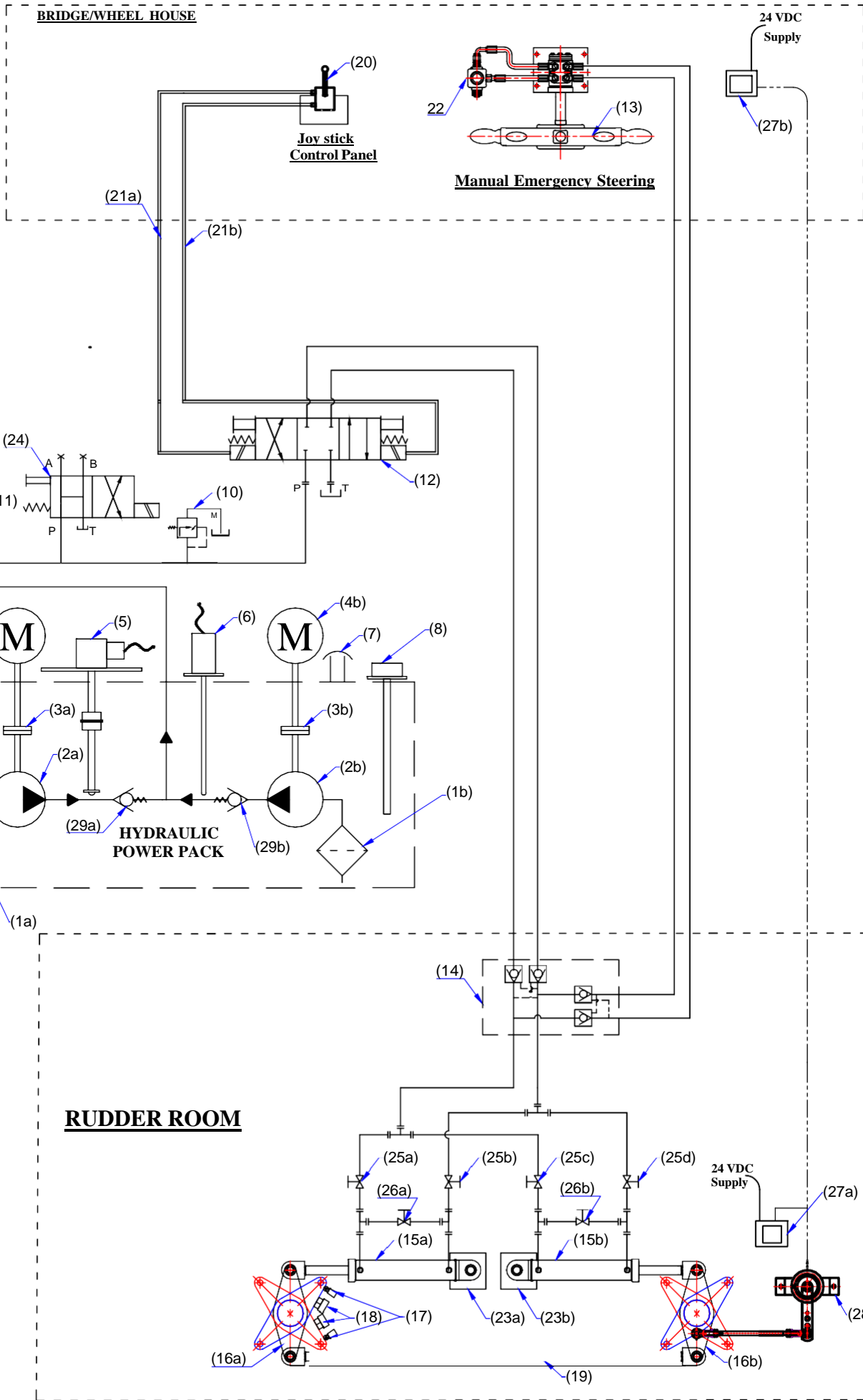


Electro-Hyd. Circuit - JumboZ-1500



**MAC ♦ N ♦ HOM SYSTEMS
KOCHI - 20**

DESIGNATION

Electro-Hydro. Circuit of JumboZ-1500E-
Joystick-twin Motor-Emergency

DWG. No.

MHS-1836
(Page 1 of 2)

DATE

02.08.2023

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ELECTRO-HYDRAULIC CIRCUIT SYSTEM PARAMETERS

1) Pump Capacity:

Discharge : 12 lpm
Max. Pressure : 200 kg/cm²

2) Hydraulic Cylinder

Operating Pressure : 70 kg/cm²
Relief Valve Set Press : 87.5 kg/cm²

3) Helm Steering Wheel

Diameter : 686 mm (27")

4) Hydraulic Cylinder

Model : JumboZ-1500
Stroke : 440 mm
Ram : 45 mm x 2

5) Hydraulic Hose:

Grade : R1
I.D : 1/2"

6) Electric Motor

5 HP, 50 Hz, 1440 rpm, 3Phase

7) Emergency Helm Pump

Discharge : 100 cc/rev

8) Seamless Steel Tube

Material : Carbon Steel,
Cold Drawn, Normalised
& Pickled Tube
Specification : EN 10305-4
Diameter : 16 mm
Thickness : 2 mm

SI No.	Description
1a,1b.	Suction Strainer
2a,2b.	Hydraulic Pump
3a,3b.	Flexible Coupling
4a,4b.	Electric Motor
5	Oil Level Sensor
6	Oil Temp. Sensor
7	Filler Breather
8	Dip Stick
9	Pressure Gauge
10	Pr.Relief Valve
11	Pre.Switch.Low Pre.Alram
12	Sol.Ope.Directionl Valve
13	Emergency Steering
14	Pilot Operated Double Check Valve
15a,15b	Hyd. Actuator - JumboZ 1500
16a,16b	Tiller Arm
17	Limit Switch
18	Mechanical Stopper (Yard Supply)
19	Connection Rod(Yard Supply)
20	Joystick Control Panel
21a,21b	Ele.Line to Sol.Ope.Valve
22	Reservoir
23a,23b	Rear End Brackets
24	Unloading Valve
25a,25b 25c,25d	Isolation Valve
26a,26b	By-Pass Valve
27a,27b	Rudder Angle Indicator
28	Rudder Angle Sensor
29a,29b	Non-Return Valve

MAC ♦ N ♦ HOM SYSTEMS KOCHI - 20				DESIGNATION		DWG. No.	
				Electro-Hydro. Circuit JumboZ-1500E --Joystick-Twin Motor		MHS-1836 (Page 2 of 2)	
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