

***Engineered for Safety.
Built for Steam.***

Specification

- ▶ **Size** Flanged End (15MM To 250MM)
- ▶ **Range** : Screwed End (15MM To 80MM)
- ▶ **Body / Cover** : WCB / CF8 / CF8M
- ▶ **Pressure Rating** : Upto 25 kg/cm²
- ▶ **Temperature** : Upto 180 / 350°C
- ▶ **Seals** : Soft Seated / Metal To Metal



Introduction

The 4MPTV Series Pop Type Safety Valve is designed to provide reliable automatic protection against excessive pressure in industrial boilers and steam systems. It rapidly releases excess steam when the system reaches its predetermined set pressure, helping safeguard boilers, pressure vessels and steam equipment from overpressure conditions.

Its pop action mechanism enables the valve to open quickly and substantially when the set pressure is reached, allowing efficient pressure discharge and minimizing the risk of unsafe pressure build-up.

Engineered for dependable safety performance, robust construction and reliable reseating, the valve is an essential protection solution for industrial boiler and steam applications where rapid pressure relief, operational safety and consistent performance are critical.



Advantages

- ▶ **Rapid Pop-Action Opening**
Opens quickly at the preset pressure to release excess steam and prevent dangerous pressure build-up.
- ▶ **High-Flow Pressure Relief**
Provides rapid steam discharge during over pressure conditions.
- ▶ **Reliable Reseating**
Automatically returns to the closed position after pressure reduces to the specified reseating level.
- ▶ **Spring-Loaded Safety Mechanism**
Provides controlled closing force and reliable pressure-setting performance.
- ▶ **Compact Angle-Type Design**
Supports practical installation and efficient discharge routing in steam pipelines.
- ▶ **Reduced Risk of Pressure Damage**
Helps safeguard boilers, pipelines and connected equipment against excessive pressure.
- ▶ **Low Maintenance Complexity**
Straightforward mechanical construction facilitates inspection and servicing.

4MPTV Series Spring Loaded Safety Valve



Body

The valve body forms the primary pressure-containing structure and provides the internal flow passage for steam discharge during over pressure conditions. Its robust construction supports reliable operation in industrial boiler service.

Bonnet

The bonnet houses and protects the internal spring mechanism while supporting the overall operating arrangement of the valve.

Valve Seat

The seat provides the sealing surface for the disc and supports tight closure during normal operating conditions and reliable reseating after pressure relief.

Spring Assembly

The spring provides the closing force required to keep the valve shut below the set pressure and enables controlled opening when pressure exceeds the preset limit.

Manual Lift Lever

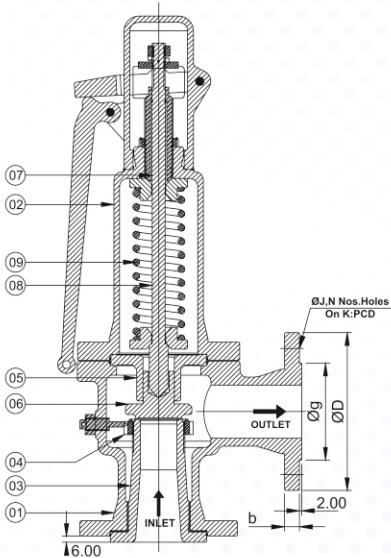
The lever allows manual lifting of the valve for operational checking or testing, subject to the valve's specified operating conditions.

No.	Description	Material
1	Body	WCB / CF8 / CF8M
2	Top Cover	WCB / CF8 / CF8M
3	Bonnet	CF8 / CF8M
4	Adjusting Ring	CF8 / CF8M
5	Piston Guide	CF8 / CF8M
6	Piston	CF8 / CF8M
7	Adjusting Bolt & Nut	S.S 304
8	Stem	S.S 304
9	Spring	SPRING STEEL

Size	ØD	B	Øg	ØJ	N	PCD
Tolerance	+2MM -1MM	+3MM	±1MM	±0.8MM		±1.5MM
15MM	90	8	34.9	15.88	04	60.3
20MM	100	8.9	42.9	15.88	04	69.9
25MM	110	9.6	50.8	15.88	04	79.4
32MM	115	11.2	63.5	15.88	04	88.9
40MM	125	12.7	73	15.88	04	98.4
50MM	150	14.3	92.1	19.05	04	120.7
65MM	180	15.9	104.8	19.05	04	139.7
80MM	190	17.5	127	19.05	04	152.4
100MM	230	22.3	157.2	19.05	08	190.5
125MM	255	22.3	185.7	22.23	08	215.9
150MM	280	23.9	215.9	22.23	08	241.3
200MM	345	27	269.9	22.23	08	298.5
250MM	405	28.6	323.8	25.4	12	362

All Dimension are in mm

FLANGED



SCREWED

