

QCDC – Hydraulic and Manual Quick Connect/Disconnect Couplers for Marine Loading Arms

SVT Quick Connect/Disconnect Couplers (QCDC) serve to quickly connect the loading arm with the corresponding vessel manifold.



A Wide Range of Applications

The various SVT QCDCs are designed for a temperature range of -196°C to +250°C, they are available in pipe sizes ranging from 6" to 20". SVT QCDCs are vacuum-proof as well as suitable for different pressure ratings (e.g. 150 lbs, 300 lbs) and designed, certified and produced in accordance with international standards. The wide lead-in chamfers with which all SVT QCDCs are equipped, ease the maneuvering of the loading arm to the vessel manifold.



Optimized Sealing Systems

Different material options of the SVT QCDCs allow handling of the different physical and chemical characteristics of the substances to be transferred, be they poisonous, aggressive, explosive, cryogenic or hot. Accordingly

tailor-made are the different sealing systems and materials (e.g. FPM, PTFE, CSM, EPDM, PE). The connecting flanges and therefore also the sealing faces of SVT's QCDCs are made of stainless steel.

Redundant sealing systems allow the highest safety during cargo transfer even if the vessel manifold is slightly damaged.



SVT QCDC Vario

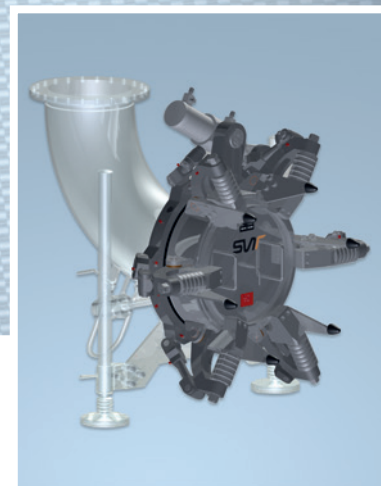
The SVT QCDC Vario series is available for hydraulic or manual operation. It is unique, as it is adaptable to the next smaller diameter class – without any replacements and without any tools: Nothing needs to be stocked, nothing needs to be transported; it is just a simple and manual unlocking, shifting, rotating and re-locking.

Whilst the manual SVT QCDC Vario closes by simply using hand wheels, the hydraulic SVT QCDC Vario uses standard hydraulic devices. It goes without saying that the SVT QCDC Vario will remain closed even if the hydraulic power completely fails, nevertheless it allows manual opening if required.



QCDC

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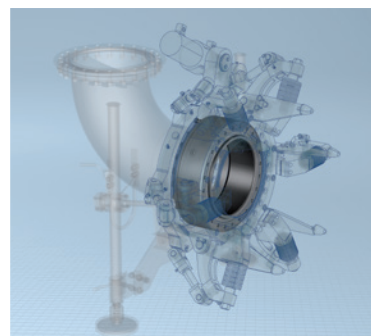
Simple Retrofitting for Existing Loading Arms

In contrast to other systems, both manual and hydraulic SVT QCDC Vario are positioned above the last swivel joint in the triple swivel assembly. In combination with its small weight the concept allows for simple retrofitting of marine loading arms: The total weight of the triple swivel assembly will only increase slightly if at all, and generally will not affect the static integrity of the marine loading arm. If the marine loading arm is already equipped with an Emergency Release Coupler, no additional hydraulic lines are needed along the arm. Only a modified safety and release device and a software adaptation will be required. The SVT QCDC Vario is a milestone for operational safety, speed and convenience at a significantly limited cost.



SVT QCDC Classic

The SVT QCDC Classic series as well is available for hydraulic or manual operation. It shows a very robust design and is dedicated for a specific flange diameter. Whilst the clamps of the manual SVT QCDC Classic are closed by a short turn of a regular wrench, the hydraulic SVT QCDC Classic uses only one single hydraulic cylinder, which mechanically actuates the different clamps simultaneously and with same speed. The well proven mechanical interlock concept prevents the coupler from opening even in the event of complete hydraulic failure. Also the SVT Hydraulic QCDC Classic is positioned above the last swivel joint. The coupler can still be dismantled from the flange but needs only a slightly larger space than a manual coupler.



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Transfer complete