

We develop and manufacture industrial valve solutions through constant, orderly and structured innovation.

We believe that progressing is taking the step, being the first, from the perseverance and creativity of a professional, ingenious and motivated team.

Innovation in movement, easily adapting and overcoming every single obstacle.

Flowing innovation



Engineering services to determine flow coefficient and capacity for valves.



Finite Element Analysis for components and assemblies, including a wide variety of loads, pressures, temperature distributions, etc...



Valve sizing and selection.



Customized special designs.



Component replacements and special parts.



NDE tests such as VT, RT, PT, MT and UT.



Equipment start-up supervision.



Maintenance works.

Quality

Our Quality Management System ensures every product is delivered with the required quality level and comply with all the established requirements. It conforms to the quality management ISO 9001:2015 standard, as well as the following directives:

- | Pressure Equipment Directive PED 2014/68/UE.
- | Machinery Directive 2006/42/EC.
- | Explosive Atmosphere Directive 2014/34/UE.



Roosevelt XA

Lined knife gate valves by Roosevelt Valves

At **Roosevelt**, every development has in-house engineering and manufacturing facilities for a wide range of industrial applications anywhere in the world.

We work from the delivery and dedication, from the person. Always open to any need, project, industry and customer. With the proactivity and intelligence necessary to face any challenge proposed to us. An engineering and manufacturing team that goes hand in hand with the customer, to always offer a reliable product, with high performance and durability.

Our Roosevelt XA Type lined knife gate valves are classified as following, depending on design pressure:

XAS MODEL LINED KNIFE GATE VALVES

XAH MODEL HIGH PRESSURE LINED KNIFE GATE VALVES

Beyond the valve

Roosevelt XA Lined knife gate valves are engineered and built to handle extreme working conditions for abrasive fluids and high-pressure services. In addition, our XA type knife gate valves provide a bubble tight shut-off and extended service life for the most demanding mining and mineral processing applications.

The main characteristic of the lined knife gate valve is that it provides a full continuous flow. Thanks to the combination of its specially designed polyurethane sleeve and the split body design, when the knife fits completely the sleeve zero-leakage is achieved. Thanks to the replaceable sleeve concept valve maintenance can be easily done, even on field. Installation of this equipment is done between pipeline flanges, which flange drilling can be made according to customer specifications or **Roosevelt** standard.





 **SIZE**
UP TO
DN600

 **DESIGN
PRESSURE**
UP TO
**20bar/
285psi**

 **WORKING
TEMPERATURE**
UP TO
200°C

 **ON
REQUEST**
**CUSTOMED
DESIGN**

Self-flushing design.

where no solid can be stacked.

The main characteristic of this Lined knife gate valve design is that it provides a self-flushing concept where no solids can be stacked. As the knife gate closes, flow area is reduced thus increasing flow velocity and turbulences. These turbulences create a self-flushing performance in the inner sleeve groove and ensures a tight sealing when knife gate finally is fully closed.

Roosevelt XA Lined knife gate valves are designed with top quality materials and abrasion resistance special polyurethane able to isolate severe slurries time after time, regardless of how often the valve is actuated.

True bi-directional zero leak shut-off.

designed to avoid atmospheric leakage.

The valve is fully symmetrically designed and it's able to withstand the fluid media in both directions. A specially designed outgoing molded profile among the U-shaped area, ensures a perfect match between the sleeve and the knife gate plate, providing a full tightening performance for the most demanding applications.

