

Knife Edge (Knife Gate) Valves — Material Variant Table

Knife gate valves use a sharpened gate blade that shears through slurries, sludge and fibrous media to give reliable on/off isolation in services that would clog a conventional gate valve. Their slim wafer body suits tight installation spaces on tanks, pipelines and process vessels. Widely used in wastewater, pulp & paper and mineral processing plants.

Material Variant	Body / Major Components	Trim (Seat / Disc / Stem)	End Connections	Design Standard	Pressure Rating	Operation	Size Range (NB)
Ductile Iron (DI / GGG40) Knife Gate Valve	Body & Gland Housing: Ductile Iron to GGG40	SS304/316/410/DUPLEX Seat-EPDM	Wafer type, to mount between flanges as per ANSI B16.5 Class 150	Design: MSS-SP-81. Testing: as per QAP	ANSI Class 150 (wafer, mounts between Class 150 flanges)	Gear operated (handwheel up to 150 mm NB; gearbox 200 mm NB and above)	100-600mm
Cast Iron (CI) Knife Gate Valve *	Body & Gland Housing: Cast Iron IS 210 Gr. FG 200/260	SS304/316/410/DUPLEX Seat-EPDM	Wafer type, to mount between flanges as per ANSI B16.5 Class 150	Design: MSS-SP-81. Testing: as per QAP	ANSI Class 150	Gear operated (handwheel up to 150 mm NB; gearbox 200 mm NB and above)	100-600mm
Stainless Steel (SS 304) Body Knife Gate Valve *	Body & Gland Housing: Stainless Steel 304	SS304/316/410/DUPLEX Seat-EPDM	Wafer type, to mount between flanges as per ANSI B16.5 Class 150	Design: MSS-SP-81. Testing: as per QAP	ANSI Class 150	Gear operated (handwheel up to 150 mm NB; gearbox 200 mm NB and above)	100-600mm
Stainless Steel (SS 316) Body Knife Gate Valve /WCB	Body & Gland Housing: Stainless Steel 316	SS304/316/410/DUPLEX Seat-EPDM	Wafer type, to mount between flanges as per ANSI B16.5 Class 150	Design: MSS-SP-81. Testing: as per QAP	ANSI Class 150	Gear operated (handwheel up to 150 mm NB; gearbox 200 mm NB and above)	100-600mm



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