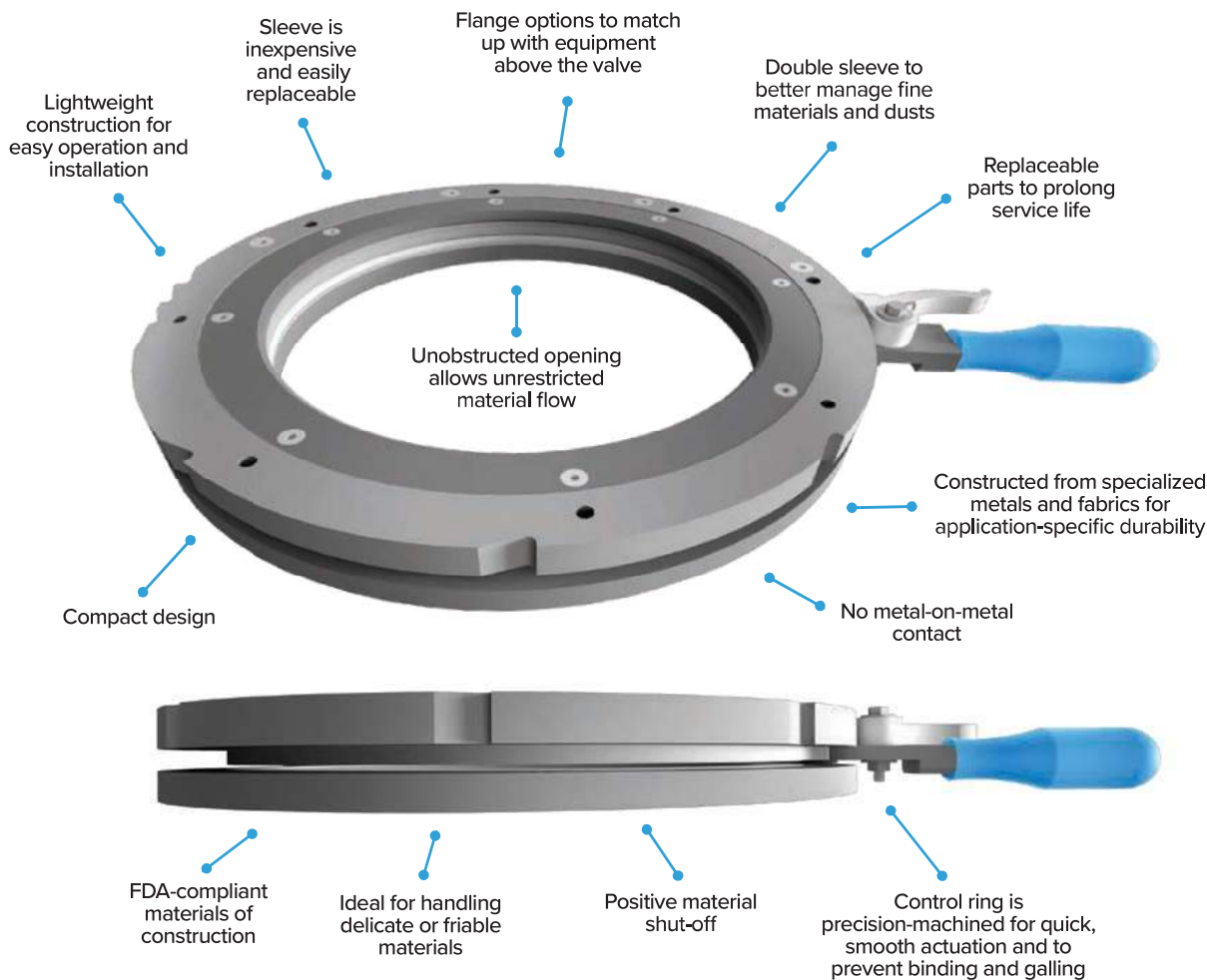


Model No. UBXX

IRIS VALVE

Ideal application: Manually control the gravity discharge of free-flowing dry bulk solid materials.

Purpose: The Vortex® Iris Valve opens from and closes toward the center of its opening to create a gradual flow or restriction of materials. This design ensures an even discharge of materials and allows manual control over flow rates. The Iris Valve's fabric sleeve and gradual closing action protect delicate and friable materials from degradation. When fully closed, the Iris Valve's fabric sleeve is twisted to the point that it becomes a flat, tight barrier to hold back materials.



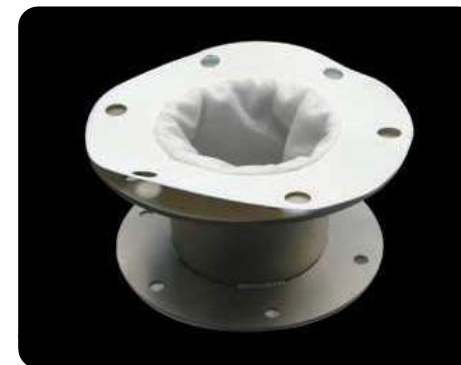
KEY FEATURES



Optional preset positions for quick adjustments in material flow rate



Control ring constructed from stainless steel, for increased torque and added durability



Optional replaceable wear liner reduces material contact with the sleeve to extend service life

TECHNICAL SPECIFICATIONS

Conveyance Type	Gravity flow only
Materials Handled	Non-abrasive to moderately abrasive powders, pellets and granules
Standard Sizes	4 – 18 in 100 – 455 mm
Overall Height	2 in 40 mm
Weight	2 – 75 lb 1 – 35 kg
Connection Options	Standard flange or tube stubs Ferrule-type fittings available by request
Material Temperatures	Up to 150°F 65°C
Material Bulk Density	Up to 40 lb/ft ³ Contact us to discuss options for greater bulk densities
Body/Frame Options	Aluminum, 304 or 316L stainless steel
Sleeve Material Options	Urethane, silicone, Buna-N nitrile rubber, PTFE, static dissipative
Control Ring Construction	Stainless steel
Position Confirmation	Visual indication via handle position
Compliance	ATEX Zone 20 (internal), ATEX Zone 21 (external), FDA



DRIVE/ACTUATION TYPES



Infinite position hand lever: Designed with a twisting lever which must be loosened to adjust valve position and tightened to secure the valve in place. Valve position is infinitely adjustable along a 180° horizontal plane. The infinite position hand lever is constructed from stainless steel.



Quick-lock hand lever: Notches are made in the metal valve body to create preset positions. The quick-lock hand lever is designed with a spring-loaded hammer to secure the valve at each set point. This allows for quick material flow adjustments. The quick-lock hand lever and its spring-loaded hammer are both constructed from stainless steel.



Tote handle: The tote handle is constructed from stainless steel and operates much like the quick-lock hand lever, only squeezing a trigger rather than pushing a spring-loaded hammer.

THE POWER OF COMPARISON

Vortex Iris Valve vs. Alternatives

- The Vortex® Iris Valve is designed with a form-fitted fabric sleeve that creates a barrier to prevent material leakage to atmosphere. The fabric sleeve also prevents materials from coming in contact with the valve's moving parts. With several sleeve material options available, an Iris Valve can be designed for most dry bulk solids material handling applications, including abrasion-resistant and food-friendly, among others.
- Many alternative iris valves are constructed with plastic control rings, trigger locks and handles. Such construction renders iris valves nondurable and unreliable. To address these durability concerns, the Iris Valve is constructed with a stainless steel control ring, as well as a metal trigger lock and a metal handle.
- The Iris Valve is constructed from precision-machined parts, to reduce wear and ensure smooth actuation.

For more information & technical resources, please visit:

www.vortexglobal.com