

A Member of GESCO-Group



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Marine Loading Systems	
Truck and Railcar Loading Systems————	
Loading Plattforms and Folding Stairs ————	
Erection and Commissioning——————————————————————————————————	
Maintenance ————————————————————————————————————	
Spare Parts	

Marine Loading Systems















Truck- and Railcar Loading Systems

















Wiese	founded 1968	(taken-over 1987)
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Connex founded 1979 (taken-over 1997)

SVT founded 1987 (to GESCO group 2002)

Employees 178

Shop Area 23.000 m²

Design, manufacturing, quality control & testing at Schwelm

Swivel joints



Emergency Release Couplers

Quick Connect/Disconnect Couplers

Control Systems

Certificates





ERC Type Approval & Proof Test (OCIMF)



QCDC Type Approval & Proof Test (OCIMF)



Quality Management System DIN EN ISO 9001:2008



Occupational Health and Safety OHSAS 18001: 2007



Swivel Joint Type Approval & Proof Test (OCIMF), TA-Luft



RIVA	(self-supported) ———	
KIVA	(self-supported)	



PACIFIC (self-supported)



ATLANTIC (support structure)



ARCTIC (ATLANTIC cryogenic) ————





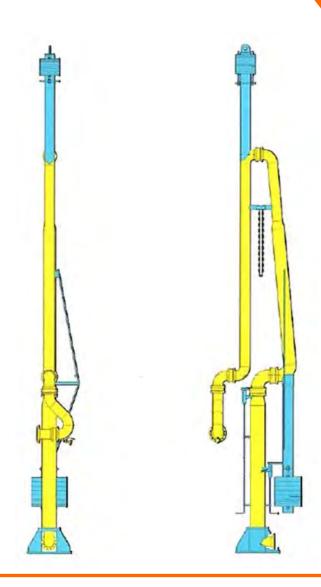
Self-supported design

Inboard and outboard arm separately balanced, no pantograph system

Diameters 4" to 10"

Manually operated by pulling ropes

No emergency release system



SVT Marine Loading Arm RIVA









Self-supported design

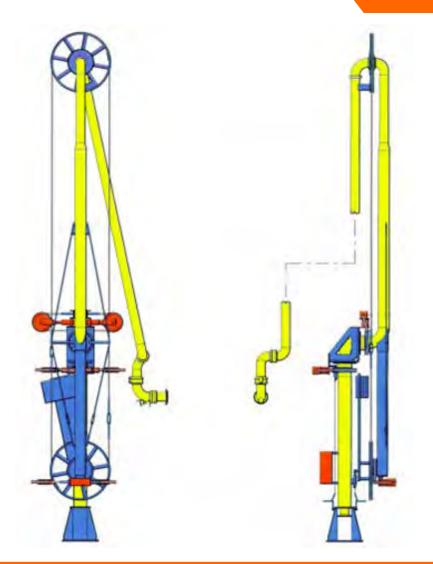
Inboard and outboard arm separately balanced by wheel pantograph system (double counter weight)

Diameters 4" to 16"

