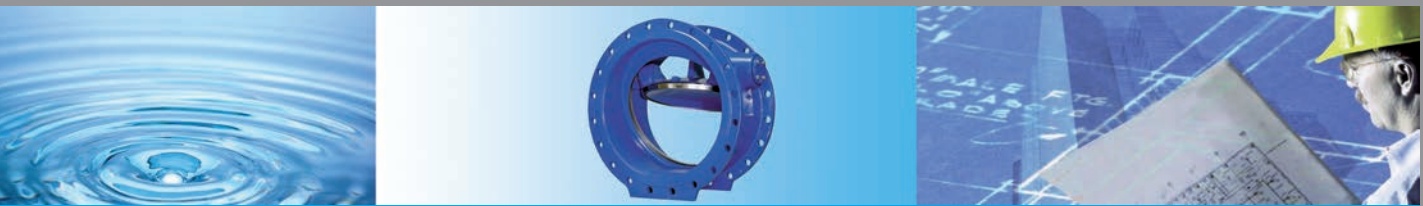


Uniwat®



Tilting Disc Check Valves
www.comeval.es

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7T SERIES CODIFICATION

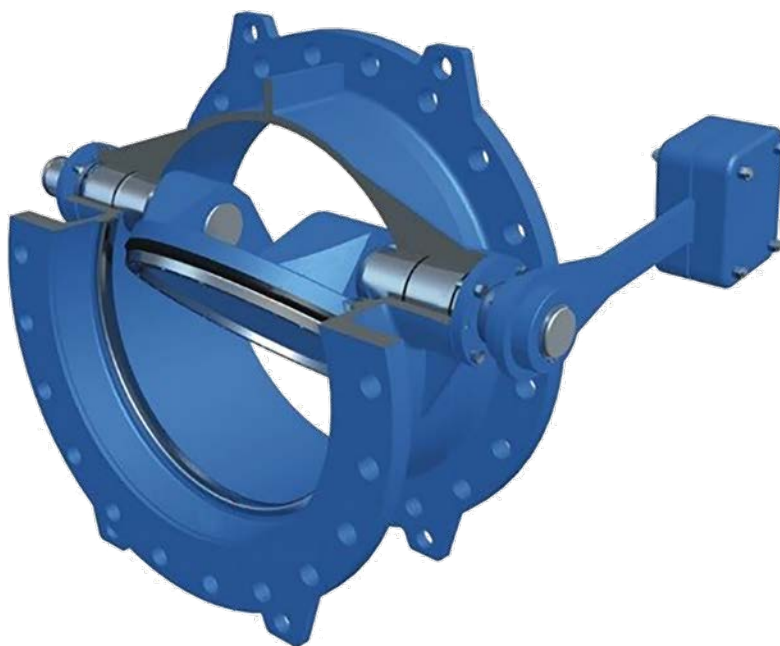
1-2	FIG	7T	Tilting disc check valve
3-4	MAT	A0	A216 WCB
		F1	EN-JS1050
5	SEAT	E	EPDM
		N	NBR
6	FLANGES	0	FLANGED TO EN-1092
7	ACTUATION	C	Closing by counterweight
		D	Closing by damper and counterweight
8	DIRECTION	R	Flow direction from right to left (looking at the counterweight)
		0	Flow direction from left to right (looking at the counterweight)
9-10	RATING	10	PN10
		16	PN16
		25	PN25
12-14	SIZE	050	DN50
		500	DN500
		910	DN1000
		915	DN1500

Design Attributes

The Tilting Check Valves are double centric disc valves designed for extremely smooth operation in sewage and water distribution networks. Valves are of single flow path design to prevent back flow. The disc is freely oscillating (tilting type) and incorporates a rubber seal to ensure a full tightness. The body seat ring is made of stainless steel with a resilient insert. Valves are easy to operate and commission thanks to its light construction design of short length and can be installed either horizontally or vertically with down upwards or downwards flow direction (see Operating and Maintenance Manual for proper advice).

Operation Performance

Thanks to the counter weight, the valves are very reliable and can perform a smooth closing of the valve. The purpose of the counter weight is minimizing the eventual water hammer phenomena thanks to a slow closing, which is even increased by the assistance of the oil hydraulic damper. The hydraulic damping device is of very compact design and well proven in terms of ease of maintenance, adjustability, and functionality. The damper regulates the slow closure of the valve in avoidance of noise and other undesirable hydraulic phenomena.



