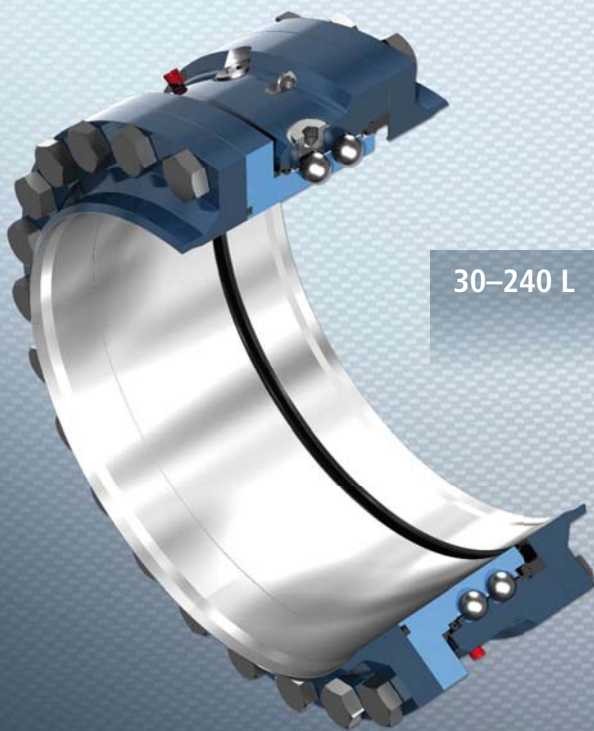
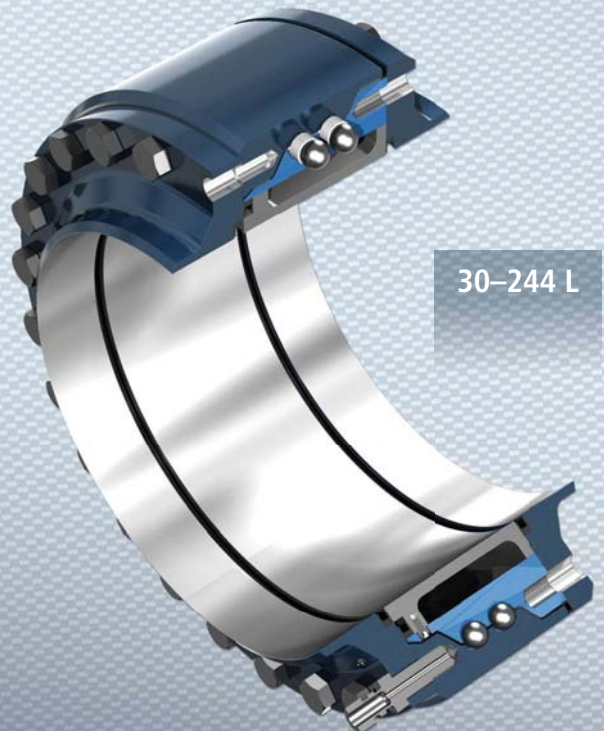


# ROTAFLEX SWIVEL JOINTS



30-240 L



30-244 L



### Carefully Designed Construction

SVT ROTAFLEX Swivel Joints feature a sophisticated design and construction that includes modular construction suitable for a wide range of applications.

Different heavy-duty materials allow for matching the various kinds of products to be transferred, be they toxic, aggressive, or explosive liquids or gases. The temperature range is from  $-196^{\circ}\text{C}$  to  $+250^{\circ}\text{C}$ .

With the help of lining and/or heating, Swivel Joints can handle the most critical products.



### Minimal Pressure Loss

Optimal flow-through characteristics and full bore size ensure minimal pressure loss.

SVT ROTAFLEX Swivel Joints are vacuum-proof and suitable for operating pressures of up to 50 bar.



### Designed for the Toughest Challenges

SVT ROTAFLEX Swivel Joints have hardened ball raceways. Separate additional raceway rings are therefore not needed, avoiding associated problems.

Swivel Joints are available with double or single ball races, according to the requirements of the application.



