

PLIDCO® SPLIT+SLEEVE

PLIDCO® Split+Sleeves are repair fittings that can be used to permanently seal leaks caused by corrosion or third party damage on-shore and off-shore. These fittings are easy and safe to install and can be welded while the line is in service.

Standard working pressure is 1,000 psig with higher working pressures available. The PLIDCO® Split+Sleeve is hydrotested to 1.5 times its working pressure is designed using ASME Section VIII and API 6H. All sizes, lengths and pressures are manufactured. Our stock includes API pipe sizes 1½" to 48". Higher working pressure, longer lengths and other sizes are available upon request.

Benefits:

- *Can be used for temporary or permanent repair.*
- *Full penetration shell to side bar welds are 100% radiographed.*
- *The PLIDCO® Split+Sleeve can be seal welded for a permanent repair while the line is in service.*
- *Patented steel GirderRings hold seals in place and protect them from displacement and damage during installation.*
- *Design includes bolt induced bending stresses.*
- *Body and seal gland design has over 60 years of proven success.*
- *Widest range of seal materials in stock.*
- *PLIDCO® Split+Sleeves used for temporary repair can be reconditioned and used again.*
- *D.O.T. Training is available.*



PLIDCO® SPLIT+REPAIR-ELL

PLIDCO® Split+Repair Ells function the same way as the PLIDCO® Split+Sleeve. These fittings are available for long radius, short radius, screwed and socket welded applications. PLIDCO® Split+Repair Ells can be manufactured for any angle, pipe size, and working pressure upon request.

Benefits:

- *Fast and Easy to install.*
- *Patented steel GirderRings hold seals in place and protect them from displacement and damage during installation.*
- *Appropriate seal material will be recommended based upon line product information.*
- *PLIDCO® Split+Repair Ells are available in pressures of 1,000 psig and higher.*
- *Clamp Ends are available to counteract hydrostatic forces.*
- *PLIDCO® Split+Repair Ells can be seal welded for a permanent repair while the line is in service.*
- *PLIDCO® Split+Repair Ells used for temporary repairs can be reconditioned and used again.*
- *Proven track record of over 60 years.*



PLIDCO® SMITH+CLAMP™

The PLIDCO® Smith+Clamp™ is used to locate and seal pit-hole leaks in high pressure pipelines. Simply place the Smith+Clamp™ on the pipe, insert the draw-bolt at the bottom of the clamp to hold it in place and use the pilot pin to find and guide the sealing cone into the pit-hole. Tighten the draw bolt and the force screw to complete the seal. Can be designed for larger holes upon request.

Benefits:

- *Light weight and cost effective.*
- *Can find leaks in pipelines that may not be visible.*
- *Force screw requires minimum force to seal leak.*
- *The cones' direct pressure on leak reduces the danger of caving in badly corroded pipe.*
- *Safe and easy installation.*



PLIDCO® WELD+CAP

PLIDCO® Weld+Caps used with PLIDCO® Smith+Clamps™ makes possible a fast, safe and permanent welded pipe repair while the pipeline is in operation. PLIDCO® Weld+Caps meet D.O.T. requirements and the latest ASME Section VIII specifications.

Benefits:

- *Safe, easy and fast permanent repair.*
- *Can be welded while pipeline is in flow.*
- *Meets D.O.T. requirements for permanent repair.*



