stainless Steel	F-FW-OA1/4-T-CS
With Bottom	Carbon Steel	F-FW-OA1/4-CS

Top section illustrated. Also available with bottom section (packing injector bottom)



CAMERON SCREW-ON ADAPTER

This adapter allows you to go from a small Cameron capped fitting thread connection to a standard giant buttonhead fitting or screw-on style. This adapter can be left on permanently to simplify servicing of Cameron valves.

Available from stock in carbon steel ONLY. Stainless steel or other materials available by special request.

Material Part	Number
Carbon Steel	D-FW-CAM-SO-CS



FLOW WOLF® SCREW-ON ADAPTER

This adapter goes from a standard screw-on fitting (body grease fitting) typically found on wellhead gate valves to a standard large buttonhead fitting. Allows you to quickly service a valve without changing the adapter on your injection equipment. Also extends the fitting length allowing you to get at those hard to reach fittings.

Available from stock in carbon steel ONLY. Stainless steel or other materials available by special request

Material
Carbon Steel

Part Number
D-FW-SO-BH



SEALWELD® SCREW-ON COUPLER

This screw-on coupler provides a tight metal-to-metal seal. Ideal for injecting heavy sealant or when working in high pressure or sour service.

Available in carbon steel ONLY.

Material
Carbon Steel

Part Number
H-CPSO



TOP-ENTRY BUTTONHEAD COUPLER

The top-entry buttonhead coupler allows you to easily gain entry to buried or confined valves. Features - metal button with spring. Available in carbon steel ONLY.

Material
Carbon Steel

Part Number
H-CPSG-3



GIANT BUTTONHEAD COUPLER

The Sealweld® giant buttonhead side-entry coupler allows you to quickly attach on to standard giant buttonhead fittings for fast service.

Features - metal button with spring.

Available in carbon steel ONLY

Material
Carbon Steel

Part Number
H-CPSG-2

STAINLESS STEEL OR OTHER MATERIALS AVAILABLE BY SPECIAL REQUEST



SCREW-ON RELIEF VALVE COUPLER

This handy screw-on style coupler includes a built-in needle valve for isolating the hose assembly from a leaking check valve in the body grease fitting. Commonly used for wellhead valve maintenance.

This screw-on coupler combines a one-way check valve and a release tool.

Ideal for servicing wellhead gate valves, quickly and easily.

In the event that an old or inferior fitting fails during service the coupler can safely be left on until the next scheduled shut-down. Keep a few extra couplers in your kit for this reason.

Available in carbon steel ONLY. Stainless steel or other materials available by special request

Material
Carbon Steel

Part Number
D-SO-RV



PRESSURE RELIEF TOOL

Used to un-seat the ball check in packing injectors to relieve excess gland pressure.

Available from stock in carbon steel ONLY. Stainless steel or other materials available by special request.

Material
Carbon Steel

Part Number
D-PI-RLF



3/8" PACKING INJECTOR

Available from stock in carbon steel and stainless steel.
Other materials and grades available by special request.

Material	Part Number
Stainless Steel	F-PI3/8-SS
Carbon Steel	F-PI3/8-CS

1/4" PACKING INJECTOR

Available from stock in carbon steel and stainless steel.
Other materials and grades available by special request.

Material	Part Number
Stainless Steel	F-PI1/4-SS
Carbon Steel	F-PI1/4-CS

1/2" PACKING INJECTOR

Available from stock in carbon steel and stainless steel.
Other materials and grades available by special request.

Material	Part Number
Stainless Steel	F-PI1/2-SS
Carbon Steel	F-PI1/2-CS



SEALWELD® SCREW-ON BODY VENT TOOL

This tool is specifically designed to allow you allow you to un-seat the ball check in body grease fittings and sealant injection fittings.

A MUST when servicing many types of wellhead gate valves.
Also ideal for equalizing pressure when servicing wellhead gate valves.

Available in carbon steel ONLY.

Material	Part Number
Carbon Steel	D-SO-BV-CS



MCEVOY-STYLE SCREW-ON ADAPTER

This screw-on adapter converts from a McEvoy 7/8" screw-on coupler thread to a standard 1" – 14 UNS coupler thread.

