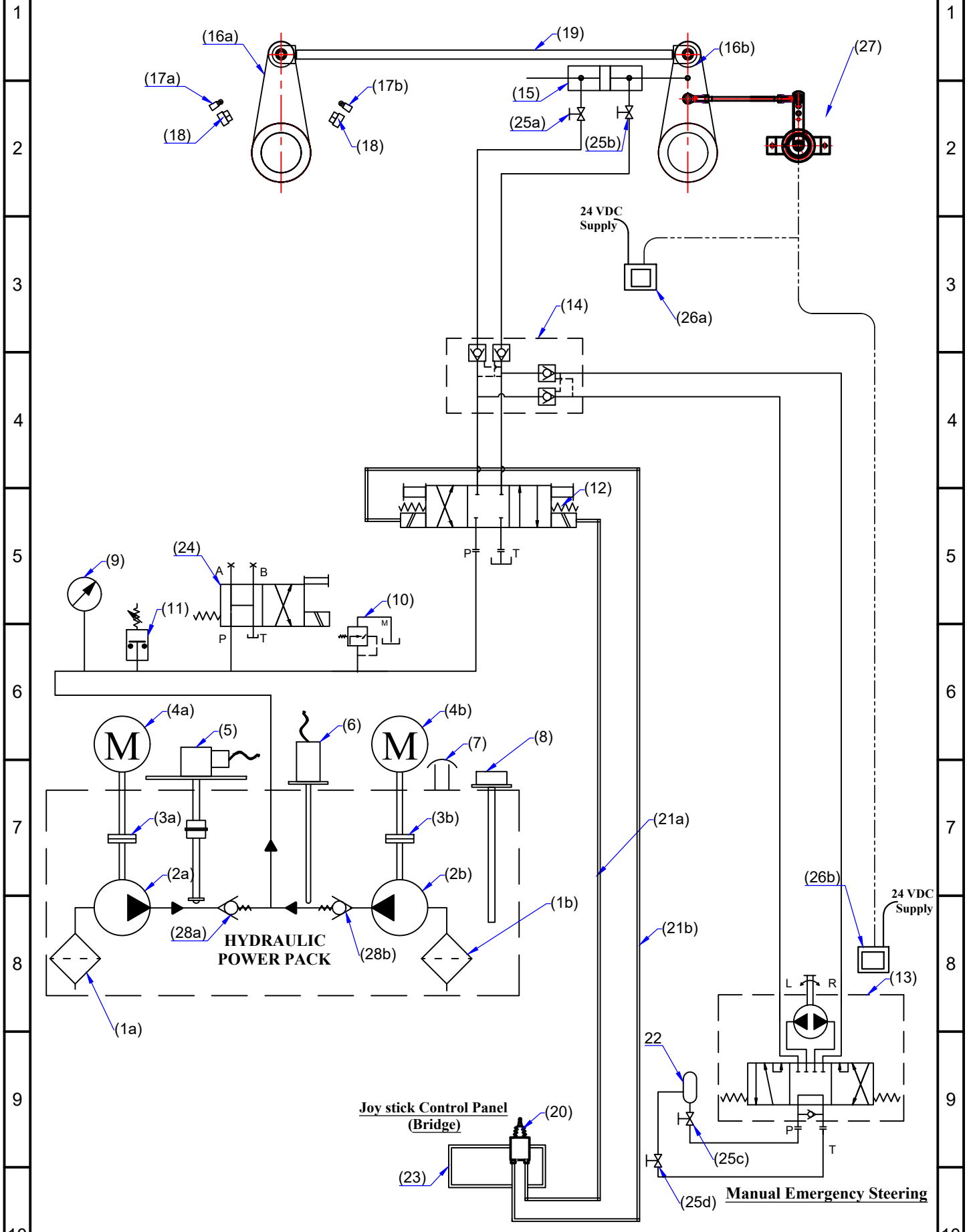



Electro-Hyd. Circuit - HERCULES



	MAC ♦ N ♦ HOM SYSTEMS KOCHI - 20			DESIGNATION Electro-Hydro. Circuit Twin Rudder with Emer.Steering - HERCULES-E	DWG. No. MHS-1878 (Page 1 of 2)	DATE 10.01.2023
A	B	C	D	E	F	G

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) Seamless Steel Tube

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

5) Hydraulic Cylinder

Model : HERCULES
Stroke : 260 mm
Ram : 40 mm

6) Hydraulic Hose:

Grade : R1
I.D : 1/2"

7) Electric Motor

1 HP, 50 Hz, 1440 rpm, 3Phase

8) Emergency Helm Pump

Discharge : 80 cc/rev

Sl 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.Alam
12	Sol.Ope.Directiona Valve
13	Emergency Manual Pump
14	Pilot Operated Double Check Valve
15	Hyd. Actuator - HERCULES
16a,16b	Tiller Arm (Yard Supply)
17a,17b	Limit Switch
18	Mechanical Stopper (Yard Supply)
19	Connection Rod (Yard Supply)
20	Joy Stick
21a,21b	Ele.Line to Sol.Ope.Valve
22	Reservoir
23	Steering Gear Control Panel
24	Unloading Valve
25a,25b, 25c,25d	Isolation Valve
26a,26b	Rudder Angle Indicator
27	Rudder Angle Sensor
28a,28b	Non-Return Valve



MAC ♦ N ♦ HOM SYSTEMS
KOCHI - 20

DESIGNATION

Electro-Hydro. Circuit HERcules-E

DWG. No.

MHS-1878
(Page 2 of 2)

DATE

15.12.2023

A

B

C

D

E

F

G

H