

# PEX Manual Hydraulic Pump

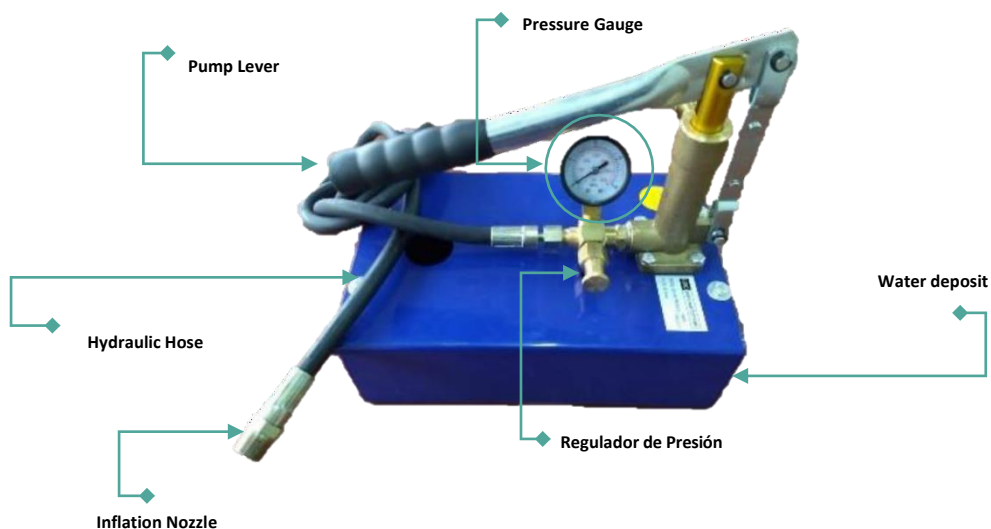
## Product Description

Our manual hydraulic pump is a highly valued accessory in mining operations due to its compact size and lightweight design, making it a versatile and efficient tool that delivers excellent performance with minimal resource requirements. It is commonly used by operators for the inflation or expansion of ground support elements, such as our PEX expandable steel plate.

The pump is capable of generating up to 160 bar of hydraulic pressure, which is more than sufficient for the typical underground support tasks where it is employed.

Our manual hydraulic pump features a steel outer frame with epoxy coating, and an internal bronze mechanism, which ensures durability even under intensive and continuous use.

Among its advantages: it is easy to operate, very lightweight, and equipped with a pressure gauge for proper water pressure control.



## Especificaciones Técnicas del Producto:

Hydraulic pump parameters	
Model	SY-160
Water Tank Capacity (Liters)	5.4
Maximun Pressure gauge reading (Mpa)	16
Weight (Kg)	5.5
Dimensions(mm)	310x310x200

Operating Parameters	
Installation time(min)	3.5-4
Infation pressure (Mpa)	10-12



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## Installation Procedure for the PEX Plate Using the Manual Hydraulic Pump

- ❖ The procedure must be carried out by two operators.
- ❖ Correctly position the support post and the PEX plate against the rock mass where the support is to be installed.
- ❖ Once in place, one person ensures proper alignment and positioning of the post and plate against the rock, while the other connects the pump to the PEX plate.
- ❖ Place the pump on a horizontal surface and fill the water tank to at least 90% of its capacity (4.86 liters).
- ❖ Attach the inflation nozzle of the pump to the PEX plate's non-return valve.
- ❖ Make sure the pressure regulator is closed before starting the pumping.
- ❖ Begin pumping slowly to ensure the assembly locks firmly against the rock mass.
- ❖ Continue pumping until reaching a minimum pressure of 10 MPa (150 psi) and maximum of 12 MPa (180 psi) to ensure proper interaction between the plate, post, and rock mass.
- ❖ Once the required pressure is reached, release the pressure by opening the regulator valve to purge the pump.
- ❖ Disconnect the inflation nozzle from the PEX plate.
- ❖ Refill the pump's water tank.
- ❖ Reconnect the hose to the PEX plate valve.
- ❖ When the pressure gauge on the pump reaches the required pressure, disconnect the hose. The check valve will automatically activate, preventing water from escaping the plate.

## Commercial Presentation

Our Manual Hydraulic Pump is sold as a complete kit.