



Pneumatic Conveying



The Original Dome Valve

Pneumatic Bulk Solids Handling

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The operating efficiency of all Clyde Pneumatic Conveying Systems relies upon our unique Dome Valve and is currently installed in over 100,000 applications worldwide.

The pressure tight air operated bulk materials handling valve is simple in design and construction resulting in extremely sustainable process reliability even in the most difficult applications.

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ISO9001 | ISO14001



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

ranging from 50 - 400mm as standard

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

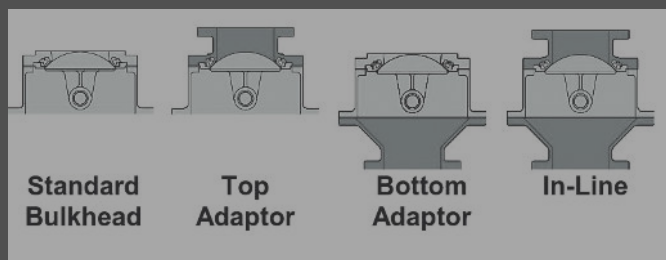
High Availability

over 3,000,000 cycles between major overhauls and 1,000,000 cycles for seal replacement

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

Temperature Rating

Water-cooling to achieve operating temperatures beyond 200 deg C up to 450 deg

Pressure Rating

7 barg maximum pressure on the standard Dome Valve having 10 barg design. Up to 30 barg manufactured to order