

## Electro-Hydraulic Deck Hatch with flush coaming and HPU

### General

The electro-hydraulic operated hatches is a compact weatertight hatch. It is supplied as a completely finished and tested unit, ready for welding on deck. It combines the well-known proven mechanical design of the hatch with a standardized hydraulic HPU and electrical system. Available in a range of sizes and options.

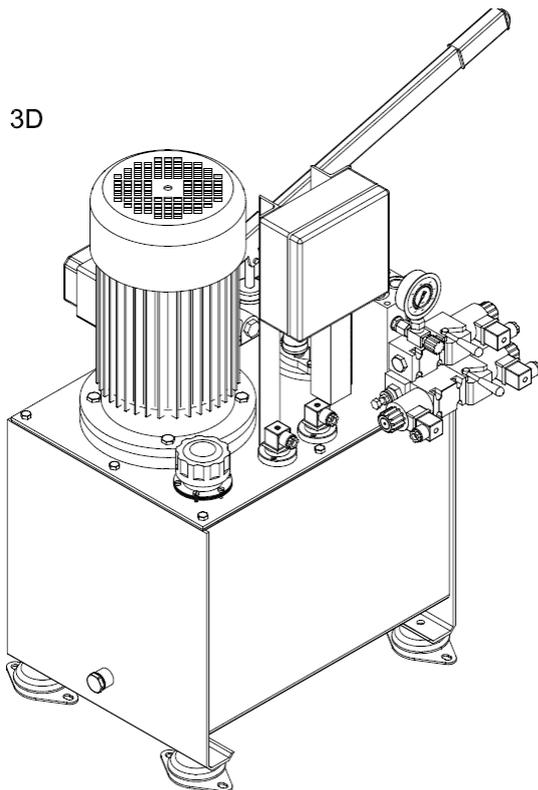
The design and manufacture of is in compliance with the IMO/SOLAS safety regulations for to fulfil the watertight or wethertight integrity of the vessel

### Description/ operation & control

The hatch is supplied with an individual compact HPU which means that the power pack, valve block, hand pump and control box are pre-mounted on a skid frame. The HPU has an independent electric-hydraulic system with one power source consisting of a motor and pump capable of closing or opening the hatch between 60-120 seconds.



3D



### Normal local operation

Local power operation by push buttons for closing and opening. "hatch open" as well as "hatch close" is active operated which means that the operation of the hatch will stop after the release of push buttons. The motor is only running while push button is operated.



### Emergency local operation

Emergency operation by a hand pump operable on the HPU, to allow closing and opening.

### Alarm/indication signals

Locally there are two audible alarm (sounder) combined with a visual alarm (flash light). At the HPU a visual indication (red/green lights) is present. Potential free contact are available on the HPU for wheelhouse panel indication for open/close indication and alarm signalling to SMS (general alarm / open/close indication).

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**/// Specifications**

**Available sizes**

Clear opening Min: 1000mm ; max. 4000mm ; flush coaming

**Material**

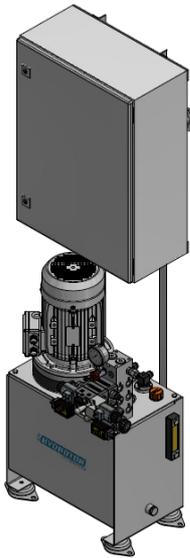
Coaming and cover: Steel Grade A  
All Axles and bushes: Stainless steel 316

**Water pressure**

Weathertight

**Hydraulic system**

75L tank combined with 4 kW e-motor with gear pump. Local hand pump. Valve block with integrated control lever operable.



**Cylinders**

Two steel (2) cylinders for operating the hatch open/close; including brake valves.  
One steel (2) cylinder for operating the internal cleating system; including brake valve.



