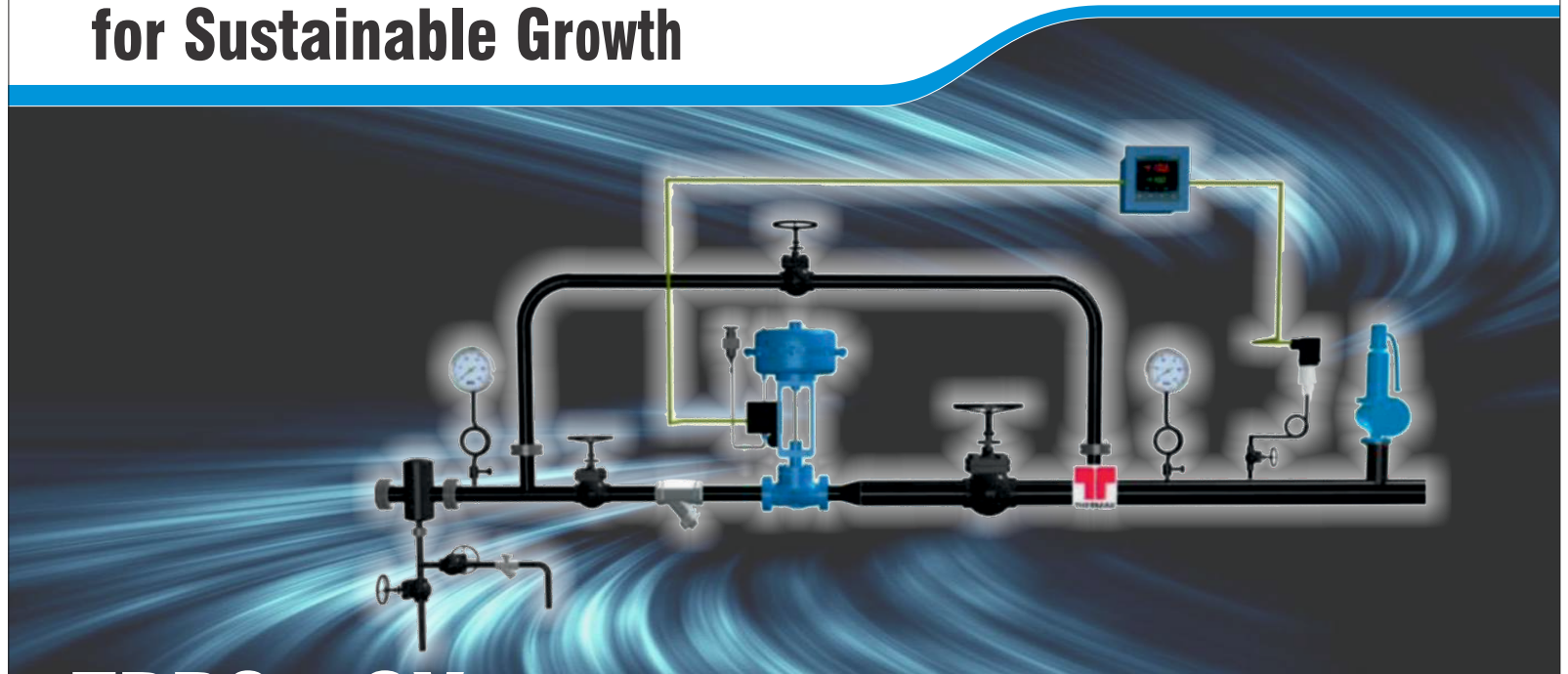




Energy Environment Solutions for Sustainable Growth



TPRS - CV

STEAM ENGINEERING

Introduction

Thermax Pressure Reducing Station (TPRS) is a prefabricated ready to assemble module comprises of PID based control valve, isolation valves, pipes and fittings intended to reduce steam pressure to designed conditions.

