



PACIFIC
MARINE LOADING ARM



Designed and Built for a Medium Operating Reach

The SVT PACIFIC Marine Loading Arm is a self-supporting arm specially designed for the medium-range transfer of critical substances. With nominal bores from 4" to 16" and temperatures ranging from -20°C to $+80^{\circ}\text{C}$, various critical substances can be transported. The arm's different built-in materials allow it to adjust to the different physical and chemical characteristics of the substances to be transferred, no matter whether they are toxic, aggressive, or explosive.

The SVT PACIFIC Marine Loading Arm is manually operated, but depending on the service required, it can also be equipped with hydraulic drives.



ROTAFLEX Swivel Joints

The built-in SVT ROTAFLEX Swivel Joints have hardened ball raceways so that separate raceways rings are not needed, avoiding associated problems.

They have a double dynamic sealing system with packing faces made of stainless steel for maximal reliability. Different sealing systems and different materials (e.g. FPM, PTFE, CSM, EPDM, PE) allow for the perfect adjustment to different substances and temperatures.



All-Purpose Equipment

The SVT PACIFIC Marine Loading Arm, when hydraulic operated, can be equipped with various additional accessories:

A second product line making the loader into a real tandem loading arm or mounted vapor return lines can be customized. For special purposes, vacuum breakers, nitrogen purging and residue draining systems, as well as process monitoring sensors and valves are available.

SVT Emergency Release Couplers are integral components of most loading systems. Through self-monitoring of the actual loading position (Pre-Alarm, ESD 1, ESD 2), looming emergency situations due to a tanker drifting off are quickly detected. In this case, the coupling will automatically be released.

SVT Quick Connect/Disconnect Couplers rapidly and safely connect the arm with the corresponding tanker flange.

A cable or a radio remote control supplemental to the operating panel allows operation of the loading arm from the ship. The optional 3-D Constant Positioning Monitoring System displays the position of one or several loading arms in real time.



- Suitable for temperatures ranging from -20°C to $+80^{\circ}\text{C}$ and suitable for all substances
- Fully balanced in all positions by means of separate counterweights for inboard and outboard arms
- Manually or electrohydraulically operated, operating the arm from the ship by remote control is optional
- Fulfills the highest safety standards with the reliable SVT Emergency Release Couplers and the SVT Quick Connect/Disconnect Couplers (QCDC)
- Reduced spare parts storage and costs through the use of identical SVT ROTAFLEX Swivel Joints

- Construction according to the OCIMF and other international standards
- Constructed, manufactured, assembled, and tested in Germany under the strict supervision of our quality control management
- Test run on SVT premises with the corresponding hydraulic power unit and control system
- Saving time and money through fast installation and an initial operation of the completely preassembled loader on the jetty
- Highly experienced SVT engineers guide and assist worldwide installations and initial operations
- High reliability and low maintenance – a regular overhaul is not required



Easy Routine Maintenance

An expensive setup of scaffolding or a crane basket is not needed. In most cases, maintenance ladders and platforms will do. In stand-by, all hydraulic drives (if so equipped) are in an absolutely horizontal position so that they can be vented in the simplest manner.

All SVT ROTAFLEX Swivel Joints are flanged on both sides – ideal for easy inspection and maintenance. Because of the long-lasting lubrication, Swivel Joints practically don't need to be maintained; they run smoothly throughout their entire product lives, even when continuously moving.

The SVT PACIFIC Marine Loading Arm does not need regular overhauls – an important aspect in the total cost of ownership.



