

Knife Edge Gate Valve: Engineered to Cut Through Tough Flow



About

Pesflow's Knife Edge Gate Valve is engineered for reliable isolation in demanding media such as slurry, wastewater, pulp, and other solid-laden flows. Featuring a sharp knife-edge gate, full-bore design, and robust sealing options, it ensures smooth operation, low pressure drop, and dependable performance across tough industrial applications

PARAMETER	TYPICAL SPECIFICATION
Size Range	DN50 – DN1200 (2" – 48")
Pressure Rating	PN10 – PN50 / Class 150–600
Valve Types	Unidirectional / Bidirectional
End Connections	Wafer / Lug / Flanged
Gate Material	SS304 / SS316 / Duplex
Body Materials	Carbon Steel, Stainless Steel
Seat Types	Metal / EPDM / PTFE / NBR / Viton
Stem	Stainless Steel
Packing	PTFE / Graphite
Actuation	Manual, Pneumatic

Key Engineering Design Features

Knife Edge Gate

- ✓ Sharp cutting edge
- ✓ Allows valve to close even when solids are present

Low Pressure Drop

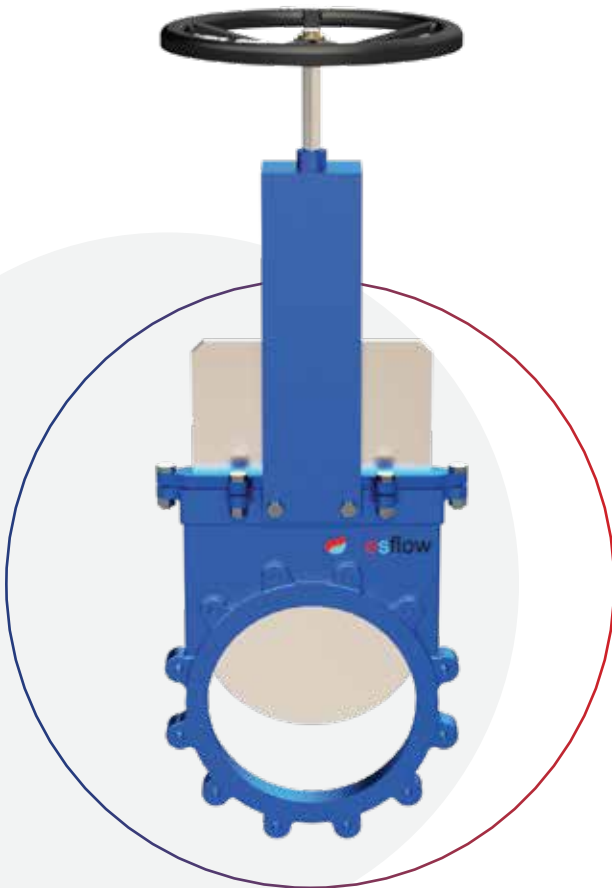
- ✓ Full bore design ensures smooth flow

Replaceable Seats

- ✓ Enables easy maintenance

Bidirectional Sealing

- ✓ Optional design for sealing in both flow directions



Typical Industrial Applications

- ✓ Slurry pipelines
- ✓ Pulp & paper industry
- ✓ Mining and minerals
- ✓ Wastewater treatment
- ✓ Power plants
- ✓ Chemical processing
- ✓ Cement plants



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