

Spring Loaded Desuperheater: MODEL NO: SLD

Applications

Steam is quite often throttled and superheated for its efficient distribution. To maximise its heat transfer properties its steam temperature needs to be brought down as close to saturation as possible. Bomafa Desuperheaters are designed, manufactured and built to reduce the temperature of the superheated steam accurately for optimal heat transfer and efficiency.

Benefits

- Detailed steam system knowledge is applied for design and sizing.
- Improved heat transfer.
- Continuous process performance.

Key highlights

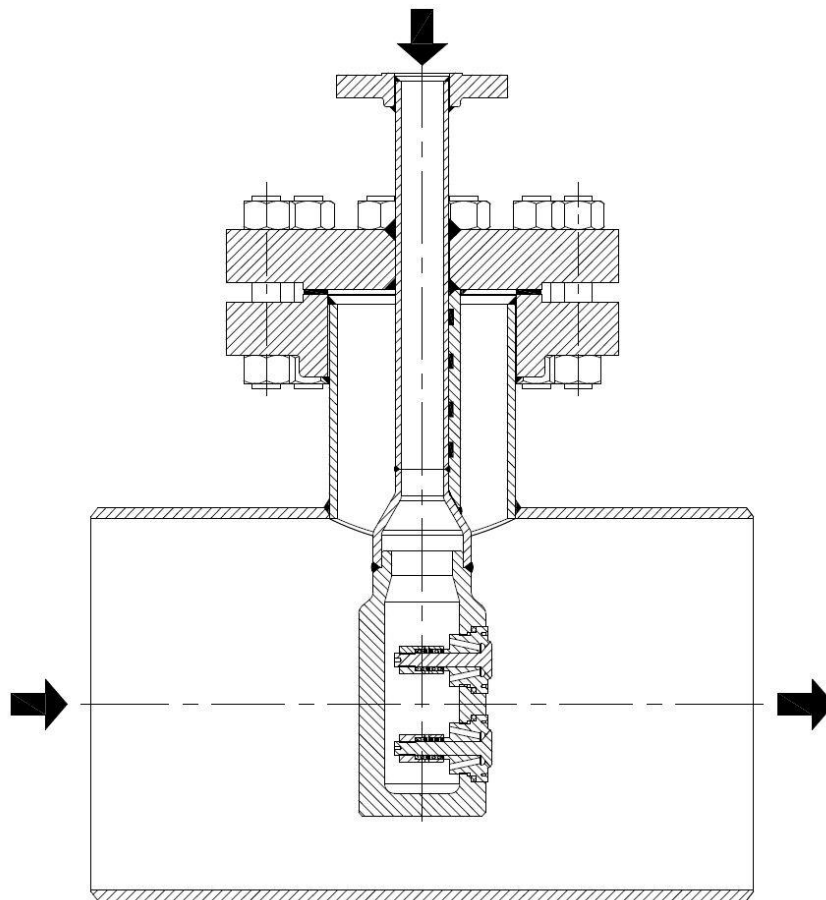
- A high turndown of 10:1 is offered as standard.
- Higher turndown can be provided on request.
- No steam side pressure drop and therefore is the ideal choice for duties where minimum steam side pressure drop is required.
- No casting thereby eliminating casting deformity & flaws.
- Internals are specially treated by plasma nitriding process which improves corrosion, erosion and galling by sticking. It also reduces friction and enhances seat tightness.
- The unit is supplied spray water controlled through a separate spray water Control Valve.
- The nozzles vary according to load requirement and the units are provided with linear/ special characteristics as per the process requirement.
- The unit provides one of the most accurate, convenient and economical means of reducing the superheated steam temperature.



Description

- ❖ The unit controls/ regulates the amount of spray water by opening/ closing the number of orifices/nozzles as per the requirement.
- ❖ This ensures that the spray water is controlled right throughout full load conditions and a very good and uniform spray pattern over the full load of the desuperheater is maintained.
- ❖ This design minimizes accumulation of the spray water droplets in the steam pipeline. A separate spray water control valve is required to control the spray water quantity.
- ❖ Full water/ steam pressure differential is maintained during full load variation for ultimate efficiency and the water flow is controlled at the point of injection thereby providing most accurate spray water control design.
- ❖ Minimum superior water pressure of 3.5 Bar is recommended over the steam operating pressure.

Recommended Installation



Notes:-

1. Material of construction:
 - a. Nozzle: SS 304/ 316, DIN 1.4122/ DIN 1.4923
 - b. Injection Water Pipe: SA 106 Gr. B, SA 335 P11, SA 335 P22, SA 335 P91.
 - c. Flanges: SA 105, SA 182 F11, SA 182 F22, SA 182 F91.
2. Dimensions can be engineered to fit existing piping/ flange requirements.
3. Dimensions are subject to change without notice.
4. For sizes of above 20" than consult factory.
5. Different grades of material also available as an option.

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