



Valves

Handling the world's dry bulk solids®

VORTEX® FILL PASS DIVERTER™

The Vortex® Fill Pass Diverter is specifically engineered to handle dry bulk solids in vacuum or dilute phase pneumatic conveying systems with pressures up to 15 psig (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. The Fill Pass Diverter is designed to eliminate problems, enabling you to meet your objectives by increasing production, while decreasing labour and equipment costs.

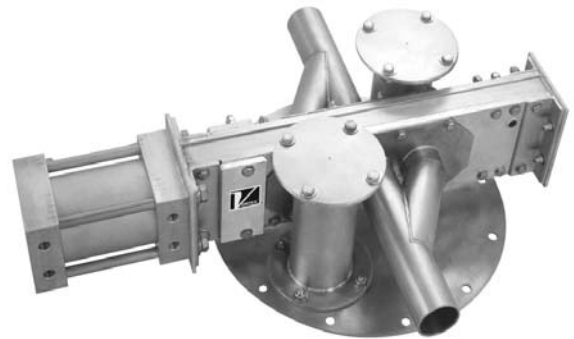
Vortex® Fill Pass Diverter Features

- Superior Air/Material Separation
- Improves Weighing Efficiency and Accuracy
- Smooth, Unobstructed Bore for Unrestricted Flow of Material
- Seal Protected from Abrasion
- Ability to Shift without Shutting Down Blower



Valve Specifications

Size/Bore Options	50mm to 200mm, Diameters, Pipe or Tube
Media	Powder, Pellets, Granulars
Connection Options	Compression Couplings
Media Temperature	Up to 121°C continuous to 149°C intermittent service
Media Pressure	-0.1 MPa +0.1 MPa, 1 barg, 15 psig, depending on size
Metal Construction Options	304 or 316L Stainless Steel, Aluminium, and/or Carbon Steel
Seal/Seat Material Options	Nylon, PET, UHMW, Glass Filled Teflon, Natural Rubber, and/or Silicon Rubber
Drive/Actuation Options	Double Acting Air Cylinder and Solenoid Operated Air Control Valve
Position Confirmation	Magnetic Reed Switch or Proximity Switch
Compliance/Approvals	CE, ATEX, FDA
Industry Use	Plastics, Petrochemicals, Chemicals, Foods, Minerals, Textiles, Agriculture

