

Swivel Joints



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OILCO Liquid Handling Systems offers the widest range of swivel joints in the industry. The versatility of the standard production line is unmatched in depth and available overall performance. With a 'standard' list including:

- O-ring
- High Pressure
- Steam Jacket
- Single and Dual Timken® Tapered Roller Bearing
- V-ring
- Low Torque
- Hybrid Insert
- Split Flange
- Heavy Duty
- Removable Seal

It isn't hard to understand how OILCO has cornered the market on versatility and dependability. As recent as 2010, OILCO patent the lowest profile / highest capacity swivel joint available in the *Nuvex® Series* swivel joint line, only proving that after 75 years of competitive service, OILCO is still seeking to raise the bar in a rather traditional industry.

The basic materials offered by OILCO are carbon steel and stainless steel. The material selection is based on the necessity and project requirements. OILCO has multiple production lines; cast aluminum, cast iron, and stainless steel components, triple v-ring units, high capacity joints for carrying above and below combinations, OILCO offers the most suitable unit for all applications.

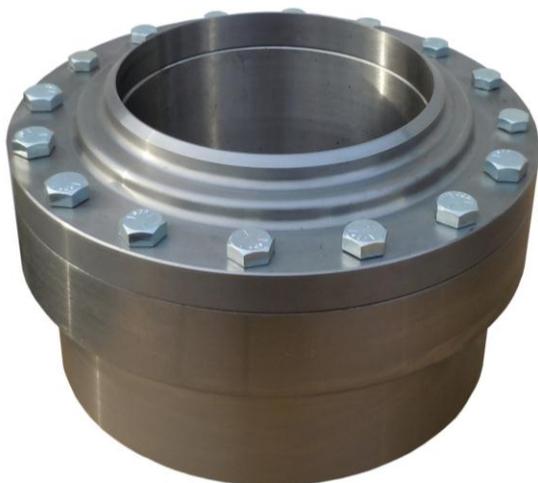
Since 1935, OILCO has maintained the same manufacturing principle that has made us successful with the intended project user. We are the right project... and OILCO is the right partner.



VARIABLE APPLICATION

EXCLUSIVE DESIGN

For more than 25 years, OILCO Liquid Handling Systems has built on the best proven platform available – the *90 Series* swivel joint. The evolution of the triple v-ring design has been utilized in various steam jacketing, increased carrying capacity, split flange packing, and high pressure service projects. With an almost limitless application ability, the *90 Series* swivel joint, in all its forms, has served the petroleum, steel mill and heavy industry when no other unit could offer the required programmed strength and reliability. Standard production encompasses 2" through 16", and allows for various secondary application processes and multiple seal forms. Two of the most popular variants are the low torque and heavy duty, triple track versions of the *90 Series*.



The low torque design has reduced overall drag up to 65%, a marker than no other unit can compare to. And the triple track (HD) swivels afford an increased moment load of up to 30% while still retaining the original dimension characteristics and maintenance procedures.

Custom variations have also been created in order to suit complex project requirements and specifications. Due to the high overall performance of the *90 Series*, no other swivel joint has a broader spectrum of use in the market today.



...y OILCO are aluminum, carbon
...ange of fittings is limited only by
...ments. With dedicated
...um for outboard loading arm
...s for critical application, high
...bility and corrosive resistant
...ne most reliable and most
...ns.

...ained a design and
...aligns the correct unit
... The right swivel for
...D has it.

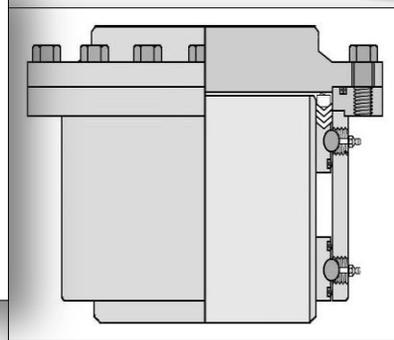
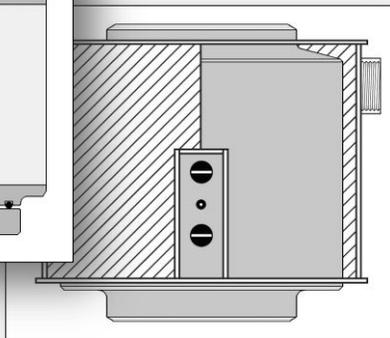
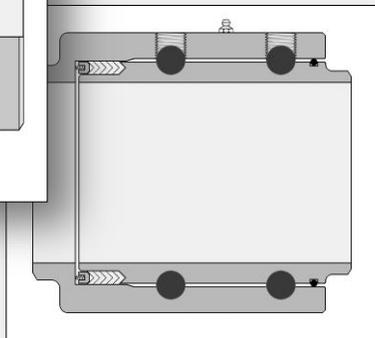
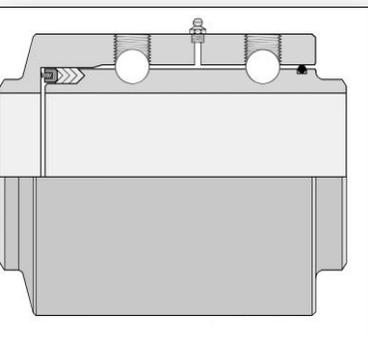


IGN

ADVANCED TECHNOLOGY



LIQUID HAND



OVERSIZED DESIGN, PROVEN TECHNIQUE

Based on industry feedback and the consistent shift to higher volume transfers, OILCO Liquid Handling Systems has concentrated some of its focus on reliable and simple maintenance swivels joints. By expanding the already well known *Split Flange 190 Series*, OILCO increased the overall dimensions of the units to accommodate many of the mainstream pipeline sizes.



These swivels have widely spaced ball races allowing for better alignment and higher moment load. The triple chevron seal will operate under both a vacuum and a pressure environment. Packing seal material is Buna-N (standard) but Viton, Teflon®, EPDM and EPR are available. The split design of the body cavity allows for easy in-field service without having to remove the ball bearings. This greatly reduces the risk of operator and maintenance error, while constantly assuring proper alignment as determined by the factory.

90 SERIES “SSI” - HEAVY INDUSTRY’S HYBRID



Inspired by the needs of the iron and steel mills, OILCO sought to understand 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 with extensive pitting and corrosion of the sealing surface. While traditional wisdom would warrant the use of stainless steel, the problem still arose, albeit in a slower timeline. However, the use of upgraded stainless steel (especially in the larger 10" and 12" sizes) became a huge cost consideration for the plant engineers.

By isolating the critical areas of the sealing service, OILCO developed a process that mates the corrosion resistant benefits of stainless steel, with the more cost effective aspect of carbon steel. The result was a hybrid stainless steel insert (SSI) swivel joint. These swivels 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. The *90 Series Stainless Steel Insert* is the advance that heavy industry has needed in an economically and mechanically alert production environment.

