WEKO-SEAL Internal Joint Sealing

internal pipe-joint sealing
WEKO-SEAL® is the leading trenchless system for internally and economically renewing leaking joints in water, wastewater, natural gas and industrial piping 18 inches up through 216 inches and larger.

The WEKO-SEAL® is a flexible rubber leak clamp that ensures a non-corrodible, bottle-tight seal around the full inside circumference of the pipe-joint area. Their unique design incorporates a series of proprietary lip seals that create a leakproof fit on either side of the joint.
WEKO-SEAL® advantages over conventional pipe-joint repair methods...

**Permanent**
- Non-corrodible, bottle-tight seal with minimal reduction of the pipeline’s interior diameter
- Handles operating pressures in excess of 300 psi and 100 feet of external head pressure, with proper design

**Flexible**
- Accommodates normal pipe movement from ground shifting, thermal expansion or contraction, and vibration
- Proven patented technology with a positive mechanical locking wedge design
- Test valves standard in all seals
- Durable cross-sectional seal thickness
- Design and installation options for standard round pipes as well as lines with unusual shapes including oval, square or those having compound angles

**Trenchless Installation**
- Minimum surface disturbance
- Access openings can be in excess of 2,000 feet apart
- Entrance through manholes, vaults, fittings or cut-outs
- Fast installation lends itself to immediate or emergency situations

**Cost-Effective**
- Savings of up to 60 percent over conventional repair methods
- Maintenance free

**Wide Range Of Application**
- Water, wastewater, natural gas pipelines and more
- Steel, cast iron, ductile iron, reinforced concrete and more
- 18 inches to 216 inches in diameter and larger

**Why choose Miller Pipeline**

**Experience**
- Over 40 years of turnkey installation experience
- With 240,000 seals installed, we are the most experienced contractor in the industry
- Skilled confined space installation technicians

**Guaranteed Standards**
- The highest standards of material integrity and workmanship are continually monitored and maintained
- All installations are warranted

**Trained Personnel**
- Trained, experienced personnel handle the seal installation process in full compliance with OSHA’s 29 CFR 1910.146 Permit-Required Confined-Space regulations with rescue and retrieval equipment on the job site at all times
- Miller crews are trained and certified in first aid, CPR, SCBA and emergency rescue procedures

With Miller Pipeline, the leak stops here.
Installed internally with up to 2,000 feet between access points, WEKO-SEAL® technology can be utilized in square, rectangular, round and elliptical pipe, including transitions, fittings, and even vertical offsets or specialty configurations. WEKO-SEAL® is appropriate for installation in natural gas and industrial piping, potable water distribution lines, sanitary sewers, and storm sewers. In nuclear and fossil fuel power plant applications, the WEKO-SEAL® is routinely used for sealing leaks in both fresh and seawater cooling and circulation lines. In all cases our customers are left with bottle-tight joints that will provide years of worry-free maintenance.

Miller Pipeline’s trained, experienced personnel handle the seal installation process in full compliance with OSHA’s 29 CFR 1910.146 Permit-Required Confined-Space regulations with full rescue and retrieval equipment on-site at all times. Miller’s crews are also trained in CPR, SCBA, First Aid and emergency rescue procedures.

The material specifications for the WEKO-SEAL® fall into four main application categories: water, wastewater, natural gas and seawater/brackish water. Almost all installations can be categorized into one of the four identified application categories. Each application has materials specifically engineered to provide years of worry-free maintenance through the proper rubber seal and stainless steel retaining band selections.

**Specifications Summary**

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<th>Pipeline Material</th>
<th>Pipeline Applications</th>
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**Water**
Seals designed for use in potable water applications are made from EPDM (Ethylene Propylene Diene Monomer) rubber seal and type 304 stainless steel retaining bands. All components used for potable water applications are NSF 61 drinking water approved classified by Underwriters Laboratories. Storm water installations use the exact material components as identified for potable applications.

**Wastewater**
Wastewater applications use the EPDM (Ethylene Propylene Diene Monomer) rubber seal and type 316/316L stainless steel retaining bands.

**Seawater/Brackish Water**
Installations in salt water environments consist of an EPDM (Ethylene Propylene Diene Monomer) rubber seal and AL6XN retaining bands. Made from this exotic super stainless steel, they exhibit superior long-term resistance.

Miller Pipeline’s staff can quickly aid in specifying the proper materials for your applications, and even provide custom designs for those one-of-a-kind situations.

**Natural Gas**
Seals designed for natural gas applications are constructed of Nitrile (butadiene acrylonitrile) rubber. This material provides superior resistance to gas, oil, petroleum, alcohol, impact and electricity. The seal retaining bands are constructed from 1018 carbon steel.

**Available Widths**

- **Standard WEKO-SEAL®**
  - 10.89 [276.60 MM]
  - 5.74 [145.8 MM] REF

- **Extra-wide WEKO-SEAL®**
  - 14.59 [370.58 MM]
  - 9.44 [239.80 MM] REF

- **Regular WEKO-SEAL®**
  - 8.64 [219.46 MM]
  - 3.50 [89.90 MM] REF

- **Double-wide WEKO-SEAL®**
  - 18.00 [457.20 MM]
  - 13.25 [336.55 MM] REF

* NSF 61 approval valid for pipe sizes 14-210 inches in diameter

Our rugged EPDM rubber seal and AL6XN super stainless steel retaining bands meet or exceed requirements for the nuclear power industry.
Miller Pipeline is one of the nation’s premier natural gas distribution, transmission pipeline and utility contractors. We provide a comprehensive range of pipeline contracting and rehabilitation services for natural gas, liquids, water and wastewater pipelines. Specialty products and services for the industrial and telecommunication industries are also offered. With our corporate headquarters in Indianapolis, Indiana, and area facilities throughout the country, our steadily expanding geographic footprint enables us to ensure the availability of local resources and expertise to support your project.

**Our representatives will be glad to discuss your pipeline needs. For further information, or to arrange an on-site inspection, please contact us.**

**Corporate Headquarters**

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