



**Innovative Maintenance Products**

# Elbow Shield 45/90/180 Repair System™

Immediate Leak Stop and Emergency Fluid Spill Containment  
for 45° & 90° Elbows and 180° Returns, Inner and Outer Radius

**Industries: Oil & Gas, Chemical, Pulp & Paper, Mining, Power Generation, Water and Wastewater, Manufacturing, Marine**

**True or False?** » Standard pipe repair clamps will not fit the compound curvatures of an elbow fitting?  
» Less unplanned shutdowns and repair expenses lead to increased company profits?

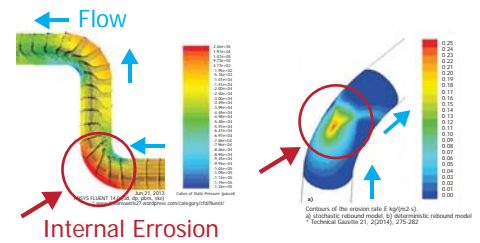


\* Patents Pending



Elbow Shield in 2", 3", 4", 6" and 8"  
Now Available in 1/2" up to 24"

Simulation of Particle Erosion within Elbows



Innovative Maintenance Products has developed a new pipeline maintenance and emergency response tool, the Elbow Shield Repair System, to stop leaks in 45° & 90° elbows and 180° return fittings. Being prepared to immediately stop elbow leaks can save thousands of dollars in lost production from unplanned shutdowns and reduce the clean up costs of fluid spills. Now O&G producers, midstream transporters, refineries and industrial companies can temporarily stop elbow leaks within minutes of a leak detection at a substantially lower cost per leak incident.

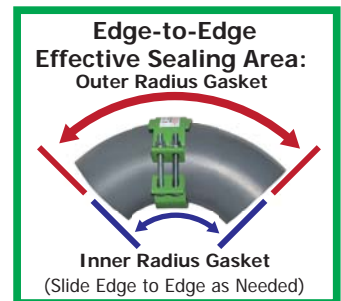
The Elbow Shield Repair System uses a unique two gasket design, with an inner and outer gasket, to offer the flexibility of stopping leaks anywhere along the elbow fitting surface, even near a weld edge. A single user can immediately contain an elbow leak while the pipeline is still in production, without any modification to the existing elbow fitting or pipeline. The HNBR gaskets have a specially designed grid pattern with fluid chambers for a tighter seal and allows for slight variances in pipe diameter due to manufacture of origin. The brackets are engineered with a bolt locking mechanism that allows for rapid application and are built with heavy gauge metal and hardware to ensure strong sealing force in order to stop leaks completely.

## Key Benefits:

- ▶ Within 2 minutes a single person can immediately stop and contain elbow leaks
- ▶ Reduce environmental contamination by stopping leaks as soon as they are detected
- ▶ Maintain production up-time until you are able to schedule the necessary repairs
- ▶ Control repair expenses by continuing to utilize the existing pipeline and elbow fitting
- ▶ **Precautionary Measure;** Ensure spill prevention by installing once an elbow fitting is determined to be at risk from a thin wall reading

## Key Tool Features:

- ▶ Available in 1/2" though 24" NPS for full pipeline leak preparedness
- ▶ Unique double-gasket design provides edge to edge sealing effectiveness along the outer and inner radius of flange and butt-weld elbows fittings
- ▶ Engineered for 360° circular wrap-around sealing effectiveness for complete protection anywhere on the elbow surface (180° Outer Gasket and 180° Inner Gasket)
- ▶ Gaskets have a special grid pattern with fluid chambers to ensure a tight seal
- ▶ Fits Long Radius 45° & 90° elbows, 180° returns most commonly used in O&G industry



Also available: Pipe Shields - straight/ high-pressure, sizes 1/2" to 24"

LDP Shields - straight pipes, bent and 45/90/180, sizes 26" to 48"



AN AMERICAN COMPANY  
Product Designed and Assembled  
in California, U.S.A.



