

Gate Valves — Material Variant Table

Gate valves provide bubble-tight shutoff for on/off isolation duty across water, effluent and process piping. The wedge-and-seat design gives a straight-through flow path with minimal pressure drop when fully open. Widely specified for pumping mains, distribution networks and treatment plants where infrequent operation and reliable long-term sealing are required.

Material Variant	Body / Major Components	Trim (Seat / Disc / Stem)	End Connections	Design Standard	Pressure Rating	Operation	Size Range (NB)
Rising Spindle Gate Valve (Cast Iron)	Body, Yoke, Wedge: Cast Iron IS 210 Gr. FG 200 / 220 / 260	Stem: SS 410 / 304 / 316 or HT Brass IS 320 HT2. Seat & Wedge Face: Bronze IS 318 LTB2 / SS 410 / 304 / 316	Flanged (drilling to suit customer requirement)	IS 14846 (2000) / BS 5150	PN 1.0 / 1.6 / 10 / 16	Manual / Geared / Motorised	50 – 1600 mm
Non-Rising Spindle Sluice Valve (Cast Iron)	Body, Bonnet, Wedge: Cast Iron IS 210 Gr. FG 200 / 220 / 260	Stem: SS 410 / 304 / 316 or HT Brass IS 320 HT2. Seat & Wedge: Bronze IS 318 LTB2 / SS 410 / 304 / 316	Flanged (drilling to suit customer requirement)	IS 14846 (2000)/BS 5150	PN 1.0 / 1.6 / 10 / 16	Manual / Geared / Motorised	50 – 1600 mm
Cast Steel (WCB) Gate Valve	Body, Bonnet, Wedge: ASTM A216 Gr. WCB	Stem: SS 410 / 304 / 316. Seat & Wedge Face: SS 410 / 304 / 316 (hardfaced on request)	Flanged (drilling to suit) / Butt Weld on request	API 600 / BS 1414 / IS 14846 *	Class 150 / 300 / 600 (ANSI) or PN 10 / 16 / 25 / 40 *	Manual / Geared / Motorised	50 – 900 mm
Stainless Steel (CF8 / SS 304) Gate Valve	Body, Bonnet, Wedge: ASTM A351 Gr. CF8 (SS 304 equivalent)	Stem: SS 304. Seat & Wedge Face: SS 304 (integral / overlay)	Flanged (drilling to suit) / Butt Weld on request	API 600 / BS 1414	Class 150 / 300 (ANSI) or PN 10 / 16 / 25 / 40	Manual / Geared / Motorised	50 – 600 mm
Stainless Steel (CF8M / SS 316) Gate Valve	Body, Bonnet, Wedge: ASTM A351 Gr. CF8M (SS 316 equivalent)	Stem: SS 316. Seat & Wedge Face: SS 316 (integral / overlay)	Flanged (drilling to suit) / Butt Weld on request	API 600 / BS 1414	Class 150 / 300 (ANSI) or PN 10 / 16 / 25 / 40	Manual / Geared / Motorised	50 – 600 mm
Forged Carbon Steel Gate Valve	Body, Bonnet, Yoke: ASTM A105	Stem: SS 410 / 304 / 316. Seat & Wedge Face: SS 410 / 304 / 316 (hardfaced on request) **	Screwed (BSP/NPT) / Socket Weld / Butt Weld / Flanged	API 602 / BS 5352	Class 150 / 300 / 600 / 800 / 1500 (ANSI) **	Manual (Handwheel / Lever)	15 – 100 mm **



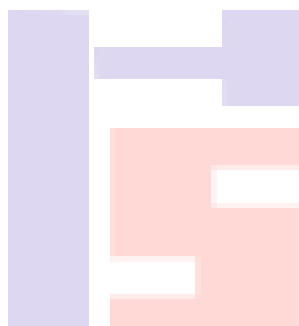
For Correspondence

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Regd. Off: AJIT SEN BHAWAN, 13 CROOKED LANE, 2 ND FLOOR, KOLATA-700069, WB, INDIA.

Material Variant	Body / Major Components	Trim (Seat / Disc / Stem)	End Connections	Design Standard	Pressure Rating	Operation	Size Range (NB)
Forged Stainless Steel Gate Valve	Body, Bonnet, Yoke: ASTM A182 Gr. F304 / F316	Stem: SS 304 / 316. Seat & Wedge Face: SS 304 / 316	Screwed (BSP/NPT) / Socket Weld / Butt Weld / Flanged	API 602 / BS 5352	Class 150 / 300 / 600 / 800 / 1500 (ANSI)	Manual (Handwheel / Lever)	15 – 100 mm
Gun Metal / Bronze Gate Valve	Body, Bonnet: Leaded Tin Bronze IS 318 LTB2	Stem: HT Brass IS 320 HT2. Body & Wedge Seat: IS 318 LTB2	Screwed to IS 554 Parallel / NPT	IS 778 Cl. 1 / Cl. 2 or MSS SP 80	PN 1.0 / 1.6	Manual	15 – 50 mm


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