Available from stock in carbon steel ONLY. Stainless steel or other materials available by special request.

Thread	Material	Part Number
7/8" – 14 UNS	Carbon Steel	D-M1-SO-CS



Small Screw-On Adapter

Screw-on adapter for small W-K-M/ IKS-type capped fittings. Available in carbon steel ONLY. Stainless steel or other materials available by special request.

Material	Part Number
Carbon Steel	D-SSO-SO-CS

HIGH-PRESSURE GAUGE ASSEMBLY

ALWAYS use a high-pressure sealant injection pump with a high-pressure gauge attached. Keep ALL equipment in good working order and ready in case of an emergency. Complete with rubber guard to extend gauge life.



Order Details

Description	Part No.
High-Pressure Gauge - 15,000 PSI	H-GD-01
High-Pressure Gauge /w Guard - 15,000	H-GD-01C
High-Pressure Gauge - 2.5" - Guard ONLY	H-GD-2.5

HIGH-PRESSURE HOSE ASSEMBLIES

ALWAYS use a high-pressure hose and high-pressure threaded connections. Contact us for special order items.

Optional: High-Pressure Hoses

Hose Length	Part No.
2.3 foot/ 28 inches	H-HS-28HP
2.3 foot/ 28 inches	H-HS-28HYD
3.5 foot/ 42 inches	H-HS-42HYD
10 foot/ 120 inches	H-HS-120HP
12 foot/ 144 inches	H-HS-144HP
20 foot/ 240 inches	H-HS-240HP
25 foot/ 300 inches	H-HS-300HP
35 foot/ 420 inches	H-HS-420HP
50 foot/ 600 inches	H-HS-600HP
75 foot/ 900 inches	H-HS-900HP

Optional: Extra High-Pressure Hoses

Hose Length	Part No.
1.5 foot/ 18 inches	H-HS-18XHP
2.3 foot/ 28 inches	H-HS-28XHP
3 foot/ 36 inches	H-HS-36XHP
4 foot/ 48 inches	H-HS-48XHP
5 foot/ 60 inches	H-HS-60XHP
6 foot/ 72 inches	H-HS-72XHP
10 foot/ 120 inches	H-HS-120XHP
15 foot/ 180 inches	H-HS-180XHP
20 foot/ 240 inches	H-HS-240XHP
30 foot/ 360 inches	H-HS-360XHP

SPARE PARTS & ACCESSORIES



HIGH-PRESSURE HYDRAULIC PUMP SPARE PARTS

Order Details

Description
HYDRAULIC PUMP

Part No.
AHS-4341-HPCS



Order Details

Description
SEALANT GUN

Part No.
AHS-4340-HIGCS



Order Details

Description
ADAPTOR FOR 4340

Part No.
AHS-4342-HIGCS



HIGH PRESSURE INJECTION PUMP SPARE PARTS

Order Details

Description
PORTABLE DIESEL
ENGINE

Part No.



Order Details

Description

Part No.



Order Details

Description
GREASE PRESSURE
INDICATOR

Part No.
MAH-GPI-001



Order Details

Description
AIR INPUT SUPPLY
PRESSURE INDICATOR

Part No.
MAH-AISPI-002



Order Details

Description
FOLLOWER PLATE
DIAGPRAHM

Part No.
MAH-FPD-11



Order Details

Description
1/2" HIGH PRESSURE
EASY CONNECTOR

Part No.
AHS-SWH-HPEC



Order Details

Description
HIGH PRESSURE
RELEASE VALVE

Part No.
MAH-SWH-HPRV



Order Details

Description
HIGH PRESSURE CHECK
VALVE (10,000 PSI)

Part No.
MAH-SWH-HPCV-10000



Order Details

Description
HIGH PRESSURE T-12TEE
CONNECTION

Part No.
MAH-SWH-HPTC



Order Details

Description
HIGH PRESSURE 1/2"
NIPPLE

Part No.
MAH-SWH-HPN



Order Details

Description
LOW PRESSURE EASY-
CONNECTOR

Part No.
MAH-SWH-LPEC



Order Details

Description
HIGH PRESSURE 1/2"
REDUCER

Part No.
MAH-SWH-HP1/2R



Order Details

Description

LOW PRESSURE 1/4"
REDUCER

Part No.

