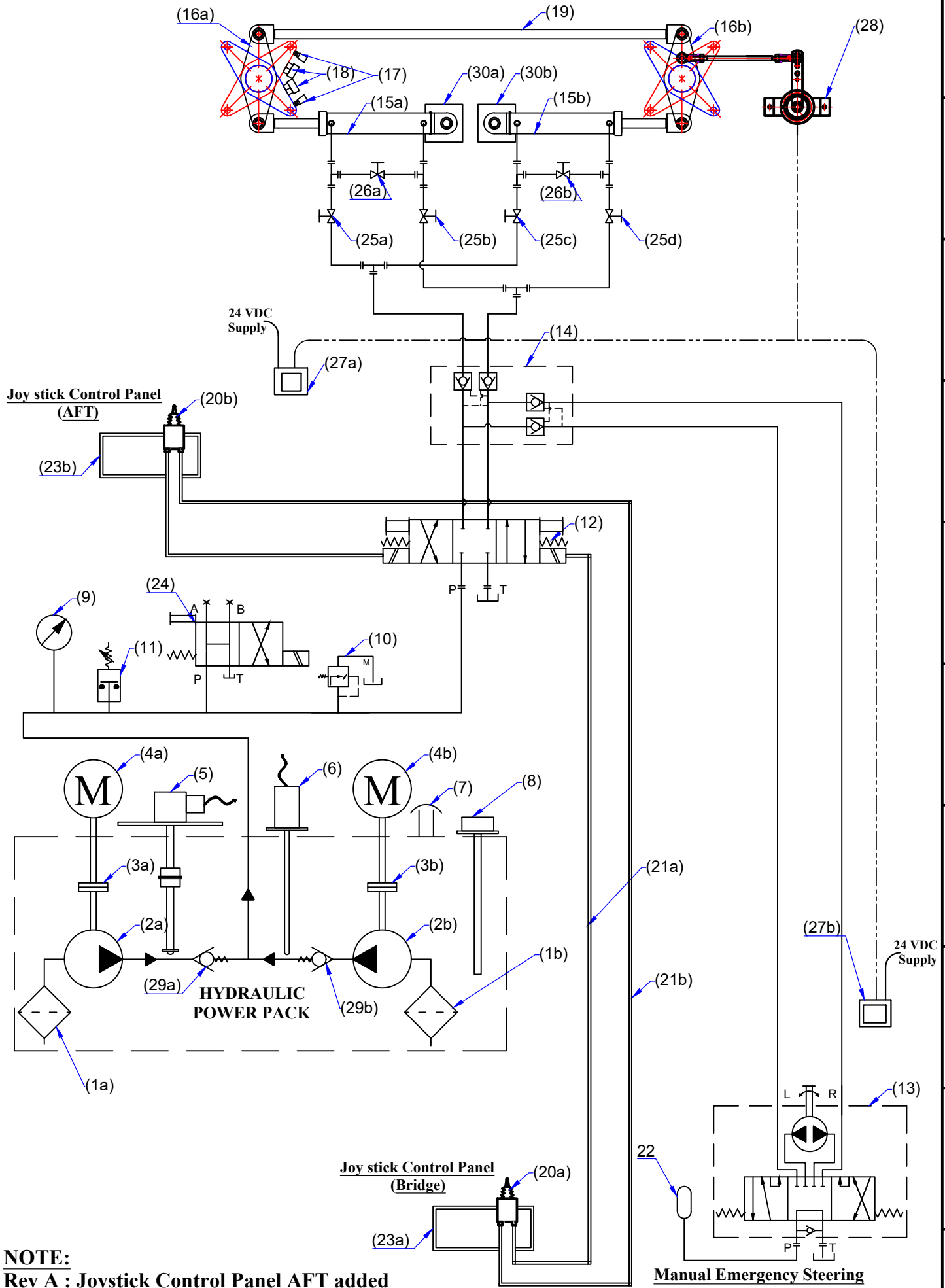



# Electro-Hyd. Circuit - JumboZ-2800



**NOTE:**  
Rev A : Joystick Control Panel AFT added

	<b>MAC ♦ N ♦ HOM SYSTEMS</b>			<b>DESIGNATION</b>	<b>DWG. No.</b>	<b>DATE</b>
	<b>KOCHI - 20</b>			Electro-Hydro. Circuit Twin Rudder with Emer.Steering - JumboZ-2800E	MHS-1834A (Page 1 of 2)	02.05.2023
A	B	C	D	E	F	G

# ELECTRO-HYDRAULIC CIRCUIT SYSTEM PARAMETERS

## 1) Pump Capacity:

**Discharge : 12 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) Stainless Steel Tube

**Material : Stainelss Steel**

**Specification : ASTMA 269 TP  
304 Grade**

**Diameter : 16 mm**

**Thickness : 2 mm**

## 5) Hydraulic Cylinder

**Model : JumboZ-2800**

**Stroke : 440 mm**

**Ram : 50 mm x 2**

## 6) Hydraulic Hose:

**Grade : R1**

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

## 7) Electric Motor

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

## 8) Emergency Helm Pump

**Discharge : 100 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.Directionl Valve
13	Emergency Manual Pump
14	Pilot Operated Double Check Valve
15a,15b	Hyd. Actuator - JumboZ 2800
16a,16b	Tiller Arm
17	Limit Switch
18	Mechanical Stopper ( Yard Supply )
19	Connection Rod ( Yard Supply )
20a,20b	Joy Stick
21a,21b	Ele.Line to Sol.Ope.Valve
22	Reservoir
23a,23b	Steering Gear Control Panel
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
30a,30b	Rear End Bracket



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

**DESIGNATION**

Electro-Hydro. Circuit JumboZ-2800

**DWG. No.**

MHS-1834A  
(Page 2 of 2)

**DATE**

02.05.2023

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