



Valves

Handling the world's dry bulk solids®

VORTEX® HDP® SLIDE GATE™

The unique “rising” blade design of the patented Vortex® HDP® Slide Gate sets itself apart from traditional industry slide gates by providing positive material shut-off in applications. The HDP® offers the durability and efficiency required to meet today’s material processing demands. Traditional slide gates or butterfly valves are designed to handle gases and liquids, not dry materials. These valves rely on soft seals susceptible to blast abrasion and material packing, eventually allowing leakage of air and material through the valve or to the atmosphere. This causes the need for frequent valve maintenance, production inefficiencies, and unsanitary plant environments. The Vortex® HDP® Slide Gate is designed to prevent these problems, increasing production, while decreasing labor and equipment costs.

Vortex® HDP® Slide Gate Features

- Designed to Handle Abrasive or Sticky Materials
- Positive Seal of Conveying Air and Fine Powders
- Seals Protected from Abrasion
- Easy Installation and Maintenance
- Air Cylinder Model Includes Magnetic Piston



Valve Specifications

Size/Bore Options	4” to 16” Diameters
Media	Powder, Pellets, Granulars
Connection	ANSI, DIN, JIS, Custom Flanges
Media Temperature	Up to 250° F continuous to 300° F intermittent service, Modifications allow up to 400° F continuous to 450° F intermittent service
Media Pressure	Up to +0.5 MPa, 5 barg, 75 psig, depending on size
Metal Construction Options	304, 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 Confirmation	Magnetic Reed Switch
Compliance/Approvals	CE, ATEX, FDA
Industry Use	Plastics, Petrochemicals, Chemicals, Foods, Minerals, Textiles, Agriculture



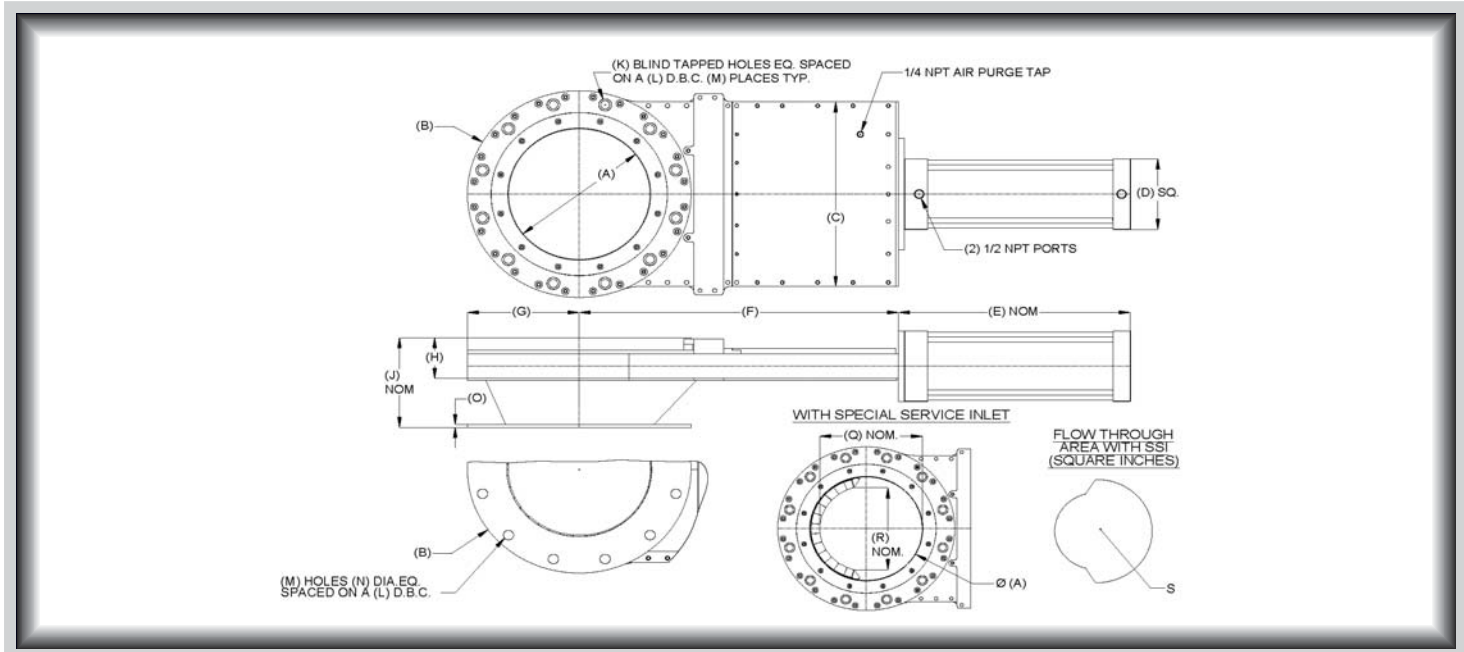
Patent No. 7163191

Application Specific Modifications

SC	Material contact is 304 stainless steel. Replace HR carbon steel insert flange and ring, upper main flange, forward liner, forward bonnet seal retainer, and outlet return pan with 304 stainless steel.
S	Material contact is 316L stainless steel. Replace HR carbon steel insert flange and ring, upper main flange, forward liner, forward bonnet seal retainer, and outlet return pan with 316L stainless steel.
PET	PET replaces Nylon for the blade support guides.
DIN	Replace inlet ANSI pattern flange with flange pattern to match DIN mounting pattern.
HT4	Modifications are made allowing 400° F continuous to 450° F intermittent service.
SSI	Add welded integral special service inlet to standard insert flange and insert ring assembly.



VORTEX® HDP® SLIDE GATE™ DIMENSIONAL INFORMATION



Model	A	B	C	D	E	F	G	H	J	K	L	M	N	O	Q	R	S	WT (Lbs)
HDP04	4	9	9	5 1/8	10 1/2	13-3/4	4 1/2	3 3/4	7 3/4	5/8-11 x .625	7 1/2	8	3/4	1/4	3 3/4	2	7.67	75
HDP06	6	11	11	5 1/2	12 3/4	16-5/8	5 1/2	3 3/4	7 3/4	3/4-10 x .75	9 1/2	8	7/8	1/4	5	3 7/8	20.48	100
HDP08	8	13-1/2	13	5 1/2	14 1/4	20	6 3/4	3 3/4	7 3/4	3/4-10 x .75	11 3/4	8	7/8	1/4	7	5 3/4	39.78	130
HDP10	10	16	15	6 1/2	17 3/4	23-3/4	8	3 3/4	7 3/4	7/8-9 x 1	14 1/4	12	1	1/4	9	7 3/4	65.3	175
HDP12	12	19	17	6 1/2	19 3/4	27-1/8	9 1/2	3 3/4	8 1/4	7/8-9 x 1	17	12	1	1/4	11 5/8	9 5/8	97.14	225
HDP14	14	21	20-1/2	8 1/2	22	31-5/8	10 1/2	3 3/4	9 1/8	1-8 x 1.25	18 3/4	12	1 1/8	1/2	13 1/8	11 5/8	134.27	340
HDP16	16	23-1/2	22-1/2	8 1/2	24 1/2	36-1/8	11 3/4	3 3/4	9 1/8	1-8 x 1.25	21 1/4	16	1 1/8	1/2	15 1/8	13 1/2	178.58	425

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