





# **Empowering Your Steam Engineering Products** and Solutions with Excellence

Bringing you knowledgeable insights and information that will keep your Steam Engineering products up and running during and post lockdown period. Kindly refer to the Start-up Protocols for the product that is applicable to you.

#### **CUSTOMER SERVICE BULLETIN**

DOCUMENT No : SE/Startup Protocol/PRDSH Rev: 00

PRODUCT: PRDSH - PRESSURE REDUCING DE SUPER HEATER

**DIVISION: HEATING - STEAM ENGINEERING** 

	CHECK LIST	YES	NO
Р	Remove the condensate from steam line available drain points and steam trap bypass .		
r	Clean the strainer of PRDSH.		
е	Remove the flanges before cooling watre pump and flush the entire pipe line .		
	Fill the condensate pot with RO water/ equivalent water( If PT is installaed with pot).		
C	• Clean the spray nozzle tip .		
h	• Pneumatic air line should be flushed for 5 to 10 minutes at full pressure before opening the air		
е	to instruments.		
C	Check the both control valve operation in manual mode and ensure zero and span travel		
k	length.		
	Adjust the AFR air pressure as mentioned on actuator .		
u	Check the incoming voltage before starting the electrical panel .		
р	Check the control valve operation in manual mode .		

- Open all the water side inlet and outlet isolation valves .
- Open all the instruments isolation valves .
- $\bullet$  Open the main steam valve and steam trap bypass valve to drain the condensate .
- Close all the drain valves .

S

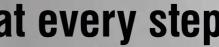
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- Close the PRS by-pass and isolation valves .
- Initially operate in manual mode and stabalized the pressure and Temp.
- Once the parameter stabalized put the system in auto mode.
- Keep SV to "zero" in PID controller and open PRS isolation valves gradually upto its maximum position.
- Gradully Increase SV in PID controller and check safety valve operation.
- Set the required pressure in PID controller asper process requirement and observed working of PRS
- Set the required temperature in PID controller as per process requirement and observed working of DSH

	Symptoms	Possible Causes	Do's
	Pr./Temp Control valve not operating	No air pressure.	• close the bypass valves when system in
ľ		No 4 -20mA output from PID controller.	operation.
0			Drain the water present if any inside the
u		Calibration disturbed.	AFR daily once.  • Always open the instrument isolation
b			
	Outlet temperature not	Check inlet pressure as per design.	valve.
е		Clean DSH nozzle	Check safety valve set value once in a
S	maintaining	Check water quantity	week.
h		Maintain NPSH	Don't s
0	Pump head not maintaining	Clean Pump strainer.	Never close the compressed air line
ť			valve during operation.
1		Calibration disturbed.	Never by-pass any safety valve .
n	Control valve passing in close position	Seat & Plug worn out	Do not throttle the pump suction valve ,
g		Foreign partical accumulated	always delivery valve should be throttled to adjust the pump pressure.









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Thermax Limited Steam Engineering Services recommends customer to get in touch with the local service engineer as per details given below:

### 1<sup>st</sup> Level

Region	Name of Service Engineer	Email id	Contact No
North (JK, PB, HR)	Puneet Panchal	Puneet.Panchal@Thermaxglobal.com	9717200940
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#### 2<sup>nd</sup> Level

<b>Contact Person</b>	Designation	Email Id	Contact No.
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