

Valve Q300 for high precision and productivity

Monoblock valve with modular design and anti shock relief valve. Smart in- and outlet sections create high flexibility, wide range of applications and easy installation.

Performance

The load sensing and pressure compensated function of the valves gives excellent control and interaction properties.

Valve Q300 can easily be connected with other valves in the product range and is dimensioned for a pump flow of max. 300 l/min and 150 l/min per section. Max. pump pressure: 45 MPa (450 bar)

Valve sizes

Valve Q300 is available in 2-, 3-, 4-, and 6-sections valve blocks, manually or electrically controlled. In addition there are a number of in- and outlet sections which are adjusted for different types of pumps and hydraulic systems.

Valve spools

The function and properties of the valve Q300 is decided by the valve spools and their designs. Olsbergs have developed a wide range of different types of spools with control and flow grooves which can be combined to achieve the best performance.

Load sensing

The load sensing function continually senses the load pressure level at the cylinder port and controls the pressure level in the pump line.

Pressure compensation and anti shock

The pressure compensator and the load sensing signal give a load independent outgoing flow to the cylinder port. They also ensure that none of the sections are influenced by the pressure levels in the other sections. The anti shock valves limit the pressure level and handles external overload in the cylinders.

Patented mechanical spool position control

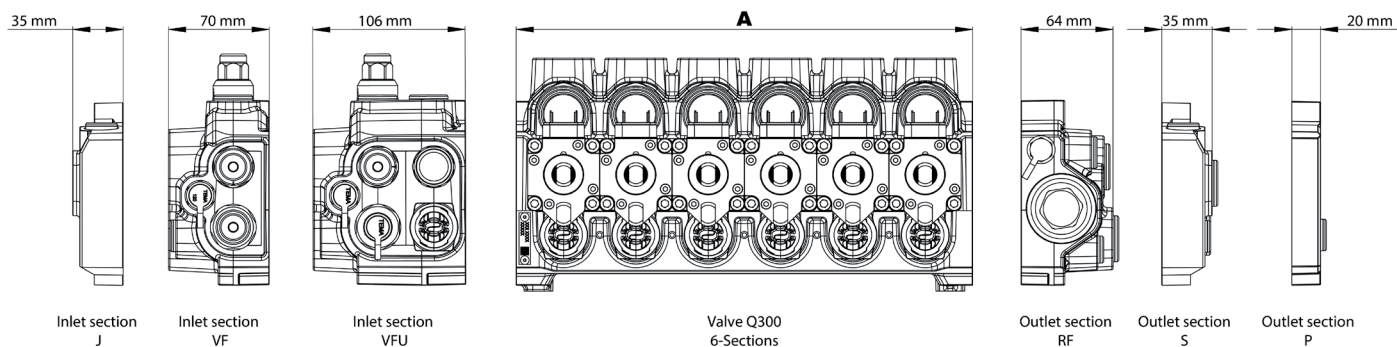
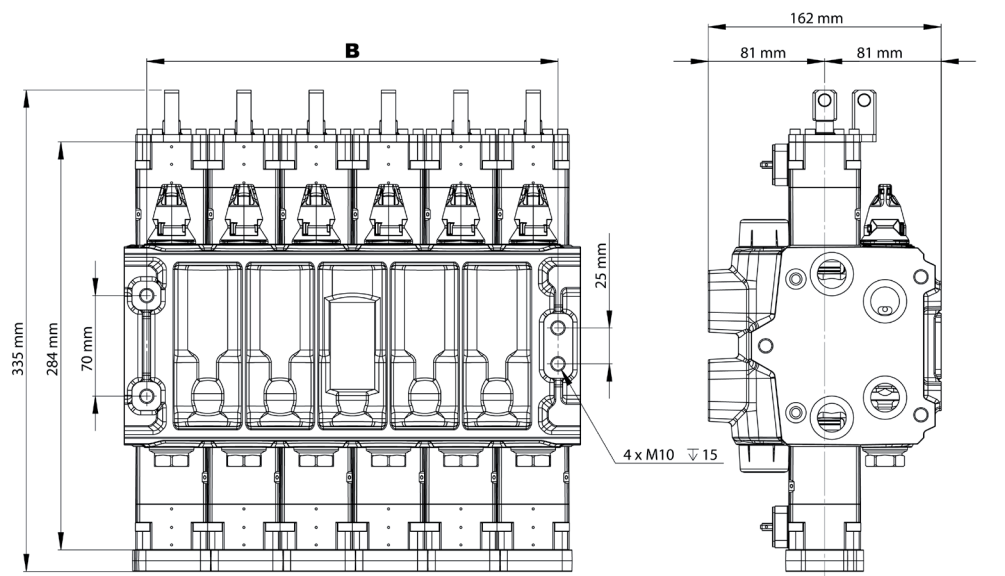
The electrically operated version of the Q300 valve is controlled by electro hydraulic actuators, Olsbergs positioners P8. By using magnetic force together with a servo with mechanical position feedback, the position of the spool is controlled in direct proportion to the current supplied to the solenoid in the positioner. This results in a direct link between the control current and outgoing flow. A link that is independent of load pressure and fluid forces.

Remote control

Valve Q300 can be remote controlled via radio controller or digital joysticks.

Dimensions:

Type	A	B
6-sections	317,5 mm	286 mm
4-sections	216,9 mm	186 mm
3-sections	166,6 mm	136 mm
2-sections	116,3 mm	86 mm



Technical data:

Valve function: Load sensing and pressure compensated valve with shock valve level
 Type: "Closed center"
 Design: Modular 2-, 3-, 4-, 6-, 7- or 8-sections monoblock valve
 Connections: Cylinder ports G3/4"

Flow total: Max. 300 l/min.
 Flow cylinder port: Max. 150 l/min.
 Max. pump pressure: 45,0 MPa (450 bar)

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