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**Electrical system**

RAL 7032 e-box with local control and indication system. IP 68 position indicators open/closed.  
IP 66 sounder/flash light. Power supply: 400 VAC, 3ph, 50Hz or 440 VAC, 3ph, 60Hz for pump motor: 24 VDC for control and indication system.

**Alarm indication**

Alarm indication by 2 sounders/flashlights.

**Surface treatment**

See paint specification

**Installation, operation and maintenance manual**

Two (2) hard copy in English language.  
One (1) CD-Rom in English language.

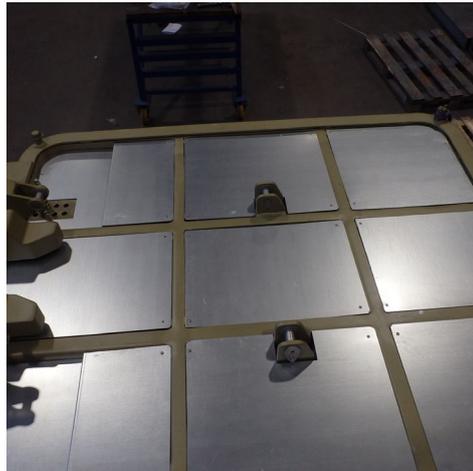
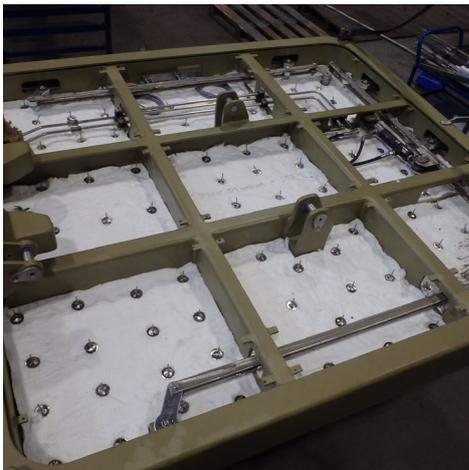
**General arrangement drawings**

See GA drawings

**Options**

**A60 insulation**

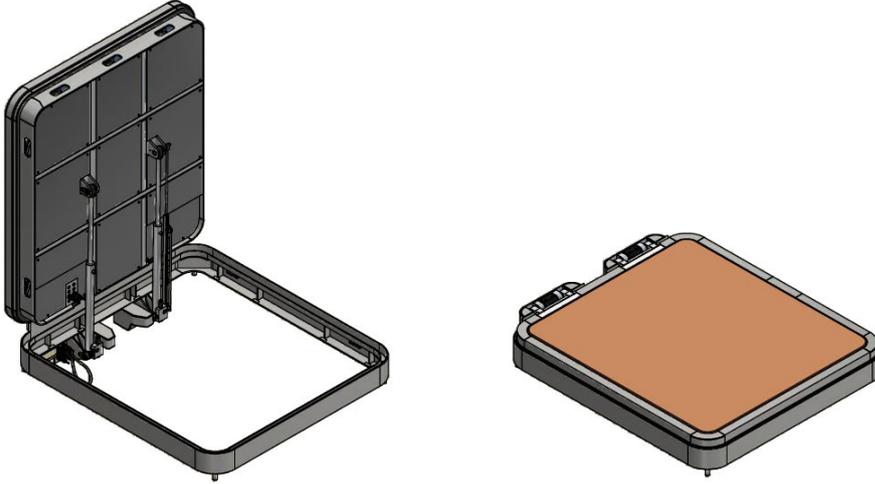
The hatch blade is insulated with MED approved A60 insulation material for steel deck; single side; A60. Insulation will be covered by a galvanised plate. Please note that the hatch is not a A60 MED certified hatch.



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**Prepared for Wood covering**

The hatch blade is equipped with a recess to accommodate teak covering on the hatch blade. Please note that supply and installation of wood/teak is to be arranged by yard.



**Drip tray in stead of HPU**

A drip tray is supplied including a valve block which can be connected to the centralised HPU system of the vessel.

