



Hydraulic Power Unit

Part No. 4500054



Description

This hydraulic power unit is specially designed for clamping application only. Special care is taken to avoid oil heating problem. This hydraulic power unit is suitable to operate double acting clamping cylinders in parallel.

Operation

In clamping & declamping mode, after reaching the set pressure, which is sensed by a pressure switch, direction control valve shifts to the center-position, unloading pump delivery to the tank. In case of pressure drop, the direction control valve operates to increase pressure, to the set pressure.

The system includes all relevant electrical and mechanical accessories. Pendant with clamp unclamp push buttons is provided along with the system.

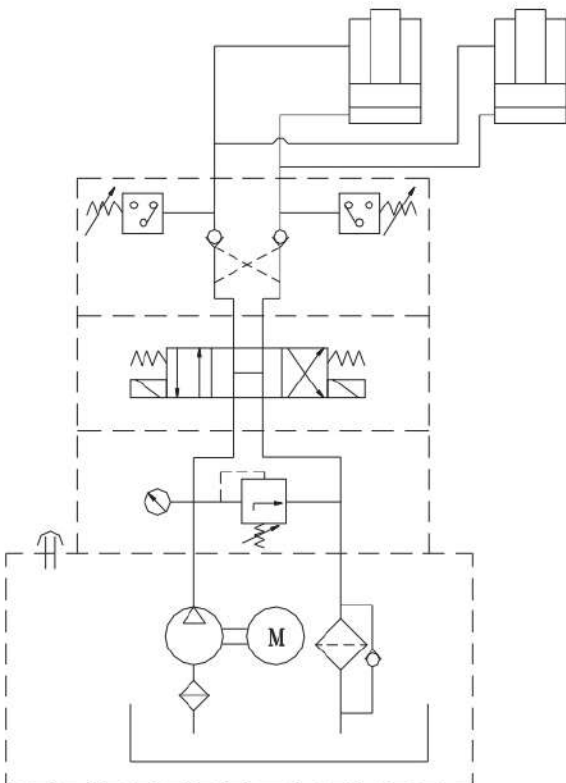
Specifications

- ♦ Motor - 3 phase, 1 hp, 1440 RPM.
- ♦ Pump - Gear pump 1.8 LPM at 1500 rpm.
- ♦ Direction Control Valve - Cetop-3 mounting, 3 position, solenoid operated.
- ♦ Pressure switches- 2 Nos.
- ♦ Pilot operated check valve.
- ♦ Tank capacity - 30 liters approximately
- ♦ Useful oil volume - 25 liters approximately
- ♦ Working pressure - 150 bar
- ♦ Maximum oil pressure - 175 bar
- ♦ Pendant cable length Maximum - 5 meters.
- ♦ Control panel.
- ♦ Length - 730 mm
- ♦ Width - 580 mm
- ♦ Total Height - 850 mm

Note

- ♦ Clamping time in seconds = total oil volume at clamping side of all the cylinders in cc divided by pump output (28 cc per second)
- ♦ Declamping time in seconds = total oil volume at declamping side of all the cylinders in cc divided by pump output (28 cc per second)
- ♦ While using single acting cylinder on Hydraulic power unit make sure that return line have minimum resistance to the flow
- ♦ Special care has taken to avoid electric shocks while designing control panel

Circuit Diagram



Subject to change for improvement

All dimensions are in mm
Overall dimension tolerance ± 0.5 mm