

RESILIENT SEAT GATE VALVE DUCTILE IRON BODY

TECHNICAL PASSPORT

VOC424116C-084EP

RESILIENT SEAT GATE VALVE WITH PLANETARY GEARBOX AND HANDWHEEL DUCTILE IRON BODY - PN16 FLANGE CONNECTION

APPLICATION

The TECOFI resilient seat gate valve is intended for use in application such as: water supply and treatment, irrigation and sanitation.



Fluids : water, waste water, non-aggressive neutral liquids, etc.

GENERAL CHARACTERISTICS

Range : from DN700 to DN1200.

- Resilient seat gate valve for ON/OFF or control operation, with non-rising stem.
- PN16 flange mounting.
- Clockwise closing
- Body and bonnet assembled by screws protected by a molded sealing gasket.
- Wedge in ductile iron covered with a thick layer of elastomer.
- Ribs on the wedge outer face to facilitate its guiding in the body.
- Upstream-downstream tightness made reliable thanks to the enormous qualities of elasticity and rigidity of the wedge.
- At the end of closing the wedge is pressed onto the flat bottom of the valve and takes perfectly its shape. This results in the absorption of impurities contained in the fluid, such as sand, gravel, etc. From the first moment of opening, impurities or waste are returned to the fluid which evacuates them.
- Tightness of the upper part guarantees thanks to a system of O-rings placed next to each other and separated by small metal segments.
- Very economical use without the need for maintenance. Low pressure drop.
- Full bore at the end of opening. No retention zone.
- Good corrosion resistance (epoxy coating inside and outside the body) fasteners protected from external aggressions by wax coat.



STANDARDS

Design	Manufacture according to standard en 1171.
Face to face	Face to face dimension according to EN 558 serie 14 and DIN 3202 / F4 short pattern
Connection	Mounting flange in accordance with EN1092-2: ISO PN16
Tests	Pressure test according to standard EN12266-1
Certificats	Health compliance certificate (ACS) n° 21 ACC LY 015.

PRODUCTS APPROVALS



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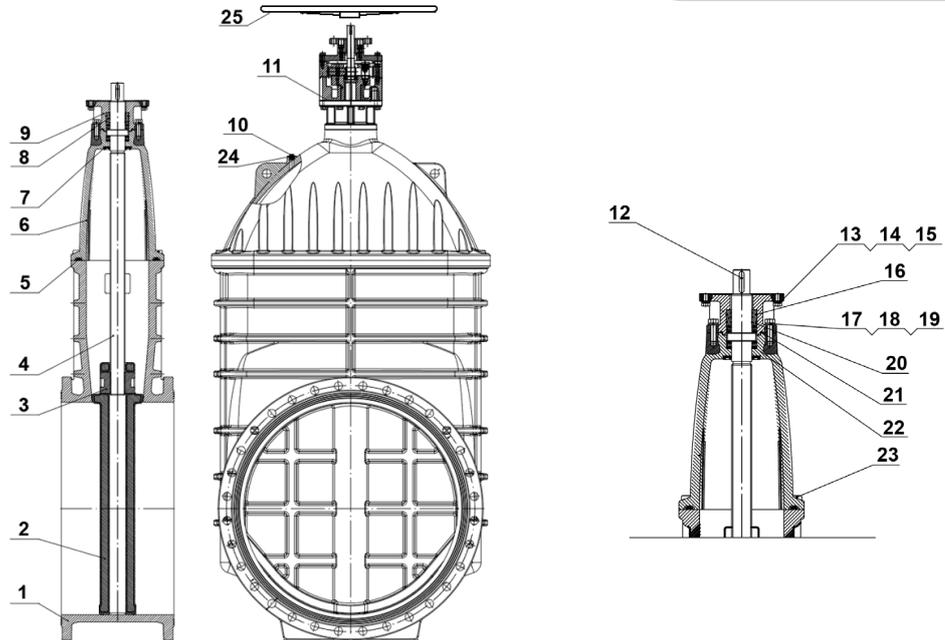