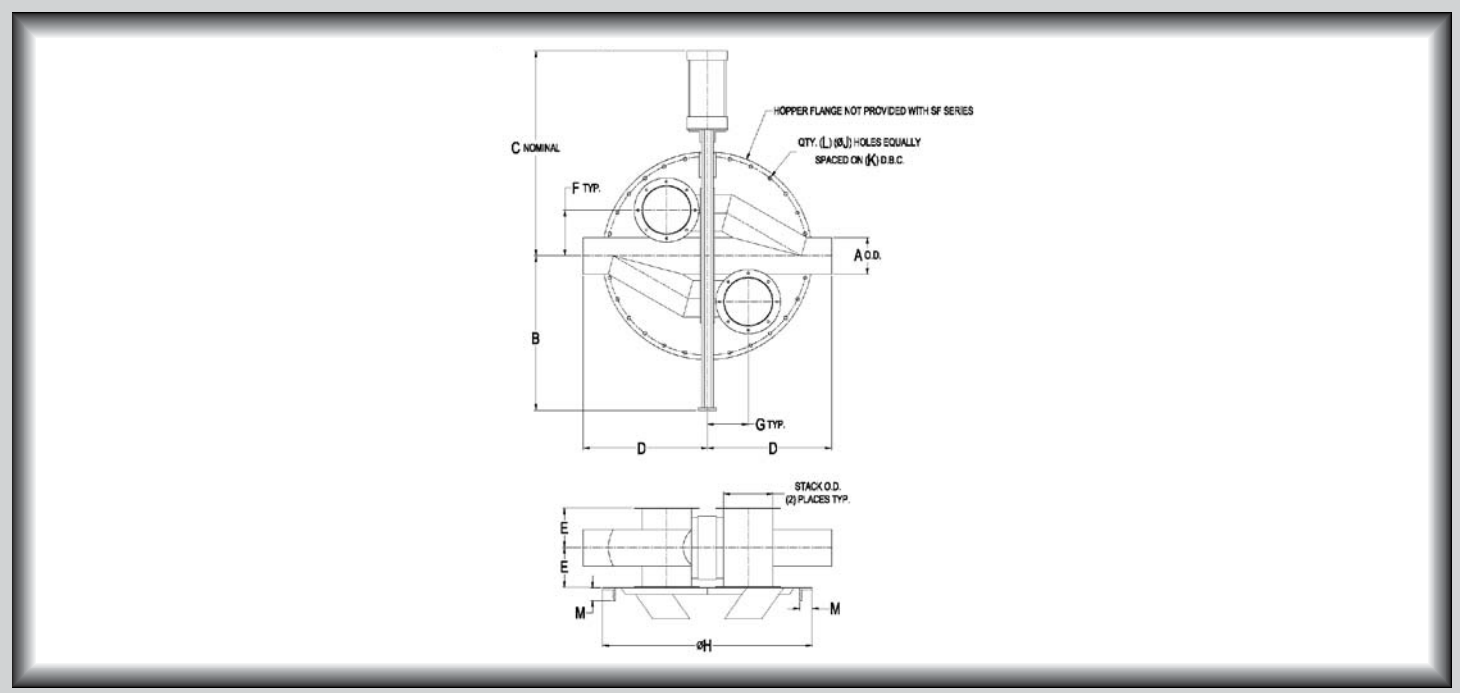


Application Specific Modifications

S	Material 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	Slide Blade is electro-polished. Polyethylene Terephthalate (PET) pressure plate seals replace Nylon.



VORTEX® FILL PASS DIVERTER™ DIMENSIONAL INFORMATION



Series	Model	A	B	C	D	E	F	G	H	J	K	L	M
HOPPER COMPACT HC SERIES	D23-3SSHC	51	111	410	244	89	76	76	384	11	351	305	38
	D33-4SSHC	76	333	498	302	102	102	102	502	11	460	406	44
	D43-4SSHC	102	429	702	397	127	127	127	603	11	562	508	44
HOPPER STACKABLE HS SERIES	D23-6SSHS	51	111	410	244	89	165	168	762	11	724	610	51
	D23-8SSHS	51	238	410	244	89	191	168	864	11	826	711	51
	D33-6SSHS	76	327	498	302	102	165	168	762	11	724	610	51
	D33-8SSHS	76	327	498	302	102	191	168	864	11	826	711	51
	D43-6SSHS	102	429	702	397	127	165	168	762	11	724	610	51
	D43-8SSHS	102	429	702	397	127	191	168	864	11	826	711	51
	D53-8SSHS	127	552	765	448	152	191	168	864	11	826	711	51
	D63-8SSHS	152	641	854	511	165	191	168	864	11	826	711	51
STACKABLE FLANGE SF SERIES	D23-6SSSF	51	238	410	244	89	165	168	--	--	--	--	--
	D23-8SSSF	51	238	410	244	89	191	168	--	--	--	--	--
	D33-6SSSF	76	327	498	302	102	165	168	--	--	--	--	--
	D33-8SSSF	76	327	498	302	102	191	168	--	--	--	--	--
	D43-6SSSF	102	429	702	397	127	165	168	--	--	--	--	--
	D43-8SSSF	102	429	702	397	127	191	168	--	--	--	--	--
	D53-8SSSF	127	552	765	448	152	191	168	--	--	--	--	--
	D63-8SSSF	152	641	854	511	165	191	168	--	--	--	--	--

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

Reference A (Nominal Size O.D. tubing)