Dome Switch Valves

The operating efficiency of all Schenck Process pneumatic conveying systems relies upon the original Clyde Process Dome Valve®, which has been installed in over 10,000 applications worldwide.

Simple in design and low in maintenance, this high performance valve is used throughout a wide range of industries. In action the Clyde Process Dome Valve is a pressure tight compressed air operated valve, capable of returning over one million maintenance-free cycles, even in abrasive, hazardous or toxic applications. The fast-closing cut-off valve incorporates a unique inflatable sealing mechanism. This provides the pressure tight seal, against the dome surface when in the closed position.

Options
A range of standard and non-standard options are available for the Dome Valves which are detailed on the Schenck Process Dome Valve® Data Sheet. Switch Valves can be converging or diverging Three way versions are also available.

Mounting
The Schenck Process Dome Valve® must always be mounted so that the dome is at the top, or as near the top, of the conveying pipe when the valve is open. The valve must be mounted only in the following positions:

- Option 1: Mounted vertically in the conveying line (preferred).
- Option 2: Mounted horizontally in the conveying line (preferred).
- Option 3: Mounted horizontally in the conveying line with the actuators above the conveying line (non-preferred).

Standard Fabrication
Dome Switch Valve assemblies are supplied complete with Dome Valves, mild steel ‘Y’ branch, pneumatic controls, air supply piping, strainer, filter and control panel ready for connection to isolated air and electric supplies.

- Air supply pressure: 6 < 7 barg.
- Design pressure: 7 bar.
- Maximum conveying pressure: 4.5 bar.
Material inlet flange
50mm to 150mm standard
BS4504 PN10 flange;
above 150mm CPC alignment
BS4504 PN10 flange

Outlet flanges of Dome Valves
are flat faced for all sizes.

Dimensions - (mm)

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<th>C</th>
<th>D</th>
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