Construction Design

Double offset with double flange ends EN 1092-1/2, PN 10 / PN 16 / PN25 / PN40 (other flange drilling on request); Face to face length EN 558-1 Series 14 (old DIN 3202 F4), Pressure Rating: PN 10 / PN 16 / PN25 / PN40, Temperature Limits: -20°C .. +70°C, Maximal Allowable Working Pressure: 16bar / 25bar / 40bar, Valves approved by 2014/68/EU Module A under Category I

Application

Water Works: Dams, Irrigation Plants, Sewage and Drinking Water
 Consult our engineering department for specific usage of the valves.

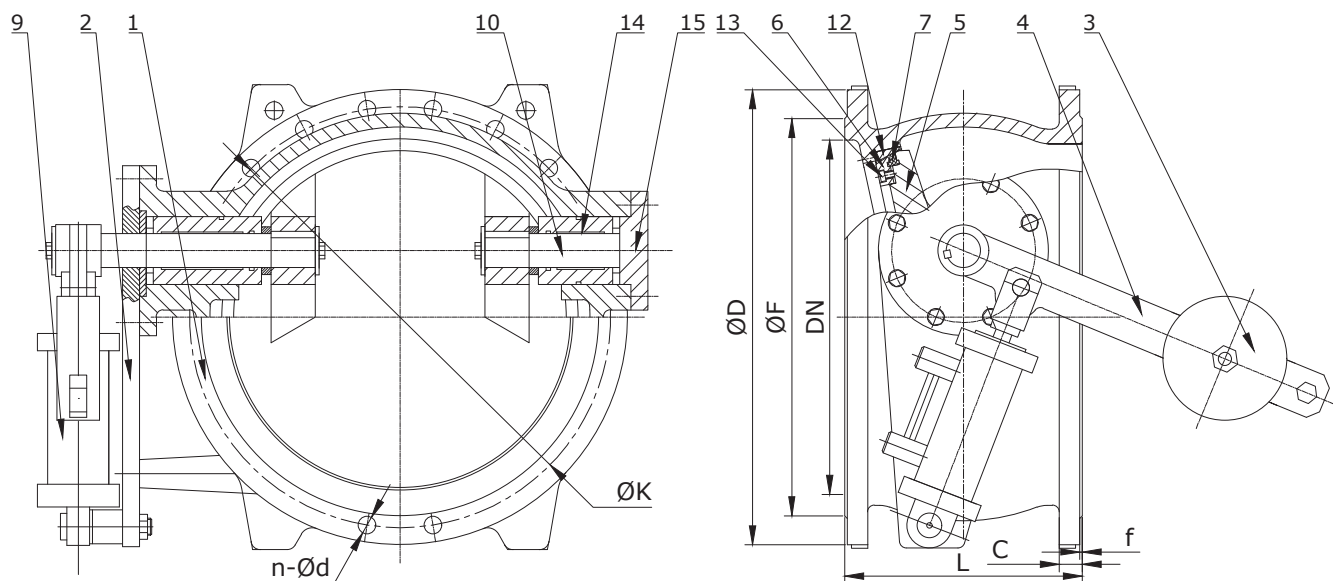
Attributes

- Double offset, smooth operation
- Non Slam and silent operation
- Anti-hammer device
- Full tightness thanks to resilient seating
- Internal and external FBE
- Any installation position
- Modular assisted closure device (counter weight and / or hydraulic damper)
- Proven flow performance, low pressure drop

Options

Double counter weight and hydraulic damper arrangement, higher ratings, prefabricated valve materials, other resilient sealing, stainless steel disc.

Main Valve Parts and Materials



NO.	PART	MATERIAL	
1	Body	EN-JS1050	A216 WCB
2	Rocker	-	AISI 1025
3	Counter weight	Grey Iron	AISI 1025
4	Lever	Carbon steel	AISI 1025
5	Disc	EN-JS1050	A216 WCB
6	Clamping ring	EN-JS1050	A182 F304 / A105*
7	Seat ring	EPDM	NBR
8	Needle valve	-	Brass
9	Cylinder	Assembly	AISI 1025
10	Stem	SS420	410
11	Yoke	-	AISI 1025
12	Body seat	SS304	B148 C95500
13	Bolt	-	A193 B8
14	Bushing	St. steel + PTFE	-
15	Cover	EN-JS1050	A216 WCB

