



Dual Plate Check Valve

Product Overview

Valtrix make Dual Plate Check Valve is engineered for reliable, energy-efficient backflow prevention across demanding industrial applications. Built with a compact wafer design and precision-spring dual plates, it ensures quick shutoff and minimal pressure drop, protecting your pumps and piping systems. Manufactured to international standards with robust materials, it delivers long-life performance for Water Application.

General Specifications:

Parameter	Specification
Valve Type	Dual Plate Wafer Type Check Valve
Sizes	DN50 to DN600 (2" to 24")
Pressure Rating	PN16 / Class 150
Design Standard	API 594
Face-to-Face	API 594 / ISO 5752
End Connection	Wafer Type (fits between flanges)
Flange Compatibility	PN 16 / ASME B16.5 Class 150
Working Medium	Water (Non-corrosive)
Flow Direction	Uni-directional
Orientation	Horizontal / Vertical (upward flow)
Temperature Range	-10°C to +100°C (depending on seat material)

Material Construction & Standards:

Component	Material Options	Material Standards (Typical)
Body	Cast Iron (CI)	IS 210 FG 260
	Ductile Iron (DI)	EN-GJS-500-7
	Carbon Steel (WCB)	ASTM A216 WCB
	Stainless Steel (SS304 / SS316)	ASTM A351 CF8 / CF8M
Disc (Options)	DI	EN-GJS-500-7
	SS304	ASTM A351 CF8
	SS316	ASTM A351 CF8M
Shaft / Hinge Pin	SS410 / SS304 / SS316	AISI 410 / 420
Spring	Stainless Steel	AISI 304
Stop Pin / Retainer	Stainless Steel	AISI 410 / 420
Body Coating	Fusion Bonded Epoxy (FBE)	AWWA C550 / 250-300 microns



Performance Data:

Features	Details
Opening Pressure	Very low (0.2 – 0.5 bar)
Closing Mechanism	Torsion springs for quick shut-off
Leakage	Bubble tight for soft seat
Head Loss	Low pressure drop due to aerodynamic disc design
Non-Slam Feature	Spring-assisted plates minimize water hammer
Cv / Kv Values	High (varies by size, available on request)
Flow Characteristics	Full flow path; minimal obstruction

Testing Data:

Test	Standard
Hydrostatic Shell Test	1.5 x Rated Pressure
Disc Test	1.0 x Rated Pressure

Dimensions:

Size		ØA	ØB	ØC
Inch	MM			
2"	50	50	60	105
2 1/2"	65	65	75	124
3"	80	76	90	134
4"	100	100	115	172
5"	125	125	135	196
6"	150	150	165	220
8"	200	200	220	276
10"	250	250	265	338
12"	300	300	320	407
14"	350	350	350	448
16"	400	400	400	514
18"	450	450	450	549
20"	500	500	500	603
24"	600	600	600	718

Notes:

Product images are for reference only; actual products may differ based on model and manufacturing variations. Dimensions and specifications are subject to change as part of ongoing product improvements. Please verify all details prior to placing an order.



Drawing:

