

SVAB Steering valve C/C DATA SHEET

Description

SVAB Steering Valve C/C is designed to be used as an alternative control of machines with conventional orbitrol steering.

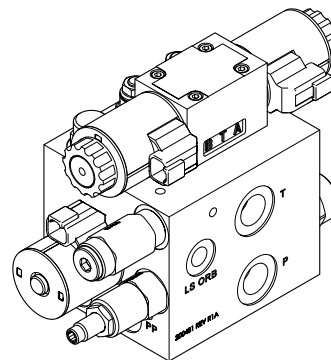
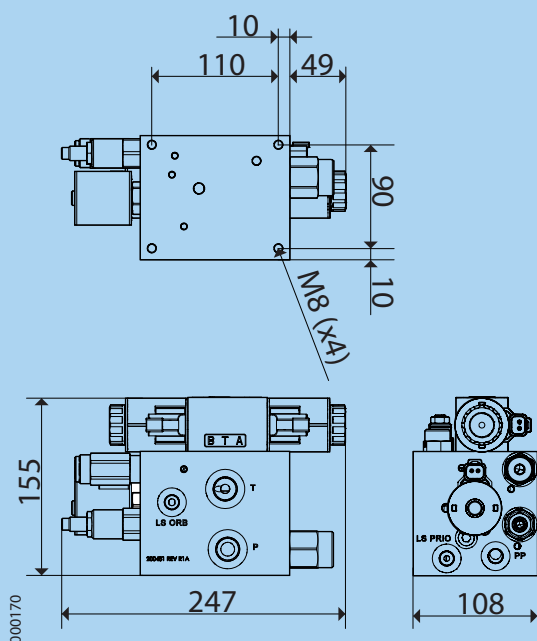
The valve has a built in priority function which means that the machines original steering always is prioritized.

The valve handles both static and dynamic LS.

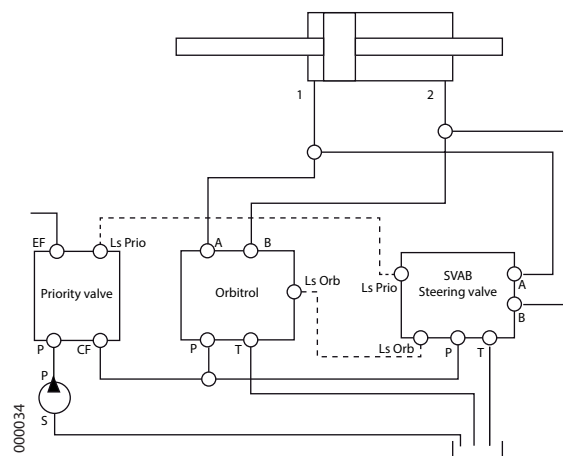
Technical data

| 135003- | 1224 | 1212 |
|-------------------------------|-------|-------|
| Max P bar | 220 | 220 |
| Max Q l/min | 38 | 38 |
| Voltage on directional valve | 24V | 12V |
| Voltage on proportional valve | 12V | 12V |
| Weight | 7,1kg | 7,1kg |

Dimensions



Exemplary connection



Function

The oil entering the P-connection passes the shut-off valve (activated by LS from original steering) and on to a pressure compensated proportional flow valve. At this point the LS signal is delivered to the original steering priority valve. The flow then goes to the electrically controlled directional valve that regulates the oil in the preferred direction. After the directional valve the oil passes through a counterbalance valve to finally end up in the steering cylinder where it generates a motion which affects the steering wheels. The oil that is pressed out on the opposite side of the piston in the control cylinder goes to another counterbalance valve that is closed up to a pressure that is controlled by the pressure on the inlet side of the steering cylinder. Thereafter, the oil passes the directional valve and into the reservoir.

The steering valve has automatic detection of the type of LS which it is connected to. It is important that the connection on the steering valve labeled LS Orb is connected directly to the orbitrol. It is also important that what was previously connected to the orbitrol is connected to the connector labeled LS Prio.

| Name | Authorized | Date | Revision no |
|-----------------------------------|------------|------------|-------------|
| 9002-000084_Datablad Styrventil_B | GUBE | 2014-04-07 | B |

Features and Benefits

- Adjustable priority function for the original steering (shut off).
- Pressure compensated proportionally controlled flow regulation.
- Electrical directional control.
- Variable load balancing function.
- Pressure limitation function.
- Supports both static and dynamic LS.

Flow curve

▲ PWM Current Regulator Recommended

Flow vs. Input Current

