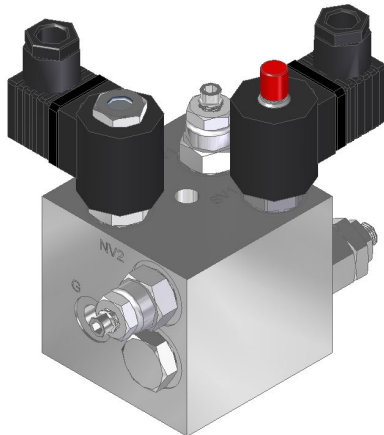
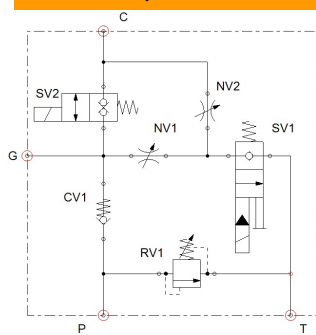


Overview



Symbol



Description

Lift Lower blocks serve as a compact hydraulic system designed to manage single acting cylinders, typically found on stackers and scissor lifts. These blocks provide a comprehensive solution for raising and safely lowering loads while ensuring the protection of the pump, cylinder, and personnel.

Operation

Once the power pack is switched on, the pump flow is directed to the hydraulic cylinders through needle valves, extending them to lift the load in slow speed, for 2nd speed SV2 solenoid coil is energized. When the required height is reached, the power pack and SV2 solenoid coil is switched off and the check and poppet valves together provide a leak-proof hold for the cylinders. To lower the load in one speed, the SV1 solenoid coil is energized, opening the fluid path to the tank and allowing the cylinders to retract. For 2nd speed both SV1 and SV2 solenoid coils are energized. The lowering speed is controlled by the flow control valve.

The SV1 poppet valve with manual override is used to lower the load during a power failure or in an emergency situation.

Note:

This system provides Dual Up/Down Speed.

Features

- Application: for simple, load dependent lift-lowering controls .
e.g. Scissor lifts, Goods Lifts, Small forklifts and Stackers.
- Load dependent lowering of the lifted load via 2/2 solenoid poppet valve with adjustable needle valve.
- LLB manifolds for the lift & lowering are tailored to the varied demands of the lifting technology sector.
- Permitted load is safeguarded by a built-in pressure relief valve.
- Built-in check valve prevents uncontrolled lowering.
- SV1 poppet valve with manual override is provided to lower the load during a power failure or in an emergency situation.

Ratings

Operating Pressure	: 210 Bar
Fluids	: Hydraulic oil – ISO VG32 to 68.
Media operating temp.	: -20°C up to +80°C
Viscosity range	: 10 – 400 mm ² /s is recommended
Filtration	: NAS Class - 10
Material	: Aluminium.

Size	Model Code	Flow Rate (lpm)
020	LLB4-020	20
040	LLB4-040	40
100	LLB4-100	100

Electrical Data – Solenoid Data

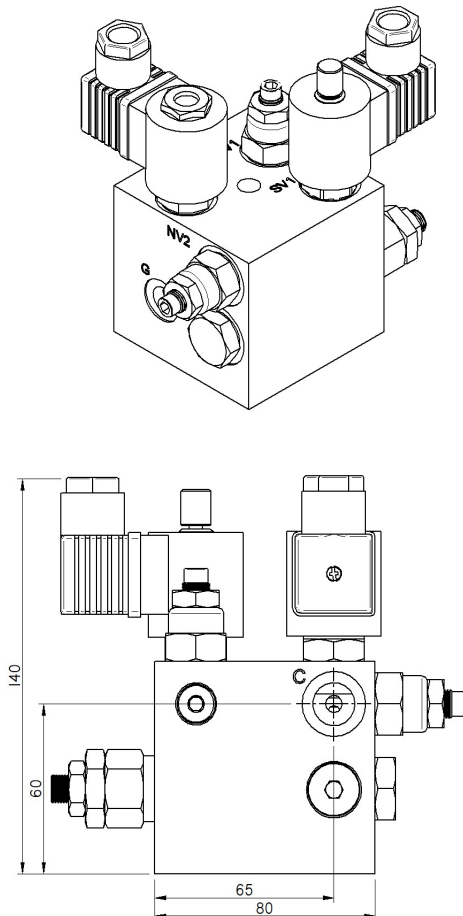
Type of voltage	: 110V AC / 220V AC / 12V DC / 24V DC
Nominal current at 20° C	: 0.8A at 24 V DC, 30 Ohm 0.1A at 230 V AC, 2137 Ohm
Voltage tolerance	: +/- 20 % of nominal voltage

Model Code

LLB4	-	-	-	-
Type	<u>Size</u>	<u>Coil Voltage</u>	<u>Material</u>	
	020	1- 12V DC	A - Aluminium	
	040	2- 24V DC		
	100	3- 110V AC		
		4- 220V AC		

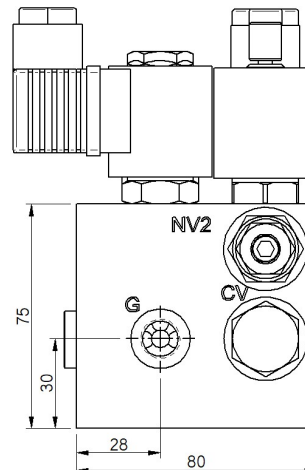
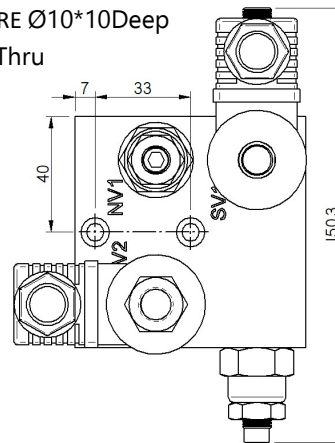
Installation specifications

➤ **LLB4-020**



Mounting Hole- 2Nos

C-BORE Ø10*10Deep
Ø6 *Thru



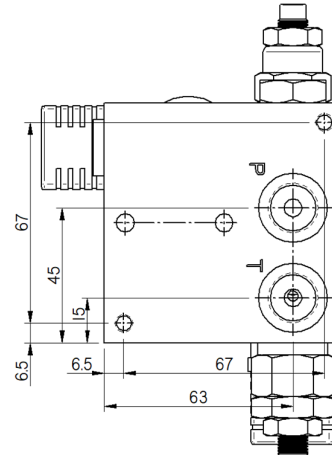
Ports:

- P = Pump line G3/8
- T = Tank line G3/8
- C = Cylinder line G3/8
- G = Gauge line G1/4

Mounting Hole- 2Nos

M6 *12Deep

Ø5 *15Deep



Note: Where measurements are critical request certified drawings. We reserve the right to change specifications without notice.