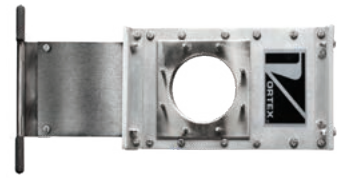


Model No. FHSXX

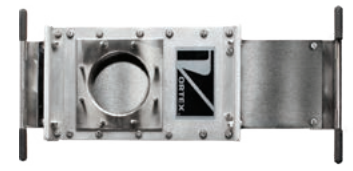
HANDSLIDE GATE

Ideal application: Manually operated process gate, used to control flow on the inlet/outlet of hoppers, bins or totes in applications where powered gates are not feasible or desired.

Purpose: Push-pull actuation from either side of the gate makes opening/closure a quick and easy process.

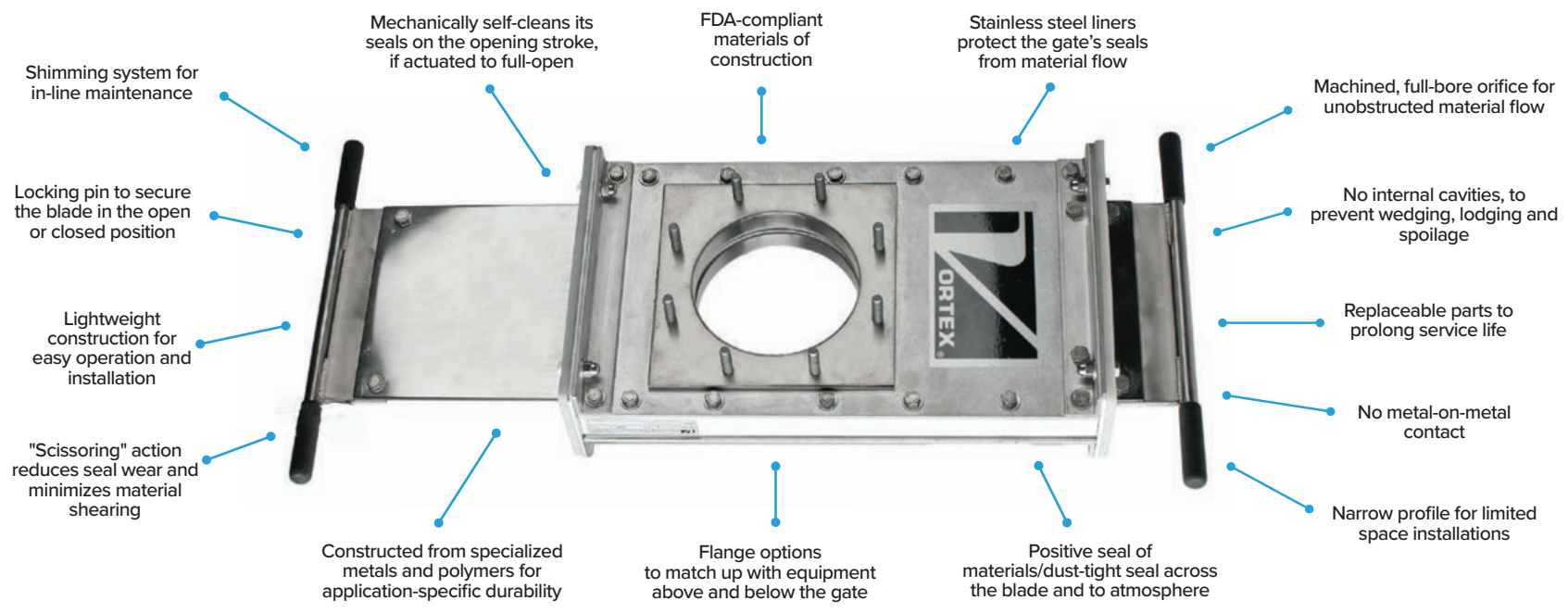


Single Handle

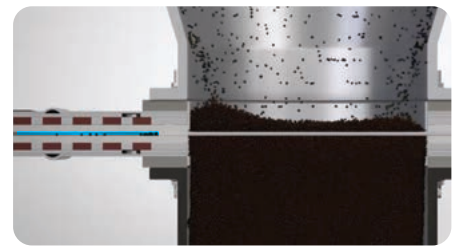


Double Handle

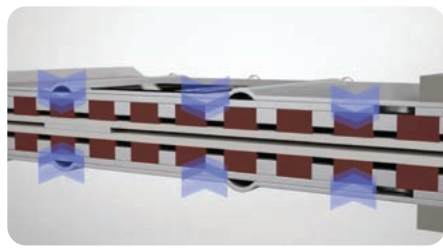
OPTIONS



KEY FEATURES



Displacement area as an alternative to packing materials into an end seal



Live loaded, wear compensating hard polymer pressure plate seals



Shimming system for in-line maintenance

TECHNICAL SPECIFICATIONS

Conveyance Type	Gravity flow only. Contact us to discuss suitability for use in low pressure/vacuum applications.
Materials Handled	Non-abrasive to moderately abrasive powders, pellets and granules. Modifications available for handling corrosive materials and/or for wash-down.
Standard Sizes	2 – 14 in 50 mm – 355 mm ID & OD diameters are available. Also available in schedule 10, 20 or 40 pipe sizes.
Opening	Available in round sizes
Overall Height	4 – 5 in 90 – 120 mm
Weight	10 – 95 lb 5 – 45 kg
Flange Options	Standard stud bolt pattern Modified pipe flanges available
Material Temperatures	180° F 80° C for standard gate, with modifications that allow up to 400° F 205° C
Body/Frame Construction	Aluminum
Material Contact Options	304 or 316L stainless steel
Pressure Plate Options	Nylon, PET, UHMW-PE, 25% glass-filled PTFE, molybdenum disulphide-impregnated nylon
Load Seal Options	Natural rubber and/or silicone rubber
Drive/Actuation	Push-pull handle
Other Options	Special Service Inlet (see page 67)
Compliance	ATEX Zone 20 (internal), ATEX Zone 21 (external), FDA



THE POWER OF COMPARISON

Vortex Handslide Gate vs. Alternatives

The Vortex® Handslide Gate™ is a highly versatile solution. It is often used in applications where air supply is not available, in filling applications where iris diaphragms are not feasible, or as a cost-effective alternative to using powered process gates in low actuation applications.

- Iris diaphragms are limited in scope, compared to the Handslide Gate. Because iris diaphragms feature a fabric sleeve, most are designed to handle bulk densities < 40 lb/ft³. Because the Handslide Gate features a solid sliding blade, it is well-designed for handling bulk densities above that threshold.
