

## Shut off Valve (Screw-in Cartridge), Sub-plate mounting, Model : MHSLB25-2.0



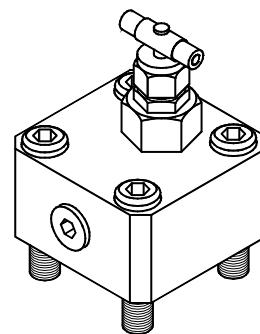
the right connection  
the right environment

Ref. No : H03656, Release March 2018 (Dimensions in mm)

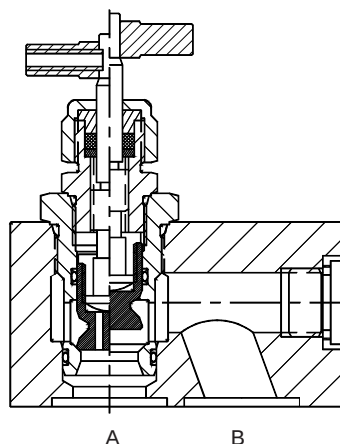
### Description

Shut off valves model MHSLB25-2.0 are seat type valves with replacable cartridge. Balanced sealed poppet construction to reduce operating forces.

Sub - plate mounting construction (Factory standard Interface.)



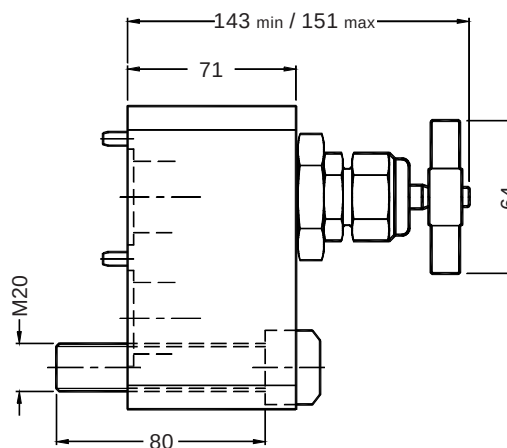
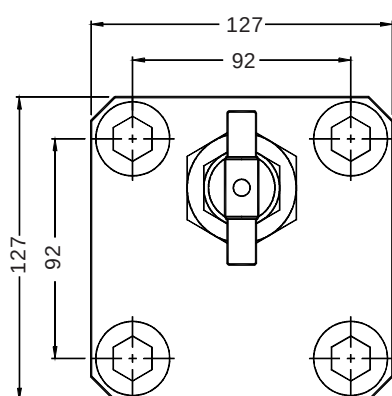
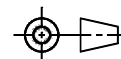
### Section



A  B

Hydraulic Symbol

### Unit Dimensions



Note : Valve fixing screws : M20 x 2.5 x 80 L, ( 10.9 ) 4 nos.

Tightening torque : 312 Nm



Ref. No : H03656, Release March 2018 (Dimensions in mm)

Technical drawing of a mechanical part showing dimensions and hole specifications.

Dimensions (mm):

- Top horizontal distance: 109.5
- Top vertical distance: 92.0
- Left vertical distance: 46.0
- Bottom horizontal distance: 0.0
- Bottom vertical distance: -17.5
- Bottom-most vertical distance: -9.7
- Right vertical distance: 20.6
- Right vertical distance: 46.0
- Right vertical distance: 71.4
- Right vertical distance: 92.0
- Right vertical distance: 109.5

Hole specifications:

- Top-left hole:  $\varnothing 7.5$ , 8 deep, 2 nos.
- Top-right hole: 4 nos., M20 x 2.5 tap, 30 deep.
- Center hole:  $\varnothing 32$  (max)
- Bottom-left hole:  $\varnothing 7.5$ , 8 deep, 2 nos.
- Bottom-right hole:  $\varnothing 7.5$ , 8 deep, 2 nos.

Mounting surface flatness - 0.01μm / 100mm

|                                          |                              |
|------------------------------------------|------------------------------|
| Construction . . . . .                   | Seat type screw in cartridge |
| Mounting type . . . . .                  | Sub-plate mounting type.     |
| Interface . . . . .                      | Factory standard.            |
| Mounting position . . . . .              | Optional                     |
| Flow direction . . . . .                 | From port `A' to port `B'.   |
| Operating pressure . . . . .             | 350 bar.                     |
| Hydraulic medium . . . . .               | Mineral oil.                 |
| Viscosity range . . . . .                | 10 cSt to 380 cSt.           |
| Fluid temperature range . . . . .        | -20 °C to +80 °C.            |
| Fluid cleanliness requirement . . . . .  | As per ISO 19/16 or better.  |
| Maximum flow handling capacity . . . . . | Refer graph.                 |

The graph illustrates the relationship between flow rate and pressure drop for a 100 mm diameter pipe. The x-axis represents flow rate in l/min, ranging from 0 to 400. The y-axis represents pressure drop in bar, ranging from 0 to 8. The curve shows a non-linear increase in pressure drop as flow rate increases.

| Flow in l/min | Pr. drop in bar |
|---------------|-----------------|
| 0             | 0.0             |
| 100           | 0.8             |
| 200           | 2.8             |
| 300           | 5.8             |
| 400           | 9.5             |

The diagram illustrates the components of the valve model code **NG 25 - 25**. The code is broken down into segments: **M**, **H**, **SLB**, **25**, and **2.0**. Each segment is linked to a specific feature or specification:

- M**: Sub-plate mounting
- H**: Factory Standard Interface
- SLB**: Shut off Valve, Screw in cartridge (Balanced Piston)
- 25**: Size NG 25 - **25**
- 2.0**: Design Series Subject to revision

Additionally, the **Seals** section specifies the seal material options:

| Seals |         |
|-------|---------|
| Omit  | Nitrile |
| V     | FKM     |