









FILLPASS DIVERTER

The Vortex Fill Pass Diverter is specifically engineered to handle dry bulk solids in vacuum or dilute phase pneumatic conveying systems with pressure up to 15 psig (1 barg) depending on size. It provides a versatile and reliable solution for filling one or more in-line weigh hoppers when material is conveyed pneumatically through a closed loop system. The design of the Fill Pass Diverter utilizes spread hopper inlet/outlet stacks for improved air and material separation reducing fill time and down line material carryover.

- GRAVITY FLOW**
- DILUTE PHASE PNEUMATIC CONVEYING** (Pressure or Vacuum)
- DENSE PHASE PNEUMATIC CONVEYING**

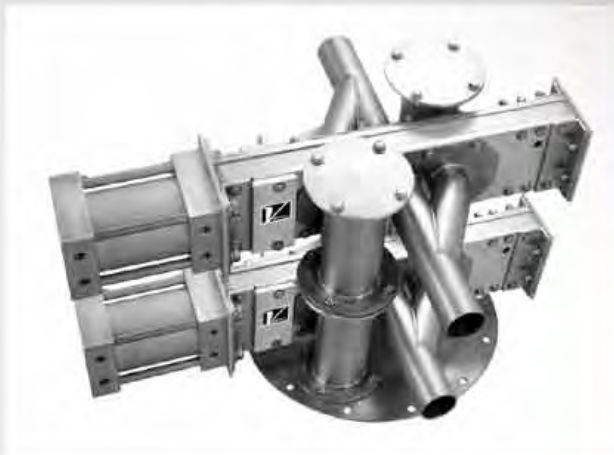
FEATURES

-  Separates air and material before filling the hopper
-  Shifts "on the fly"
-  Weigh from up to 5 sources and/or materials
-  Positive seal through closed ports
-  Unobstructed opening
-  Serviceable while in-line
-  Material construction options available
-  Standard sizes: 2" - 6"
Contact us for custom sizes

OPTIONS



SINGLE



STACKED



Shim removal for seal adjustment while valve is in-line



The valve's spread stack offers better material/air separation



The material deflector directs material flow to minimize material carryover

DETAILS



5" (127mm) Fill Pass Diverter above a scale hopper handling calcium carbonate



6" (152mm) Fill Pass Diverter above a scale hopper handling baking mixtures

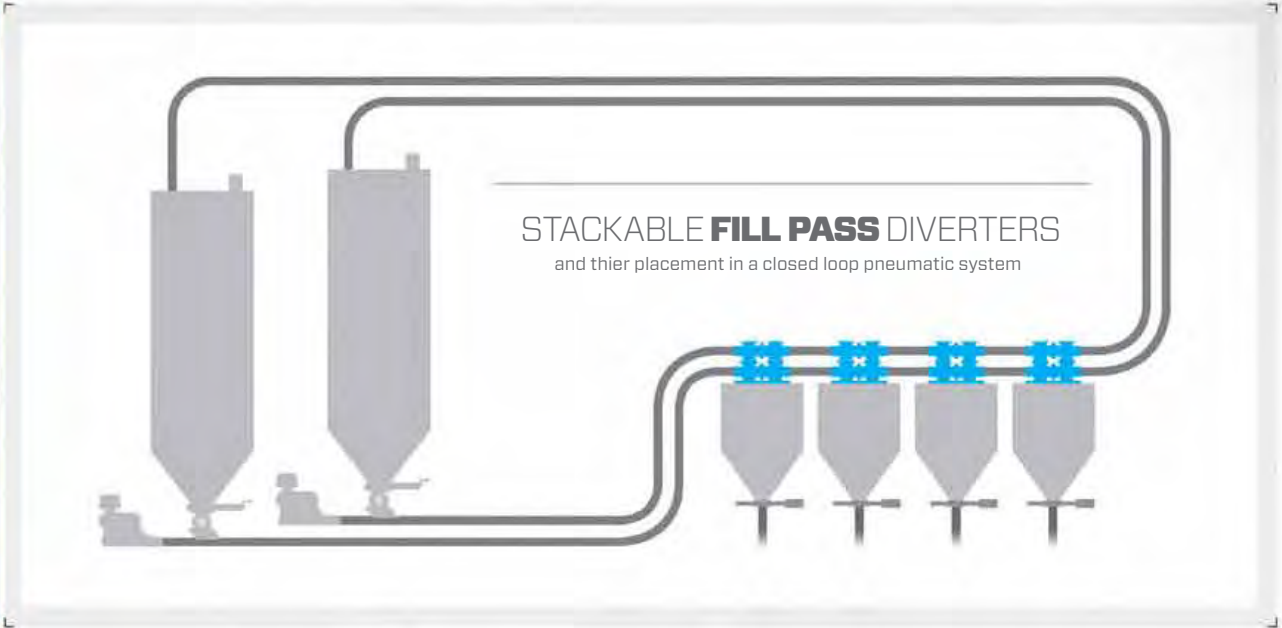
APPLICATIONS

For a complete list of specifications, modifications, dimensional drawings and measurements, visit WWW.VORTEXVALVES.COM

