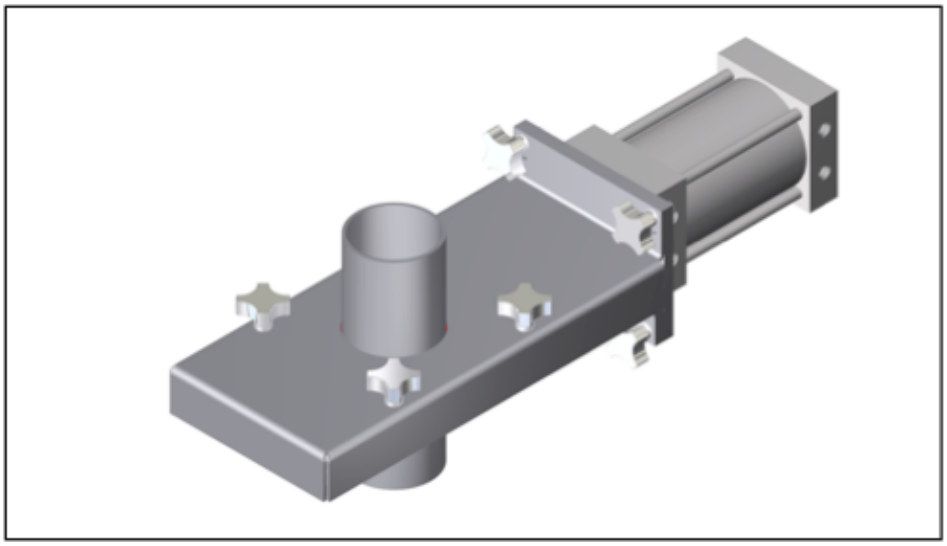
Series "K" Easy Clean Valve – White Paper

The Lorenz Series "K" Easy Clean Slide Gates are ideal for applications where there is a need to frequently clean the gate to prevent product contamination. Intended for use in a gravity feed application, the Series K Easy Clean Easy Clean Slide Gate will effectively and reliably control product flow with minimal leakage. Frequent cleaning is essential to ensure that the Easy Clean Slide Gate functions correctly. Cleaning of the interior of the Easy Clean Slide Gate is accomplished by easily dismantling the gate by hand, without the use of tools.



The standard gate is constructed from 304 Stainless Steel (Body components, Inlet and Outlet stub and Blade) and utilizes UHMW pressure plates. 316 Stainless Steel construction is also available.

The Easy Clean Slide Gate is available in various configurations to suit most applications. Lorenz Valves are designed for dry materials only. Using Lorenz valves with damp or wet material is not recommended. Standard UHMW pressure plates can be substituted with PET pressure plates for applications involving sugar or other sticky materials or Teflon for high temperature applications. For mineral based applications, Molybdenum impregnated Nylon can be used to increase wear resistance and reduce friction.

The Easy Clean Slide Gate is designed to be easily installed using Lorenz Bolted or Quick Release Heavy Duty Couplings. Sanitary Ferrule Connections are also available. Both connection styles will allow the gate to be quickly disconnected from the line, cleaned and returned to service.

There are two actuation options for the Easy Clean: Pneumatic and Manual Push Pull. Pneumatic actuation is accomplished using a standard Lorenz Cylinder which has Aluminum Heads and body, Stainless Steel tie rods and a plated steel shaft. Internal magnets are standard which allows the use of magnetic proximity switches to indicate valve position. The pneumatic Cylinder is sized to be operated at, at least, 80psig. If the pneumatic supply is less

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