Technical Specification

Design Pressure :	Inlet	Outlet
	10.5 kg/cm ²	3.5 kg/cm ²
	17.5 kg/cm ²	8 kg/cm ²
Design Temperature :	Saturated steam temperature	
Capacity :	100 - 8000 kg/h and higher	
Size :	15 - 200 NB and higher	

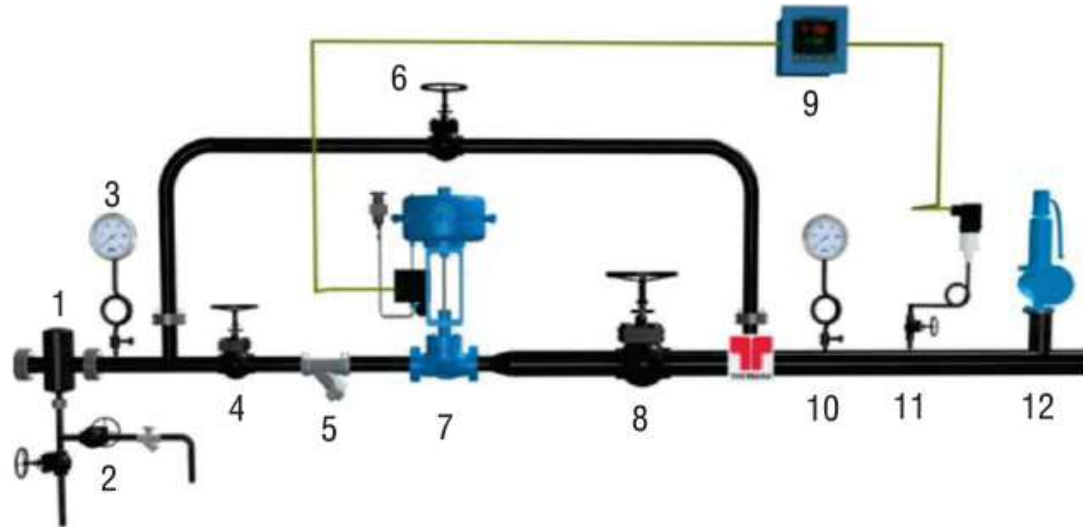
Features

- Designed as per best steam engineering practices
- Safety valve sized for full discharge capacity of the PRS
- Specially designed flow divider to ensure low noise levels
- Rugged in design
- Suitable for hazardous area also.
- Operates even in low flow conditions
- Quick response to pressure changes
- Ready to install i.e. reduces installation time and field engineering
- Maintenance free and user friendly
- Both IBR certified and non IBR PRS available

Application

Pressure reduction for saturated and superheated steam with Pneumatic Control Valve and PID loop.

Components



Sr No	Components
1	Moisture Separator
2	Thermodynamic Trap Module
3	Inlet Pressure Gauge with Siphon and Valve
4	Inlet Valve
5	Strainer
6	Bypass Valve

Sr No	Components
7	Control Valve
8	Outlet Valve
9	Pressure Controller
10	Outlet Pressure Gauge with Siphon and Valve
11	Steam Pressure Transmitter
12	Safety Relief Valve

Material List

Sr No	Description	Material of Construction	Specifications
1	Pipe	Forged Steel	ASTM A106 Gr. B
2	Flanges	Forged Steel	ASTM A105 / Equivalent *
3	Gate / Globe Valves or Bellow Seal Valves **	Cast Steel body SS trim Cast Steel body, SS Stellited trim and bellow in Titanium steel material	ASTM A216 Gr. WCB
4	Direct Acting PRV	Cast Steel body SS trim	ASTM A216 Gr. WCB
5	Control Valve	Cast Steel body SS stellited trim	ASTM A216 Gr. WCB
6	Safety Valve	Cast Steel body SS trim	ASTM A216 Gr. WCB

* Flanges may be fabricated from boiler quality plates if design standards permit it.

** Bellow seal valves are alternative to cast steel gate / globe valves if specified.



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Thermax Business Portfolio

- Heating
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- Water and Wastewater Solutions
- Solar
- Power