

Dump Tube MODEL NO: DT

Introduction



- × These devices are kept at the downstream of the HP bypass valve or Steam Conditioning Valve and are used for pumping the steam in the condenser.
- × Each Dump Tube is a characterised dump tube and is built for a particular application.
- × Dump Tubes help in interfacing the pipe size between the bypass valve and the condenser. It also helps in reducing the outlet of the steam conditioning or bypass valve size as it creates a back pressure thereby making the whole system cost-effective.

Large Valve Components: Dump Tubes

To further throttle the steam medium between its discharge at the bypass valve and the subsequent condenser, a dump tube can be installed. The dump tube supplied to Thailand's PTT with its dimensions of DN 800 at the inlet, DN 2000 at the outlet, a length of 3.7 metres and pressure relief in 5 stages, constitute a further element in our range of large and high-performance valve-related products.

The View Ahead

We at BOMAFA have always held technical advancement in high esteem. Currently, we are engaged with the development of particularly climate-friendly power stations with steam temperatures of up to 700 °C. In these areas and in a globalised market, we aim to continue offering our customers top quality and innovative products with the hallmark 'Made in Germany'.

Particular focuses of our product development are:

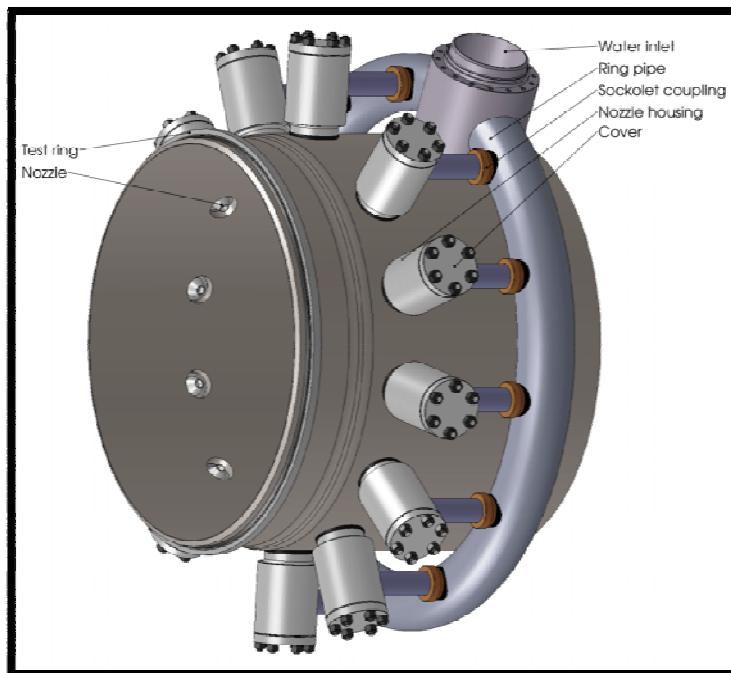
- Deployment of materials compatible with extremely high temperatures
- Optimizing the sealing characteristics of spindles
- Further improving the ease of valve maintenance through innovative modular design
- Use of fluid dynamics simulation to further optimize the construction of our valves



Application & Function

- ✗ A dump tube is coupled together with a Steam Conditioning Valve or a Bypass Valve where the application is to pump the steam in the condenser.
- ✗ This would facilitate reducing the outlet size of the bypass valve since the specific volume of the steam is comparatively lower as compared to sub-atmospheric conditions.
- ✗ The dump tube is a fixed nozzle (orifice) design so as to reduce the pressure down to the pressure of the condenser.
- ✗ Based on the installation, the holes are arranged such that for installation in a condenser the holes are arranged in two 90° sections, which does not allow the steam to impinge in the tube of the condenser.
- ✗ For dump tubes which are installed in the turbine exhaust, there is no restriction in the arrangement of holes and they are selected along the complete diameter i.e. 360°.
- ✗ It is important that dump tubes are installed such that they do not interfere with the steam turbine outlet steam flow path during normal turbine operations.

Details of Spray Nozzles Incorporated in the Dump tube



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