MAH-SWH-HP1/4R



Order Details

Description

LOW PRESSURE 1/2"
CROSS CONNECTION

Part No.

MAH-SWH-HP1/2CC



ISO CERTIFICATES



Certificate of Registration

This is to certify that the Environmental Management System of

AHSTCO – Abdullah Hammad Al-Shammary Trading and Contracting

PO Box 560
Abqaiq 31992
KSA

Has been independently assessed and is compliant with the requirement of the Environmental Management System detailed below

ISO 14001:2004

Scope of certification:

Emergency Valve Sealing, In-Line Under Pressure Valve Maintenance And Services, Valve Technician Training, Metering Solutions, Tank Automation, Nitrogen Services, Hydro Testing, Calibration, Supply High Pressure Pumps, Guns, Special Tolls And Adaptors, High Pressure Grease Fittings and Valve Care Products.

Certification cycle start date: 29 September 2016
Date of original certification: 29 September 2016
Certificate expiry: 29 September 2019
Subject to the organisation maintaining its system to the required standard
Certificate number KSA-Q032 Issue number 01

Issued by: AA Certification

Organisations are subject to annual surveillance and are re-assessed every three years.
To confirm the validity of this certificate, please contact AA Certification.

AA CERTIFICATION
Montpellier House, Montpellier Drive, Cheltenham, Gloucestershire, GL50 1TY.
Company number: 8526878.



Certificate of Registration

This is to certify that the Quality Management System of

AHSTCO – Abdullah Hammad Al-Shammary Trading and Contracting

PO Box 560
Abqaiq 31992
KSA

Has been independently assessed and is compliant with the requirement of the Quality Management System detailed below

ISO 9001:2008

Scope of certification:

Emergency Valve Sealing, In-Line Under Pressure Valve Maintenance And Services, Valve Technician Training, Metering Solutions, Tank Automation, Nitrogen Services, Hydro Testing, Calibration, Supply High Pressure Pumps, Guns, Special Tolls And Adaptors, High Pressure Grease Fittings and Valve Care Products.

Certification cycle start date: 23 September 2016
Date of original certification: 23 September 2016
Certificate expiry: 23 September 2019
Subject to the organisation maintaining its system to the required standard
Certificate number KSA-Q031 Issue number 01

Issued by: AA Certification

Organisations are subject to annual surveillance and are re-assessed every three years.
To confirm the validity of this certificate, please contact AA Certification.

AA CERTIFICATION
Montpellier House, Montpellier Drive, Cheltenham, Gloucestershire, GL50 1TY.
Company number: 8526878.



Certificate of Registration

This is to certify that the Occupational Health & Safety Management System of

AHSTCO – Abdullah Hammad Al-Shammary Trading and Contracting

PO Box 560
Abqaiq 31992
KSA

Has been independently assessed and is compliant with the requirement of the Occupational Health & Safety Management System detailed below

OHSAS 18001:2008

Scope of certification:

Emergency Valve Sealing, In-Line Under Pressure Valve Maintenance And Services, Valve Technician Training, Metering Solutions, Tank Automation, Nitrogen Services, Hydro Testing, Calibration, Supply High Pressure Pumps, Guns, Special Tolls And Adaptors, High Pressure Grease Fittings and Valve Care Products.

Certification cycle start date: 4 October 2016
Date of original certification: 4 October 2016
Certificate expiry: 4 October 2019
Subject to the organisation maintaining its system to the required standard
Certificate number KSA-Q033 Issue number 01

Issued by: AA Certification

Organisations are subject to annual surveillance and are re-assessed every three years.
To confirm the validity of this certificate, please contact AA Certification.

AA CERTIFICATION
Montpellier House, Montpellier Drive, Cheltenham, Gloucestershire, GL50 1TY.
Company number: 8526878.



Valve Care Made It Easy



AHSTCO GENERAL CONTRACTING & TRADING EST

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