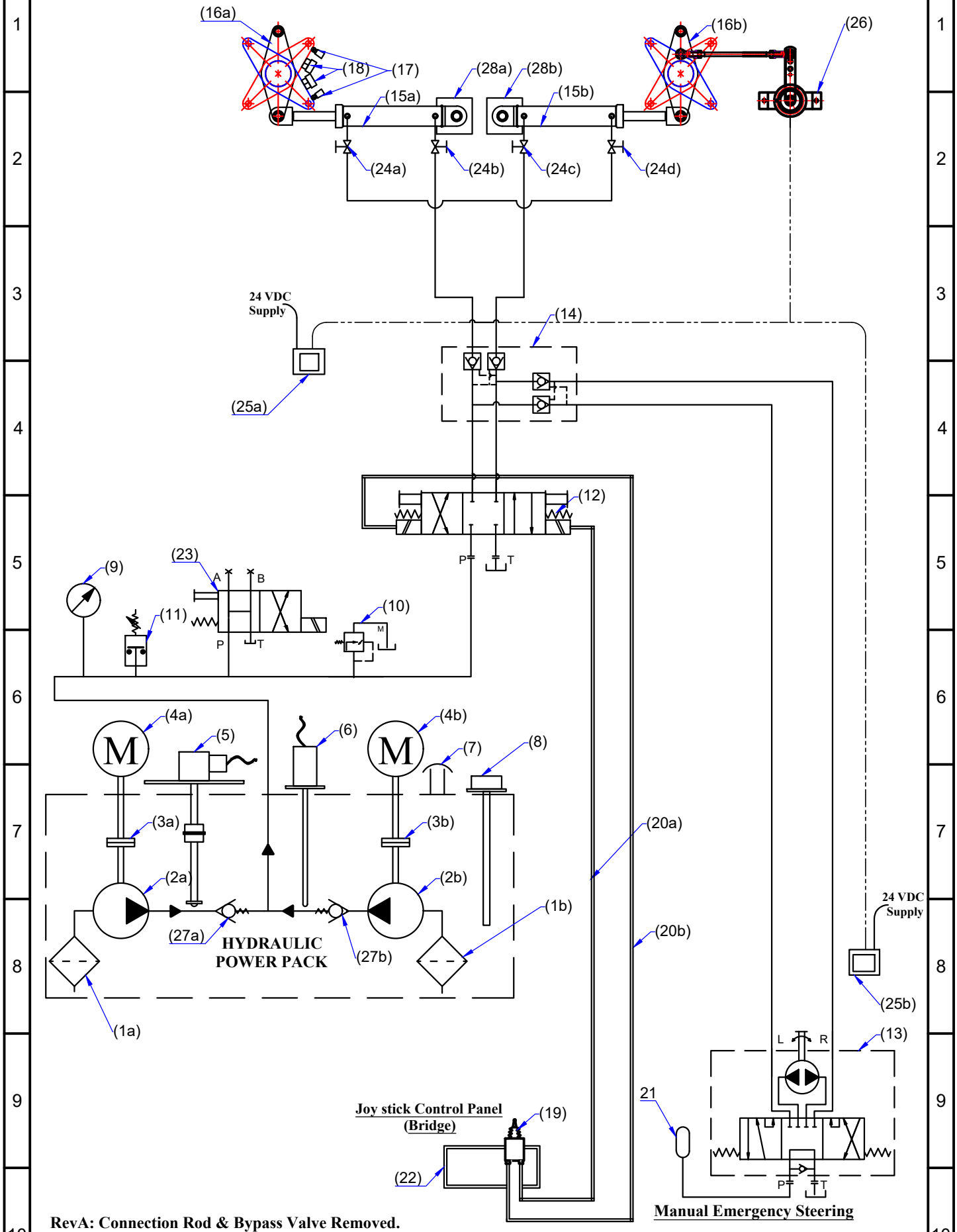



# Electro-Hyd. Circuit - JumboZ-500



RevA: Connection Rod & Bypass Valve Removed.

	<b>MAC ♦ N ♦ HOM SYSTEMS</b> <b>KOCHI - 20</b>	<b>DESIGNATION</b> Electro-Hydro. Circuit Twin Rudder with Emer.Steering - JumboZ-500E	<b>DWG. No.</b> MHS-1835A (Page 1 of 2)	<b>DATE</b> 02.05.2023			
A	B	C	D	E	F	G	H

# ELECTRO-HYDRAULIC CIRCUIT SYSTEM PARAMETERS

**1) Pump Capacity:**

**Discharge : 3 lpm**  
**Max. Pressure : 200 kg/cm<sup>2</sup>**

**2) Hydraulic Cylinder**

**Operating Pressure : 70 kg/cm<sup>2</sup>**  
**Relief Valve Set Pressure : 87.5 kg/cm<sup>2</sup>**

**3) Helm Steering Wheel**

**Diameter : 686 mm ( 27")**

**4) Hydraulic Cylinder**

**Model : JumboZ-500**  
**Stroke : 440 mm**  
**Ram : 40 mm x 2**

**5) Hydraulic Hose:**

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

**6) Electric Motor**

**2 HP, 50 Hz, 1440 rpm, 3Phase**

**7) 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.Alar
12	Sol.Ope.Directiona
13	Emergency Manual Pump
14	Pilot Operated Double Check Valve
15a,15b	Hyd. Actuator - JumboZ 500
16a,16b	Tiller Arm
17	Limit Switch
18	Mechanical Stopper ( Yard Supply )
19	Joy Stick
20a,20b	Ele.Line to Sol.Ope.Valve
21	Reservoir
22	Steering Gear Control Panel
23	Unloading Valve
24a,24b	Isolation Valve
24c,24d	
25a,25b	Rudder Angle Indicator
26	Rudder Angle Sensor
27a,27b	Non-Return Valve
28a,28b	Rear End Bracket

RevA: Connection Rod & Bypass Valve Removed.



**MAC ♦ N ♦ HOM SYSTEMS**  
**KOCHI - 20**

**DESIGNATION**

Electro-Hydro. Circuit Twin Rudder  
with Emer.Steering - JumboZ-500E

**DWG. No.**

MHS-1835A  
(Page 2 of 2)

**DATE**

02.05.2023

A

B

C

D

E

F

G

H