RESILIENT SEAT GATE VALVE
DUCTILE IRON BODY

Tecofi
VALVE MANUFACTURER - FRANCE

TECHNICAL PASSPORT

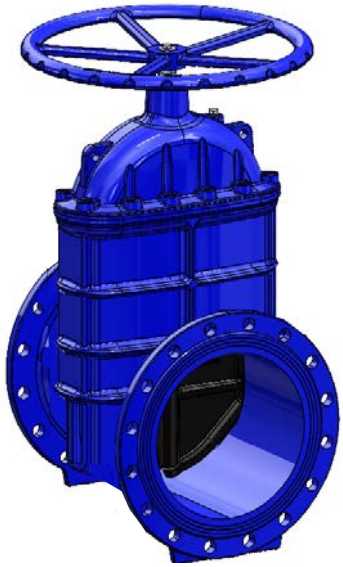
VOC 4240C-00

RESILIENT SEAT GATE VALVE WITH HANDWHEEL - DUCTILE IRON BODY FLANGE CONNECTION PN10/16

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 DN40 to DN400.
-Resilient seat gate valve for ON/OFF or control operation, with non-rising stem.
-PN10 and PN16 flange mounting (drilling of suitable flanges from DN200).
-Body and bonnet assembled by screws protected by a molded sealing gasket.
-Wedge in ductile iron covered with a thick layer of elastomer.
-Ribs (slider from DN350 to DN400) on the wedge outer face to facilitate its guiding in the body.
-Ipstream-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 standard EN1171 / EN1074.
Face to face	Face to face dimension according to EN 558 serie 14 and DIN 3202 / F5 long pattern
Connection	Mounting flange in accordance with EN1092-2 : ISO PN10 and ISO PN16
Tests	Pressure test according to standards EN12266-1
Certificats	Health compliance certificate (ACS) n° 21 ACC LY 015. / Certification WRAS n° 1606373

PRODUCTS APPROVALS

WRAS ACS EN 1074 EAC

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ISO 9001
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BUREAU VERITAS
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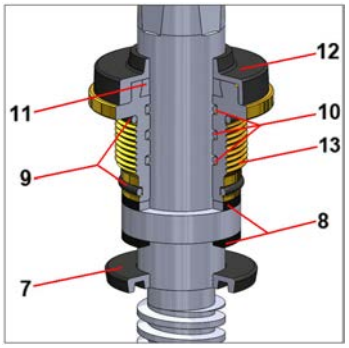
CONSTRUCTION

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

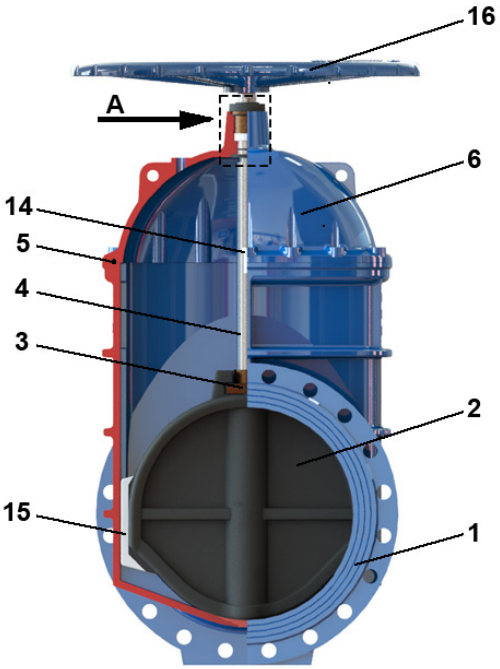
Component	Coating
Body (1)	Epoxy powder RAL 5015 300 microns
Bonnet	Epoxy powder RAL 5015 300 microns
Handwheel (16)	Epoxy liquid RAL 5015 100 microns

Corrosion protection system:

The valve body and bonnet are coated with a paint system designed to meet a C5 corrosivity category with High durability (C5H), in accordance with the principles of ISO 12944.



