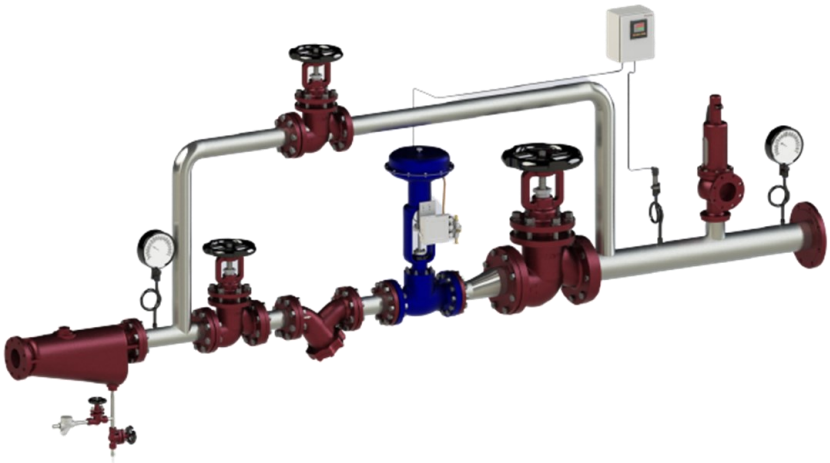
Max PRS Series

MAXIMA STEAM WORKS

Pressure Reducing Station

Pressure Reducing Station (PRS) is an integrated system comprising of Pressure reducing valve, stop valves at inlet, outlet and bypass. It also consists of strainer & separator for protection of control valve. The safety valve ensures the safety of the entire system.



Specifications

Sizes Customised	From 15 NB to 300 NB
MOC	Carbon Steel & various alloy metals
End Connections	Flanged ASA #150 to ASA #1500
PRV Type	Available with Electro pneumatic control valve & self actuating
Supply Conditions	Fully assembled & ready to install

Why Pressure Reduction?

In a typical process plant, the boiler generates steam at a particular pressure. Generally, different process points require steam at different pressures as it's most economical & effective to use steam at the lowest possible pressure. Operating at 4 bar(g) instead of 10.54 bar(g) will give 5.8 % more heating efficiency & will reduce the fuel bill by 5.8% as the latent heat at 4 bar (g) is 2108.1 kJ/kg & at 10.54 bar (g) is 1992.44 kJ/kg. This also benefits in achieving optimum process timings.

Installation & Maintenance

- Ensure all the loose supply items are assembled as per the drawing
- The assembled PRS needs to be retightened as it may have got loosened during transit
- Please ensure that the PRS system is flushed properly through the bypass
- All the electrical instruments like controller, pressure transmitters should be checked for its wiring correctness
- Slowly start charging the PRS system and observe for any leakages
- Joints to be retightened for the observed leakages
- Downstream pressure to be set by tuning of the control valve
- Check the safety valve setting for the opening and closing of the safety valve

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Pressure Reducing Valve

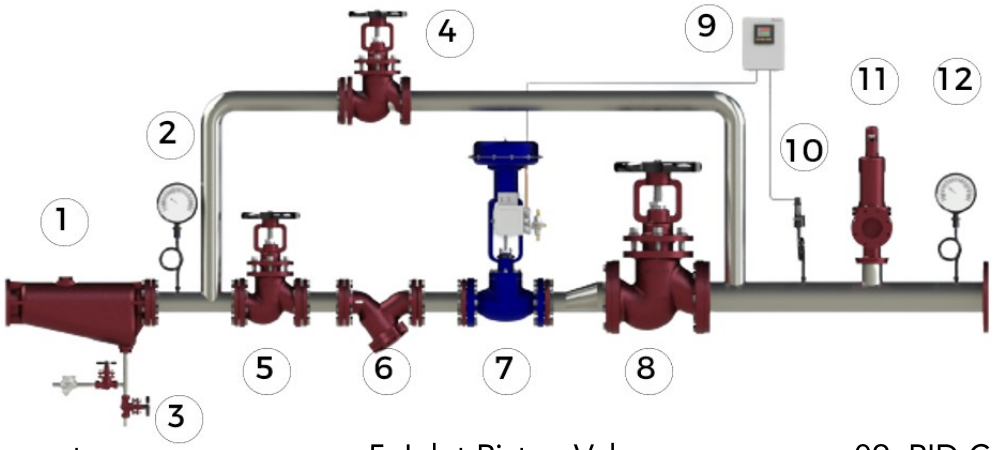
- High turndown of 1:50
- Tight closing for reliable control even when change in pressure & temperature are sudden & extreme
- Trim design for all applications
- Positive guiding for correct trim alignment
- Bellow seals for positive stem sealings
- Reliable positioners & actuators

Piston Valve

- Seatless and glandless valve
- ANSI Class VI leakage
- Long service life due to specialized sealing rings
- Ease of maintenance as sealing rings are the only wear-prone parts which can be easily replaced online
- Thermal expansion taken care by Belleville washers

Moisture Separators and Strainers are provided as standard in PRS Station. These ensure protection to the PRV and long life for the PRS Station.

Safety valve ensures safety for the entire system and never lets the outlet pressure to go beyond the process requirements.



1. Moisture Separator
2. Inlet Pressure Gauge
3. Thermodynamic Trap Module
4. Bypass Piston Valve
5. Inlet Piston Valve
6. Strainer
7. Pressure Reducing Valve
8. Outlet Piston Valve
09. PID Controller
10. Pressure Transmitter
11. Safety Valve
12. Outlet Pressure Gauge

Since 1986, Maxima Boilers has been one of the leading boiler manufacturers in India, focused on providing customers across the world with a wide range of steam solutions. Our Maxima Steam Works division offers complete steam solutions for your plant. Our product range includes:

Steam Boilers | Solid Fired Boilers | Small Industrial Boilers | Thermic Fluid Heaters | Hot Water Boilers Waste Heat Recovery Boiler | Steam Generators | Coil Type Boilers | Steam Accumulators | Pressure Reducing Stations | Temperature Control Systems | Thermodynamic Traps | Piston & Globe Valves Steam Traps | Condensate Recovery Systems | Pipeline Accessories | Efficiency Monitoring Systems Thermostatic Traps | Ball Float Traps | Pumping Traps | Automatic Blowdown Control Systems

Maxima Steam Works Gat 100, Jyotiba Nagar, Near Hotel Zunka, Talawade, Pune 411062, Maharashtra, India | **Email:** sales@maximasteamworks.com | **Website:** maximasteamworks.com