Manually or hydraulically operated

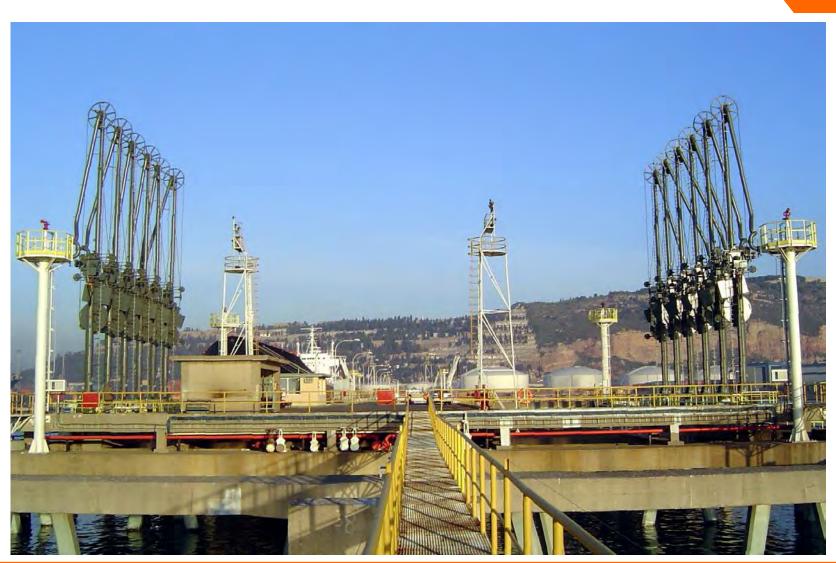
Emergency Release System

Maintenance platforms and ladders



SVT Marine Loading Arm PACIFIC





SVT Marine Loading Arm ATLANTIC



www.svt-gmbh.com

Separate support structure design

Inboard and outboard arm separately balanced by wheel pantograph system (double counter weight)

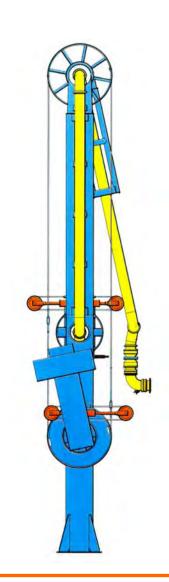
Diameters 4" to 20"

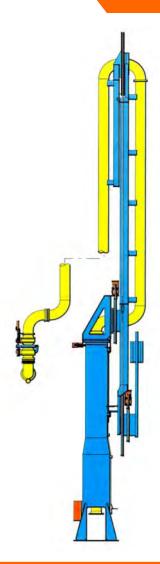
Hydraulically operated

Emergency Release System

Maintenance platforms and ladders

Universal design base





SVT Marine Loading Arm ATLANTIC



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Vapor return line in piggy-back style

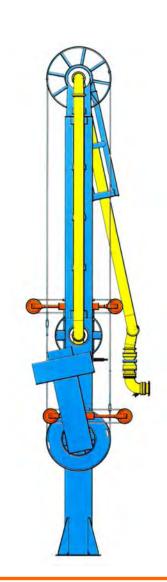
Tandem execution with two product lines

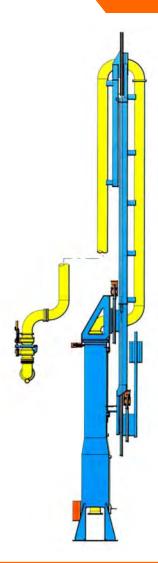
Wide product temperature range: From -164 °C (LNG) to +250 °C (Bitumen)

Suitable for all types of chemicals and petrochemicals

PTFE-/PE-lining

Heating and insulation





Marine Loading Arms for Chemicals





Marine Loading Arms with Vapour Return Line



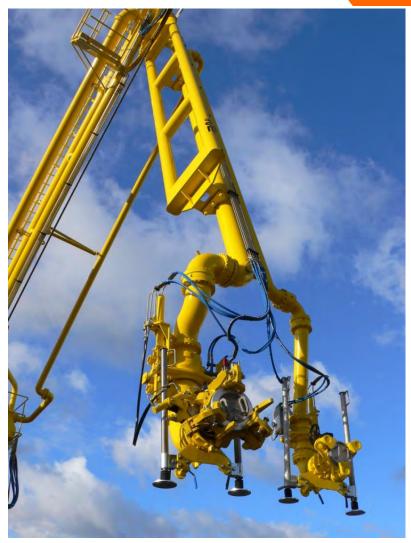




Tandem Marine Loading Arms







Trailer-mounted Marine Loading Arms











The longest marine loading arms worldwide!

Marine Loading Arms for LNG





ROTAFLEX Swivel Joints for Marine Loading Arms



www.svt-gmbh.com 16" LNG 16" Ambient 8" Ambient 8" Ambient 8" PTFE-/PE-lined 8" LNG

ROTAFLEX Swivel Joints for Marine Loading Arms



www.svt-gmbh.com

Flanged design

Double ball races

Double sealing arrangement

Various sealing systems:

