

Air Cushion Valves — Component & Material Variant Table

Air cushion valves are hydraulically operated, spring-loaded devices that admit and cushion air during pump start-up and shutdown, protecting rising mains from surge and water hammer. Fabricated steel construction is built to suit site-specific flange and pressure requirements. Used on large-diameter pumping mains in water supply and irrigation schemes.

Source: Data Sheet for Air Cushion Valve (hydraulically operated, spring-loaded, fabricated construction). Design standard: manufacturing to Sarker in-house standard; flange dimensions per IS 1538 Table IV & VI, flat face. Painting: two coats black epoxy. Hydrostatic test pressure — Body: 30 kg/sq.cm; Seat: 25 kg/sq.cm. MS companion flanges, bolts, nuts & gaskets are outside scope of supply.

Component	Base Material (MS Fabricated)	Notes / Alternate Grade
Main Body, Housing for Air Inlet, Top Housing	Mild Steel, fabricated	Available in SS 316 or SS 304/WCB/CI FG 200/220/260 fully-fabricated construction on request *
Poppet Valve Disc, Inlet Disc	Mild Steel / Cast Iron	
Inlet Seal	Neoprene Rubber	—
Spring for Air Inlet / Air Outlet	Spring Steel	—
Ball Float	Stainless Steel 304	—
Bolts & Nuts	Carbon Steel IS 1367 CI 4.6/4.0	Available in AISI 304 on request *



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