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**RESILIENT SEAT GATE VALVE
DUCTILE IRON BODY**

TECHNICAL PASSPORT

**RESILIENT SEAT GATE VALVE
WITH HANDWHEEL - DUCTILE IRON BODY
FLANGE CONNECTION PN25**

VOC 4251C-00

APPLICATION

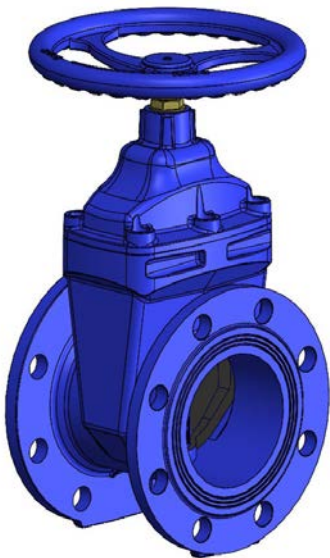
The TECOFI resilient seat gate valve is intended for use in application such as: water supply and treatment, irrigation and sanitation.



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

GENERAL CHARACTERISTICS

- Range** : from DN40 to DN300.
- Resilient seat gate valve for ON/OFF or control operation, with non-rising stem.
 - PN25 flange mounting.
 - 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 latter 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 standards DIN3352 and NF 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 PN25
Tests	Pressure test according to standards EN 12266-1, NF EN 12266-2, DIN3230 and ISO 5208.

PRODUCTS APPROVALS



RESILIENT SEAT GATE VALVE DUCTILE IRON BODY

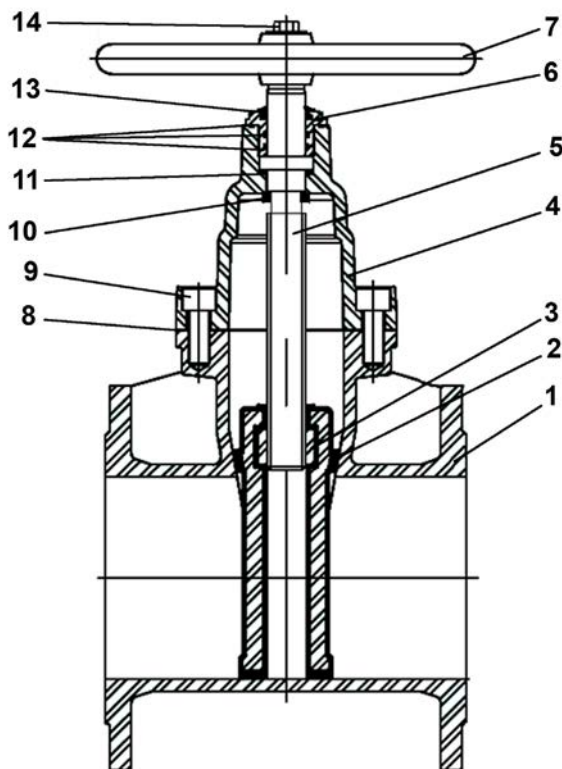
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CONSTRUCTION

The valves are coated with epoxy paint on the outside and inside of the body and the bonnet to protect against corrosion.

Component	Coating
Body (1)	Epoxy powder RAL 5015 250 microns
Bonnet (4)	Epoxy powder RAL 5015 250 microns
Handwheel (7)	Epoxy liquid RAL 5015 70 microns



Pos.	Description	Material	Équivalences		
			DIN	ASTM	BS
1	Body	Ductile iron EN-GJS-500-7	GGG50	A536 65-45-12	1563 EN-JS1050
2	Wedge	Ductile iron + EPDM	GGG50	A536 65-45-12	1563 EN-JS1050
3	Stem nut	Brass 59-1			
6	Bonnet	Ductile iron EN-GJS-500-7	GGG50	A536 65-45-12	1563 EN-JS1050
4	Stem	Stainless steel 420	2Cr13	AISI 420	420 S 37
5	Gland	Brass 59-1			
7	Handwheel	Ductile iron EN-GJS-500-7	GGG50	A536 65-45-12	1563 EN-JS1050
8	Bonnet gasket	EPDM			
9	Gland bolt	Carbon steel			
10	Wedge nut gasket	EPDM			
11	Stem bushing	Nylon			
12	O-ring	EPDM			
13	Dust cup	EPDM			
14	Handwheel bolt	Stainless steel X5CrNi 18-10	X5CrNi 18 10	A 182 AISI 304	1449-2 304 S15

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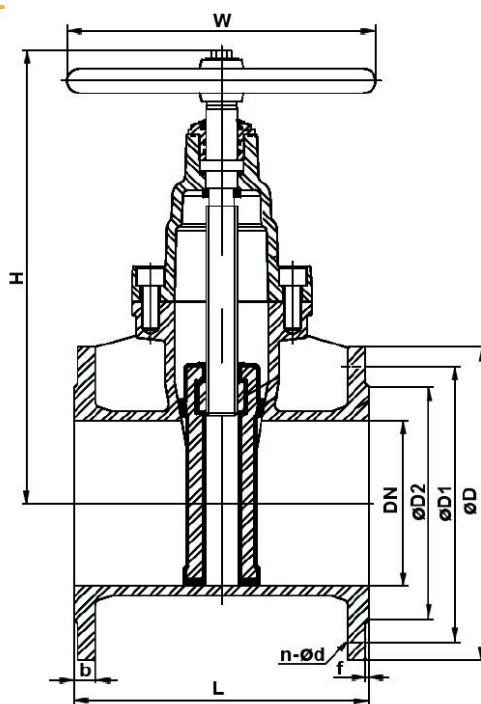


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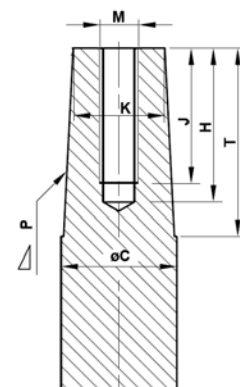
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DIMENSIONS



Operating square



DN		L	H	ØD	ØD1	ØD2	b	f	n - Ød	W	Operating square							Weight (kg)
mm	inch										M	K	P	J	H	ØC	T	
40	2"1/2	140	232	150	110	84	19	3	4 x Ø19	180	8	15	1:20	28	32	18	32	8
50	2"	150	266	165	125	99	19	3	4 x Ø19	180	8	15	1:20	28	32	18	32	10
60/65	2"1/4/ 2"1/2	170	275	185	145	118	19	3	4 x Ø19	180	8	16	1:20	28	32	20	32	13
80	3"	180	295	200	160	132	19	3	8 x Ø19	200	8	16	1:20	28	32	20	32	14
100	4"	190	340	235	190	156	19	3	8 x Ø19	250	8	18	1:20	28	32	24	39	22
125	5"	200	385	270	220	184	19	3	8 x Ø19	280	8	18	1:20	28	32	24	39	27
150	6"	210	420	300	250	211	20	3	8 x Ø23	300	8	18	1:20	28	32	24	39	33
200	8"	230	520	360	310	274	22	3	8 x Ø23	350	8	24	1:20	28	32	32	45	56
250	10"	250	635	425	370	330	24.5	3	12 x Ø23	400	12	27	-	-	-	36	47	93
300	12"	270	713	485	430	389	27.5	4	12 x Ø23	500	12	27	-	-	-	38	47	127

WORKING CONDITIONS

Maximum working pressure : 25 bar

Maximum working temperature : -10°C / +80°C

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