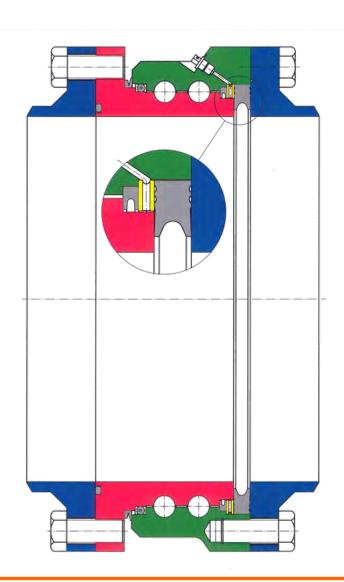
FPM

PTFE

CSM

EPDM

Stainless steel sealing surfaces





Double ball valve ERC: Minimal product spill

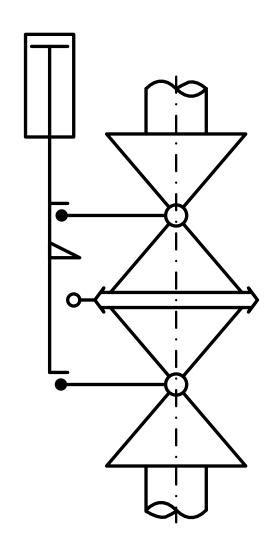
Single cylinder design: Simple and safe

Mechanical interlock system: Guarantees full valve closure before clamp release

Manual Release & Safety Device: Avoids unintentional release









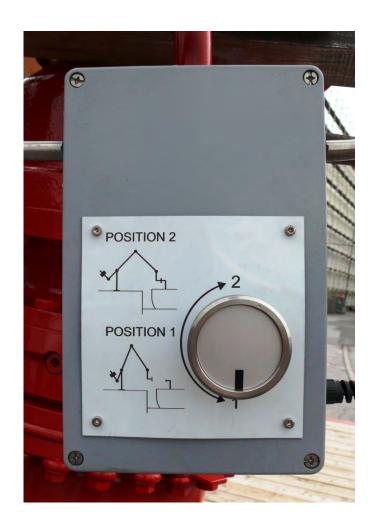


To avoid unintentional release

Both electrical and hydraulical interlock

Position 1: Loading arm manoeuvring

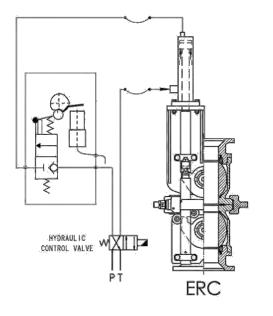
Position 2: Loading arm connected

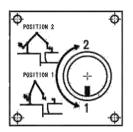


Manual Release & Safety Device

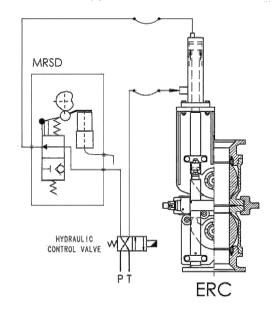


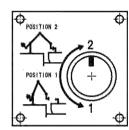
Position 1: Loading arm not connected, ERC locked.





Position 2: Loading arm connected, ERC ready for operation.





