



STEAM DESUPERHEATING SYSTEM

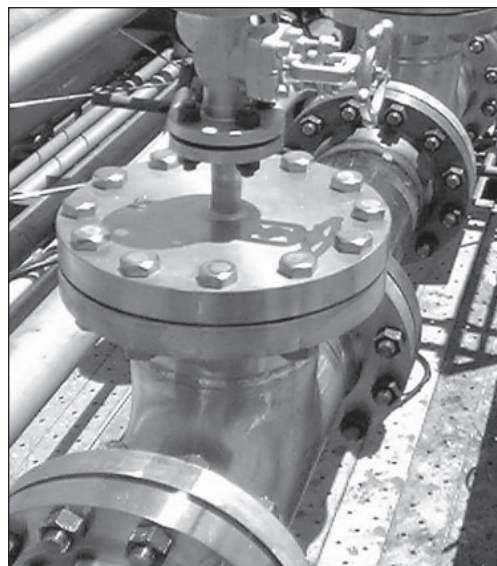
MODEL RGDS

SPACE-SAVING, HIGH-PRECISION DESUPERHEATING SYSTEM

Features

A space-saving system to reduce the pressure and temperature of superheated steam with high precision. Produces saturated steam without moisture contamination.

1. Enables previously unattainable low flow velocities of 5 m/s (typically over 10 m/s).
2. Enables desuperheating with simple and compact piping.
3. Alleviates concerns of moisture contamination of the steam process.
4. Highly accurate temperature and pressure reduction by simply entering the target pressure value.
5. Prevents uneven heating due to superheated steam (e.g. in heat exchangers).
6. Protects equipments such as chillers from heat.
7. Prevents overheating during steam depressurisation.



Specifications

Model		RGDS			
Size		50 to 200			
Steam Flow Rate* (kg/h)		200 to 30,000			
Fluid Velocities (m/s)		5 to 50			
Maximum Operating Pressure (MPaG)**		PMO	1.0	2.0	
Maximum Operating Temperature (°C)		TMO	300	425	
Applicable Fluid		Steam			
Standard Flange		JIS		ASME/JPI	
		10KFF	20KRF	Class 150RF	Class 300RF
Required Utilities	Water Injection (MPa)	Differential pressure***: 0.5 to 1.0			
	Air for Instrumentation (MPaG)	0.3 to 0.9			

* Steam flow rate to be desuperheated depends on size and pressure. Contact TLV for details.

1 MPa = 10.197 kg/cm²

** Maximum Operating Pressure of Desuperheating Section

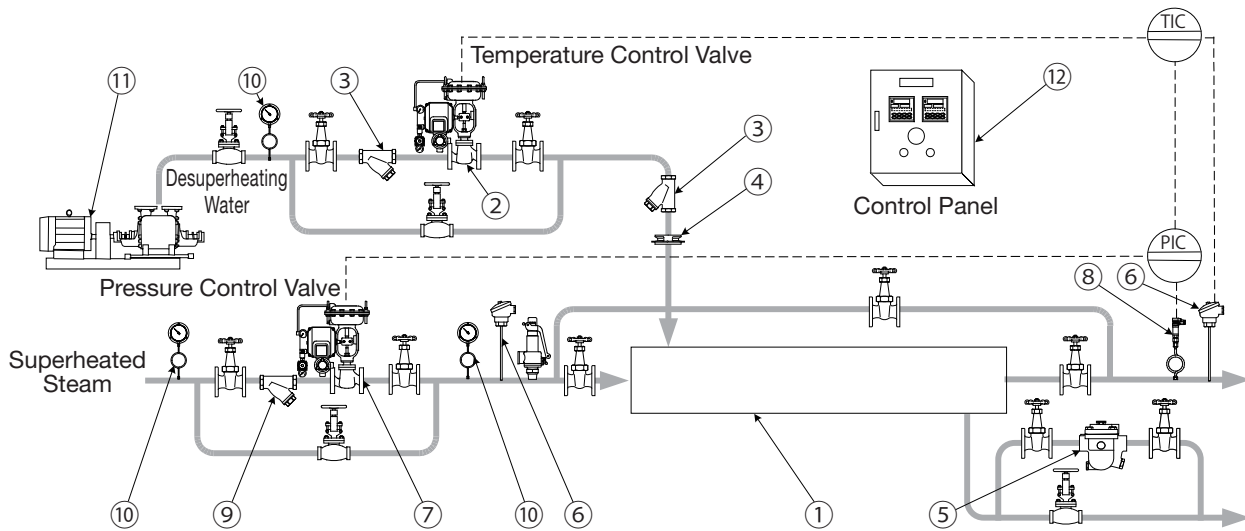
*** Steam Differential Pressure for Water Mixing and Separation Section

PRESSURE SHELL DESIGN CONDITIONS (**NOT** OPERATING CONDITIONS): Maximum Allowable Pressure (MPaG) PMA: 2.0
Maximum Allowable Temperature (°C) TMA: 425



To avoid abnormal operation, accidents or serious injury, DO NOT use this product outside of the specification range. Local regulations may restrict the use of this product to below the conditions quoted.

System Configuration Example



No.	Description	No.	Description
①	Water Mixing and Separation Section	⑦	Pressure Control Valve
②	Temperature Control Valve	⑧	Pressure Sensor
③	Y-Strainer	⑨	Y-Strainer
④	Check Valve	⑩	Pressure Gauge
⑤	Steam Trap	⑪	Pump
⑥	Temperature Sensor	⑫	Control Panel

NOTE: Contact TLV for details.

Manufacturer
TLV CO., LTD.
 Kakogawa, Japan
is approved by LRQA Ltd. to ISO 9001/14001

