



**Pneumatic Conveying**



# Dustcatcher Dome Valve

Pneumatic Bulk Solids Handling

Document No. CPC-INF-2050

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

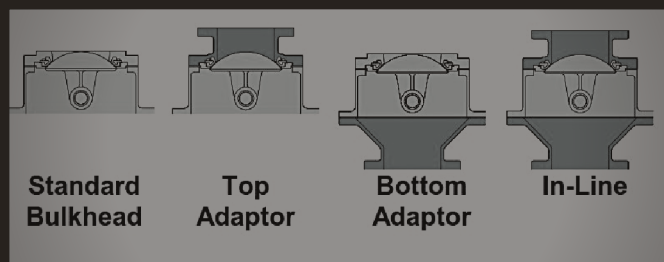
### High Availability

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