

ELECTRO-HYDRAULIC THRUSTERS

▶ INTRODUCTION

Thruster is an electro hydraulic device, designed to exert a constant force to any mechanism to be operated.

The Thruster works on a principle of hydraulics. On supply of electric power, motor driven centrifugal impeller draws the oil from the low pressure end of the chamber to the high pressure upper end. The piston mounted on the same shaft moves to the upper end with full thrust, till its movement is stopped by the stopper shoulder at the end of the stroke. Pressure build up stops when power is discontinued. Radial blade design of the impeller enables it to rotate both in clockwise and anticlockwise direction. Therefore power supply to star connection can be in any R-Y-B phase sequence.

▶ SPECIAL FEATURES

- Packaged self contained unit-No external piping and accessories required.
- Self aligned movement
- Rated force available for the entire stroke.
- Compatible for use with any existing or new system.
- Low power consumption
- Moving parts being immersed in oil, No frictional losses.
- Minimum maintenance.

▶ THRUSTER : ST 520 Capacity 18 kg Cast Iron Body

A compact 90watt, 415Volts,50cycles,3phase Electric motor is directly mounted on the top of a piston. The piston is housed in the C.I Tank filled with fluid. The piston moves the fluid from low pressure area to high pressure area. The specially designed impeller which is mounted on the motor shaft produces required fluid pressure.

