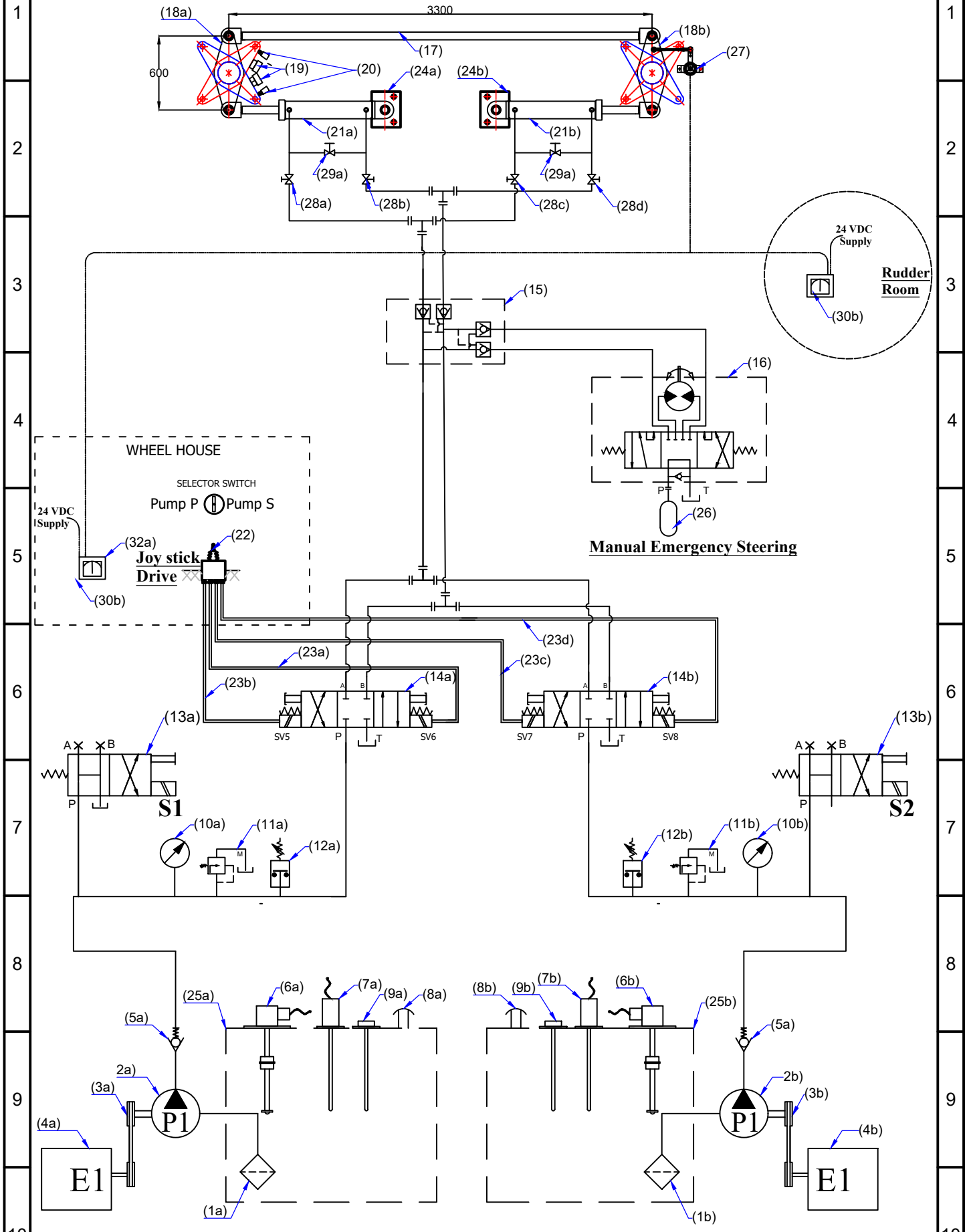



**Electro-Hydro. Circuit - JumboZ -1500E - Twin PTO with Joystick**



	<b>MAC ♦ N ♦ HOM SYSTEMS</b> <b>KOCHI - 20</b>	<b>DESIGNATION</b>		<b>DWG. No.</b>	<b>DATE</b>
		Electro-Hydro. Circuit JumboZ -1500-Twin-PTO		MHS-1879 Sheet 1 of 2	12.01.2024

## Electro-Hyd. Circuit - JumboZ-1500

### System Parameters.

1. System Design Pressure: 90 Kg/cm<sup>2</sup>
2. Working Pressure: 70 Kg/cm<sup>2</sup>
3. Relief valve set Pressure: 87.5 Kg/cm<sup>2</sup>.  
Discharge: 30 lpm
4. Rated Pressure Capacity of Pump:  
207 Kg/cm<sup>2</sup>
5. Pump discharge : 12 lpm
6. Emergency Steering Pump Working  
Pressure: 50 Kg/cm<sup>2</sup>  
Discharge: 80 cc/rev
7. Hydraulic Hose:  
Grade-SAEJ517-100R1AT,  
Bursting Pressure: 640 kg/cm<sup>2</sup>
8. Recommended hydraulic oil & Flash  
Point:  
MAK Hydrol AW 32 (or Equivalent).  
Flash Point: 220 °C
9. Hydraulic Actuator Specifications:  
Model : JumboZ-1500  
Ram Dia. : 45 x 2 mm  
Stroke : 440 mm
10. Tiller Arm Radius : 300 mm

SL. No.	DESCRIPTION
1a,1b	SUCTION STRAINER
2a,2b	HYDRAULIC PUMP
3a,3b	PTO Pulley
4a,4b	Engine
5a,5b	Non- Return Valve
6a,6b	OIL LEVEL SENSOR
7a,7b	OIL TEMP. SENSOR
8a,8b	FILLER BREATHER
9a,9b	Dipstick
10a,10b	PRESSURE GAUGE
11a,11b	PR.RELIEF VALVE
12a,12b	PRE.SWITCH.LOW PRE.ALARM
13a,13b	UNLOADING VALVE
14a,14b	SOL.OPE.DIRECTIONAL VALVE
15	PILOT OPRTD. DOUBLE CHECK VALVE
16	MANUAL PUMP CONNECTION ROD(Customer Supply)
17	
18a,18b	TILLER ARM MECHANICAL STOPPER (customer supply)
19	
20	LIMIT SWITCH
21a,21b	HYD. ACTUATOR - JZ-1500
22	JOY STICK
23a,23b,23c, 23d	ELE.LINE TO SOL.OPE.VALVE
24a,24b.	REAR END BRACKET
25a,25b	Hyd. Powerpack Tank
26	OIL RESERVOIR
27	RUDDER ANGLE SENSOR
28a,28b,28c, 28d	ISOLATION VALVE
29a,29b	BY -PASS Valve
30a,30b	Rudder Angle Indicator



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

**DESIGNATION**

Electro-Hydro. Circuit  
JumboZ -1500-Twin-PTO

**DWG. No.**

MHS-1879  
Sheet 2 of 2

**DATE**

12.01.2024