Hydraulic Release Shackles

**Application:** For remote operation when manual unhooking of the load is not possible, safe or practical

**Features & Benefits**
- Subsea structure/pile installation and recovery
- Provides safe working environment for personnel
- Saves significant time during lifting and handling operations
- Various release options easily accommodated
- Supplied with Green Pin Sling Saver Shackle

**Technical Specifications**
- Maximum Vertical Lift (SWL): 55t – 1,500t
- Working Pressure: 205bar
- Service Temperature: 0°C to +45°C

**Certificates & Documentation**
- Designed to DNV Standards
- Lift equipment compliance certification
- Overload, Magnetic Particle Inspection, Ultrasonic Test Certificates where required, third party witnessed.
- Operations Manual
- Interface GA drawings
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Actuation Options

The following actuation methods are available in our systems as a primary or secondary method of operation.

► **Hydraulic Umbilical** – Standard actuation method, simple and effective.

► **Hotstab Interface** – A female hotstab interface to allow for full WROV actuation. Ideal for use in subsea environments.

► **Accumulator** – A pre-charged accumulator provides an efficient primary or secondary actuation method.

► **Radio Control** – Full electronic remote control allows for safer operation on topside applications.

► **Hydro-Acoustic Control** – Similar to that of the electronic remote control, only communications are via hydro-acoustic technology for subsea remote operation.

Other Additions/Capabilities

► **Shackle type** - Other shackle types can be accommodated should you have any specific requirement.

► **Hydraulic power unit and hose reel** – built specifically to operate hydraulic release shackles that are powered by a hydraulic umbilical.

► Any **additional rigging** for loading and unloading, general handling or for stabilising the actuator unit can be provided if required.
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Track Record

► **2014** Wheatstone Project, Technip – Supply of 24 Hydraulic Release Shackles with various power and control systems, ranging from 200t – 400t capacity.

► **2014** Sapinoha Norte Project, Saipem – Supply of 15 standard and bespoke Hydraulic Release Shackle complete with ancillaries, ranging from 300t – 800t capacity.

► **2014** Industrial Park, Denmark – Supply of a 1000t Hydraulic Release Shackle, operated by an on-board, battery powered HPU. Control of the unit via an RC system with 300m range.


► **2013** Aquaterra Energy – Supply of 2 600t Hydraulic Release Shackles to Malaysia.

► **2009 – 2013** Rental of numerous Hydraulic Release Shackles to installation contractors, all units complete with HPU + Hose Reel.