### Easy to Maintain

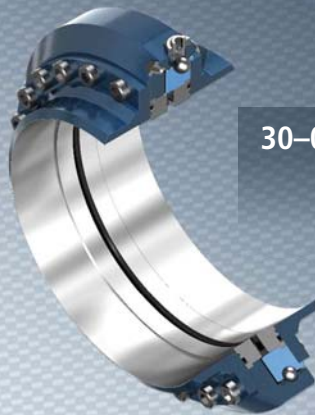
Because of the long-lasting lubrication, SVT ROTAFLEX Swivel Joints practically don't need maintenance. They run smoothly throughout their entire product lives, even under conditions of constant movement as encountered in offshore applications.

All Swivel Joints are flanged on both sides to ensure easy inspection and maintenance.

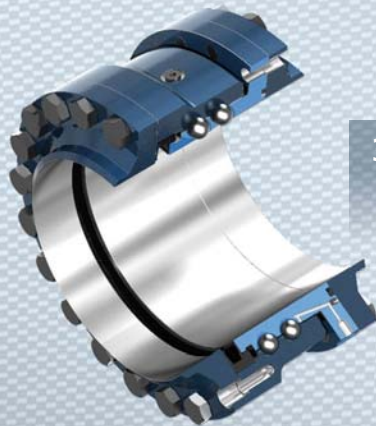
Thanks to the optimized arrangement of the joints, all seals are easily accessible in minimal time – even in the trunnion and apex.



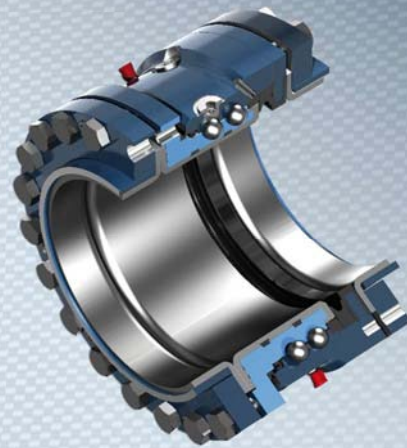
30-240 L



30-047 L



30-244 L



30-362 L



### Special Sealing Systems

All SVT ROTAFLEX Swivel Joints include double dynamic seals to ensure the highest reliability. The packing faces of the Swivel Joints are always made out of stainless steel.

A wide selection of sealing systems and materials (e.g. FPM, PTFE, CSM, EPDM, PE) allow for perfect adjustment to the different temperatures and the different products to be transferred. A seal purging system (optional) for extremely critical products guarantees that under no circumstances will these products leak into the environment.

Furthermore, SVT ROTAFLEX Swivel Joints can be equipped with seals that minimize dead space and/or FDA-approved seal materials.

ROTALEX Swivel Joints seals don't need to be regularly replaced.



### Certified Reliability

SVT ROTAFLEX Swivel Joints for loading arms are available with bore sizes ranging from 2" to 10". They are all certified according to relevant international standards.