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CONSTRUCTION



Pos.	Description	Q-ty	Material	Equivalences		
				DIN	ASTM	BS
1	Body	1	Ductile iron EN-GJS-500-7	GGG50	A536 65-45-12	1563 EN-JS1050
2	Wedge	1	Ductile iron EN-GJS-500-7 + EPDM	GGG50	A536 65-45-12	1563 EN-JS1050
3	Stem nut	1	Brass HPb59-1			
4	Stem	1	Stainless steel 2Cr13			
5	Sealing gasket	1	EPDM			
6	Bonnet	1	Ductile iron EN-GJS-500-7	GGG50	A536 65-45-12	1563 EN-JS1050
7	Inverted sealing ring	1	EPDM			
8	Shaft sealing sleeve	1	Brass HPb59-1			
9	Top flange	1	Ductile iron EN-GJS-500-7	GGG50	A536 65-45-12	1563 EN-JS1050
10	Plug	1	Stainless steel 2Cr13			
11	Planetary gearbox	1	Finished product			
12	Key	2	45#			
13	Hexagon bolt	8	A2-70			
14	Spring washer	8	A2-70			
15	Gasket ring	8	A2-70			
16	O ring I	2	NBR			
17	Hexagon bolt	n	A2-70			
18	Spring washer	n	A2-70			
19	Gasket ring	n	A2-70			
20	O ring II	3	NBR			
21	O ring III	1	NBR			
22	Roller bearing	2	Bearing steel 8.8			
23	Hexagonal screw	m	Carbon steel 8.8			
24	O ring IV	1	NBR			
25	Handwheel	1	Ductile iron			

n - 6 (DN700-800) ; 8 (DN900-1200)
m - 20 (DN700-900); 22 (DN1000); 24 (DN1200)

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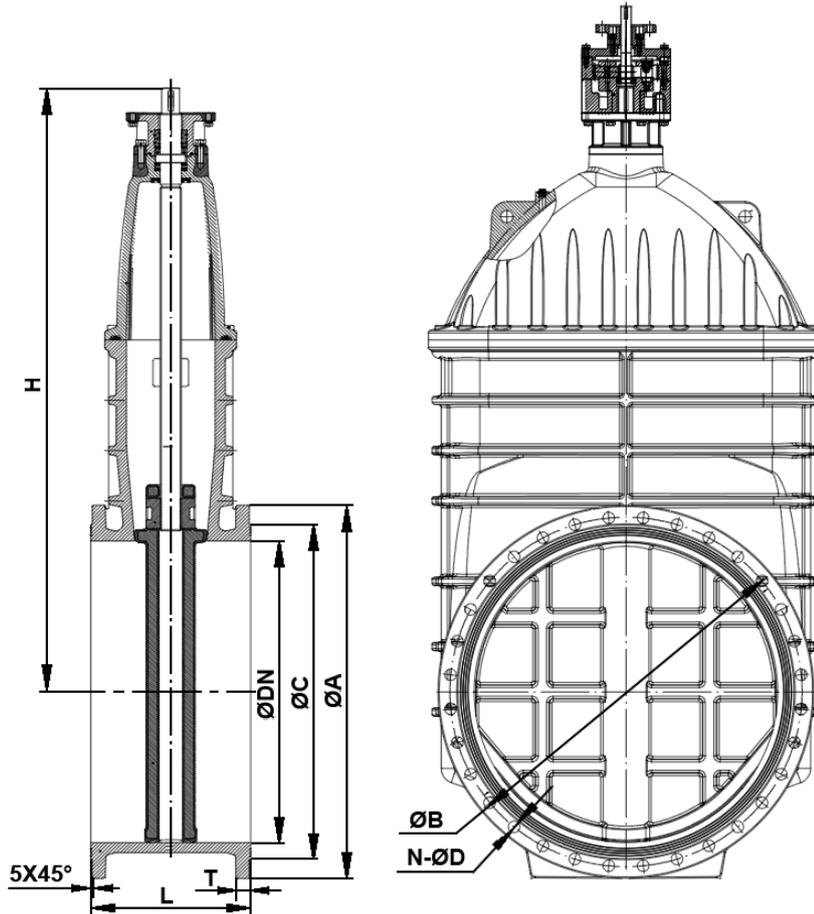


