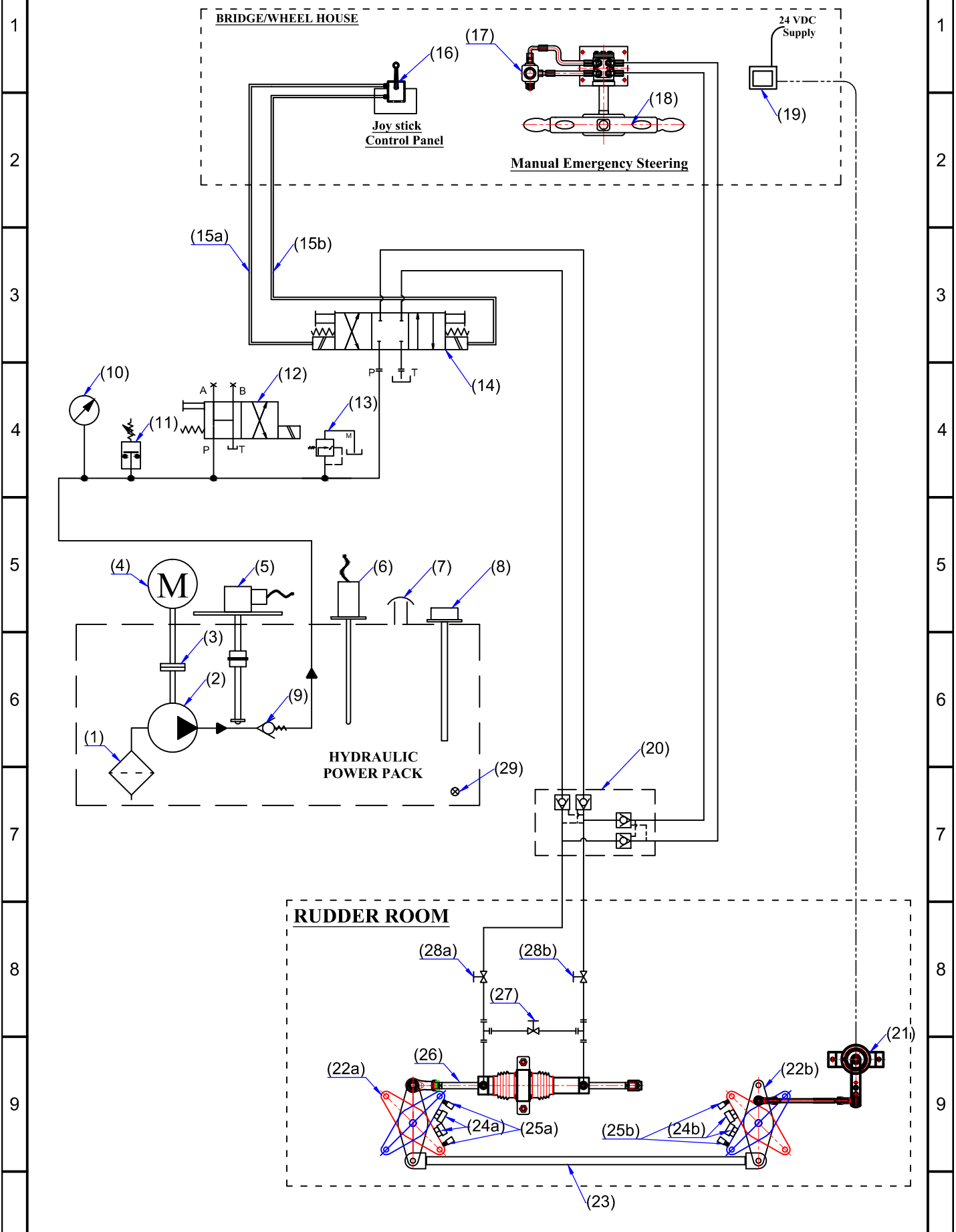


Electro-Hyd. Circuit - HERCULES-IRS



MAC ♦ N ♦ HOM SYSTEMS
KOCHI - 20

DESIGNATION

Electro - Hydro. Circuit of Hercule
Joystick - Single Motor-Emergency

DWG. No.

MHS-4153
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ELECTRO-HYDRAULIC CIRCUIT SYSTEM PARAMETERS

1) Pump Capacity:

Discharge : 3 lpm
Max. Pressure : 200 kg/cm²

2) Hydraulic Cylinder

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

3) Helm Steering Wheel

Diameter : 686 mm (27")

4) Hydraulic Cylinder

Model : Helcules - IRS
Stroke : 260 mm
Ram : 40 mm

5) Hydraulic Hose:

Grade : R1
I.D : $\frac{1}{2}$ "

6) Electric Motor

1 HP, 50 Hz, 1440 rpm, 3Phase

7) Emergency Helm Pump

Discharge : 80 cc/rev

8) Seamless Steel Tube

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

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



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