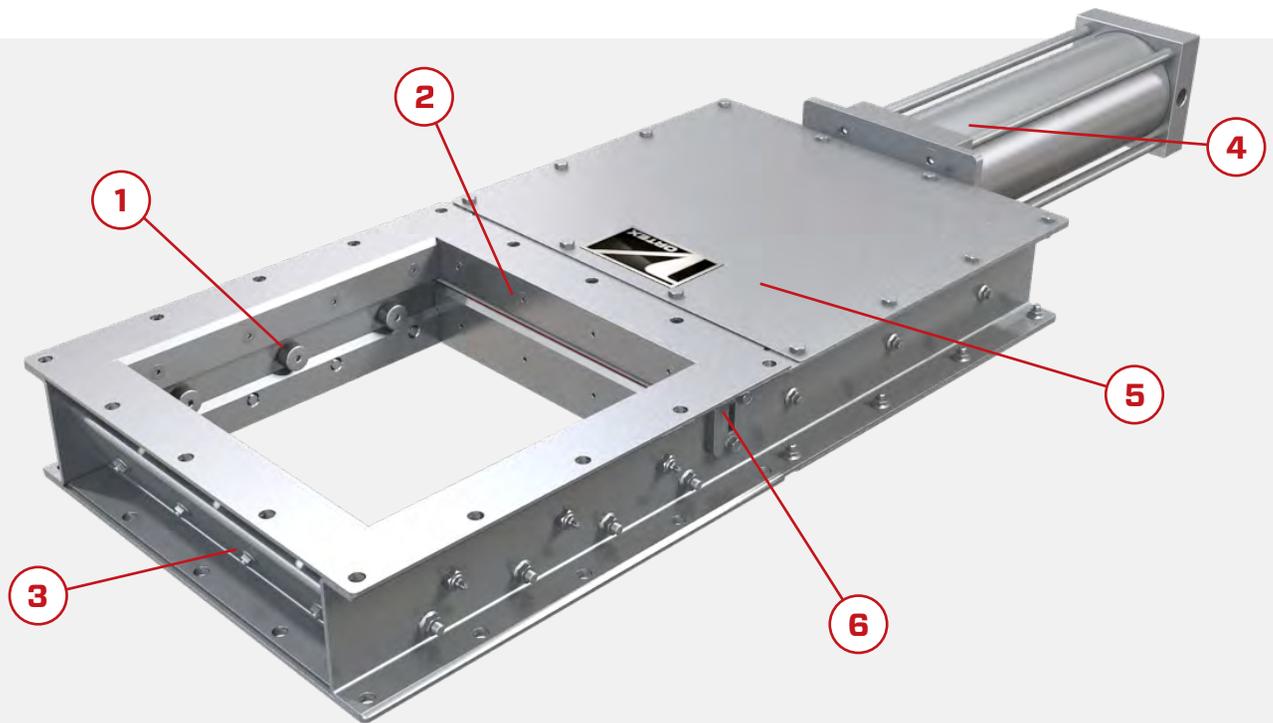


TSG Gate

The Vortex TSG Gate is designed to meet the most demanding applications when handling heavy-duty abrasive materials such as sand, gravel, coal, and whole grains. The TSG Gate handles dry material in gravity flow applications where positive material shut-off and dust-tight sealing are required. This slide gate is available in a wide variety of configurations with rectangular sizes and customer specific hole patterns.

Conveying Types :

- GRAVITY FLOW
- DILUTE PHASE PNEUMATIC CONVEYING
- DENSE PHASE PNEUMATIC CONVEYING

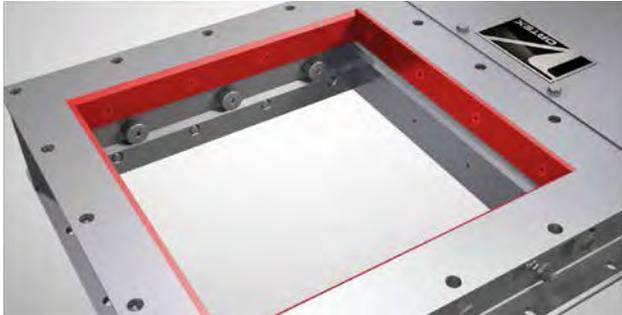


- | | | |
|---|---|---|
| <p>1 Adjustable Rollers
Externally greased hardened steel adjustable rollers are used to keep the blade dust tight</p> | <p>2 Abrasion Resistance
Replaceable abrasion resistant liners and blade extend the service life of the valve by reducing wear</p> | <p>3 Displacement Pocket
The TSG is engineered with a displacement end pocket to help prevent material packing</p> |
| <p>4 Actuation Options
The Vortex TSG can be actuated with the following options: Pneumatic, electric, hydraulic and manual configurations</p> | <p>5 Bonnet Purge
The optional bonnet purge is utilized to keep material out of the body of the valve and in the material stream</p> | <p>6 Replaceable Seals
Wear compensating hard polymer seals help prevent material leakage</p> |
| <p>+ Available Sizes
Standard sizes range from: 6" - 36" (150mm - 600mm)
Contact us for custom sizes</p> | <p>+ Materials Handled
Designed to handle highly abrasive materials: minerals, frac sand, fly ash and whole grains</p> | |



For application photos or a complete list of specifications and dimensional drawings, visit

WWW.VORTEXVALVES.COM



Abrasion Resistant Liners & Blade

Abrasion resistant liners positioned at the inlet of the gate address potential wear issues that may exist from either the volume or the abrasiveness of the material being handled. The liners are replaceable, when needed. The gate's blade is also manufactured of abrasion resistant steel. The combination of the abrasion resistant blade and liners are important in providing a gate that offers longevity and an exceptional life-cycle cost.



Wear Compensating Seals

Pressure loaded, polymer bonnet seals offer a dual purpose. They act as a wiper for material that may be on the blade as the blade retracts. They also seal material from entering the bonnet area of the gate. The "live load" on the back of the seal strip continues to apply pressure to the seal even as it wears. At a certain wear point, seals may be accessed and replaced from the outside of the gate, while the gate remains inline.

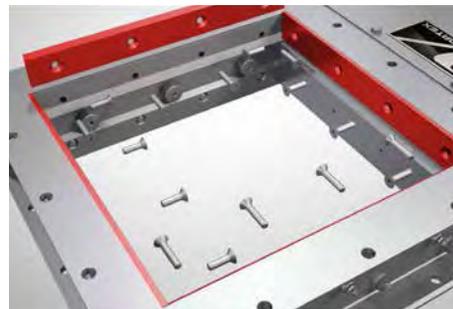


Displacement End Pocket

A displacement pocket accepts material that may exist at the leading edge of the blade as the blade closes. Rather than the blade jamming and packing this material into an end seal, the blade stops part way into the pocket. Material falls away from the blade and re-enters the material flow stream area. This feature can increase the valve's service-life and reduce downtime costs related to maintaining and replacing end seals.



Externally-greased cam adjustable rollers allow for easy blade adjustments



Replaceable abrasion resistant liners significantly increase valve life



The replacement seals are removable while in-line for easy seal replacement

DETAILS

MAINTENANCE