

hydraulic constant running pumps



HIGH PERFORMANCE, LOW POWER CONSUMPTION



POWERFUL - Suitable for steering cylinders up to 200cu in (3500cc)

ECONOMICAL - High performance, low power consumption, compact design

FULLY INTEGRATED DESIGN - No complicated external pipes or fittings to break or leak

power & reliability
whenever you need it



hydraulic constant running pumps



SUITABLE FOR SMALL COMMERCIAL VESSELS AND LARGE YACHTS

POWER AND CONTROL - FULLY INTEGRATED

Octopus Constant Running pumps are used in larger, heavy duty hydraulic steering systems where normal reversing pumps cannot be used. The precision pump includes an inbuilt hydraulic fluid reservoir and a tandem center solenoid control valve. Available with AC or DC motors.

PUMP SELECTION

The pump selected must match the size of the vessel's steering ram and the power supply capability of the autopilot must also be considered. For optimum autopilot performance the pump should be able to drive the rudder hardover from lock to lock within 13-15 seconds. The drive flow rate should be approximately four times that of the steering ram volume.

CRA PUMPSETS

- For steering cylinders up to 60cu in (1000cc)
- CRA pumps deliver over 500psi (35 bar) and are very economical, typically drawing under 150 watts
- DC models: 12v, 24v or 32v
- Wide flow range - units available with max flow rates from 0.5gpm (2000 cc/min) up to 1gpm (4,000 cc/min) with adjustable flow control and dual speed options
- As the solenoids only draw 12watts, the pump can be driven directly from the autopilot course computer without a relay, significantly reducing installation costs
- Inbuilt shut off valves mean the pump can be removed for servicing without draining the steering system

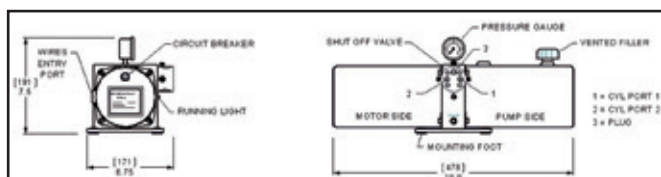
CRB PUMPSETS

- For steering cylinders up to 200cu in (3500cc)
- Available as a simple pump unit, a motor and reservoir combination to replace an engine driven pump or fitted with a direction solenoid valve
- DC models: 12v, 24v or 32v
AC models: 110v or 220v single phase
220v, 460v or 575v three phase
- Wide flow range - units available with max flow rates from 1gpm (4000 cc/min) up to 3.5gpm (13,000 cc/min) with adjustable flow control and dual speed options
- Adjustable pressure relief valve (100 - 1200psi)
- Inbuilt pressure gauge
- Heavy-duty ball bearing electric motors
- Long life mechanical seal between motor and pump instead of a lip seal, which wears a groove in the shaft
- Large capacity reservoir for cool running in all climates

ACCESSORIES



OC17SUK19 Constant Flow Regulator Valve. This regulator valve runs with an engine driven pump, and is usually fitted to commercial boats that require a constant hydraulic flow for use with a steering cylinder for an autopilot. Please refer to our website or contact us for the possible different versions available.

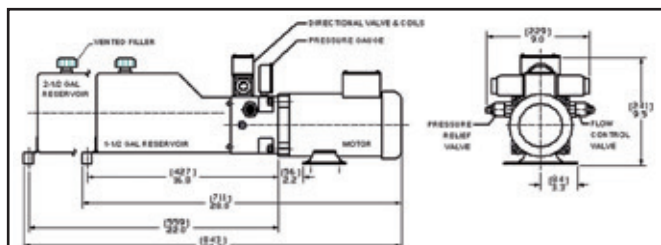


CRA PUMPSET ORDER CODE

CRA FF - VV - P - F - R

Flow (FF)	Voltage (VV)	Options
02 - 2000cc/min (0.50gpm)	12 - 12v DC	P - Pressure Gauge
03 - 3000cc/min (0.75gpm)	24 - 24v DC	F - Flow Control
04 - 4000cc/min (1.00gpm)		R - Relief Valve

eg CRA02-12-F-R = 2000cc/min, 12v with flow control & relief valve



CRB PUMPSET ORDER CODE

CRB FF - VVV - SS - O

Flow (FF)	Voltage (VVV)	Solenoid Voltage (SS)	Options (O)
04 - 4000cc/min (1.00gpm)	12 - 12v DC	12 - 12v DC	A - Basic Unit
06 - 6000cc/min (1.50gpm)	24 - 24v DC	24 - 24v DC	B - Single Speed + Flow Control
08 - 8000cc/min (2.00gpm)	32 - 32v DC	32 - 32v DC	C - Two Speed + Flow Control
10 - 10000cc/min (2.80gpm)	11S - 110/220v AC (Single Phase)	11 - 110v AC	
13 - 13000cc/min (3.50gpm)	22T - 220/440/575v AC (Three Phase)	22 - 220v AC	

eg CRB06-11S-22-C = 6000cc/min, 110/220v single phase with 220v AC solenoid, two speed with flow control