



Pneumatic Conveying



Dustcatcher Dome Valve

Pneumatic Bulk Solids Handling

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The Dustcatcher Dome Valve has been developed on the back of years of success with the Clyde Dome Valve.

Purposely designed bulk materials shut-off valves for use in the main dust collection process line of any blast furnace.

Iron Oxide dust is a continuous by-product of the iron making process and must be collected and disposed of on a regular basis to ensure proper availability and performance of the iron making process.

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ISO9001 | ISO9001

British Engineering

Key Features

Inflatable Sealing Mechanism

The fast closing bulk material cut-off Dome Valve incorporates a unique pressure tight sealing arrangement. This is achieved by using an inflatable seal, which is automatically inflated on closure of the valve and deflated upon opening

Full Bore Flow

Full Bore unobstructed material flow through the Dome Valve

Pneumatic Actuation

Fast acting heavy duty pneumatic air actuation using a combination of leading cylinder and vane actuators

Nominal Bores

DN200 - 500 mm

Temperature Range

-20 to 450 deg C

Benefits

Zero Leakage

Totally efficient and effective valve sealing of pressures up to 30 barg

Extremely Reliable

Incorporating only tried and tested key components resulting in highly reliable operation in a wide range of applications

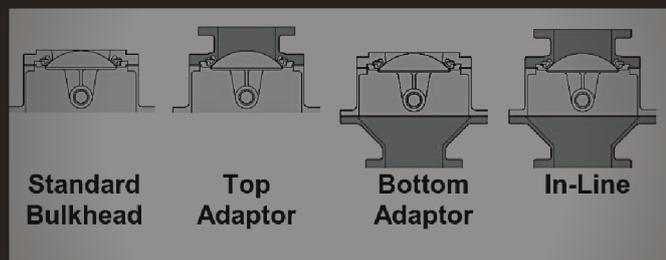
High Availability

over 1,000,000 cycles between major overhauls and 200,000 cycles for seal replacement based on industry normal operating conditions

Unique Actuation

The Dome Valve can cut through moving or static columns of bulk material

Valve Configurations



Custom Features

Dome Coatings

Electro-nickle plating or Polymer coating for cohesive and abrasive materials

Actuation

Operation by Air or Hydraulic Cylinder

Internal Protection

Critical dust impact areas can be lined with ceramic tile or similar abrasion resistance products