

***Silent Operation.  
Strong Protection.***

### Specification

- ▶ **Size Range** : 15MM To 100MM
- ▶ **Body / Bonnet** : CI / WCB / CF8 / CF8M
- ▶ **Pressure Rating** : PN 10 / 16 / 25
- ▶ **Temperature** : Upto 150°C
- ▶ **End** : Flanged / Screwed



### Introduction

The 4MPLV Series Silent Safety Valve is designed to provide reliable automatic protection against excessive pressure in industrial pressure systems. It operates as a safety device by releasing excess pressure when the system reaches its predetermined set pressure, helping safeguard equipment, pipelines and process installations from over pressure conditions.

Engineered with a robust spring-loaded mechanism and compact angle-type construction, the valve delivers dependable pressure relief with controlled operation and reduced discharge noise. Its self-actuated design ensures automatic response without requiring external power or control signals. The valve is suitable for industrial applications where reliable overpressure protection, operational safety and consistent performance are essential.



### Advantages

- ▶ **Automatic Over pressure Protection**  
Automatically releases excess pressure when the system reaches the preset pressure limit, helping protect equipment from pressure-related damage.
- ▶ **Low-Noise Discharge**  
Designed to minimize operational noise during pressure relief, supporting a more comfortable and controlled industrial working environment.
- ▶ **Compact Angle Type Design**  
The angle configuration supports practical installation and efficient discharge routing in industrial piping systems.
- ▶ **Fast Pressure Response**  
Responds quickly to rising pressure to help minimize overpressure risks.
- ▶ **Long-Term Operational Reliability**  
Designed for consistent safety performance throughout industrial service life.
- ▶ **Versatile Applications**  
Suitable for selected steam, air, gas and liquid pressure-relief applications according to the valve's specified service conditions.

# 4MPLV Series Silent Safety Valve



## Body

The valve body forms the main pressure-containing structure and provides the internal flow passage for controlled discharge during overpressure conditions. Its robust construction is designed to withstand industrial service requirements.

## Bonnet

The bonnet houses and protects the spring-loaded operating mechanism while maintaining the structural arrangement of the valve.

## Spring Assembly

The spring provides the closing force that keeps the valve closed under normal operating pressure. It is calibrated according to the required set pressure of the valve.

## Adjusting Screw

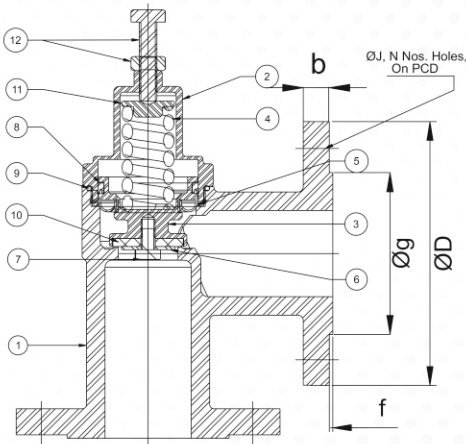
The adjusting screw is used to set or calibrate the spring compression according to the required pressure setting.

| No. | Description          | Material              |
|-----|----------------------|-----------------------|
| 1   | Body                 | CI / WCB / CF8 / CF8M |
| 2   | Bonnet               | CF8 / CF8M            |
| 3   | Plug                 | CF8 / CF8M            |
| 4   | Spring               | Spring Steel          |
| 5   | Diaphragm            | NBR / EPDM / VITON    |
| 6   | Plug Washer          | S.S                   |
| 7   | Plug Bolt            | S.S                   |
| 8   | Plug V-Seal          | NBR / EPDM / VITON    |
| 9   | O-Ring for Bonnet    | NBR / EPDM / VITON    |
| 10  | Plug Seat Ring       | NBR / EPDM / VITON    |
| 11  | Speing Washer        | Brass / S.S 410       |
| 12  | Adjusting Bolt & Nut | S.S                   |

| Size      | ØD           | B    | f | Øg    | ØJ     | N  | PCD    |
|-----------|--------------|------|---|-------|--------|----|--------|
| Tolerance | +2MM<br>-1MM | +3MM |   | ±1MM  | ±0.8MM |    | ±1.5MM |
| 15MM      | 90           | 8    | 2 | 34.9  | 15.88  | 04 | 60.3   |
| 20MM      | 100          | 8.9  | 2 | 42.9  | 15.88  | 04 | 69.9   |
| 25MM      | 110          | 9.6  | 2 | 50.8  | 15.88  | 04 | 79.4   |
| 32MM      | 115          | 11.2 | 2 | 63.5  | 15.88  | 04 | 88.9   |
| 40MM      | 125          | 12.7 | 2 | 73    | 15.88  | 04 | 98.4   |
| 50MM      | 150          | 14.3 | 2 | 92.1  | 19.05  | 04 | 120.7  |
| 65MM      | 180          | 15.9 | 2 | 104.8 | 19.05  | 04 | 139.7  |
| 80MM      | 190          | 17.5 | 2 | 127   | 19.05  | 04 | 152.4  |
| 100MM     | 230          | 22.3 | 2 | 157.2 | 19.05  | 08 | 190.5  |

All Dimension are in mm

FLANGED



SCREWED