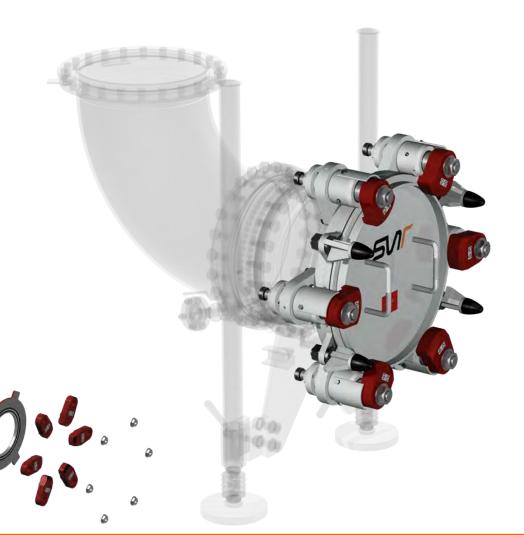


Manual Quick Connect/ Disconnect Coupler

Fast, safe and convenient connection to vessel flange

Operated with regular engineer's wrench

Easily adaptable to next-smaller flange size





Hydraulic Quick Connect/ Disconnect Coupler

Single hydraulic drive: Simultaneous clamp movement

Mechanical interlock: Simple and safe

Minimum hydraulic parts: Smallest failure chance



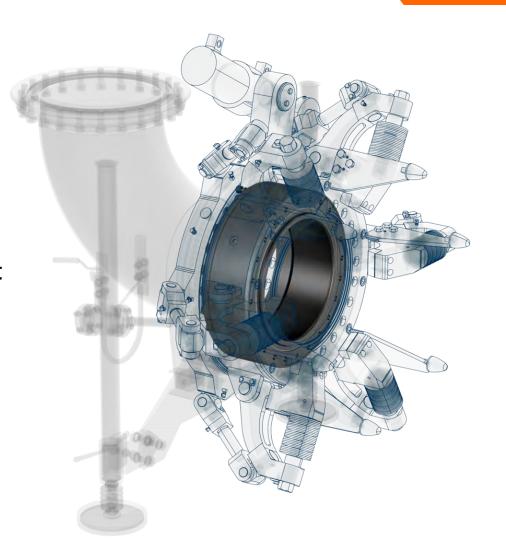


Assembled not in front of but <u>over</u> last swivel joint:

Flanged design

Shortest QC/DC arrangement





Local Operator Panel / Radio Remote Control







Hydraulic Power Unit







Dedicated set of solenoids per arm:

Higher availability

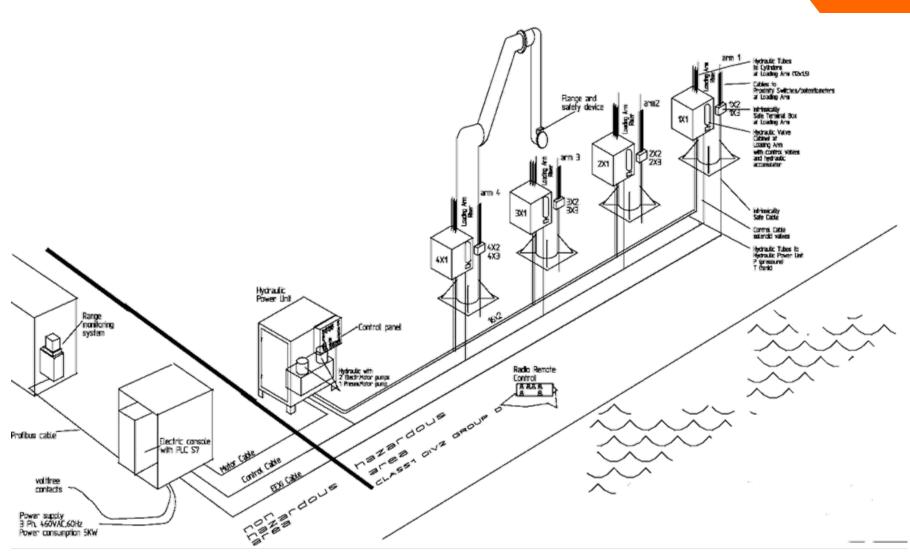
Less hydraulic lines on jetty

Dedicated hydraulic accumulator for ERC activation



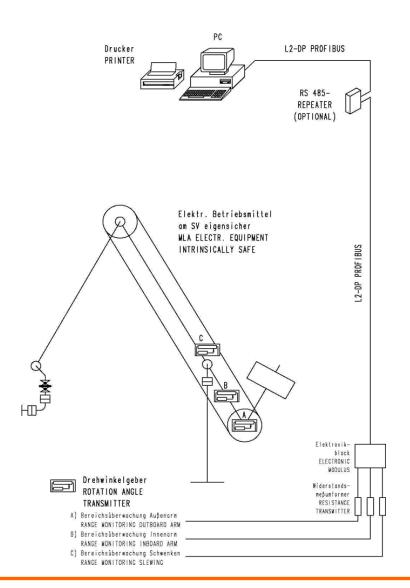
Typical Jetty Layout of four Marine Loading Arms