View A



Pos.	Quantity	Description	Material	Equivalences		
				DIN	ASTM	BS
1	1	Body	Ductile iron EN-GJS-500-7	GGG50	A536 65-45-12	1563 EN-JS1050
2	1	Wedge	EPDM coated ductile iron	GGG50	A536 65-45-12	1563 EN-JS1050
3	1	Stem nut	Brass			
4	1	Stem	Stainless steel 420	1.4021	AISI 420	420 S 37
5	1	Joint	EPDM			
6	1	Bonnet	Ductile iron EN-GJS-500-7	GGG50	A536 65-45-12	1563 EN-JS1050
7	1	Joint	EPDM			
8	2	Bearing	PTFE			
9	2	O ring	EPDM			
10	3	O ring	EPDM			
11	1	Stem gasket	EPDM			
12	1	Dust protection	NBR			
13	1	Nut	Brass			
14	n	Screw	Stainless steel 304			
15	2	Slider	Nylon			
16	1	Handwheel	Ductile iron EN-GJS-500-7	GGG50	A536 65-45-12	1563 EN-JS1050

n = 4 (DN40-DN65); 6 (DN100); 8 (DN150-DN300) ; 12 (DN350-DN400)

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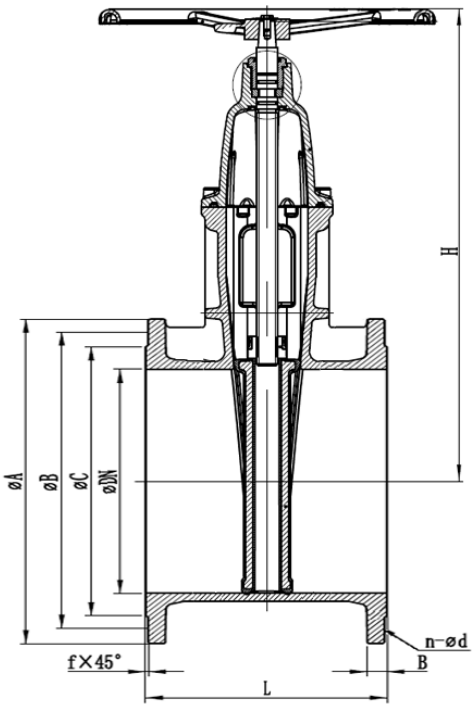
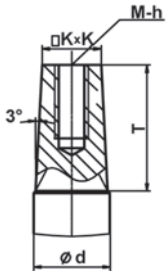
DIMENSIONS

