



MADE IN THE USA

90 Series Swivel Joint Line



Serving the Industry Since 1935

Corporate Office & Manufacturing Plant

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Designed. Engineered. Proven.

OILCO Liquid Handling Systems designs, engineers, and manufactures the finest swivel joints in the world. Each component is made of quality materials and machined to precision tolerances. Employing the largest Haas arsenal of ST-40 CNC's on the eastern seaboard, advanced milling operations ensure dimensional accuracy, elevated performance characteristics and continued reliability.

The 90 Series line is the front runner of the OILCO production catalog. Engineered specifically for heavy duty use in steel mills and municipal infra-structure plants, the evolution of the 90 Series has witnessed unparalleled success.



90 Series V-Ring Swivel Joints

The 90 Series swivel joint line is the performance and innovation leader in the OILCO catalog. Engineered in the late 1980's, the 90 Series began with the concept of manufacturing a superior swivel to replace the simple o-ring units produced at the time. Since manufacturing began, the 90 Series has grown to encompass four additional model variations, countless secondary applications, and has expanded to include 24" nominal pipe sizes.

The 90 Series platform is designed with a three "V" ring seal configuration base that is spring loaded and self-adjusting for normal wear. The result translates into the "V" rings maintaining a constant optimal pressure, securing a reliable seal well beyond the service expectancy of any other conventional single seal.

- 1000 PSI cold working pressure
- 2" through 24" standard availability
- ASTM schedule 40 profile construction
- Stainless Steel T-316, Carbon Steel & Aluminum



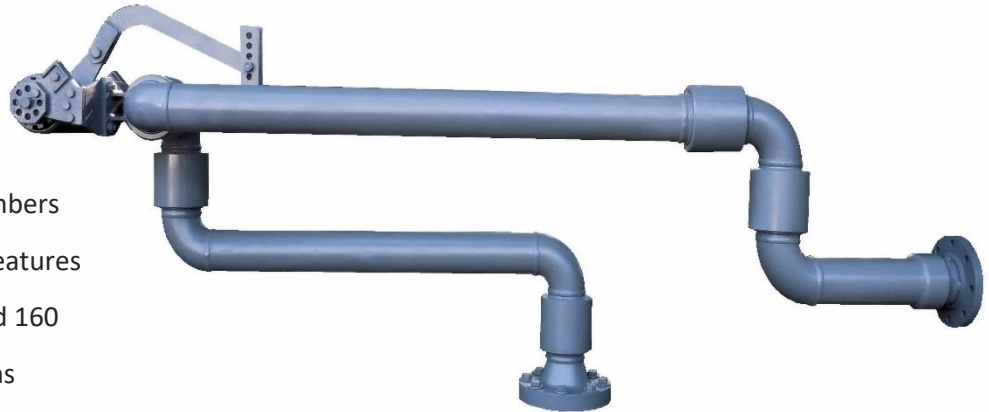
The “HP” High Pressure Series



After an accelerated research and development program in 2011, OILCO introduced a new option geared specifically to prover arm engineers and manufacturers. The 90 Series High Pressure (“HP”) line has increased the working pressure capabilities of OILCO swivels to allow for incorporation in various prover assemblies, testing facilities, and other critical loading and unloading procedures. Utilizing established engineering techniques, design specifications and performance requirements, the 90 Series “HP” line affords identical predictability with an improved level of effective range.

HP Series characteristics:

- Enhanced mechanical chambers
- Increased sealing surface features
- ASTM Schedule 80, 120 and 160
- SSI and 190 Series variations



The Stainless Steel Insert – “SSI”

Meeting the needs of the iron and steel mills, OILCO sought to remedy the complex chemical problems for pumping vast quantities of on-site water through the lids of the melting pots. Due to the intense chemical treatment of the water, standard steel joints were suffering extensive pitting and corrosion of the sealing surface.

By isolating the critical areas of the sealing service, OILCO managed to develop a process that mates the benefits of corrosion resistant stainless steel into a standard carbon steel unit, while keeping the cost of the unit down to a more manageable level.

The 90 Series “SSI” swivel joints are dimensionally identical to their carbon steel and stainless steel counterparts, but utilize the necessary aspects of each material to prolong the seal life and seal area integrity. This hybrid swivel joint meets several major working concerns, cost efficiency issues and have resulted in an increased life expectancy over the standard carbon steel units by **30-50%**.

The SSI series has a complete packing chamber of stainless steel that includes the operational shelf



Low Torque Breakaway – The “LT” Design

The Low Torque (“LT”) model swivel joint is a specifically conditioned 90 Series swivel joint that reduces torque up to 65% more than any other conventional joint. The low torque option is a secondary procedure applied during the manufacturing process, prior to welding procedures. The 90 Series low torque swivel can be broken with a minimal amount of manual pressure, assisting in ease of use for the operator in critical operations areas.



Highlighted industry use:

- Furnace hose assemblies
Iron and steel manufacturing
- *Water treatment*
Digester tank processing
- Marine loading & unloading
Dock hose assemblies
- Critical chemical systems
Corrosive liquid transfer

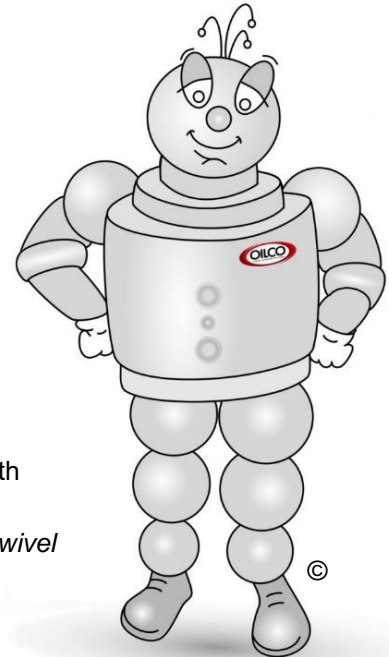
Versatile Quality, Traditional Reliability

OILCO Liquid Handling Systems ensures that each unit meets the highest manufacturing standards. Modernization and a progressive program has allowed OILCO to mark pace with the developing needs of both old and new industry alike.

The OILCO 90 Series platform affords multiple secondary application options and customization abilities. Where critical maintenance conditions exist, the split flange 190 Series can be employed. Built on identical mechanical foundation, the 190 Series demonstrates how the original 90 Series swivel joint line has become and how wide spread its service to the manufacturing infrastructure it has become.

“Designed, engineered and manufactured with pride to meet the needs of heavy industry.”

- Mr. Swivel



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