*Material only for PN40 version

Main Dimensions

PN10 main dimensions

DN	200	250	300	350	400	450	500	600	700
L	230	250	270	290	310	330	350	390	430
f	3	3	4	4	4	4	4	5	5
ØF	266	319	370	429	480	530	582	682	794
ØD	340	395	445	505	565	615	670	780	895
ØK	295	350	400	460	515	565	620	725	840
n-Ød	8-Ø23	12-Ø23	12-Ø23	16-Ø23	16-Ø28	20-Ø28	20-Ø28	20-Ø31	24-Ø31
C	20	22	24,5	24,5	24,5	25,5	26,5	30	32,5

DN	800	900	1000	1100	1200	1400	1600	1800
L	470	510	550	550	630	710	790	870
f	5	5	5	5	5	5	5	5
ØF	901	1001	1112	1218	1328	1530	1750	1950
ØD	1015	1115	1230	1340	1455	1675	1915	2115
ØK	950	1050	1160	1270	1380	1590	1820	2020
n-Ød	24-Ø34	28-Ø34	28-Ø37	32-Ø37	32-Ø41	36-Ø44	40-Ø50	44-Ø50
C	35	37,5	40	42,5	45	46	49	52

PN16 main dimensions

DN	200	250	300	350	400	450	500	600	700
L	230	250	270	290	310	330	350	390	430
f	3	3	4	4	4	4	4	5	5
ØF	266	319	370	429	480	548	609	720	794
ØD	340	405	460	520	580	640	715	840	910
ØK	295	355	410	470	525	585	650	770	840
n-Ød	12-Ø23	12-Ø28	12-Ø28	16-Ø28	16-Ø31	20-Ø31	20-Ø34	20-Ø37	24-Ø37
C	20	22	24,5	26,5	28	30	31,5	36	39,5

DN	800	900	1000	1100	1200	1400	1600	1800
L	470	510	550	550	630	710	790	870
f	5	5	5	5	5	5	5	5
ØF	901	1001	1112	1218	1328	1530	1750	1950
ØD	1025	1125	1255	1355	1485	1685	1930	2130
ØK	950	1050	1170	1270	1390	1590	1820	2020
n-Ød	24-Ø41	28-Ø41	28-Ø44	32-Ø44	32-Ø50	36-Ø50	40-Ø57	44-Ø57
C	43	46,5	50	53,5	57	60	65	70

PN25 main dimensions

DN	200	250	300	350	400	450	500	600	700
L	230	250	270	290	310	330	350	390	430
f	3	3	4	4	4	4	4	5	5
ØF	274	330	389	448	503	548	609	720	820
ØD	360	425	485	555	620	670	730	845	960
ØK	310	370	430	490	550	600	660	770	875
n-Ød	12-Ø28	12-Ø31	16-Ø31	16-Ø34	16-Ø37	20-Ø37	20-Ø37	20-Ø41	24-Ø44
C	22	24,5	27,5	30	32	34,5	36,5	42	46,5

DN	800	900	1000	1100	1200	1400	1600	1800
L	470	510	550	550	630	710	790	870
f	5	5	5	5	5	5	5	5
ØF	928	1028	1140	1240	1350	1560	1780	1985
ØD	1085	1185	1320	1420	1530	1755	1975	2195
ØK	990	1090	1210	1310	1420	1640	1860	2070
n-Ød	24-Ø50	28-Ø50	28-Ø57	32-Ø57	32-Ø57	36-Ø62	40-Ø62	44-Ø70
C	51	55,5	60	64,5	69	74	81	88

PN40 main dimensions

DN	200	250	300	350	400	450	500	600
L	230	250	270	290	310	330	350	390
f	3	3	4	4	4	4	4	5
ØF	284	345	409	465	535	560	615	735
ØD	375	450	515	580	660	685	755	890
ØK	320	385	450	510	585	610	670	795
n-Ød	12-Ø31	12-Ø34	16-Ø34	16-Ø37	16-Ø41	20-Ø41	20-Ø44	20-Ø50
C	30	34,5	39,5	44	48	49	52	58

Dimensions in mm subject to manufacturing tolerance

Information / restriction of technical rules need to be observed!
 Installation, Operating and Maintenance Manual can be downloaded at www.comeval.es

The engineer, designing a system or a plant, is responsible for the selection of the correct valve
 Product suitability must be verified, contact manufacturer for information

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