

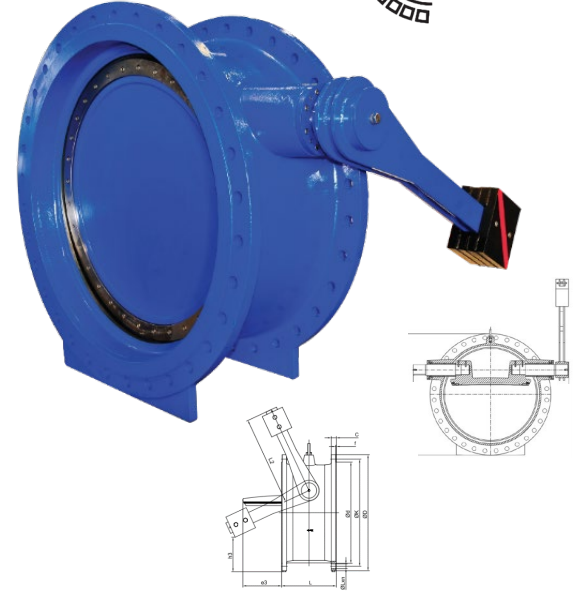
TILTING CHECK VALVE



Description: Our Tilting Check Valves are engineered to provide versatility, making them suitable for both horizontal and vertical installations within potable water systems. These durable valves boast a flexible lever and counterweight design that can be tailored to meet specific requirements. For added functionality and extended lifespan, optional accessories such as a protection cover, limit switch, and hydraulic damper are available.

Material Specification

Parts	Main Materials	Optional Materials
Body	Ductile Iron	Carbon Steel
Cover		Stainless Steel
Disc		Nickel Aluminum Bronze
Shaft	X20Cr13	SS 304, SS 316, NAB
Bearings	Bronze	Brass, SS 304, SS 316, NAB
Retaining Ring	SS 304	SS 316, St 37
Seals	EPDM	NBR
Fasteners	SS 304	SS 316
Counterweight Lever	St 37	
Counter Weight	Cast Iron	Ductile Iron



Notes:

1. Different flange drillings are available, including ISO, EN, ANSI, and others.
2. The standard operating temperature range is -10°C to +80°C.
3. All RAL Colors are available.
4. Potable water certified coating is available.
5. Both thermoset and thermoplastic coatings are available.

Application:

Tilting Type Check Valves are designed to have low head loss in normal operation and to have drip tight sealing in case of backflow. These check valves are commonly used in the downstream of pump stations, protecting crucial devices.

Features:

- **Versatile Installation:** This valve is suitable for both horizontal and vertical installations, making it adaptable to a range of pipeline configurations.
- **Potable Water Applications:** It is designed for use in potable water applications, ensuring clean and safe water flow.
- **Lever & Counterweight Design:** The tilting check valve features a lever and counterweight design, which aids in the accurate and efficient operation of the valve.
- **Single or Double-Sided Lever & Counterweight Options:** Users have the flexibility to choose between single or double-sided lever and counterweight options, allowing for customization to specific operational requirements.
- **Optional Protection Cover:** There's an available protection cover accessory upon request. This is used to protect the lever movement and ensure longevity of the valve.
- **Limit Switch Accessory:** Upon request, a limit switch accessory can be added to enable SCADA communications and alarms. This accessory aids in remote monitoring and control, providing early detection of potential issues.
- **Hydraulic Damper Accessory:** Also available upon request is a hydraulic damper (dashpot) accessory. This contributes to a non-slam operation of the valve, reducing the risk of water hammer and subsequent damage to the pipeline system.



TILTING CHECK VALVE

Double Eccentric Disc Design

Featuring an innovative double eccentric disc design, our Tilting Check Valves are engineered to deliver exceptional performance. This unique feature allows the disc to respond swiftly and open effortlessly, even at ultra-low flow rates. Additionally, when combined with the optional hydraulic damper accessory, operators gain the flexibility to adjust the valve's opening and closing speed, providing a cushioning effect to prevent any slamming.

Superior Sealing Surface

Ensuring superior performance, the valve's stainless steel sealing surface is meticulously affixed to the body using a state-of-the-art weld overlay process. This process is performed with the aid of a specialized Automated Welding Robot, guaranteeing consistent and precise results. The surface is meticulously polished to achieve a seamless finish and undergoes thorough penetration testing to ensure impeccable quality. The outcome of this meticulous procedure is an optimized wear-resistant seat where the sealing material is permanently bonded to the body. Furthermore, the absence of uncoated threads on the body further enhances its reliability and durability.

Dimension (mm) & Weight

DN		100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000	1200
Width	-	380	415	465	515	630	650	795	840	910	1000	1150	1350	1440	1580	1730	1912
Length	-	190	200	210	230	250	270	290	310	330	350	390	430	470	510	550	630
Height	-	225	255	290	345	410	465	525	585	645	720	845	915	1030	1130	1260	1490
Weight (Kg)	-	19	25	30	39	63	79	118	148	203	252	367	484	757	1027	1196	1800