

## HERA®-BD – Knife Gate Valve with Bi-directional Seal Applications



HERA®-BD with handwheel

### Applications:

For water, waste water and solids-laden fluids in:

- Industrial plants and process engineering
- Waste water, sludge or rainwater treatment plants
- Food and beverage industry
- Biogas plants

### More information:

[www.ksb.com/products](http://www.ksb.com/products)



HERA®-BD with pneumatic actuator



HERA®-BD with electric actuator



HERA®-BD with lever

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## Corrosion-resistance

All nodular iron and steel components are protected by high-quality epoxy coating.

## 1 Straightforward installation of pneumatic and electric actuators and position switches

This is ensured by a robust and compact steel mounting yoke. A hard anodised aluminium NAMUR adaptor plate attached to the actuator also allows proximity switches or solenoid valves to be quickly installed (plug & run).

## 2 Reliable and service-friendly stem seal

The gland packing is made of PTFE impregnated fibre and can be re-adjusted during operation. When replacing the packing, there is no need to remove the valve from the piping.

## 3 High functional reliability and safe sealing in both flow directions

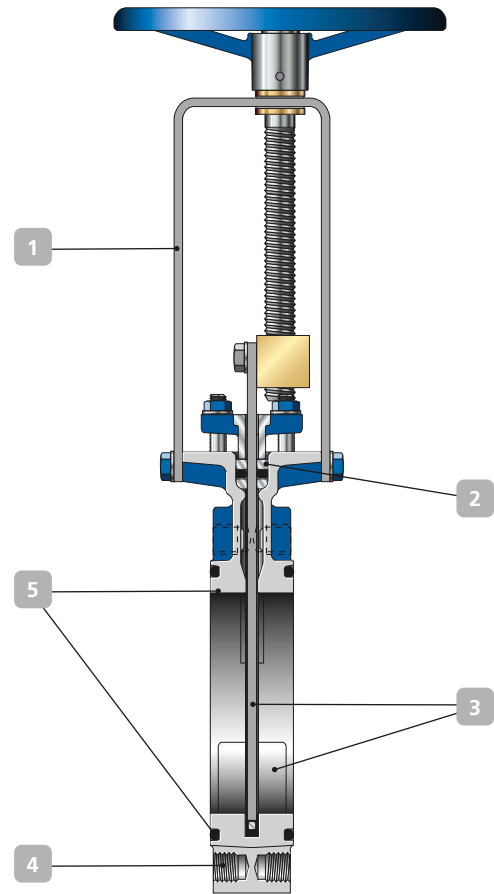
- The stainless steel valve disc is polished on both sides and guided by a confined U-shaped seal along the entire valve travel. This prevents “chattering” of the disc and minimises the risk of deposits.
- Flushing corners in the body ensure the seat is flushed-clean when the valve closes.
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## 4 Suitable for universal use

Since the flange is connected via threaded pocket holes and throughbolts, the gate valve can be used as wafer-type or dead-end valve at full operating pressure.

## 5 Economical

- The valve is available in a single-piece (up to DN 500) or two-piece body design with full bore providing unrestricted flow passage. The body is completely machined inside, leading to a tight fit of all components, very low pressure losses and high flow rates.
- As a standard feature, O-rings are integrated into the body and serve as flange seals. This helps to save extra costs for providing and fitting external flange seals.



### Technical data

Size	DN 50-1200	
Permissible operating pressure	DN 50-250	Up to 10 bar
	DN 300-400	Up to 6 bar
	DN 450	Up to 5 bar
	DN 500-600	Up to 4 bar
	DN 700-1200	Up to 2 bar
Temperature range	-10 °C to +120 °C (EPDM, NBR)	
	-10 °C to +200 °C (Viton)	
Actuator variants and accessories	Pneumatic actuators, Electric actuators, Gearboxes, Quick-action levers, Position switches, solenoid valves	

### Materials

Body	Nodular iron
Valve disc	Stainless steel
Stem	Stainless steel
Sealing material	EPDM (Standard), Nitril (NBR), Viton
Epoxy coating	Provides corrosion protection for all steel and nodular iron components