SD Dense Phase Pump for pneumatic conveying systems

Pneumatic Conveying
The pneumatic conveying process, enclosed and dustfree, ensures material transfer complies with stringent COSHH and other international regulations for industry and is less harmful to the environment than traditional mechanical methods.

The original Dome Valve®
Central to the operating efficiency of all Schenck Process pneumatic conveying systems, or as a stand alone valve is the original Dome Valve® which incorporates a unique and highly reliable inflatable sealing arrangement. The original Dome Valve® was developed by Clyde Materials Handling* in 1974 for use with pneumatic conveying systems and as a stand alone product.

Dense Phase Conveying Technology
The DensPhase system capitalises on all the assets of pneumatic conveying: simplicity, reliability and flexibility. Ensuring minimal breakage of friable products, the extensive range of DensPhase machines shares standard components, individually tailored to handle specific requirements of a wide range of materials.

SD Pump
Developed from Schenck Process world leading DensPhase pneumatic conveying technology, The SD Pump sets new standards for dry sand conveying systems.

This unit can be positioned directly below a silo or feed hopper for automatic filling and transfer to reception points prior to process use.

The SD Pump is delivered as a complete ‘off the shelf’ package and can be installed by semiskilled labour in a matter of hours - there is no need for skilled commissioning technicians.

Five models give transfer rates of up to approximately 35 tonnes per hour and thereby meet every dry sand transfer application within the modern foundry.

The control panel, which is supplied separately to allow positioning near to the plant operator, has also been designed with simplicity of operation in mind and gives a continuous positive indication of plant status.

Typical applications for SD Dense Phase Pump include:
• Iron and Steel industry for the transfer of moulding flux and foundry sand

* Clyde Materials Handling Ltd was purchased by Schenck Process in 2011 and the original Dome Valve® is part of Schenck Process technologies
Standard Fabrication
SD Pump vessel assemblies supplied complete with Clyde Dome Valve, electropneumatic controls and air supply piping, strainer, pressure regulation and control equipment pre-piped and prewired ready for connection to isolated air and electric supplies.

Product Range
SD Pumps

<table>
<thead>
<tr>
<th>Model</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>ØF</th>
<th>G</th>
<th>ØH</th>
<th>ØJ</th>
<th>K</th>
<th>ØM</th>
<th>N</th>
<th>Weight</th>
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<tbody>
<tr>
<td>S2/4</td>
<td>694</td>
<td>400</td>
<td>515</td>
<td>589</td>
<td>969</td>
<td>100</td>
<td>8</td>
<td>19</td>
<td>190.5</td>
<td>350</td>
<td>50</td>
<td>2&quot; ASA</td>
<td>160 KG</td>
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<tr>
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<td>634</td>
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<td>8</td>
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<td>6&quot; ASA</td>
<td>490 KG</td>
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</table>

Custom applications available on request

Note:
For manual isolation valves add 220mm onto dimension ‘A’ for models S2/4, S3/4 and S4/4; add 232mm onto dimension ‘A’ for models S6/6 and S12/6.