

Smart Solutions for Steam Pressure Management

Specification

- ▶ **Size** Flanged End (15MM To 80MM)
- ▶ **Range** : Screwed End (15MM To 50MM)
- ▶ **Body / Cover** : S.G IRON / WCB / CF8 / CF8M
- ▶ **Pressure Rating** : PN 16 / PN 25
- ▶ **Temperature** : Upto 350°C
- ▶ **Seat** : Metal To Metal



Introduction

The 4Matic 4MSTM Series Steam Pressure Reducing Valve is designed to automatically reduce high inlet steam pressure to a controlled and consistent downstream pressure. Its pilot-operated design combines a pilot valve and main valve to deliver accurate pressure regulation across varying steam flow conditions.

By utilizing downstream pressure feedback and a diaphragm-controlled main valve, the valve provides reliable pressure control, high flow capacity and efficient steam distribution. Its self-actuated operation eliminates the need for external power, making it a dependable solution for industrial steam applications requiring stable and precise pressure management.



Advantages

- ▶ **Accurate Pressure Regulation**
Maintains consistent downstream steam pressure even under changing flow conditions.
- ▶ **Pilot-Operated Performance**
The pilot valve controls the main valve for precise and responsive pressure regulation.
- ▶ **Self-Actuated Operation**
Operates without external power, pneumatic supply or electrical control signals.
- ▶ **Quick Pressure Response**
Responds effectively to downstream pressure variations for stable steam delivery.
- ▶ **Cost-Effective Operation**
Provides efficient automatic pressure control with reduced external system requirements.
- ▶ **Cost-Effective Maintenance**
Built for consistent performance and economical servicing throughout its service life.

4MSTM Series Steam Pressure Reducing Valve



Main Valve Body

The main body provides the primary pressure-containing structure and the main steam flow passage.

Pilot Valve

The pilot valve senses downstream pressure and controls the pressure acting on the main diaphragm chamber.

Main Diaphragm

The diaphragm responds to control pressure changes and operates the main valve opening.

Plug & Seat

Controls the main steam flow and regulates the required outlet pressure.

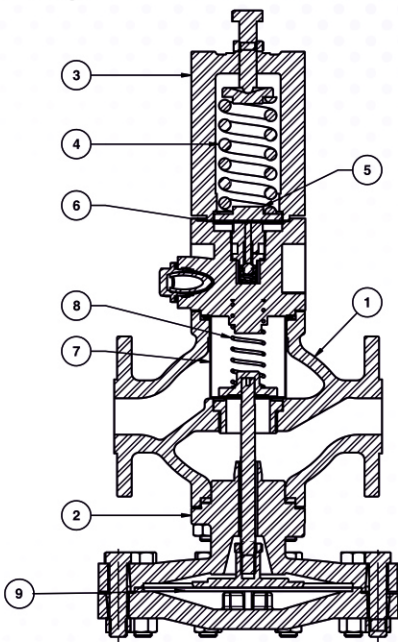
Internal Strainer

Helps protect the pilot mechanism from impurities present in the steam flow.

Adjustment Screw & Nut

Allows adjustment of the desired downstream pressure setting.

No.	Description	Material
1	Body	S.G IRON / WCB / CF8 / CF8M
2	Chamber	S.G IRON / WCB / CF8 / CF8M
3	Spring Housing Cover	S.G IRON / WCB / CF8 / CF8M
4	Pressure Adjustment Spring	SPRING STEEL
5	Bottom Spring Plate	S.S 304 / S.S 316
6	Pilot Diaphragm	S.S 304 / S.S 316
7	Internal Strainer	S.S 304 / S.S 316
8	Return Spring	SPRING STEEL
9	Main Diaphragm	S.S 304 / S.S 316



FLANGED

Size	A	B	C	D	E
15MM	147	175	400	130	270
20MM	167	175	410	130	280
25MM	184	206	415	146	271
32MM	184	206	425	146	280
40MM	253	280	490	185	305
50MM	253	280	490	185	305
80MM	190	350	598	266	331

All Dimension are in mm

SCREWED

Size	A	B	C	D	E
15MM	147	175	400	130	270
20MM	167	175	410	130	280
25MM	184	206	415	146	271
32MM	184	206	425	146	280
40MM	253	280	490	185	305
50MM	253	280	490	185	305

All Dimension are in mm

