

TECHNICAL DATA- PRM MARINE GEARBOXES

GENERAL DESCRIPTION

All PRM marine gearboxes are built for use between commercial and pleasure applications. They meet or exceed all international standards for design, construction, strength, efficiency and safety. All shafts are polished to all-over 1000 grit finish prior to final treatment, including continuous heat stress and stress. It is available for left-hand or right-hand rotation in "direct" and "reverse" mechanical drive, making PRM gearboxes extremely well suited to twin engine installations.

CONSTRUCTION

The gearbox of the PRM Series is made from heavy duty aluminium alloy, an alloy known for its greatest in performance and low maintenance characteristics for use in the marine environment. It is built to provide extra strength and rigidity, and is protected throughout by a special process.

MOUNTING TECHNIQUE

Options exist to allow PRM installation options are available by fitting standard or special shafts, input transmission to the engine, in- and outboard and shaft angle, installation of bell housing.

There is a specialised shaft flexible drive mounting arrangement also suited to the engine inboard, when an installation is necessary and reference to the shaft angle of engine.

Shafts and couplings are designed as separate units.

INPUT ROTATION

Most marine engines are left-hand and right-hand rotation, including outboard motors on the flywheel from which the propeller and PRM gearbox are normally built for this rotation, although it is also built for right-hand rotation. Some Outboard motors require special timing for outboard through 180°.

SHAFT CONFIGURATION

Options available for PRM gearboxes include shafts which are vertically offset through the input shafts of engines, 90° offset for engine installation, shaft PROOF, TACKLE and PROOF. PROOF and TACKLE are available in 180° configurations, while PROOF, TACKLE and PROOF are also offered with shaft drive, providing shaft angle on the output shaft.

IN LINE



DROP-DOWNS



ANGLE DRIVE



ANGLE OF INSTALLATION

Transmission gear angle line and shaft angle of installation, is 180° (Clockwise) 180°.

NEWAGE

SHARPS TRANSMISSIONS, pt. LTD.

1000 West Street, OYELA, England
Tel: 0442 241111 Fax: 0442 241111
New Zealand Office Tel: 0332 211111



OPERATING SYSTEMS

The above systems will be constructed by hydraulic pressure. All units will be hydrostatically tested and approved by the manufacturer. A full list of parts will be supplied at the time of purchase. The above systems will be constructed by hydraulic pressure. All units will be hydrostatically tested and approved by the manufacturer. A full list of parts will be supplied at the time of purchase. The above systems will be constructed by hydraulic pressure. All units will be hydrostatically tested and approved by the manufacturer. A full list of parts will be supplied at the time of purchase.

The system will function with normal atmospheric pressure and will operate at normal pressure. The system will function with normal atmospheric pressure and will operate at normal pressure.

A complete set of parts is provided to allow any additional items to be added to the system. The system will function with normal atmospheric pressure and will operate at normal pressure.

OPERATING PRESSURE AND OIL CAPACITY

| Capacity | 1000 L | 1500 L | 2000 L | 2500 L | 3000 L | 3500 L | 4000 L | 4500 L | 5000 L | 5500 L | 6000 L | 6500 L | 7000 L |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Pressure | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 |
| Oil | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 |

Maximum operating pressure should be increased by a factor of 1.5 for the application.

| Capacity Pressure | 1000 L | 1500 L | 2000 L | 2500 L | 3000 L | 3500 L | 4000 L | 4500 L | 5000 L |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Oil | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 |
| Pressure | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 |
| Oil | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 |

OIL CHANGE

The normal operating temperature of the oil should be in the 80°C - 120°C range and should not exceed 150°C. The temperature of the oil should be monitored at all times, and to ensure that the oil is at the correct temperature, the oil should be changed at the correct intervals.

The oil of the engine should be changed at the correct intervals. The oil should be changed at the correct intervals. The oil should be changed at the correct intervals. The oil should be changed at the correct intervals. The oil should be changed at the correct intervals.

SAFETY

All electrical systems should comply with the requirements of the manufacturer. All electrical systems should comply with the requirements of the manufacturer. All electrical systems should comply with the requirements of the manufacturer.

A manual safety device should be provided on the control panel. A manual safety device should be provided on the control panel. A manual safety device should be provided on the control panel.

INSTALLATION

The machine should be installed in a well-ventilated area. The machine should be installed in a well-ventilated area. The machine should be installed in a well-ventilated area.

All electrical systems should comply with the requirements of the manufacturer. All electrical systems should comply with the requirements of the manufacturer. All electrical systems should comply with the requirements of the manufacturer.