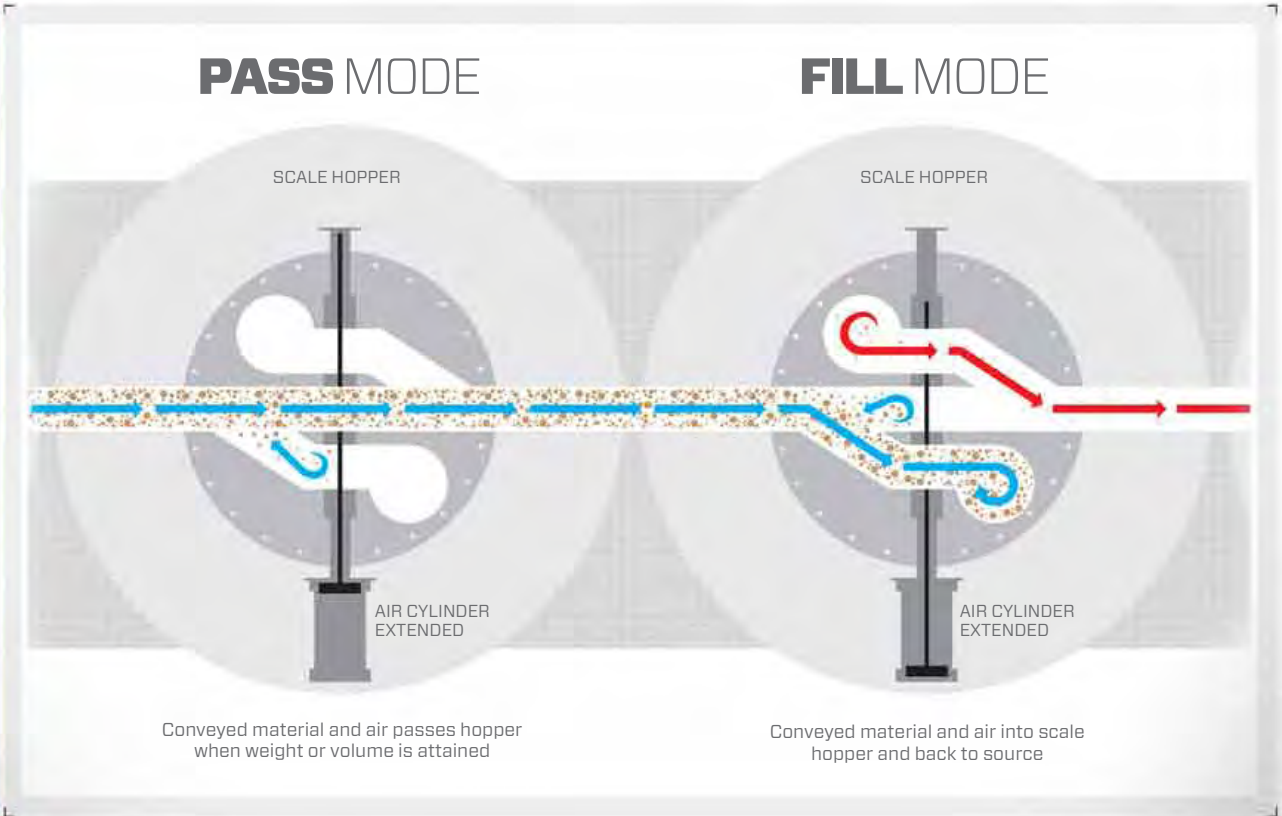


FILLPASS DIVERTER

VALVE PLACEMENT



VALVE MODES - TOP VIEW



BLUE represents airflow toward hopper

RED represents airflow away from hopper

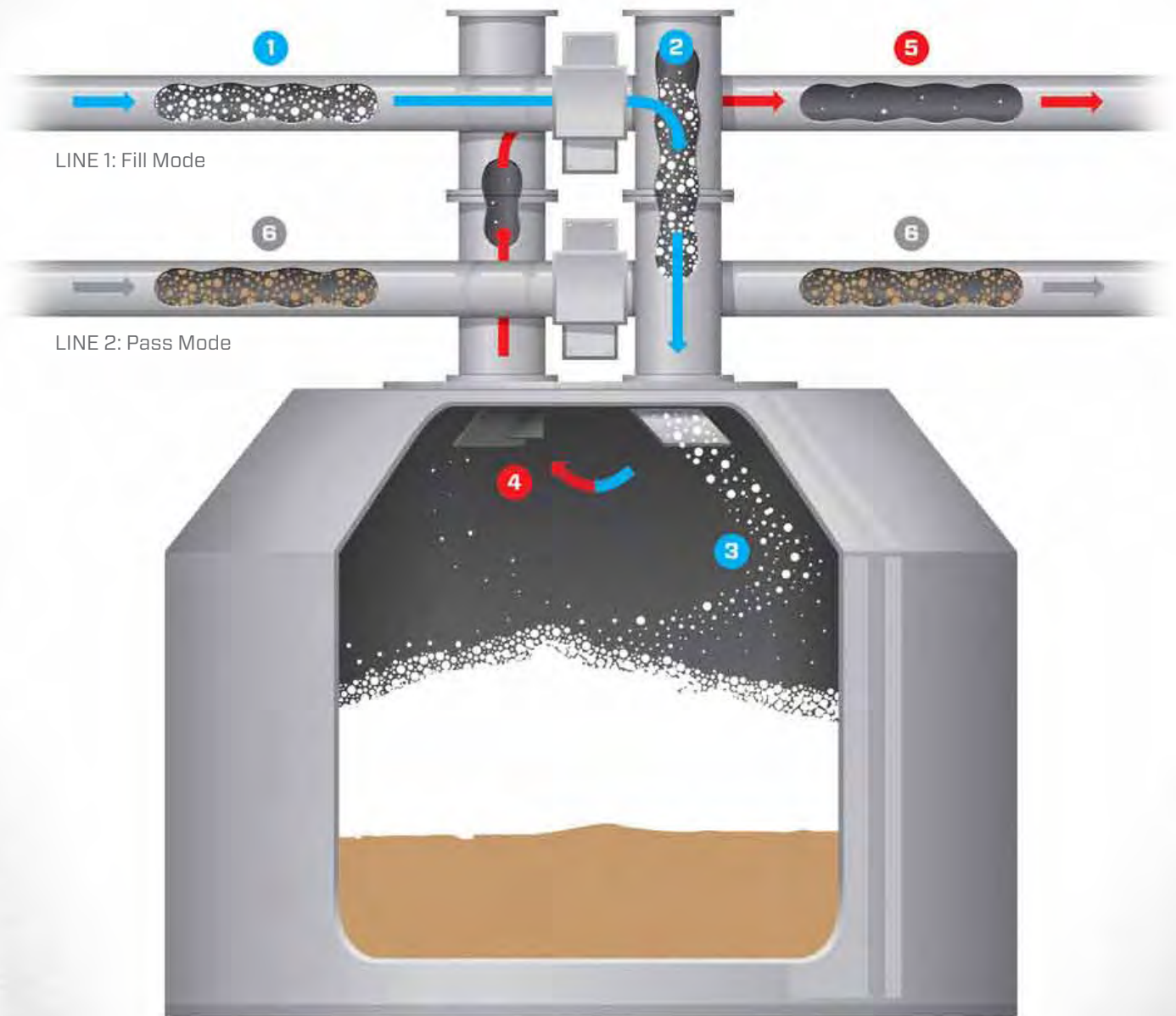
STACKABLE **FILL PASS** DIVERTERS

are used to batch different materials using two separate systems into multiple hoppers

PRODUCT BENEFITS

- Positive seal in pass mode reduces material carryover
- Material and air separation also reduces material carryover
- Less carryover means faster hopper fill times
- Positive seal also results in more accurate batching
- Hopper is vented as it fills eliminating the need for a bin vent
- Stacked Fill Pass Diverters reduce required footprint

- 1 Air and material X move toward hopper in line 1
- 2 Air and material X are diverted down into hopper
- 3 Material X is deflected away from vent as it fills the hopper
- 4 Air is vented back in-line with minimal material carryover
- 5 Air pressure continues in-line with minimal material carryover
- 6 Air and material Z in line 2 move pass hopper when in pass mode



BLUE represents airflow toward hopper

RED represents airflow away from hopper

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