



# OCTOPUS

## SELECTION & INSTALLATION GUIDE

Rev. C



### CRA SERIES CONTINUOUS RUNNING PUMPSET

#### A. GENERAL DESCRIPTION:

Octopus CRA continuous running pumps are very reliable quiet and efficient devices which will give you thousands of hours of trouble free service. They are based upon a continuously running D.C. motor driving a gear pump and are used for autopilot drive service on larger yachts and small commercial vessels. They can be used on steering cylinders up to 1000 cc (90 cu in) in volume. For serviceability, the design is based upon modular construction enabling either a motor module or a pump module to be easily changed with no special skills. They also feature a built in motor starter relay, a running light to indicate to the operator that the unit is on, a shut off valve to enable isolation of the pump from the steering system and have no external plumbing. When selecting a flow rate to drive your specific steering cylinder you should aim to operate the rudder from full left hand over to full right hand over in about 15 seconds. Note that the pump is designed to power on and run when the autopilot is powered on, when started up it will only deliver about 80% of rated capacity and use slightly more power. Full rated capacity will be attained about 30 minutes after starting when the pump has warmed up.

#### B. BASIC MODELS

CRA pumpsets are available in any combination of 3 flow rates and 2 voltages. For example in model CRA0212, the first 3 characters signify a CRA pump type, the fourth & fifth characters signify 2 liter/min (0.50 gpm) flow rate and the sixth & seventh characters signify 12 vdc motor and control coils. Other flow rates are 3 liter/min (0.75 gpm) and 4 liter/min (1.00 gpm). Other voltage is 24vdc.

#### B1. BASIC OPTIONS AVAILABLE ON ANY CRA PUMPSET

- I. **PRESSURE GAGE:** A precision gage can be fitted to show steering pressures. Signified by suffix P in model #.
- II. **PRESSURE RELIEF VALVE:** Adjustable from 50 to 1200 g.p.s.i. (4 to 85 bar). Signified by suffix R in model #. The cartridge valve for this option is shipped loosely packaged and a blanking plug is installed in the port. See section G for assembly instructions.

#### B2. SPECIAL OPTION AVAILABLE ON CRA 92 LITRE PUMPSETS ONLY

- I. **FLOW CONTROL:** This feature allows the flow to be adjusted from the maximum of 2000cc/min down to 1300cc/min (0.5 gpm down to 0.3 gpm). Signified by suffix F in model #.

#### C. MECHANICAL INSTALLATION:

Mount the pump anywhere in the vessel where it is close to the tubes connecting the hand steering helm pump to the rudder cylinder. Ideally this should be on a horizontal surface in a clean dry area. The best location is usually in the engine room. There are 4 attachment holes with rubber isolators and brass ferrules in the base plate, use 4 x 1/4 bolts. Be careful to mount the pump with the shut off valve (with 3 brass screws) facing outwards for easy service, and to allow enough clearance above the unit to give access for filling with oil. The unit will generate up to 150 watts of heat, so avoid installing it in a poorly ventilated area.

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# Manual For Octopus Cra Pump

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