



Valves

Handling the world's dry bulk solids®

VORTEX® HAND SLIDE ORIFICE GATE™

The Vortex® Hand Slide Orifice Gate™ is designed specifically to handle dry bulk solids in gravity flow conveying. A full flow orifice provides unrestricted conveying of material with no disk or ledges to impede flow or cause material bridging. The gate seat and live loaded seals are shielded from blast abrasion by a metal insert. By design, the valve “self cleans” material from the seat on each stroke of the valve blade, improving overall seat life. The Hand Slide Orifice Gate™ is designed to eliminate problems, enabling you to meet your objectives by increasing production, while decreasing labor and equipment costs.

Vortex® Hand Slide Orifice Gate™ Features

- Self-Cleaning Action, No Material Build-Up
- Narrow Profile
- Smooth, Unobstructed Bore for Unrestricted Flow of Material
- Seal Protected from Abrasion
- Easy Installation and Maintenance



Valve Specifications

Size/Bore Options	2", 3", 4", 5", 6", 8", 10" and 12" Diameters
Media	Powder, Pellets, Granulars
Connection Options	SVC Standard Stud Pattern, ANSI, DIN, JIS, Custom Flanges
Media Temperature	Up to 180°F continuous to 250°F intermittent service, Modifications allow up to 400°F continuous to 450°F intermittent service
Media Pressure	0 PSIG, Gravity Only
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	Hand Slide
Position Confirmation	Visual Detection
Compliance/Approvals	CE, ATEX, FDA
Industry Use	Plastics, Petrochemicals, Chemicals, Foods, Minerals, Textiles, Agriculture



Application Specific Modifications

S	Material contact is 316L stainless steel.
P	Mounting studs are removed and special mounting holes matching an ANSI pattern are provided for bolting through the gate flange.
HT3	Modifications are made allowing 250°F continuous to 450°F intermittent service.
HT4	Modifications are made allowing up to 400°F continuous to 450°F intermittent service.
WS1	Gate blade is electro-polished. Polyethylene Terephthalate (PET) pressure plate seals are used to replace nylon.