Hot Blast Valves
with Minimum Cooling
Hot Blast Valves

Design Features of Hot Blast Valves:

- Fabricated construction
- Minimizing of heat loss of process temperature due to optimized thermal insulation of body, bonnet (uncooled) and paddle
- Thermal insulation comprising various materials
- Optimization of thermal insulation, allowing for water cooling of only the body seats and paddle
- Special design cooling water passages provide optimum flow
- Sealing in both directions, floating paddle design
- Valve actuation in accordance with customer’s requirements (man./electr./hydr./pneum.)
- Pressure rating up to PN 6
- Service temperatures up to 1650 °C (3000 °F)
- Nominal diameters up to 3000 mm (120 inch)
- Other sizes or operating conditions on request
- German and foreign patents pending

This Design Guarantees:

- Considerable reduction of required quantity of cooling water (also during emergency operation)
- Extended operational life of the valve due to increased thermal insulation, reducing thermal stresses to the valve
- No deposits in cooling water channels
- Due to optimized design valve is easily maintained
- Reduced operating costs due to:
  - decreased heat loss of process temperature
  - reduction in amount of cooling water required
especially suitable for extreme operating conditions, such as:
- temperatures up to 1650 °C (3000 °F)
- thermal shock
- temperature fluctuations
- short closing and opening time.

typical service applications of hot blast valves:
- hot blast valves on blast furnace stove installation
- blast furnace isolation valves
- back draught valves
- isolation of media, with entrained solids, at elevated temperature
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