

Handling

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The operational method of the E+S Bow coupling system is quite different from conventional systems. The design allows the connection to be made even under high tensile forces. This means, that the floating pipeline and the ship will be aligned by the connection forces. A guide roller will be pushed down by a hydraulic rod to the lower edge of the connecting pocket. At this stage, the connector will be hoisted until it is settled below the pocket. An adjustable pressure release valve will be opened by an electric switch and the rod of the fair lead will be pushed back by hoisting the connector right into the pocket.

At the upper position, the connector will be secured by two hydraulically operated lock bolts. The sealing of the unit will be executed by means of a pressure-activated sealing, which is inserted within the connector.

To release the unit, the lock bolts will be released and the coupling part will be dropped out of the pocket (if required, it might be pushed down by the hydraulic rod of the fair lead).

Additionally, there is the option to insert a rainbow-pipe (fixed or steerable) into the coupling pocket, if required.

As another option, the coupling without fair lead can be used as a quick disconnect/connector to the floating lines of cutter suction dredges, if these should have to leave the operating area in case of bad weather conditions a. s. o.. Compared to the handling of a ball-joint, it will be much easier to connect or disconnect this unit, even under worst weather conditions.

Bow Coupling Package

