

The DA series Desuperheater

VARIABLE AREA DESUPERHEATER



The DA series desuperheater provides the right solution when the precise and safe control of superheated steam temperature is required. This product offers an effective heat transfer solution especially for pipe sizes larger than 12" and temperatures over 797°F where traditional direct contact desuperheaters can become economically inviable.

Product Features

- Pipe sizes from 6" to 24".
- For temperatures up to 986°F.
- No requirement of thermal sleeve for differential temperature up to 450°F.
- Steam Turndown up to 15:1.
- Rangeability: up to 50:1
- Wide Cv range.
- Interchangeable nozzles.
- Connections (ASME B16.5) – Class 150, 300 and 600.
- Standard body materials: carbon steel (WCB), alloy steel (WC9) and stainless steel (CF8M).
- Material certificates to EN 10204 3.1 for body assembly, plug, stem and nozzles as standard.

Product Benefits

- Accurate and reliable steam temperature control leading to more efficient heat transfer.
- Robust, reliable design with minimal moving parts.
- High rate of cooling water atomization guarantees maximum cooling efficiency.
- Effective atomization of cooling water reduces the chance of over spray that can lead to water hammer.
- Integrated design that is simply to install without additional of control valves.
- The range covers a wide Cv rangeability allowing for flexible flow rate options.
- One size desuperheater can cover a variety of pipe line installations because nozzles are interchangeable.

Typical applications

- Accurately reduce the temperature of superheated steam in order to protect downstream process equipment designed for lower temperatures and improve heat transfer.
- Reduce the temperature of steam discharge from turbine by-pass systems on power plants for heat exchangers, dump stations etc.
- Improve heat transfer of indirect contact heat exchangers- shell and tube, plate and frame, reactor heating jackets, etc.



In addition the DA series desuperheater provides:

LASTING BUILD QUALITY

Stainless steel internals guarantee a durable, long lasting installation that resists corrosion and erosion, the DA desuperheater can be installed with number of body material options to satisfy installation design requirements for pressure and temperature.

PROVEN TECHNOLOGY

DA desuperheater comes with a 3 year warranty. It is a proven solution that has been successfully installed in a variety of applications. Since it's introduction in 1997, we have continually improved product performance, with an install base of over 1,000 units.

CONSISTENT ATOMIZATION AT ALL FLOW RATES

The DA desuperheater operates with a constant differential pressure across the nozzle that helps to mitigate water droplet fallout at low flow rates. This helps ensure a reliable, efficient energy transfer without water hammer.

COMPACT INSTALLATION

The integrated design removes the requirement for additional control valves, which can reduce the cost of installation and long term maintenance.

INCREASED PROCESS EFFICIENCY

Accurate and reliable control of steam temperature with a minimum steam pressure drop across varying steam loads.

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