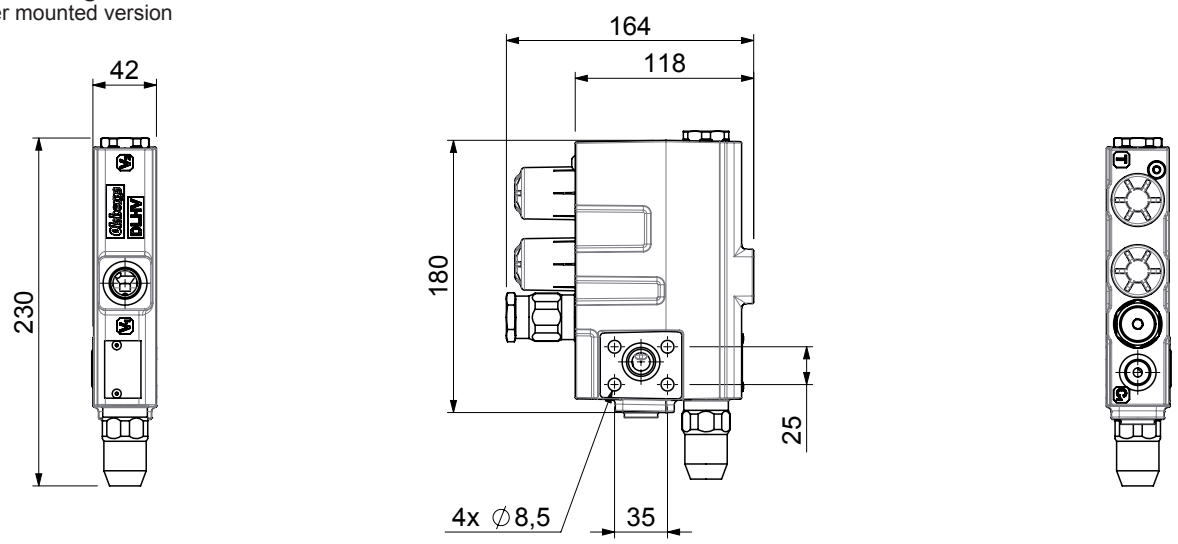
Patented valve solution for secure and non-swinging lowering motion

To provide a secure and non-swinging lowering motion in a crane operation using a load sensing system with traditional load holding valves is a well-known problem. In order to obtain an acceptable lifting function the system must be set in a way that, when lowering the load a very high operating pressure will arise and thus unnecessary energy losses.

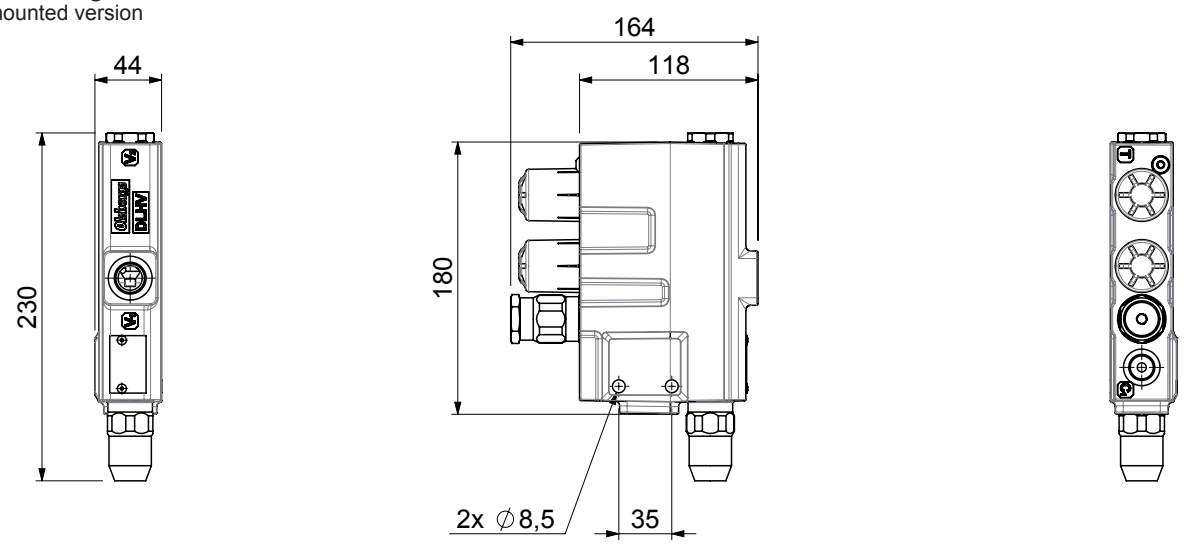
To avoid this problem Olsbergs has developed a patented double acting load holding valve with pressure compensation and integrated shock valves. The load holding valve interacts with the control spool in the main valve. Its unique design provides pressure compensated flow at both lifting and lowering, which makes it possible to perform the lowering movement stable and with precision at a very low operating pressure.

Dimensions:

Load holding valve DLHV-CC
Cylinder mounted version



Load holding valve DLHV-PC
Pipe mounted version



Technical data:

Valve function:	Pressure compensated, pressure controlled check valve with integrated ”shock valves”
Type:	Load holding valve
Versions:	Cylinder or pipe mounted
Connections:	Valve ports G1/2” G3/8”, Cylinder ports G1/2” G3/8”, Tank G3/8”
Flow (from valve):	Max. 100 l/min
Flow (from cylinder):	Max. 100 l/min
Max. pump pressure:	45,0 MPa (450 bar)

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