**Innovative Maintenance Products**

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# Nut & Pipe Adapter™

Use a Hammer to Install and Breakdown Nut Unions  
Instead of a 36" or 48" Pipe Wrench



\* Patents Issued and Patents Pending



Use a Hammer on Nut Unions



Pipe Attachment to Grip Round Fittings

Energy producers that operate legacy oil fields often decide not to spend the money to go back and replace the nut unions in their pipelines with hammer unions as the costs can reach upwards of \$1000's in parts and labor for each union. We partnered with a large global oil producer, which operates dozens of legacy oil fields dating back to the 1900's, to develop a solution which provides workers an easier way to make up and break down the existing nut unions using the impact force of a hammer.

The major challenge was that union nuts come in many different sizes and shapes depending on the nominal pipe size and manufacturing company's design. The Nut Adapter is engineered to be universal to fit 6 and 8-sided nuts in all sizes found in the oil field today. In addition, we developed an attachment with gripper teeth to fit on union male and female subs/ends, pipe nipples, pipe couplings and other round threaded fittings which may also be required to be removed as part of the union maintenance services process.

To use the Nut Adapter, a person simply spreads the Nut Adapter brackets apart, swing the brackets over the nut and closes into place. It can be easily mounted on horizontal and vertical position union nuts and fittings. Once the Nut adapter is in position, swing the locking bolt into place and tighten down both nuts evenly until it is securely fastened. The worker can now use a hammer to impact any of the six (6) impact zones to rotate the union nut.

## Key Benefits:

- ▶ Gain the benefits of using hammer force without having to replace your currently installed nut unions
- ▶ Make up and break down nut unions and other fittings quicker, easier, and safer than using pipe wrenches
- ▶ Use in tight spaces where a 36" and 48" pipe wrench might not fit or be easy to use
- ▶ Reduce the risk of worker injury from yanking and tugging on the end of a pipe wrench
- ▶ Get a stronger, leak-free seal in nut unions even when the pipes are not aligned perfectly

## Key Tool Features:

- ▶ Universal design can fit 6 and 8-sided nuts, 4" to 5.25" point to point measurement (3.75" to 5" side to side)
- ▶ Six (6) impact zones around the tool for continuous rotation during use
- ▶ Compact design allows for use where space is limited, where 36" and 48" pipe wrenches cannot fit
- ▶ Retainer clips help hold tool in place while using on vertical installations
- ▶ 1/2" and 3/4" drive receivers allow workers to use a breaker bar for light to medium turning force
- ▶ Available Pipe Attachment installs to fit 2"OD to 3-1/2"OD union male/female ends, nipples and couplings
- ▶ Light weight at 14.4 lbs (6.5kg)

For Purchasing Information, Contact Us Or Ask Your Local Distributor Today!



**Innovative**  
Maintenance  
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# Valve Speed Handle™

Safety Tool for Valve Operations

**True or False?** » Less worker injury related expenses lead to increased company profits?  
» To keep production levels up with a reduced workforce, individual productivity needs to increase?

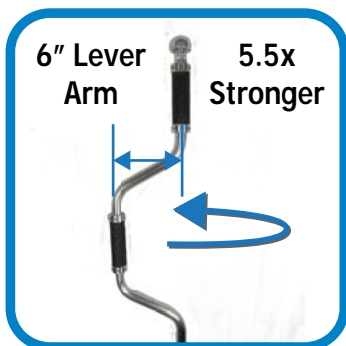
In a joint effort with Chevron's San Joaquin Valley Business Unit, Innovative Maintenance Products has developed a new maintenance safety tool, the Valve Speed Handle, to make valve operations safer, easier and faster. Chevron asked to have a tool developed for field operators performing valve operations to reduce the risk of injuries and improve productivity. The design elements were based on requirements from Chevron's H.E.S. group, Certified Ergonomist, and field operators that would be using the tool daily. After the successful completion of field testing by 20 field operators over 6-months, it has been approved for full deployment. Today, 100's of Valve Speed Handles are in use by Chevron and other oil and gas companies with great success of user adoption and operator satisfaction.

## Reduce the Risk in These Common Situations:

- ✓ Minimize risk of soft tissue injury during valve operations
- ✓ Remove worker face/ body from the blowout danger zone
- ✓ Eliminate muscle strain while in an awkward body position
- ✓ Avoid cellar access and H2S dangers on well platforms

## Key Tool Features:

- ✓ Built using a HD aluminum frame with a stainless steel fork and hardware for spark and corrosion resistance
- ✓ Certified Ergonomist approved handles for working in gloves
- ✓ Max Torque Rating: 110 ft-lb
- ✓ Limited 12-month warranty



### 6" Lever Arm = Open Tight Valves with Less Effort

The 6" swing arm provides superior mechanical leverage with a X5.5 force-multiplier to help open tight valves. By hand, the average person can apply approximately 20 ft-lb of torque and with the Valve Speed Handle that is increased to 110 ft-lb of torque. Operators can expect quicker and easier job task completion.



