



Valves

Handling the world's dry bulk solids®

VORTEX® ROLLER GATE™

The Vortex® Roller Gate™ offers quality features at an economical price. This gate is your best choice for handling dry material in gravity flow applications where positive material shut-off and dust tight sealing are required in compact locations. The Vortex® Roller Gate™ is available in a wide variety of configurations to meet customer requirements, including rectangular sizes and customer specific hole patterns.

Vortex® Roller Gate™ Features

- Narrow Profile
- Positive Seal of Dust and Fine Powders
- Seals and Cam Adjustable Nylon Rollers Protected from Abrasion
- Accurate Metering of Material with Optional Metering Controls
- Easy Installation, Maintenance, and in-place Bonnet Seal Replacement



Valve Specifications

Size/Bore Options	150mm to 750mm and larger in Square or Rectangular sizes
Media	Powder, Pellets, Granulars
Connection Options	SVC Flange, CEMA Flange, and/or Custom Flanges
Media Temperature	Up to 82°C continuous to 121°C intermittent service, Modifications allow up to 204°C continuous to 232°C intermittent service
Media Pressure	0 barg, Gravity Flow Only
Metal Construction Options	Aluminium, 304 or 316L Stainless Steel, and Carbon Steel. Material contact is 304 or 316L Stainless 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, Electric Actuator, Hydraulic Actuator, Hand Crank, or Chain Wheel
Position Confirmation	Magnetic Reed, Proximity, or Mechanical Limit Switches
Compliance/Approvals	CE, ATEX, FDA
Industry Use	Plastics, Petrochemicals, Chemicals, Foods, Minerals, Textiles, Agriculture

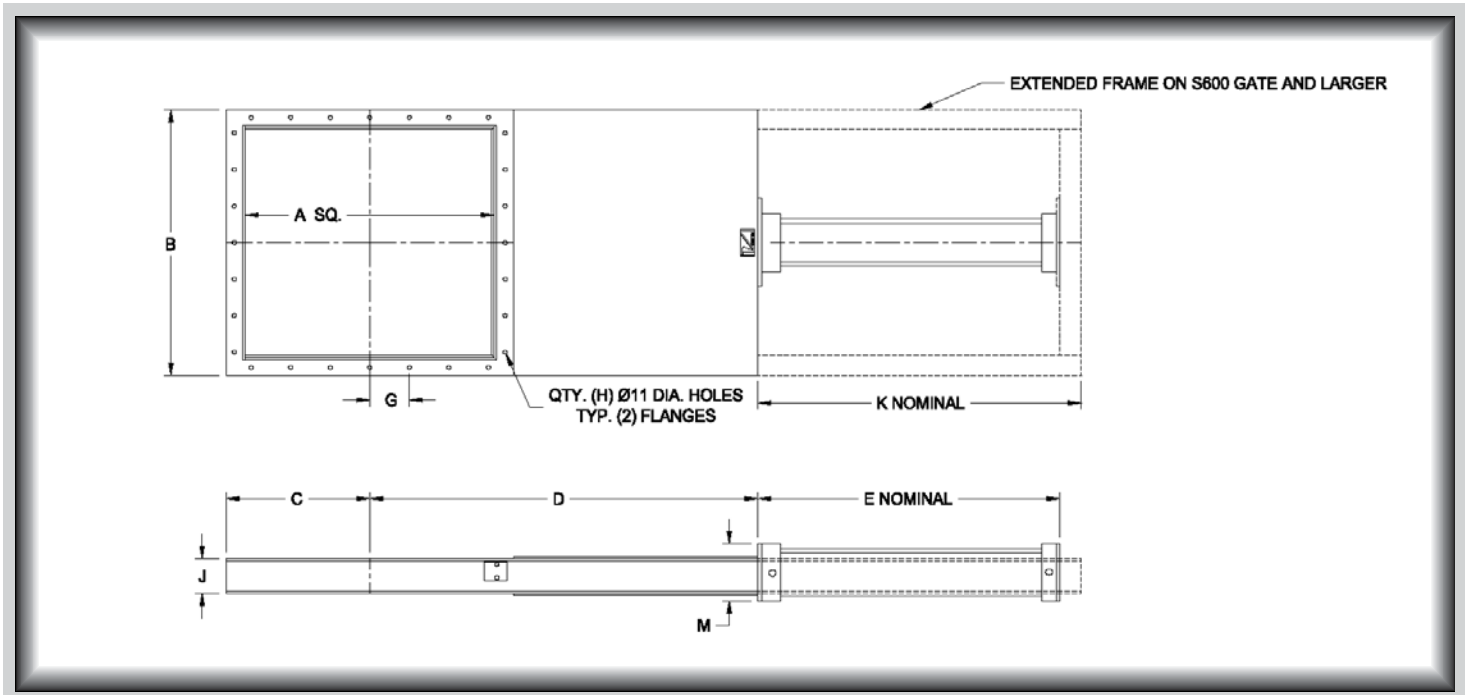


Application Specific Modifications

S	Material contact is 316L stainless steel.
MG	Air cylinder has a magnetic ring which activates a magnetic reed position indicating switch.
HS	Hardened steel cam rollers replace standard nylon cam rollers.
HT3	Modifications are made allowing 121°C continuous to 149°C intermittent service.
HT4	Modifications are made allowing up to 204°C continuous to 232°C intermittent service.
WS1	Slide Blade is electro-polished. Polyethylene Terephthalate (PET) dust seals are used to replace nylon.
SB	Bonnet is manufactured with solid covers and has a gasket. (Allows the valve to accept air purge.)
RS	Access ports are provided for removing/replacing worn bonnet seals.



VORTEX® ROLLER GATE™ DIMENSIONAL INFORMATION



Model	A	B	C	D	E	F	G	H	J	K	WT (kg)
S150	152	254	127	305	279	114	105	8	76	--	14
S200	203	305	152	381	330	114	89	12	76	--	17
S250	254	356	178	457	381	114	114	12	76	--	20
S300	305	406	203	533	432	114	70	20	76	--	22
S350	356	457	229	610	483	114	83	20	76	--	27
S400	406	508	254	686	533	140	95	20	76	--	34
S450	457	559	330	762	584	140	108	20	76	--	38
S500	508	610	305	838	635	140	76	28	76	--	45
S550	559	660	406	914	686	140	89	28	76	--	63
S600	610	737	368	991	--	140	95	28	102	813	77
S750	762	889	445	1220	--	140	92	36	102	959	91

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