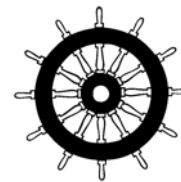




SPECIFICATION GRAVITY PIVOTING DAVIT PBR Series



1. General

The NED-DECK MARINE gravity pivoting davits have been designed for long time operation under adverse and extreme conditions in a highly corrosive marine environment. The gravity pivoting davits of the PBR series are so-called “plug-in and play units” all guaranteeing easy installation on board.

The PBR davit is a freestanding deck mounted davit consisting of a base frame, davit arm and a winch.

The system is suitable for safe and efficient launching and recovery of a fully manned liferaft against unfavourable conditions of trim of up to 10 degrees and a list of up to 20 degrees either way.

Pivoting out the davit arm is realised by means of gravity. The correct outboard position will be achieved automatically which will save valuable time as it will only take a couple of seconds before the first liferaft can be inflated.

The PBR davit has been provided with a locking device in order to secure the davit arm in 3 different positions, i.e.: In stowed position, in 20° list low side position and in full outboard position.

After embarking, the liferaft can be lowered to the water level. The lowering procedure can be controlled in two ways, either by means of a remote control pull wire from within the liferaft or by lifting the brake handle of the winch directly. Lowering is realised by means of gravity.

Recovery of the empty hook is realised manually by using the crank handle of the winch. Dependent on the lowering height and the number of liferafts, the winch can be equipped with a so-called “quick-return unit” for easy and fast retrieval of the empty hook.

Since the safe working load and outreach of the davit are normally determined by the size of the liferaft, NED-DECK MARINE have chosen for a limited range of standard designs which can be adapted to some extent in order to meet individual and specific needs.

The PBR series meets the latest IMO/SOLAS requirements and LSA Code as well as the European Council Directive 96/98 EC on Marine Equipment (M.E.D.).

2. Main Components:

Base frame

The base frame is a welded steel construction, built up from hollow sections and steel plates to a stiff rigid frame in order to transfer the system forces to the deck structure.

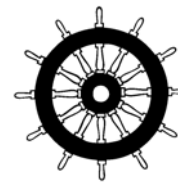
Each frame is provided with all necessary provisions for fastening the winch and relevant accessories.

Davit arm

The davit arm is built up of a hollow sections and steel plates and provided with all necessary provisions for fastening of relevant accessories such as sheaves and remote control parts.



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Winch

Each davit will be supplied with a manual driven winch built onto the davit arm. Upon request the davit can be supplied with an electric driven winch for hoisting the empty liferaft (Obligatory in case of NMD requirements).

The winch is a standard item and consists of the following main components;

- Closed gear casing;
- Single winch drum with separate section for remote control wire;
- Speed reducer gear (conventional gear train);
- Centrifugal brake unit for gravity lowering;
- Stop brake of the "dead-man" type;
- Manual cranking gear with safety device;

3. Accessories:

Each davit system will be supplied with the following accessories:

Wire rope

- Galvanised non-rotating steel wire rope provided with thimble at one end and of sufficient length for lowering the life-raft into the water (see data sheet);

Remote control parts

- Stainless steel remote control wire of sufficient length;
- Handgrip for operating from within the life-raft;
- Remote control sheaves;
- Loose items such as wire rope clips and shackles;

4. Conservation

Unless agreed otherwise, all steelwork will be shot blasted to SA 2,5 and coated with one layer of 2-component epoxy primer of brand **SIGMA**. Dry film thickness 60-80 microns.

This conservation is not suitable for outdoor storage for a long period of time.

5. Optional accessories

The following accessories are to be seen as non-standard but can be supplied optionally:

- Stainless steel automatic release hook (off-load type);
- Quick-return unit and jockey pulley lines for fast retrieval of empty hook.
- Electric execution of winch.