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DIMENSIONS



DN		L	H	T	ØA	ØC	ØDB	N - ØD	Weight* (kg)
mm	inch								
700	28"	430	1403	39.5	910	794	840	24 x Ø37	842
800	32"	470	1650	43	1025	901	950	24 x Ø40	1325
900	36"	510	1923	46.5	1125	1001	1050	28 x Ø40	2184
1000	40"	550	2061	50	1255	1112	1160	28 x Ø43	2576
1200	48"	630	2403	57	1485	1328	1380	32 x Ø49	3901

* - Valve weight with handwheel

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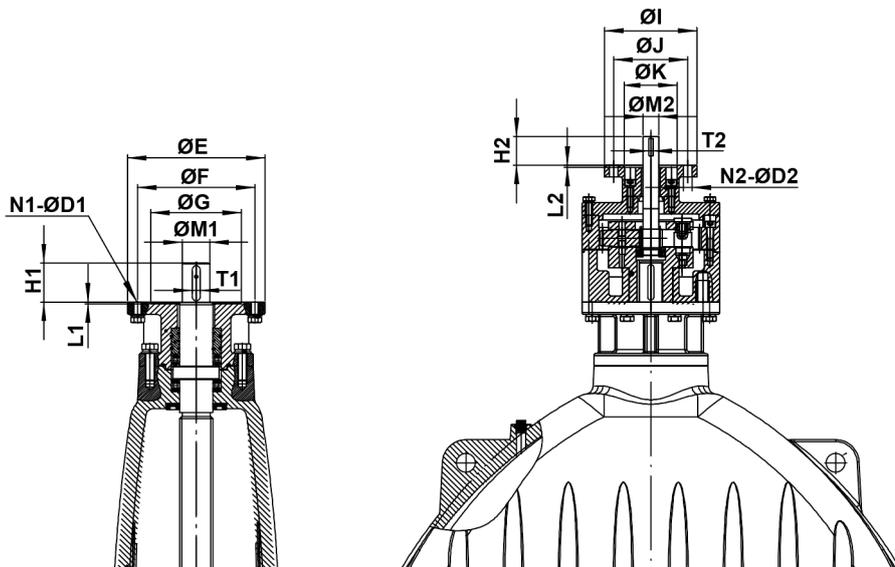


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DIMENSIONS



DN		Valve top flange									Planetary gearbox top flange								Torque (Nm)	Input torque (Nm)	Ratio	
mm	inch	F	$\varnothing\text{E}$	$\varnothing\text{F}$	$\varnothing\text{G}$	$\text{N1-}\varnothing\text{D1}$	$\varnothing\text{M1}$	T1	L1	H1	F	$\varnothing\text{I}$	$\varnothing\text{J}$	$\varnothing\text{K}$	$\text{N2-}\varnothing\text{D2}$	$\varnothing\text{M2}$	T2	L2				H2
700	28"	F25	300	254	200	8- $\varnothing\text{18}$	45	14	5	70	F14	175	140	100	4- $\varnothing\text{18}$	30	8	5	45	120	750	6:1
800	32"	F25	300	254	200	8- $\varnothing\text{18}$	55	16	5	75	F14	175	140	100	4- $\varnothing\text{18}$	30	8	5	45	120	1000	6:1
900	36"	F30	350	298	230	8- $\varnothing\text{22}$	65	18	5	90	F10	125	102	70	4- $\varnothing\text{11}$	20	6	4	30	120	1200	24:1
											F14	175	140	100	4- $\varnothing\text{18}$	30	8	5	45	200	1200	12:1
1000	40"	F30	350	298	230	8- $\varnothing\text{22}$	70	20	5	95	F10	125	102	70	4- $\varnothing\text{11}$	20	6	4	30	120	1350	24:1
											F14	175	140	100	4- $\varnothing\text{18}$	30	8	5	45	200	1350	12:1
1200	48"	F30	350	298	230	8- $\varnothing\text{22}$	70	20	5	95	F10	125	102	70	4- $\varnothing\text{11}$	20	6	4	30	120	1800	24:1
											F14	175	140	100	4- $\varnothing\text{18}$	30	8	5	45	200	1800	12:1

**⚠ The valve must be mounted on horizontal piping in vertical position, with operating stem pointing upwards.
Contact us for mounting on vertical or steeply inclined piping**

WORKING CONDITIONS

Maximum working pressure : 16 bar

Maximum working temperature : -10°C / + 110°C

Maximum working temperature for potable water : +85°C

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