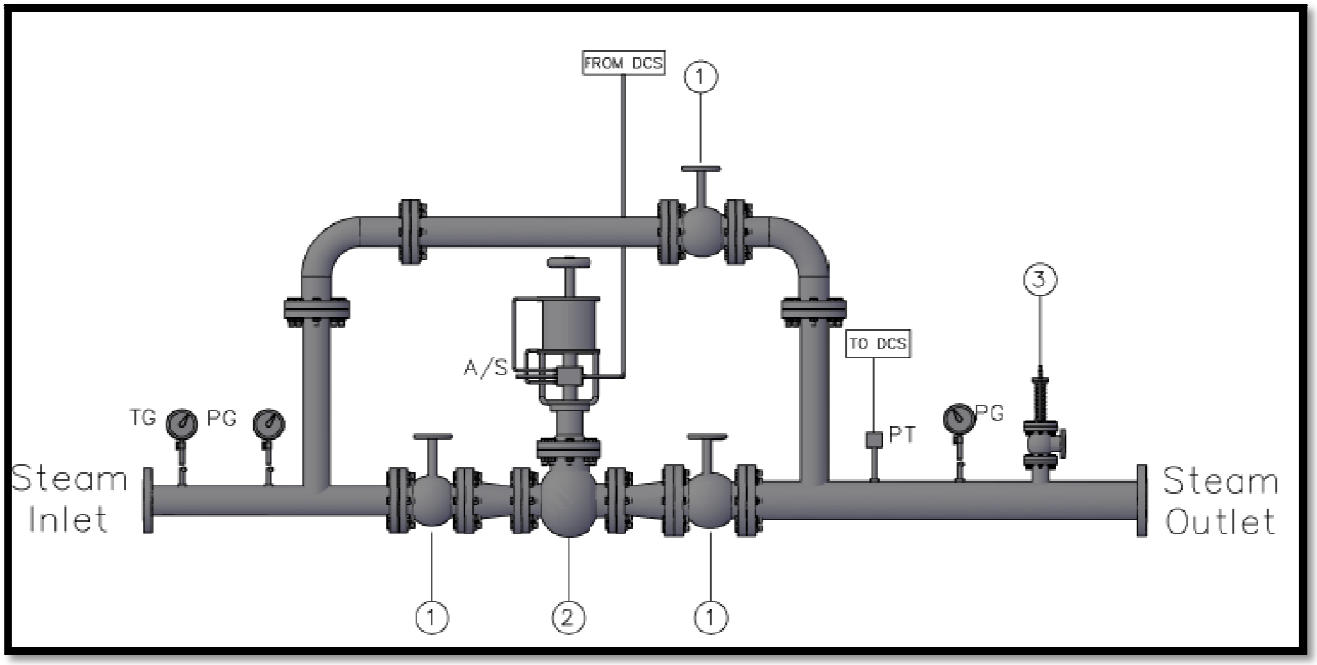
BOMAFA

Special Valve Solutions

Pressure Reducing Station



Sr. No.	Part Name
1.	Isolation Valve
2.	Steam Control Valve
3.	Safety Valve

Pressure Reducing Station: MODEL NO: PRS-CV

Applications

To ensure the process is met with the correct reduced pressure, Pressure Reducing Station is installed. BOMAFA PRS systems are designed, manufactured and built to ensure accuracy, consistency and reliability.

Benefits

Detailed steam system knowledge is applied for design and sizing.
Accurate pressure and temperatures are maintained.
Continuous process performance.

Key highlights

Characterised control valve can effectively cater to very high turndown requirements.
Bypass line with an isolation valve is installed so as to ensure continuous supply of steam during overhauling/ maintenance of the main pressure control valve and spray water control valve.
A safety valve is installed downstream of the PRS system so as to ensure that the downstream components are protected from the high pressure.
Rangeability 1:30 as a standard is offered.
Relative components/ fittings are equally important. BOMAFA designs, manufactures and tests all the components in -house in its own facilities thereby ensuring “Single point responsibility”.
Our hole-bush designs as well as labyr inth disc designs can be incorporated successfully in steam control valve for massive pressure drop reductions.

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Description

PRS system is able to provide the best possible pressure reduction desired by the process.

Variety of control valve options can take care of high turndown requirements.

The steam entering the inlet section of the PRS pipeline is passed through the inlet isolation valve and enters the steam pressure control valve. The steam also enters the bypass line and the bypass isolation valve is kept closed under normal operation but will be used for throt tling purpose when main pressure control valve is closed due to overhauling/ repairs.

Steam exits from the steam pressure control valve and comes out from the outlet isolation valve into the outlet piping.

A pressure sensor/ transmitter is installed in t he outlet steam pipeline which senses the pressure and depending on its set point gives signal to the DCS or field mounted controller. This DCS or field mounted controller in turn gives signal to the E/P positioner installed on the valve or I/P convertor i nstalled in the field. E/P positioner would give signal on the actuator of the valve thus opening or closing the steam control valve depending on the load variations. I/P convertor will give signal to the valve positioner which in turn will give signal to the actuator of the valve thus opening or closing it depending on the load variations.

Particulars	Inlet	Outlet
Line Size	DN 25 to 300/ 1” to 12”	DN 25 to 1000/ 1” to 40”
Pressure Rating	ASME 150# to 2500#	ASME 150# to 2500#
Material	SA 106 Gr. B/ SA 516 Gr. 70/ SA 335 Gr. P11/ SA 387 Gr. P11/ SA 335 Gr. P22/ SA 387 Gr. P22/ SA 335 Gr. P91	
End Connection	Butt-welded and Flanged	
Leakage Class	As per FCI 70-2, Class-IV & V	
Inspection	IBR/ Any third party inspection agency	

** For higher size consult factory*

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An ISO:2008 / ISO 14001:2004 & OHSAS 18001:2007 certified company

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www.bomafa india.com

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