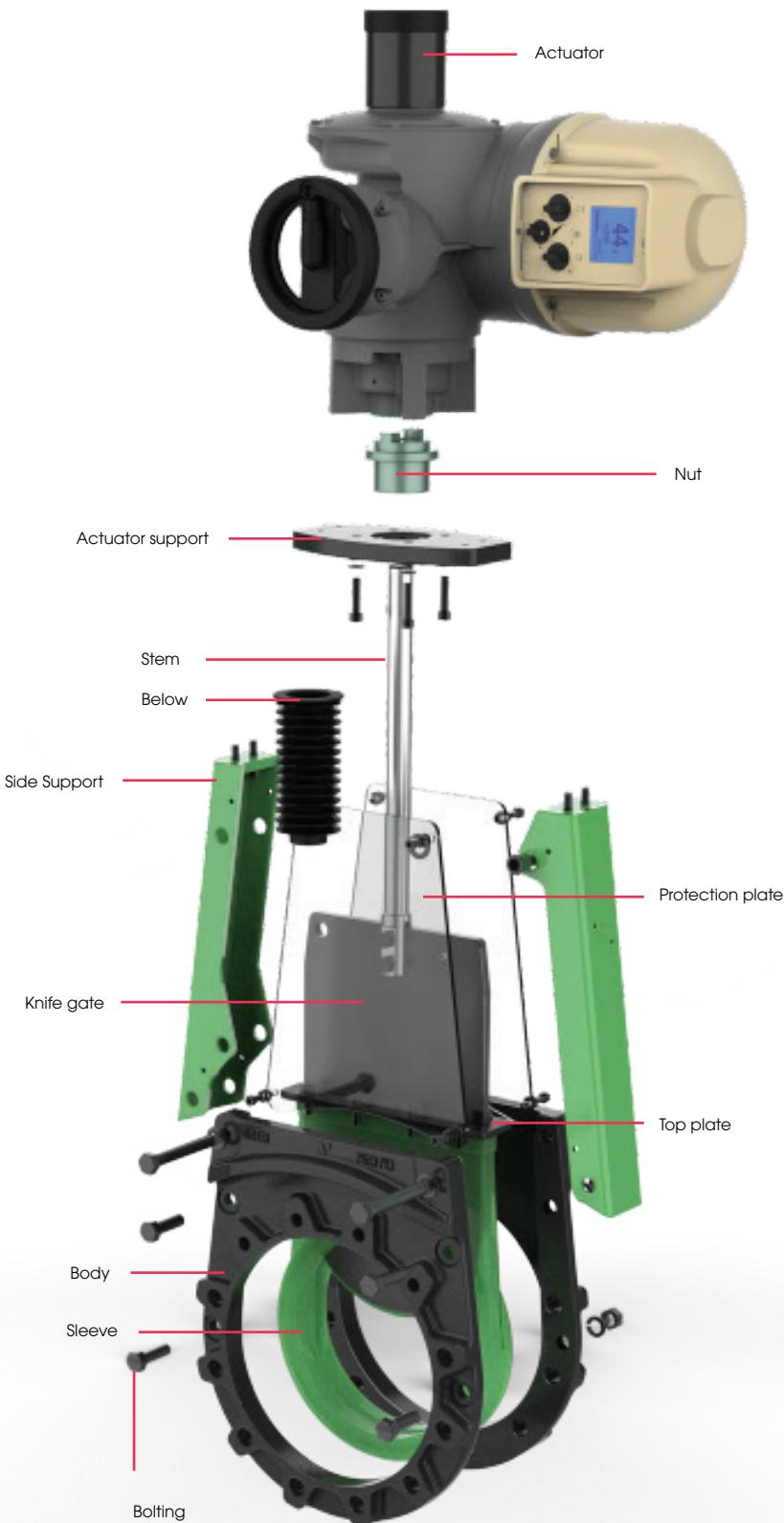
Every design is fully hydrostatically tested at our facilities according to API 598, testing the valve seat at 1.1 times the design pressure in both directions.

Easy maintenance. A cost-effective solution.

easier maintenance for a longer valve life.

The split-body construction and the snap-in sleeve design allows maintenance to be an easy work that can be performed on field. There is no need to return the valve to factory for repair as a fully lined solution can be replaced on-site.

Valve life is increased considerably in comparison with actual slurry knife gate valves with sleeves concept, in addition to its easy maintenance and superior performance we are sure that Roosevelt XA Lined knife gate valves are a great cost-effective solution.



Main features

Working pressures up to 20bar.

High flow rates and low pressure drops.

Tailor-made solutions.

Epoxy coating for carbon steel components.

Sizes up to DN600.

Bi-directional leakproof design.

Rising or non-rising stem design.

On/Off service.

ISO 5211 drillings for interchangeable actuators.

Pneumatic, Hydraulic, Electric or manual actuation.

Working temperatures up to 200°C.

Flange drillings to most standards.

Special materials or treatments on

Robust and reliable design.

Removable inner sleeve.

Easy maintenance.

Rising or non-rising stem design.

Mining and minerals processing

The Mining and mineral processing Industry has hundreds of different critical processes, from the grinding circuit through to the refined or smelted products, that require reliable and cost-effective engineered valve solutions.

Roosevelt Knife gate valves are engineered and built to handle extreme working conditions for abrasive fluids and high-pressure services. In addition, our XA type knife gate valve Series provide a bubble tight shut-off and extended service life for the most demanding mining and mineral processing applications.

Slurry transfer • Cyclones • Coal Transport • Ore Processing • Filter Tanks • Thickeners • Tailings • Pelletizing • Sand and Silica Reduction • Dewatering Systems Mud Washing • Acid Leaching • Grinding Circuit • Ball Mills

Pulp and paper

Finding innovative ways of increasing production yields while lowering operating costs is mandatory to succeed in the pulp and paper applications. Our Knife gate valves are the ideal solution for the pulp and paper industry.

Cyclone Discharge • Recycled Paper • Kraft Fiberline • Hydrocyclone • pH Addition Black Liquor • Green Liquor Lime • Paper Additives • Batch Digester Gas Relief • Brown Stock Rejects • Boiler Feedwater

Power generation

Plant availability can be affected by unplanned downtime, unpredictable power generation, high maintenance costs, and adherence to changing environmental and safety regulatory requirements. **Roosevelt** Knife gate valves solutions are flexible and can be specially made to fit customer needs.

Coal Handling • Incineration Plants • Bottom Ash • Wet Lime Scrubbers • Co-Generation • Dewatering Pump Isolation • Hydrocyclone Feed • Coal Combustion Residuals • Filter Feed Tank Isolation

Water treatment

Valves for wastewater applications require an excellent flow characteristic and be able to withstand the media settling. Roosevelt XA type lined knife gate valves incorporates unique design features to provide a reliable operation able to cut through difficult dry media.

Wastewater Treatment • Sewage Treatment • Effluent treatment plant • Equalization tank mixing systems • Salt Crystallization • Raw Water Inlet • Influent Flow Equalization • Grit Removal Systems • Scum Control • Waste Activated Sludge • Lime Slurry and pH Control