

Ball Valves (Three-Piece Design/Two-Piece Design /Single Piece Design) — Material Variant Table

Ball valves use a rotating bored ball to give tight, quarter-turn shutoff with minimal flow resistance when fully open. Three-piece, two-piece and single-piece body styles allow selection to suit maintenance access, pressure rating and end-connection requirements. Preferred for frequent-cycling isolation duty across process, utility and instrumentation piping.

Material Variant	Body / Side Piece	Ball / Stem / Seat	End Connections	Design / Test Standard	Pressure Rating	Size Range (NB)
Cast Iron Three-Piece Ball Valve	Body, Side Piece: Cast Iron IS 210 Gr. FG 200	Stem & Ball: SS 304 / 316. Body Seat & Stem Seal: PTFE. Lever: MS with PVC sleeve	Screwed up to 50 mm; Flanged 50 mm and above	BS 5351 / IS-ISO 17292	PN 1.0 / 1.6	15 – 200 mm
Forged & Stainless Three-Piece Ball Valve	Body, Side Piece: ASTM A105 / CF8 / CF8M	Stem: SS 304/316/410. Ball: SS 304/316. Body Seat & Stem Seal: PTFE. Lever: MS or SS with PVC sleeve	Socket Weld / Screwed / Flanged	BS 5351 / IS-ISO 17292	800# / 1500# / 2500#	15 – 50 mm
Cast Steel & Stainless Three-Piece Ball Valve	Body, Side Piece: ASTM A216 Gr. WCB / CF8 / CF8M	Stem: SS 304/316/410. Ball: SS 304/316. Body Seat & Stem Seal: PTFE. Lever: MS or SS with PVC sleeve	Socket Weld / Flanged	BS 5351 / IS-ISO 17292	150# / 300# / 600# / 900#	15 – 250 mm



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