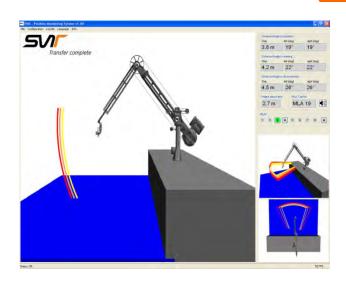


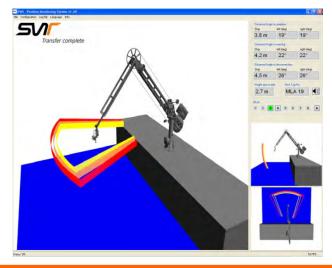


Constant Position Monitoring System









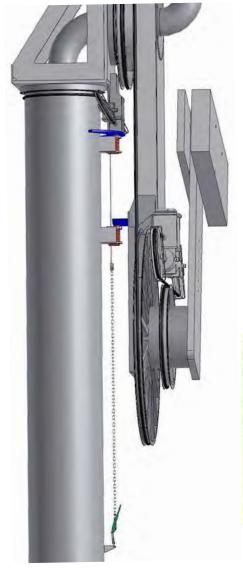


Spring-loaded locking system:

Releasing and locking by single handle

Automatic locking when reaching the parking position









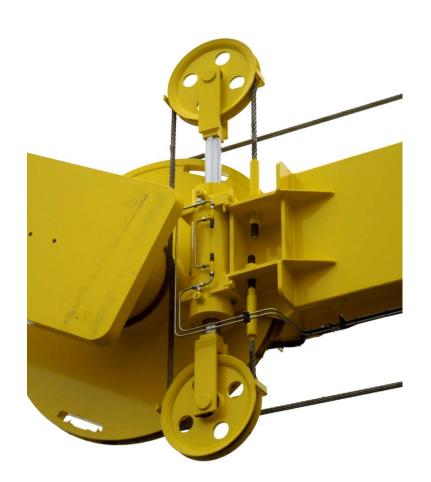


Stainless steel piston rods, no chrome plating

Hydraulic cylinder exposed only to axial forces

Smooth and steady moving due to damping properties of ropes

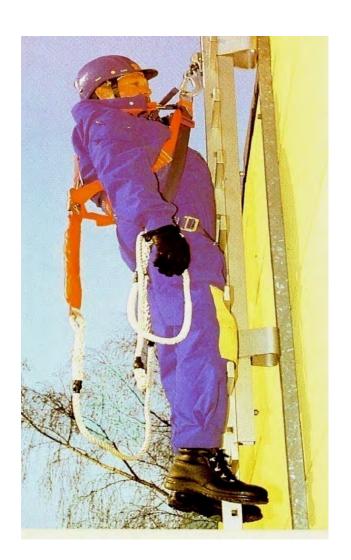
Five-times safety margin for ropes



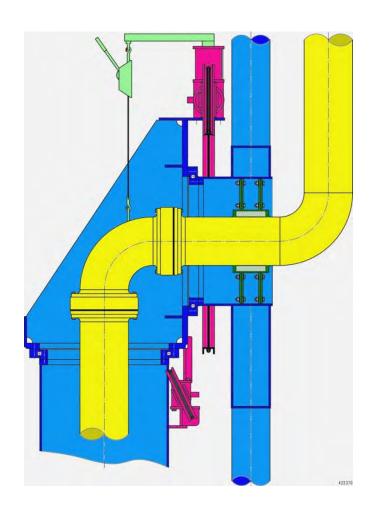
Ladder and Safety System



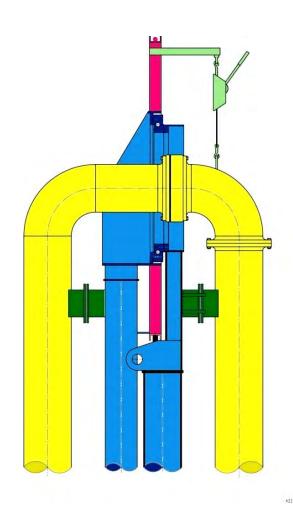








At Trunnion (top of riser)



At Apex (top of loading arm)







Cryogenic Shop Tests













Yard Erection of Marine Loading Arms





Factory Acceptance Test









Fully electrically installed

Fully hydraulically installed



Site Erection with Floating Crane



