



# Valves

Handling the world's dry bulk solids®



## VORTEX® FILL PASS™ DIVERTER

The patented Vortex® Fill Pass Diverter is specifically engineered to handle dry bulk solids in vacuum or dilute phase pneumatic conveying systems with pressures up to 1 barg. It provides a versatile and reliable method for filling one or more "in-line" weigh hoppers when material is conveyed pneumatically through a closed loop system.

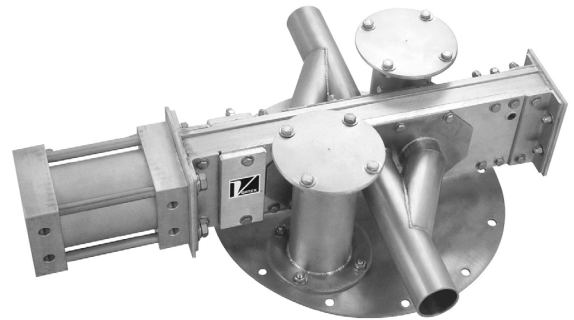
### Vortex® Fill Pass™ Diverter Features

- Low Cost Operation
- Improves Weighing Efficiency and Accuracy
- Smooth, Unobstructed Bore For Unrestricted Flow Of Material
- Seal Protected from Abrasion
- Easy Installation and Maintenance



### Valve Specifications

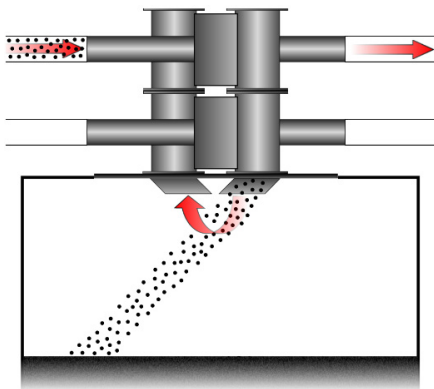
Size/Bore Options	50mm, 75mm, 100mm, 125mm, 150mm, Diameters, Pipe or Tube
Media	Powder, Pellets, Granulars
Connection Options	ANSI, DIN, JIS, or Compression Couplings
Media Temperature	100°C continuous to 120° C intermittent service.
Media Pressure	-0.1 MPa +0.1 MPa, (1 barg), (15 psig)
Metal Construction Options	304 or 316L Stainless Steel, Aluminum, and/or Carbon Steel
Seal/Seat Material Options	Nylon, PET, UHMW, Glass Filled Teflon, Rubber, and/or Silicon
Drive/Actuation Options	Double Acting Air Cylinder and Solenoid Operated Air Control Valve
Position Detection	Magnetic Reed Switch or Proximity Switch
Compliance/Approvals	CE, ATEX, FDA
Industry Use	Plastics, Petrochemicals, Chemicals, Foods, Minerals, Textiles, Agriculture



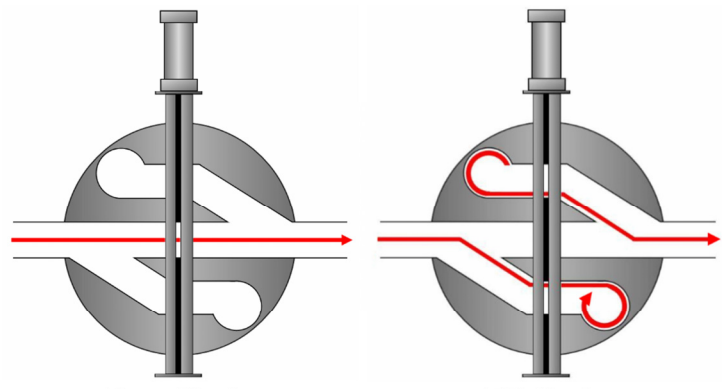
### Application Specific Modifications

S	Material / metal contact is 316L stainless steel.
MG	Air cylinder has a magnetic ring which activates a magnetic reed position indicating switch
P1	A standard tube size diverter is modified with pipe size inlets and outlets. The -P1 modification would match schedule 10 pipe.
P4	A standard tube size diverter is modified with pipe size inlets and outlets. The -P4 modification would match schedule 40 pipe.
SM	Gate blade is electro-polished. Polyethylene (PET or UHMW) pressure plate seals are used to replace nylon.

### Additional Fill Pass™ Diverter Information



Vortex® Fill Pass™ Diverter Material Flow Diagram.



Pass Mode

Fill Mode

For more information, please visit our website at [www.vortexvalveseurope.com](http://www.vortexvalveseurope.com)