- The fabric sleeve of an iris diaphragm is not designed to handle corrosive materials. Oppositely, the Handslide Gate's material contact areas are constructed from stainless steel to provide appropriate corrosion resistance.
- The fabric sleeve of an iris diaphragm is not designed to seal against fine materials. The Handslide Gate's solid sliding blade and hard polymer pressure plate seals provide a positive seal of materials across the gate and to atmosphere.
- It is not recommended to close an iris diaphragm through a flowing column of material. Doing so can cause wear and potentially break the diaphragm's internal control ring. The Handslide Gate's solid sliding blade is durable, allowing it to be closed through a flowing column of material.
- Many alternative slide gates rely on soft rubber seals which are directly exposed to the material flow stream. These seals rapidly erode or tear away in service. Others rely on bonnet packing, which can relax and allow material packing in the seals. These deficiencies promote leakage of materials and dusts past the gate and to atmosphere, in addition to actuation issues and several other maintenance concerns. The Handslide Gate addresses these issues by incorporating "live loaded" hard polymer pressure plate seals. Hard polymer provides greater wear resistance and longer service life than alternative sealing materials. The hard polymer seals are "live loaded" with compressed rubber backing to ensure even as the polymer experiences frictional wear from many actuations over time, the rubber load seals continuously force the polymer seals against the blade. The seals are also shielded from the material flow stream, to protect them from abrasion. This design maintains the gate's positive seal of materials/dust-tight seal with infrequent maintenance intervention.
- If the pressure plate seals have partially worn and the compression load is lessened, slight dusting may be present along the push-pull handle. With this maintenance indication, the Handslide Gate's shimming system can be utilized to restore the gate's dust-tight seal. Unlike alternative valves, which require spare parts be kept on-hand for seal maintenance, the Handslide Gate requires removal of parts. By simply loosening the nuts along the lateral aspects of the gate, shim(s) can be removed from each side and the nuts retightened to restore the pressure plate seals' compression load. This maintenance process can be performed while the gate remains in-line, and can be repeated several times before the shims and pressure plate seals must be replaced.

For more information & technical resources, please visit:

www.vortexglobal.com