

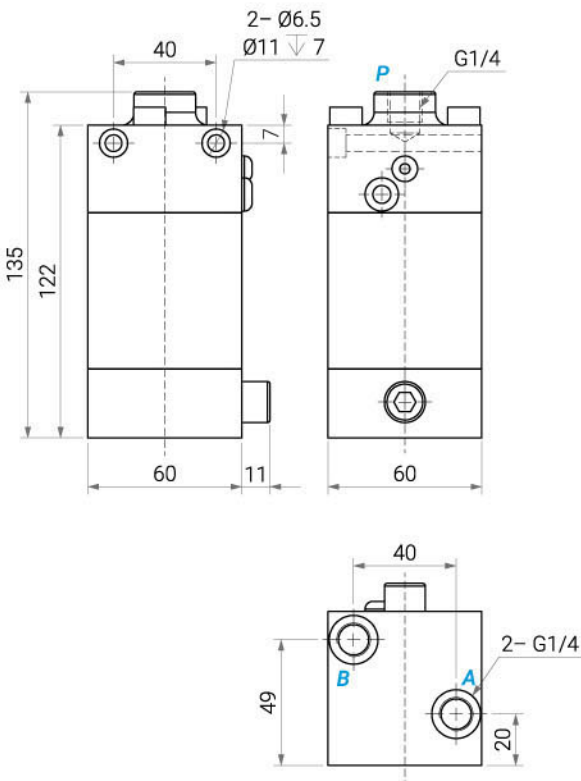
M.B. Hydraulic Booster

Pressure Max: 50 bar

M.B.

Specifications

- A** Boosting.
- B** Pressure relief.
- P** High pressure.



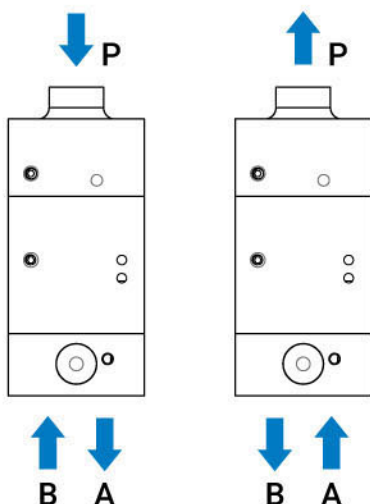
Introduction

- This hydraulic actuated booster operates in a fully automatic mode, providing an infinitely available high-pressure source with a specific boost ratio.
- There are two specifications for the boost ratio: 4X and 7X.
- The product's oil pipe connection points are equipped with stainless steel wire mesh filters to prevent the entry of metal impurities that could cause abnormalities in the product.
- It is essential to maintain the cleanliness of the oil for the oil supply to prolong the product's lifespan.
- When this booster is in operation, it initially opens the internal passages from A to P, allowing the input source to flow directly to the rear clamp fixture. Once the clamp fixture is filled with oil, it closes the passages between A and P. Subsequently, the internal boosting mechanism is engaged to increase the hydraulic pressure to the specified multiple of the pressure value. During pressure release, the oil is pushed through the B orifice to actuate the internal switch, opening the P-A passage, allowing the hydraulic oil inside the clamp fixture to exit through A.

Max. Pressure	Max. Output Pressure
50 bar	Part-No.: M.B.×4 / 4X Booster: 200 bar Part-No.: M.B.×7 / 7X Booster: 350 bar

Action Mode

- A input, B output > P output high pressure oil.
- A output, B input > P reverse oil back to A.



Example

- When a system requires both high-pressure hydraulic cylinders and low-pressure hydraulic cylinders, and there is only a low-pressure hydraulic unit available, an intensifier can be used to convert low pressure to high pressure for supplying the high-pressure cylinders. As shown in the diagram, after oil is introduced into port A of the intensifier, high-pressure oil is output from port P to supply the high-pressure hydraulic cylinder. When pressure needs to be released, the solenoid valve switches, allowing oil to enter port B and open the check valve inside the intensifier, allowing oil to return through port A.