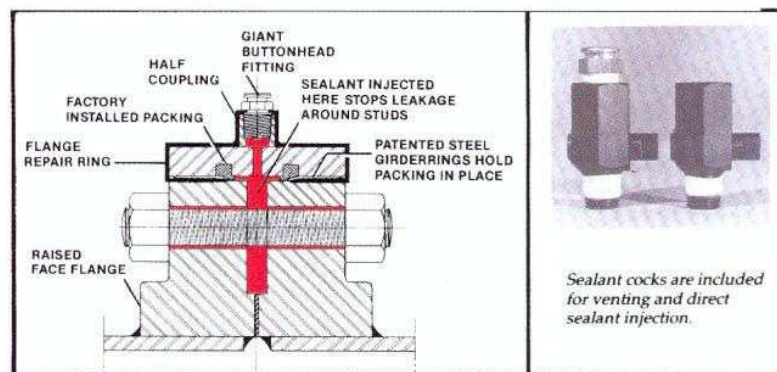
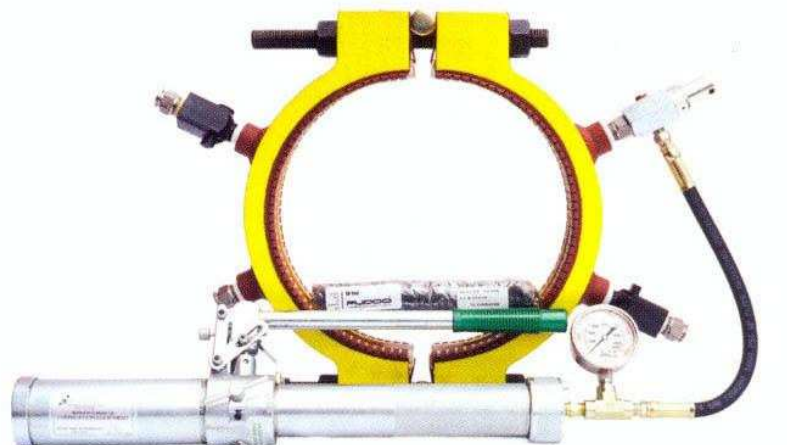
PLIDCO® FLANGE+REPAIR RING

The PLIDCO® Flange+Repair Ring fits over the leaking flange to create a seal around the circumference. The ring comes with button-head fittings, which allows you to pump sealant to seal flange studs/nuts for a complete seal.

Flange+Repair rings are available from stock in standard Flange sizes 1½" to 12" 150 lb ASME through 600 lb ASME. Larger, special sizes and higher pressures available upon request.

Benefits:

- Patented steel GirderRings hold seals in place and protect them from displacement and damage during installation.
- No drilling required.
- Injected sealant seals leaking flange studs/nuts.
- Installation can be done when line is operational.
- Safe and easy installation.
- Proven track record of over 60 years.
- Complete repair kits are available that include sealant gun and sealant.
- Can easily be installed by your own maintenance personnel.
- Can be reconditioned and used again.
- D.O.T. Training is available.

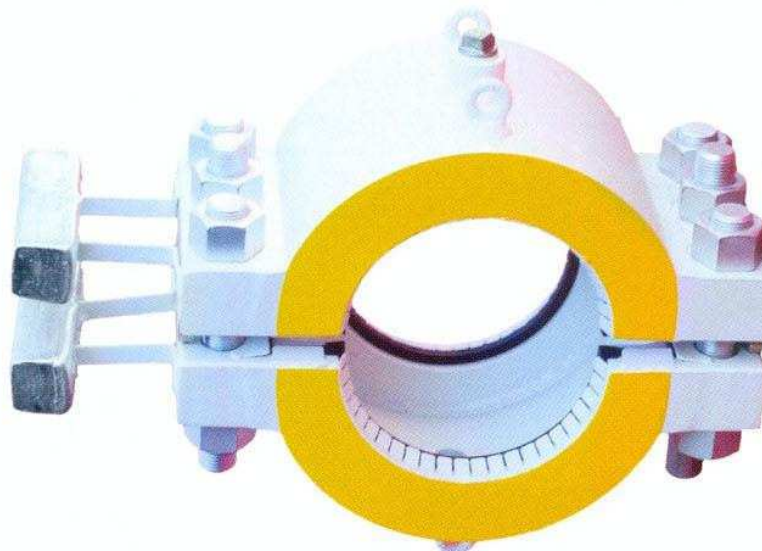


PLIDCO® FLANGE REPAIR+SPLIT+SLEEVE

Used to seal and fully encompass flanges for on-shore and off-shore applications. This sleeve stops the leaking flanges by sealing on the pipe beyond the flange welds with the ability to cover a wide variety of flange types and classes.

