DOME VALVE

Quality Performance Guaranteed from the Original Equipment Manufacturer

CLYDE BERGEMANN
Industry’s most specified cut-off valve

In the harsh world of abrasive mineral and powder handling, Clyde Bergemann’s heavy-duty Dome Valve has achieved an enviable reputation. Its reliability and consistent performance in applications where a positively sealed cut-off valve is required, has made the Dome Valve the solution all areas of industry trusts and demands. The Dome Valve is successfully operational in Power Generation, Cement, Gypsum, Paper, Water, Minerals, Metals industries.

Economic

The Dome Valve was designed specifically for Clyde Bergemann DensPhase pneumatic materials handling systems but its versatility has seen its use spread far beyond this. It has provided significant cost savings when retrofitted to other conveying systems, thus ending the frequent and expensive valve failures to which they are often prone.

Versatile

The Dome Valve performs equally well when retrofitted to vessel inlets, vents or outlets where it has been used to differential pressures of up to 30 bar(g) and material temperatures of up to 480°C. It is also used extensively as a silo discharge control valve and as an isolation valve within material-conveying pipelines.

Your Benefits

- Maintenance Cost Savings
  - generally only an inflatable seal change once per year
- Simple, fully proven reliable design
- Easy to install - Easy to maintain
- Long operation life - generally in excess of 10 years
- Cuts through moving or static columns of material up to 10 mm lump size
- Fully guaranteed when installed under approved conditions

When used with the Clyde Bergemann range of pneumatic handling technology, the Dome Valve commonly provides up to 1,000,000 machine operating cycles between major overhauls with the only maintenance generally being a inflatable seal change once per year, giving a reputation which cannot be matched by any other valve in the market place.
Top Performance with Low Maintenance and Long Service Life

Full Bore Material Flow

Totally unrestricted full bore material flow is assured throughout the full range of 50-500 mm diameter Dome Valves by the unique design of the dome assembly. This eliminates the common problems of bridging and blocking associated with other valve types.

Development

The Dome Valve was developed by Clyde Bergemann during the 1970s and pioneered the use of an inflatable pressure tight seal arrangement that became its hallmark.

This resulted in an unprecedented level of performance, particularly in terms of its exceptionally long service life even when handling the most abrasive materials.

Add further benefits like cavity-free construction, full bore material flow and ease of maintenance and you begin to understand why in excess of 15,000 Dome Valves are in current daily operation worldwide.

The Dome Valve can be used to handle:
- All types of ash
- Coal and other fuels
- Limestone and other sorbents
- All minerals particulates
Clyde Bergemann is represented in over 40 countries worldwide.