

*Technologically,
Advanced, Yet Economical!*



WAFER AXIAL CHECK VALVES

SERIES- 650



TDK offers Wafer Type Axial Check Valves specifically designed for fast-reversing systems where backflow is a constant concern. Spring loaded Double Guided Disc ensure immediate stoppage of flow before pump stops completely. This prevents flow reversal & water hammer, and ensure Valve close rapidly without slamming.

METHOD OF OPERATION

When differential pressure between the upstream and downstream side of the valve exceeds cracking pressure of the spring, the Disc will move and thus allow flow. As flow decelerates in the pipeline, the forces acting on the disc are reduced, and hence spring is able to overcome these smaller forces leading to valve closure. Short displacement of the disc combined with axial spring assistance greatly reduces the response time giving a fast slam-free response with minimal reverse flow.

These are ideal Check Valve for purging steam / gas in to existing corrosive flow media handling pipe lines.

TDK offers these Axial Check Valve with Valve Seat in PTFE / TFM / Polymer with Valve Body /Disc in all Exotic Alloys like HAESTALLOY C-22, R-55, S.S904-L, ALLOY-20, DUPLEX S.S.316/S.S.316-L. Valve MOC is selected in consultation with the Buyer makes it a ideal Check valve for all their Corrosive and Solvent application Services.



**Quality, At It's
Best Always...!**

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Axial flow check valves offer several advantages over other types of check valves, such as:
 Rapid closing action (prevents water hammering) | The ability to be properly sized for each application
 | Durability | Increased valve longevity | The ability to accommodate low-pressure drops and high
 flow | Non-slammng opening and closing action | Tight shut-off leading to zero leakage | Various
 end-to-end options | The ability to be installed in both horizontal and vertical orientation



TYPICAL APPLICATIONS FOR AXIAL CHECK VALVES

Oil and gas production, including midstream:	Chemical and pharma:	Pulp & paper	Power:
Regasification	Chlorine	Chemical & Purging	Steam
Liquefaction	Phosgene	Condensate	Condensate
Centrifugal compressor discharge	Aromatics	Generator -Inlet / Discharge	Boiler feed pumps
Fire water lines	Polymers	Digester & paper Machine	Cooling towers
Oil/steam separation	Acids	Metering Pump & Vacuum	Service water recirculators
Steam and CO ₂ injection	Air separation	Boiler feed & Discharge	River water intake
Oil and gas gathering systems	Caustics	Steam & Water treatment	Renewables

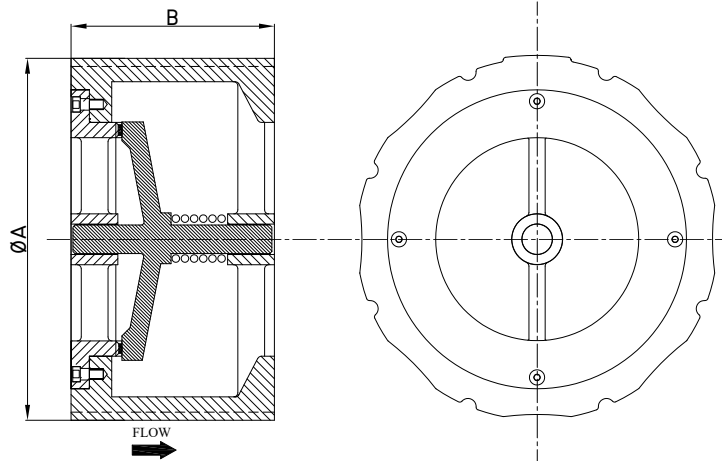
Size range:
50 mm to 300 mm

Mounting:
Horizontal or vertical

Flange. Standard:
ASA 125 /150, 300 BS-10
TABLE D / E DIN - ND-10,
16, 25, JIS -10 K

Pressure rating:
Class,150, 300, 600, 900

Testing:
Api 598



Size MM	A	B
50	114	67
65	132	73
80	140	80
100	178	102
125	205	118
150	234	140
200	295	168
250	365	210
300	425	287

Higher Sizes: Available on request

MATERIAL OF CONSTRUCTION - OPTIONS

BODY	DISC & SHAFT	SEAT	SPRING
CARBON STEEL as per ASTM A 216 GR. WCB	CARBON STEEL as per ASTM A 216 GR. WCB	PTFE / TFM	S.S.316
S.S.304 /S.S.316 /316L as per ASTM A 351 CF8 CF8M/ CF3M	S.S.304 / S.S.316 /316L as per ASTM A 351 CF8 /CF8M/ CF3M	NITRILE/EPDM RUBBER	S.S.316-L
DUPLEX /SUPER DUPLEX - as per ASTM A 890 GR CE8MN /CE3MN	DUPLEX /SUPER DUPLEX - as per ASTM A 890 GR CE8MN /CE3MN	VITON RUBBER	INCONEL
ALLOY- 20 as per ASTM A 351 CN7M	ALLOY- 20 as per ASTM A 351 CN7M	HYPLON RUBBER	S.S.904 -L
S.S.904-L / R-55	S.S.904-L / R-55	NEOPRENE RUBBER	ALLOY-20
HAESTALLOY C-22 as per ASTM A 494 CX2MW	HAESTALLOY C-22 as per ASTM A 494 CX2MW	METAL TO METAL	HAESTALLOY C-22



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TDK CHEMTROL INDIA

Unico Industrial Park, Unit No.5, Building No.3A,
 Tungreshwar Road, Off. Western Express Highway, Vasai
 East, District Palghar - 401208. Maharashtra, India
 Phone: +91 9892791579 | 7700962263 | 7700911522
 Email: info@tdkchemtrol.com

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