Benefits:

- Patented steel GirderRings hold seals in place and protect them from displacement and damage during installation.
- Covers a wide range of flange types and classes.
- Wide range of seal material in stock.
- Used for on-shore and off-shore applications.
- Safe and easy installation.



PLIDCO® WELD+ENDS® COUPLINGS

PLIDCO® Weld+Ends® are safety welding couplings used to quickly join pipe so that flow can be resumed immediately keeping down-time to a minimum. These couplings are used for both on-shore and off-shore applications. No special preparation of pipe ends is needed to install PLIDCO® Weld+Ends®.

Available from stock in API pipe sizes 1½" to 48" and special lengths and working pressures available upon request.

Benefits:

- *Welding is optional.*
- *Join pipe with no need to purge.*
- *No special preparation of pipe ends required.*
- *Can be welded onto pipe safely while line is in flow.*
- *Double row of clamping screws are available upon request for excessive end pull loads.*
- *Various types of seal materials available.*
- *Safe and easy installation.*
- *D.O.T. Training available.*



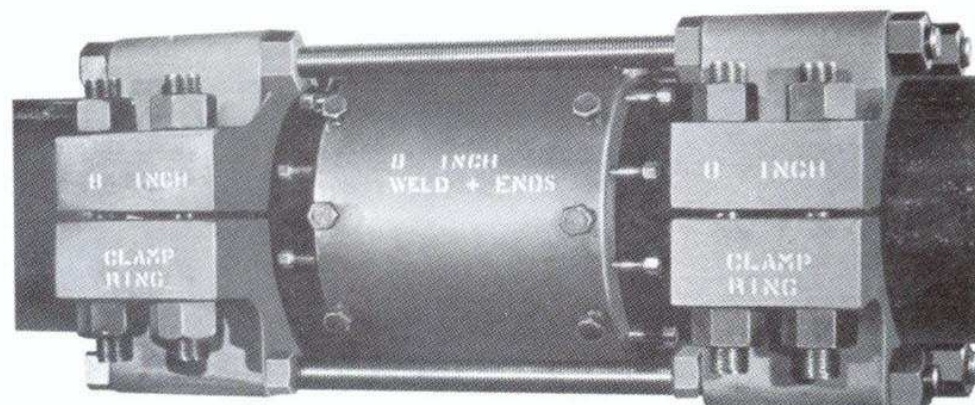
PLIDCO® CLAMP+RINGS

PLIDCO® Clamp+Rings are used with PLIDCO® Weld+Ends®, Split+Sleeves, or other fittings where excessive end-pull or compression loadings are encountered. They may be used permanently, or temporarily, and are reusable.

The PLIDCO® Clamp+Rings are constructed to achieve tremendous gripping power. Carefully designed the PLIDCO® Clamp+Rings eliminate the danger of caving in or distorting pipelines.

Benefits:

- *Extreme gripping power.*
- *Especially useful with high-tensile, thin wall-pipe.*
- *Precision-bored inside diameter of the ring eliminates danger of caving in or distorting pipe.*
- *Reusable.*



Patented

PLIDCO® FLANGE

Useful for hundreds of applications particularly for making tie-in connections for prefabricated expansion and rework projects. PLIDCO® Flanges are easy and safe to install even in hard to reach places such as high overhead piping, conduits and tunnels, tight manifolds or in hazardous locations.

PLIDCO® Flanges are available in all pipe sizes and pressure ratings. No special pipe preparation is needed, just simply cut pipe, slide the PLIDCO® Flange on and tighten the bolts down to the specified torque for a complete installation.

Benefits:

- *No special pipe preparation to install.*
- *Mechanical fitting, useful in non-weld areas.*
- *Easy flange bolt alignment.*
- *Can be used with a blind flange for capping pipe ends.*
- *Welding is optional.*
- *Large variety of seal materials available.*
- *Safe and easy.*
- *PLIDCO® Flanges can be reconditioned and used again.*



PLIDCO® RISER-TYPE WELD+ENDS®

The PLIDCO® Riser-Type Weld+Ends® are an easy way to replace underwater risers on off-shore gas and oil lines without the need to weld. This fitting consists of additional clamp and thrust screws to provide a secure seal for high pressure and to resist extreme end-pull.

The PLIDCO® Riser-Type Weld+Ends® are socket welded at the surface to the new replacement riser then lowered into the water. The diver then cuts the old riser, and places the new fitting over the cut pipe and tightens screws to complete the installation creating a leak proof seal.

Benefits:

- *Safe and easy to install.*
- *No underwater welding needed.*
- *Competitively priced compared to other fittings in the market.*
- *Quick and easy way to replace a section of pipe.*
- *Keeps down time to a minimum.*

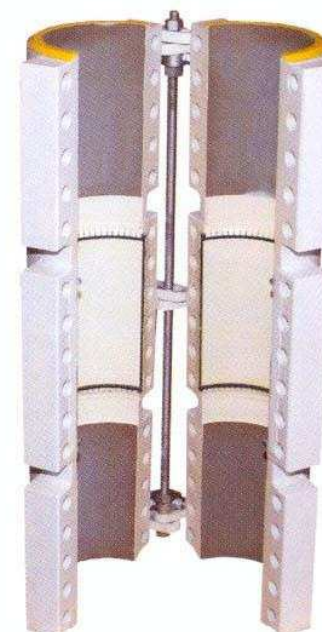


PLIDCO® CLAMP+SLEEVE

PLIDCO® Clamp+Sleeves can be used to couple pipe, seal pipe leaks and reinforce badly damaged pipe. PLIDCO® Clamp+Sleeves are designed to grip the outside wall of a pipe to counteract extraordinary end-pull and unusual axial stresses, often encountered in off-shore installations. PLIDCO® Clamp+Sleeves are available in any size, length and working pressure upon request.

Benefits

- *Patented steel GirderRings hold seals in place and protect them from displacement and damage during installation.*
- *Can be designed for welding or non-welding applications.*
- *Metal spray to increase gripping power without gouging O.D. of pipe.*
- *Safe and easy installation under pressure.*
- *Proven track record for over 60 years.*
- *Sleeve can be reconditioned and used again.*



PLIDCO® HOT TAPPING+SADDLE

PLIDCO® Hot Tapping+Saddle allows you to tap into a pressurized line without welding, to make branch connections or for plugging operations. Special designs are available and can be custom built for your specific needs and specifications.

Available with full size branches, in any range of sizes and pressures with threaded, welded or flanged outlets.

Benefits:

- *Patented steel GirderRings hold seals in place and protect them from displacement and damage during installation.*
- *Available in all sizes and pressures with full size branches.*
- *Available in threaded, welded, or flanged outlets.*
- *Can be used in hazardous areas where welding is not permitted.*
- *Custom designed for your specified needs and specifications.*
- *Large inventory of seals are available to accommodate a wide variety of pipeline products and temperatures.*
- *Clamp ends are available to eliminate movement or rotation during plugging operations.*
- *Safe and easy installation.*