### Extend Reach 55", Access Valves in a Standing Position

The average arm length is 25", to reach ground level a worker must either bend down or kneel down. When adding the task of turning a valve wheel while in a bent body position, this becomes a high risk action for soft tissue injuries. Use of the VSH ensures operators will use good body mechanics and follow safety training.



### Ergonomic Grip Options, Operator Comfort is Key

Operators have the option to use the upper grip or spinner knob top according to their handling preference, both have been approved by a Certified Ergonomist. With dual grip styles, a worker can alternate hand placement to access valves and maintain good body posture.



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Product Designed and Assembled  
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### 55-Inch Valve Speed Handle

Best for ground to knee-high operations  
Specs: 3.6 lbs, 56.5" overall length  
Part Number: VSH-11355



\* Patents Pending

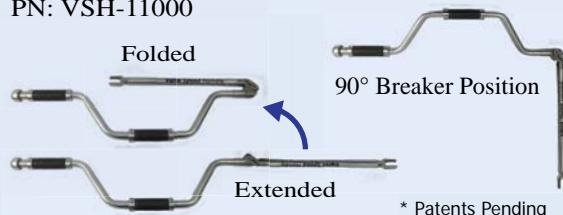
### 32-Inch Valve Speed Handle

Ideal for knee-high to overhead operations  
Specs: 3.1 lbs, 31.5" overall length  
Part Number: VSH-11455



### 90-Breaker Valve Speed Handle

Offers 90-Degree breaker position for tight valves and folds in half for compact storage and transport  
Specs: 5.2 lbs, 55" extended, 34" closed  
PN: VSH-11000



\* Patents Pending



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PN: VSH-10202 (20191029)

## Attachable Plate for Information Labels

Attach critical information labels to pipes for new construction and re-labeling of current wells and pipelines



Pipe Tag "L-Bracket"  
Use on Horizontal Pipes  
Part No. PT-1301



Pipe Tag "Flush Mount"  
Use on Vertical Pipes  
Part No. PT-1300



"Flush Mount" Pipe Tag  
installed at oil field  
in Bakersfield, Calif.

The Pipe Tag Labeling System is a better way to label pipes with information stickers at less cost per pipe installation and faster job completion time. Pipe Tags come with stainless steel self-locking straps to ensure the label plate has many years of service in all weather conditions. Install on any pipe in about 1 minute without the need for any tools.

### KEY FEATURES:

- Uses tension straps for easy installation, no welding or bolting required
- Specially designed self-locking metal straps for long field service, even in high temperature conditions
- Made from stainless steel and aluminum parts for rust and corrosion resistance in all weather conditions
- Ideal for applications subjected to various chemicals, oils, salts and acids
- Non-toxic to the environment
- Fits Pipe Diameters: 1" to 3.5" OD (4" to 8" bands available)
- Operating Temperature: -112°F(-80°C) to +1000°F (+538°C)

### KEY BENEFITS:

- \* Lower cost per install compared to welding
- \* Many years of service without failure
- \* Smooth surface for better label adhesion
- \* Establish uniform identification system at new sites
- \* Replace worn or damaged signage with ease
- \* Safer for workers due to rounded edges and corners

Description	Specs	Part No.
Pipe Tags - "Flush Mount"	Mounting Style: Vertical Pipes. Labeling Area: 5" x 1.75". Comes with (1) mounting plate and (2) stainless steel straps.	PT-1300
Pipe Tags - "L-Bracket"	Mounting Style: Horizontal Pipes. Labeling Area: 5" x 1.75". Comes comes (1) mounting plate and (2) stainless steel straps.	PT-1301
Installation Gun	Hand held tool to tighten straps, cuts off excess strap length	PT-1325

\* Available in cases of 25, 100 and 250 pieces

\* Orders of 100 pieces or more receives a Installation Gun free.