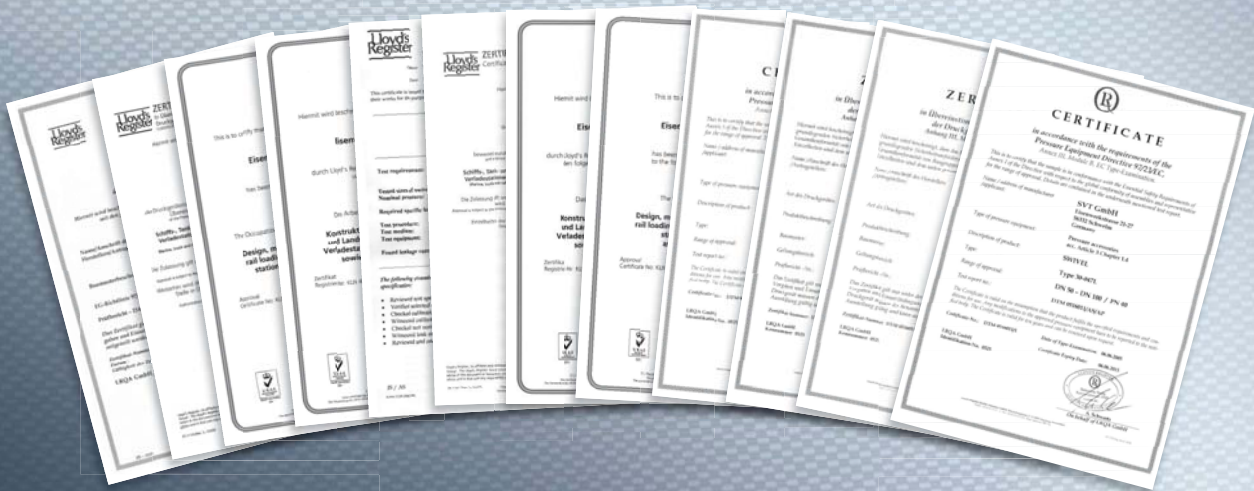
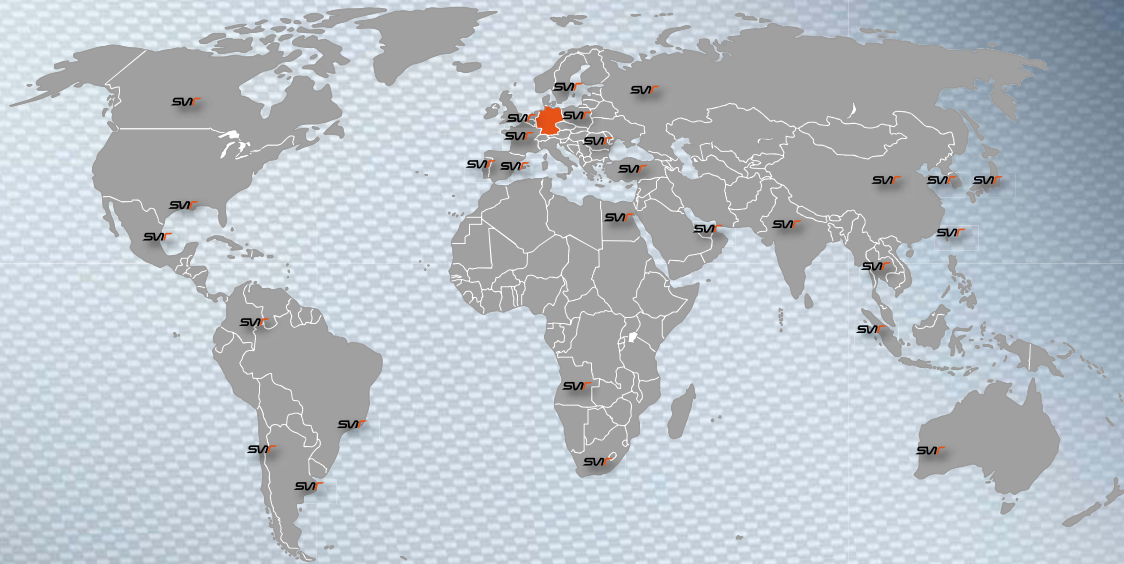
Double Counterweight System

The SVT PACIFIC Marine Loading Arm is equipped with a double counterweight system that allows independent balancing of the inboard and outboard arms through separate counterweights. The balancing of the outboard arm is achieved by means of a pantograph cable system that ensures a constant balance of force as well as very effective shock absorbance. The cables' absorbing quality results in an extremely smooth and steady arm movement when in use. The cables are impregnated with a special lifetime coating and carry a safety factor of five.



Fast Installation

The SVT PACIFIC Marine Loading Arm is delivered and installed as a whole, i.e. with its complete hydraulics (if so equipped) and electronics. The installation on the jetty can be performed on land or from the water. This normally takes one or two days.



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.