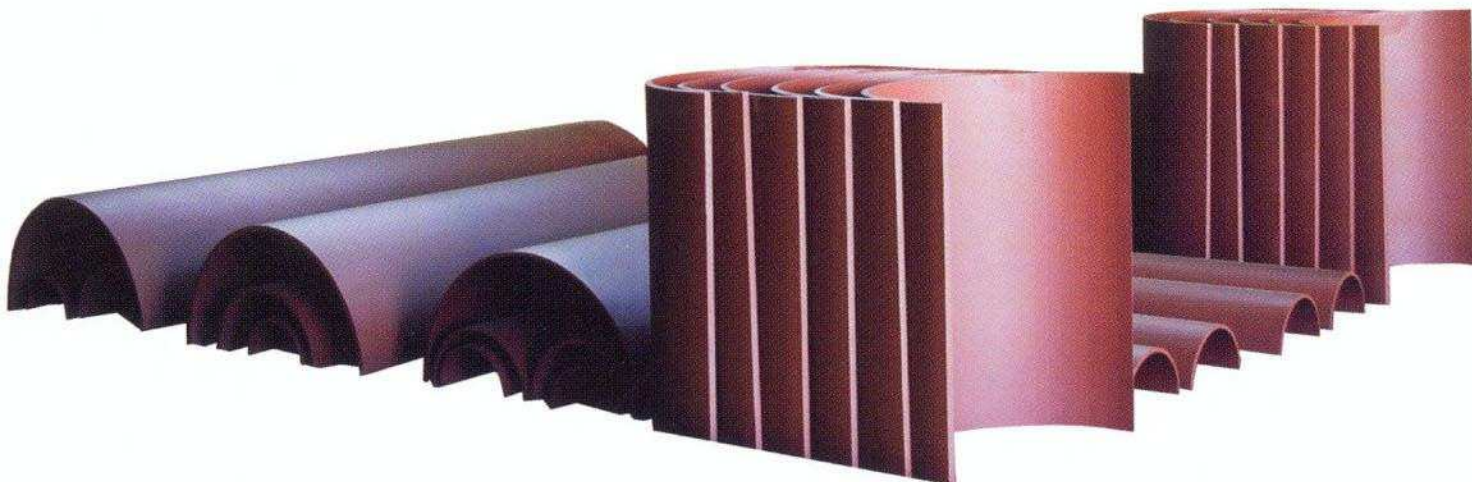
PLIDCO® SOLE+MATES™

PLIDCO® Sole+Mates™ are designed to reinforce non-leaking, weakened, dented or damaged pipelines. Sole+Mates™ conform to ASME B31.4 and B31.8 and the U.S. Department of Transportation requirements.

Longitudinal butt-welding is required for all applications and back-up strips are furnished. For pressure containing applications, the sleeve must be fully seal-welded to the pipeline.

Benefits:

- *Safe repair method.*
- *Supplied for any specified pressure wall thickness and class location.*
- *Supplied in various lengths and materials as specified.*



PLIDCO® SHEAR+PLUG™

The PLIDCO® Shear+Plug™ offers customers a safe and reliable method to temporarily (either for the short or the long term); isolate sections of their high pressure, high temperature or otherwise hazardous piping at an excellent value (when compared to a shut-down), when and where they need it done.

The PLIDCO® Shear+Plug™ solves high pressure/high temperature line plugging problems by providing a positive metal to metal seal, complete with sealant backup.

The PLIDCO® Shear+Plug™ is offered in sizes up to 8 inches and standard units are available for ASME B.16.5 pressure rating.

A double action hydraulic cylinder accomplishes the shear through, positions the sealing blind plate and also retracts it. No shell cutter is used to enter the pipe. The complete one piece coupon is pushed into the receptacle housing for easy, complete retrieval.

Benefits:

- *One of a kind PLIDCO® innovation to isolate high pressure pipelines.*
- *Metal-to-metal seal.*
- *Resists high temperature and pressure.*
- *No shell cutter is used to enter pipe.*
- *Cuts one piece retrievable coupon.*
- *The PLIDCO® Shear+Plug™ is impervious to flow rate, making it ideal for boiler feed applications.*



PLIDCO® SERVICE

Let a PLIDCO® certified technician do your next installation. We recognize the need for highly skilled and trained technicians has grown and look forward to sending in our team to complete the installation of any of our products.

At PLIDCO® we are committed to working together to make hazardous piping safer.