



# CLARKSON™ Slurry Knife Gate Valves

Superior sleeve technology delivering 100% isolation, time and time again

Slurry services are unforgiving on isolation valves. In these applications, inferior valves quickly succumb to premature wear and fail. It's not long before plant throughput suffers and maintenance budgets escalate.

Since pioneering the design more than 40 years ago, Emerson's Clarkson Slurry Knife Gate Valves have been trusted by customers to safeguard their employees, improve plant performance, and control maintenance costs.

Key to this success is the premier technology engineered into each and every Clarkson sleeve:



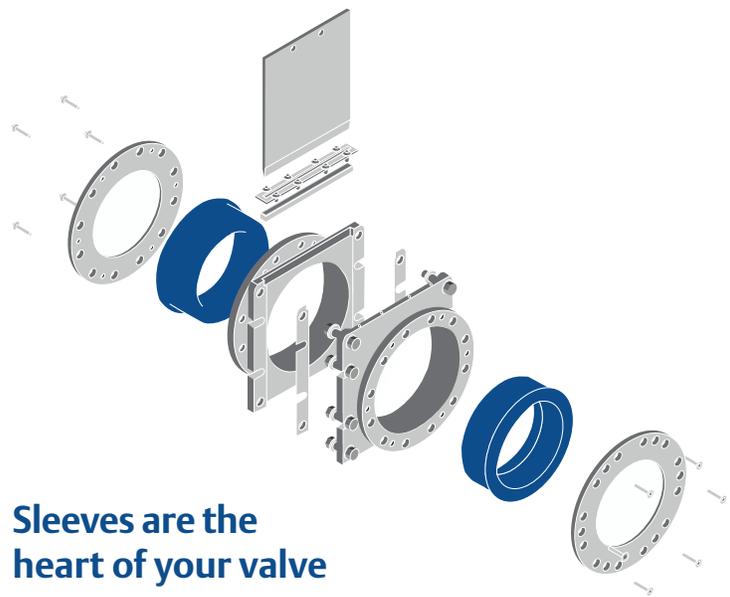
Sleeve mechanics designed to ensure **100% shutoff** as the sleeve compresses and fully recovers, **every time**.



**Advanced elastomer formulations** and a **molding process** perfected over 40 years of proven, repeatable performance.



A simplified design enabled for **rapid maintenance**, and a network of local service centers for **on-hand parts** and **support**.



## Sleeves are the heart of your valve

These unassuming black polymer rings are the critical components that contain your process line pressure and the often hazardous media that flows within.

Emerson's Clarkson Slurry Knife Gate Valves are engineered to excel in these conditions. And when it comes time to replace the sleeves, only **genuine Clarkson sleeves** will ensure the same integrity of your processes.

Don't entrust the safety of your people, plant, and the environment to anything less than the genuine article.

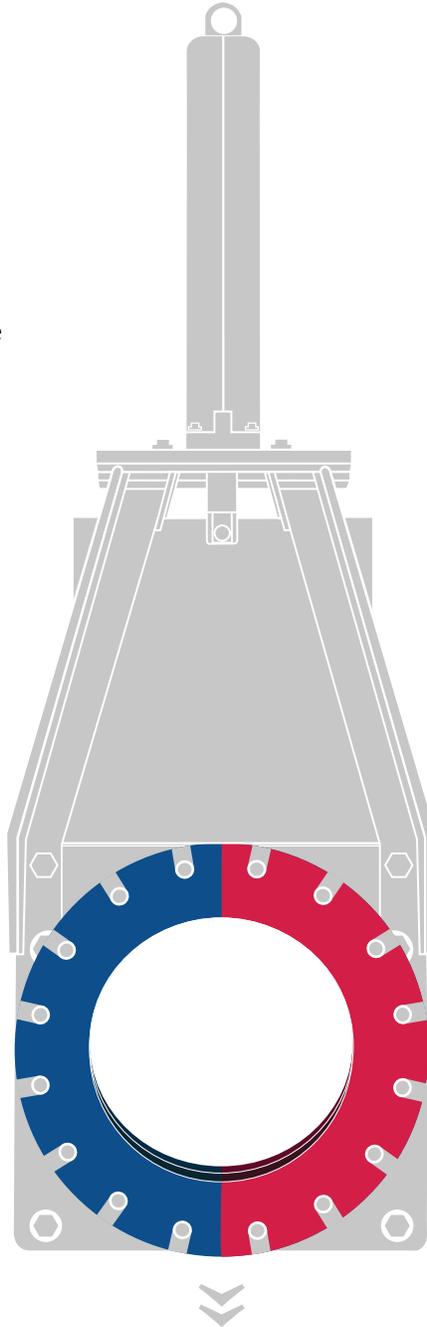
**CLARKSON™**

# CLARKSON™ Slurry Knife Gate Valve Sleeves

Your Clarkson Slurry Knife Gate Valves are a capital investment. Maximize your return and build a sustainable advantage in your business with OEM certified sleeves that deliver superior performance and value over the full valve lifecycle.

## Genuine Clarkson™ Sleeves

- 1 Achieve extended valve life** with optimized sleeve durometer that allows sufficient elastomer memory for ideal compression on the gate while ensuring 100% man-safe, positive isolation.
- 2 Run your processes for longer** with valve sleeves supported by a fully encapsulated stiffener ring that resists the heavy shearing forces during actuation, while remaining protected from corrosion.
- 3 Bank on longer performance** with Emerson's trusted and patented compound formulations that maximize resistance to compression-set, tear, wear, rolling, bursting, and chemical attack.
- 4 Rest assured of the highest quality** every time you see the Clarkson name. Each sleeve is rigorously tested by our elastomer experts to ensure identical, industry-leading performance.
- 5 Get back to production faster** with Clarkson valves that feature a simplified two piece mirrored design requiring no special tools or machining for rapid sleeve replacement.
- 6 Minimize downtime and inventory costs** with the support of Emerson's service center network that stocks spares and repair kits locally for delivery when and where you need them.



## Low Cost Imitation Sleeves

- Excessive sleeve hardness requires increased actuation force that can **strain and damage the gate** and surrounding components, while inadequate compression can lead to **continuous valve leakage**.
- Sleeves without a stiffener ring can quickly become **permanently deformed under compression** resulting in leakage. The same can occur in unproven designs where the stiffener ring and sleeve is **poorly bonded**.
- Risk premature wear and failure with sleeves made from elastomers that other manufacturers **haven't spent 40 years perfecting**, to optimize resistance to the harsh conditions faced in slurry service.
- It is highly unlikely that imitation sleeves have the **precise geometry within validated design tolerances** to fit your Clarkson valve housings and provide effective sealing against the gate.
- Imitation replacement sleeves don't come certified with **Clarkson's unique laser-etched identifiers** that help track your assets over their full lifecycle and access **extended warranty support**.
- When **imitation sleeves repeatedly fail prematurely**, only an expert valve partner can help you solve rising maintenance budgets by reducing the total cost of ownership of your valves.

**Your choice of Slurry Knife Gate Valve sleeves can be the difference between a productive, profitable process and a decommissioned unit.**

**Don't risk the safety of your people, your equipment, or the environment when you can get the right sleeves, right now.**

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