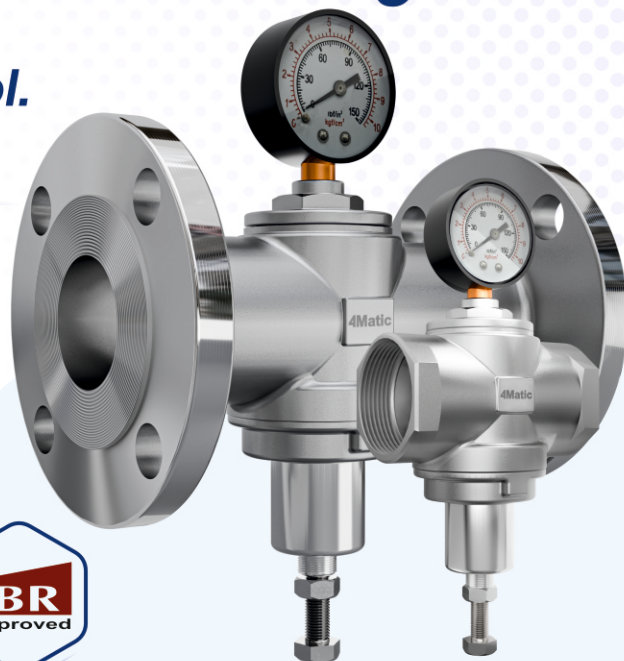


Engineered Steam Control.
Trusted Performance.

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 4MWG Series Direct Acting Pressure Reducing Valve is designed to automatically reduce high inlet steam pressure to a controlled downstream pressure, ensuring reliable and efficient steam distribution across industrial processes.

Operating through a self-actuated spring and pressure-sensing mechanism, without requiring external power, pneumatic signals or complex control systems.

Its robust construction and simple operating principle make it a dependable solution for steam pressure regulation in applications where consistent performance, easy adjustment and operational simplicity are essential.



Advantages

- ▶ **Self-Actuated Operation**
Operates directly through process pressure and spring force without external power.
- ▶ **Simple & Robust Construction**
Fewer operating components provide dependable performance and simplified maintenance.
- ▶ **Easy Pressure Adjustment**
Adjustable spring mechanism allows convenient setting of the required downstream pressure.
- ▶ **Reliable Steam Pressure Regulation**
Automatically modulates the valve opening in response to downstream pressure changes.
- ▶ **Compact & Space-Efficient Design**
Suitable for installations where compact pressure control equipment is preferred.
- ▶ **Suitable for Industrial Steam Service**
Designed for dependable pressure reduction across a wide range of steam applications.
- ▶ **Low Maintenance Requirement**
The straightforward mechanical operating principle simplifies inspection and servicing.

4MWG Series Direct Acting Pressure Reducing Valve



Body

The valve body forms the primary pressure-containing structure and provides the flow passage for controlled steam movement. Its robust construction is designed to withstand industrial operating conditions while ensuring reliable pressure regulation.

Bonnet

The bonnet houses and protects the internal pressure control mechanism while supporting the spring adjustment arrangement. It contributes to the overall structural integrity and reliable operation of the valve.

Adjustment Spring

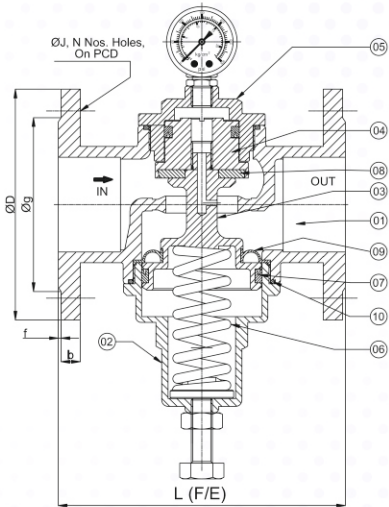
The adjustment spring provides the force required to establish the desired downstream pressure. Compressing or relaxing the spring changes the pressure setpoint, allowing the valve to be adjusted according to process requirements.

Plug & Seat

The valve plug and seat regulate the quantity of steam passing through the valve. Their controlled movement helps maintain the required downstream pressure by modulating the flow area.

No.	Description	Material
1	Body	CI / WCB / CF8 / CF8M
2	Bonnet	CF8 / CF8M
3	Piston	CF8 / CF8M
4	Plug	CF8 / CF8M
5	End Cover	CF8 / CF8M
6	Spring	Spring Steel
7	Piston V Seal	NBR / EPDM / VITON
8	Plug Seat Ring	NBR / EPDM / VITON
9	Diaphragm	NBR / EPDM / VITON
10	O-Ring for Bonnet	NBR / EPDM / VITON

FLANGED



Size	L(F/E)	L(S/E)	ØD	B	f	Øg	ØJ	N	PCD
Tolerance	±3MM	+2MM -1MM	+2MM -1MM	+3MM		±1MM	±0.8MM		±15MM
15MM	138	70.5	90	8	2	34.9	15.88	04	60.3
20MM	147	85.5	100	8.9	2	42.9	15.88	04	69.9
25MM	127	90.5	110	9.6	2	50.8	15.88	04	79.4
32MM	170	98.5	115	11.2	2	63.5	15.88	04	88.9
40MM	195	115	125	12.7	2	73	15.88	04	98.4
50MM	208	120	150	14.3	2	92.1	19.05	04	120.7
65MM	210	146.5	180	15.9	2	104.8	19.05	04	139.7
80MM	225.5	177	190	17.5	2	127	19.05	04	152.4
100MM	251	190	230	22.3	2	157.2	19.05	08	190.5

All Dimension are in mm

SCREWED