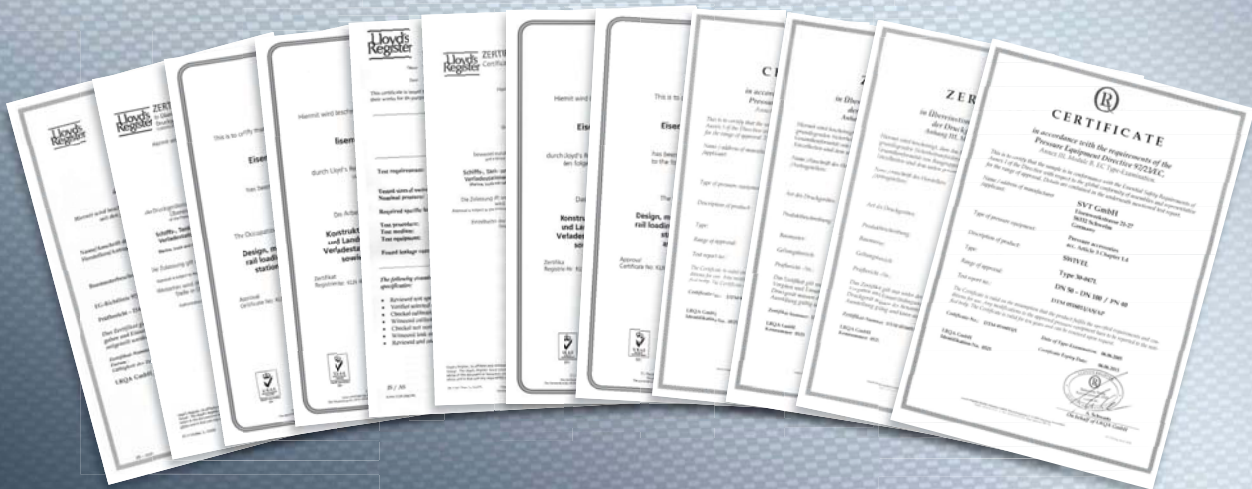
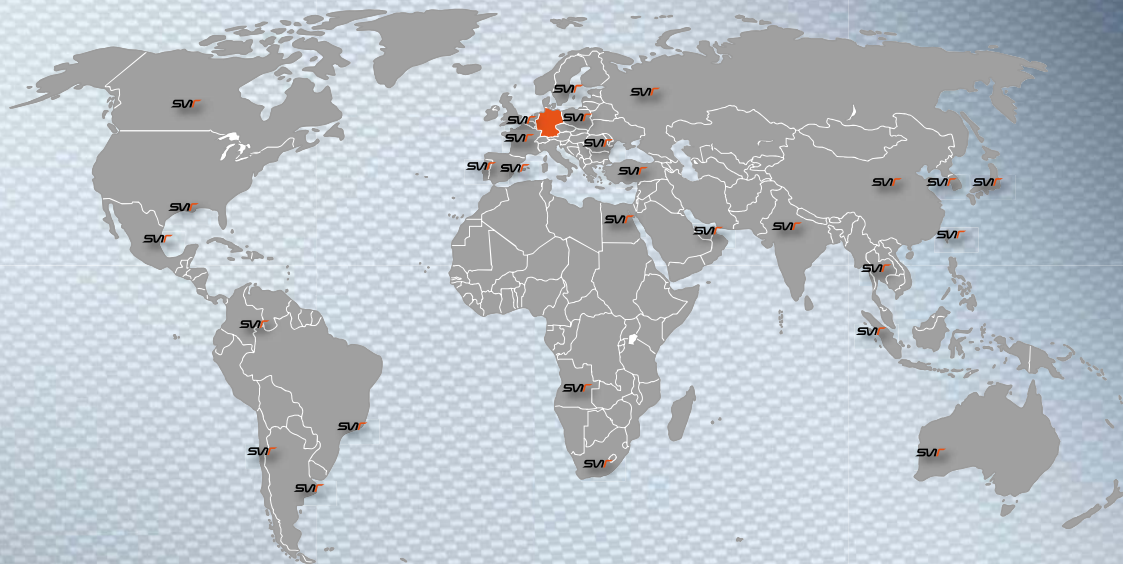


### Cryogenic Applications

SVT ROTAFLEX Swivel Joints for extreme cold applications (e.g. liquefied gas down to  $-196^{\circ}\text{C}$ ) are manufactured from a special stainless steel. This steel is characterized by its extreme hardness as well as its outstanding ductility at low temperatures. Again, separate ball raceway rings are not needed.

An applied liner efficiently protects the outer and inner raceways from direct contact with the cryogenic substances. This results in a steady, smooth cooldown so that the swivel joints don't require a particular cooling phase beyond regular cooldown of ship and shoreside piping – which is a very important criterion for an instant and rapid start of the transfer.

Instead of using the normal, long-lasting lubrication, the ball raceways are purged with nitrogen in cryogenic applications. Due to the special construction of the SVT ROTAFLEX Cryogenic Swivel Joints, the corresponding purge pipe doesn't need hoses.



As a member of the GESCO group, SVT GmbH is one of the leading global manufacturers of loading equipment for liquid and gaseous products. SVT has more than 40 years of experience in the design, construction, and production of loading arms. Worldwide installations of loading systems also add to SVT's reputation as a reliable and innovative partner for its clients.

Still today, SVT manufactures and assembles all of its key components exclusively in Germany. Swivel Joints, Emergency Release Couplers, Control Systems, Quick Connect/Disconnect Couplers, among others, are developed, produced, and tested by SVT. This is German engineering at its best. More than 180 loading arms sold to a single customer is convincing proof of our strong belief in quality.

Regional salespeople as well as the right international contact ensure excellent service and extremely rapid response times. A team of highly qualified technicians and engineers set up, test and maintain all of SVT's installations.

Furthermore, SVT is the only company worldwide that is in possession of the technical drawings and know-how of the former Wiese GmbH and Connex GmbH.