Vortex® 2-WAY FLEX TUBE DIVERTER™

The Vortex® Flex Tube Diverter™ is specifically engineered to handle dry bulk solids in vacuum or dilute phase pneumatic conveying systems up to 15 psig (1 barg). The unique design eliminates material cross contamination by a positive seal across the closed port and the elimination of internal ledges and pockets where material can lodge and remain trapped. A smooth unobstructed transition from inlet to outlet shields the wear compensating seals from abrasion. The Flex Tube Diverter™ is designed to eliminate problems, enabling you to meet your objectives by increasing production, while decreasing labour and equipment costs.

Vortex® Flex Tube Diverter™ Features

- Improves Conveying Efficiency
- Smooth, Unobstructed Bore for Unrestricted Flow of Material
- Seals Protected from Abrasion
- Easy Installation and Maintenance

Valve Specifications

<table>
<thead>
<tr>
<th>Size/Bore Options</th>
<th>50mm to 200mm Diameters, Pipe or Tube</th>
</tr>
</thead>
<tbody>
<tr>
<td>Media</td>
<td>Powder, Pellets, Granulars</td>
</tr>
<tr>
<td>Connection Options</td>
<td>Compression Coupling, ANSI, DIN, JIS, Custom Flanges</td>
</tr>
<tr>
<td>Media Temperature</td>
<td>Up to 82°C continuous to 121°C intermittent service, Modifications allow up to 121°C continuous to 149°C intermittent service</td>
</tr>
<tr>
<td>Media Pressure</td>
<td>-0.1 MPa +0.1 MPa, 1 barg, 15 psig, depending on size</td>
</tr>
<tr>
<td>Metal Construction Options</td>
<td>304 or 316L Stainless Steel, Aluminium, and/or Carbon Steel</td>
</tr>
<tr>
<td>Seal/Seat Material Options</td>
<td>Nylon, PET, UHMW, Glass Filled Teflon, Rubber, and/or Silicon</td>
</tr>
<tr>
<td>Drive/Actuation Options</td>
<td>Double Acting Air Cylinder and Solenoid Operated Air Control Valve, Electric Actuator, or Hand Wheel</td>
</tr>
<tr>
<td>Position Confirmation</td>
<td>Magnetic Reed Switch or Proximity Switch</td>
</tr>
<tr>
<td>Compliance/Approvals</td>
<td>CE, ATEX, FDA</td>
</tr>
<tr>
<td>Industry Use</td>
<td>Plastics, Petrochemicals, Chemicals, Foods, Minerals, Textiles, Agriculture</td>
</tr>
</tbody>
</table>

Application Specific Modifications

| FS1 | 304 Stainless Steel directional flex hose is installed for material to run through the valve from one port to two ports. |
| FS2 | 304 Stainless Steel directional flex hose is installed for material to run through the valve from two ports to one port. |
| S   | Material contact is 316L stainless steel. |
| MG  | Air cylinder has a magnetic ring which activates a magnetic reed position indicating switch. |
| HT3 | Modifications are made allowing 204°C continuous to 232°C intermittent service. |
| SM  | Slide Blade is electro-polished. Polyleethylene Terephthalate (PET) pressure plate seals replace Nylon. |
| P1/P4 | Utilizing Schedule 10 or Schedule 40 Pipe. |
| OF 45/30 | Inlets and outlets are flanged with ANSI, DIN or JIS connections. The outlet opposite the air cylinder is offset at 45 or 30 degrees. |
# Vortex® 3-Way Flex Tube Diverters

## Dimensional Information

### 2-Way Flex Tube Diverter

<table>
<thead>
<tr>
<th>Model</th>
<th>Tube Size</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>J</th>
<th>K</th>
<th>M</th>
<th>N</th>
<th>WT (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>T2-2(XX)Y</td>
<td>51</td>
<td>775</td>
<td>127</td>
<td>149</td>
<td>197</td>
<td>184</td>
<td>76</td>
<td>108</td>
<td>64</td>
<td>121</td>
<td>51</td>
<td>159</td>
<td>127</td>
<td>36</td>
</tr>
<tr>
<td>T2.5-2(XX)Y</td>
<td>64</td>
<td>895</td>
<td>165</td>
<td>197</td>
<td>251</td>
<td>203</td>
<td>105</td>
<td>133</td>
<td>89</td>
<td>133</td>
<td>64</td>
<td>203</td>
<td>168</td>
<td>41</td>
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<tr>
<td>T3-2(XX)Y</td>
<td>76</td>
<td>867</td>
<td>165</td>
<td>197</td>
<td>251</td>
<td>203</td>
<td>73</td>
<td>105</td>
<td>89</td>
<td>159</td>
<td>76</td>
<td>203</td>
<td>168</td>
<td>43</td>
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<tr>
<td>T4-2(XX)Y</td>
<td>102</td>
<td>1108</td>
<td>191</td>
<td>270</td>
<td>340</td>
<td>248</td>
<td>79</td>
<td>108</td>
<td>127</td>
<td>140</td>
<td>102</td>
<td>216</td>
<td>181</td>
<td>57</td>
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<tr>
<td>T5-2(XX)Y</td>
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<td>1213</td>
<td>229</td>
<td>330</td>
<td>391</td>
<td>298</td>
<td>95</td>
<td>130</td>
<td>152</td>
<td>171</td>
<td>127</td>
<td>248</td>
<td>232</td>
<td>66</td>
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<tr>
<td>T6-2(XX)Y</td>
<td>152</td>
<td>1527</td>
<td>264</td>
<td>378</td>
<td>441</td>
<td>324</td>
<td>102</td>
<td>130</td>
<td>178</td>
<td>171</td>
<td>152</td>
<td>298</td>
<td>257</td>
<td>98</td>
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<tr>
<td>T8-2(XX)Y</td>
<td>203</td>
<td>1664</td>
<td>318</td>
<td>546</td>
<td>584</td>
<td>406</td>
<td>98</td>
<td>235</td>
<td>254</td>
<td>194</td>
<td>203</td>
<td>333</td>
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### 2-Way Flex Tube Diverter

<table>
<thead>
<tr>
<th>Model</th>
<th>Pipe Size</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>J</th>
<th>K</th>
<th>M</th>
<th>N</th>
<th>WT (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>T2-2(XX)Y-P*</td>
<td>51</td>
<td>895</td>
<td>165</td>
<td>197</td>
<td>251</td>
<td>203</td>
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<td>1565</td>
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<td>441</td>
<td>324</td>
<td>102</td>
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<td>171</td>
<td>168</td>
<td>298</td>
<td>257</td>
<td>100</td>
</tr>
<tr>
<td>T8-2(XX)Y-P*</td>
<td>203</td>
<td>1759</td>
<td>318</td>
<td>546</td>
<td>584</td>
<td>406</td>
<td>152</td>
<td>241</td>
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<td>194</td>
<td>219</td>
<td>333</td>
<td>333</td>
<td>123</td>
</tr>
</tbody>
</table>

*All dimensions are in mm, Information subject to change without notice.

(XX) Material of construction, aluminum (AL), carbon steel (CS), or stainless steel (SS).

*Select pipe schedule 10 or 40, note flex tube is O.D. hose.