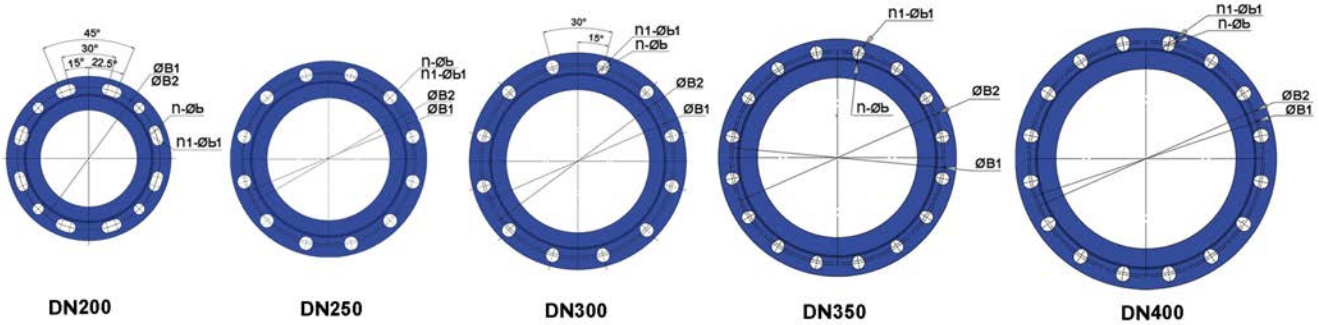


Maneuvering square



DN		Ød	K	M	h	T
mm	inch					
40	2"1/2	20	14.3	8	20	29
50	2"	20	14.3	8	20	29
60	2"1/4	2417.3	17.3	10	20	33
65	2"1/2	24	17.3	10	20	33
80	3"	24	17.3	10	20	33
100	4"	28	19.3	10	20	38
125	5"	28	19.3	10	20	38
150	6"	28	19.3	10	20	38
200	8"	30	24.3	10	20	42
250	10"	36	27.3	12	25	47
300	12"	36	27.3	12	25	47
350	14"	38	27.3	12	25	47
400	16"	38	27.3	12	25	47

DN		L	H	ØD	ØA		ØB		ØC	E	S	n - Øb	n1-Øb1	Weight (kg)
mm	inch				PN10	PN16	ØB1 (PN10)	ØB2 (PN16)				PN10	PN16	
40	2"1/2	240	220	180	150		110		84	16	3	4 x Ø19		11.2
50	2"	250	230	180	165		125		99	16	3	4 x Ø19		11.8
60*	2"1/4	270	265	200	185		135		118	16	3	4 x Ø19		13.6
65	2"1/2	270	265	200	185		145		118	16	3	4 x Ø19		14.4
80	3"	280	290	200	200		160		132	16	3	8 x Ø19		15.2
100	4"	300	335	250	220		180		156	16	3	8 x Ø19		20.2
125	5"	325	380	250	250		210		184	16	3	8 x Ø19		33
150	6"	350	415	300	285		240		211	16	3	8 x Ø23		35
200	8"	400	510	300	340		295		266	17	3	8 x Ø23	12 x Ø23	64
250	10"	450	600	500	400		350	355	319	19	3	12 x Ø23	12 x Ø28	87
300	12"	500	690	500	455		400	410	370	20.5	4	12 x Ø23	12 x Ø28	147
350	14"		790	600	520		460	470	429	22.5	4	16 x Ø23	16 x Ø28	
400	16"	600	855	600	580		515	525	480	24	4	16 x Ø28	16 x Ø31	251



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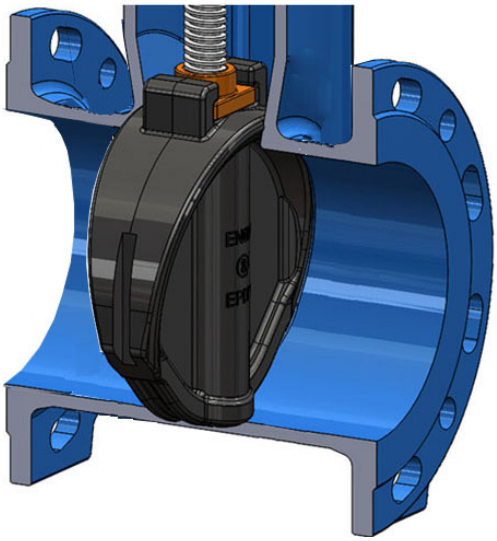
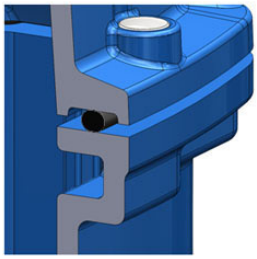
WORKING CONDITIONS

Maximum working pressure : 16 bar

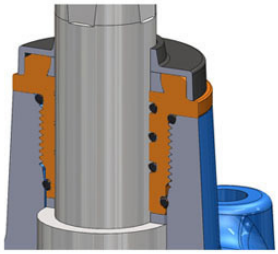
Maximum working temperature : +110°C



Upstream/downstream tightness

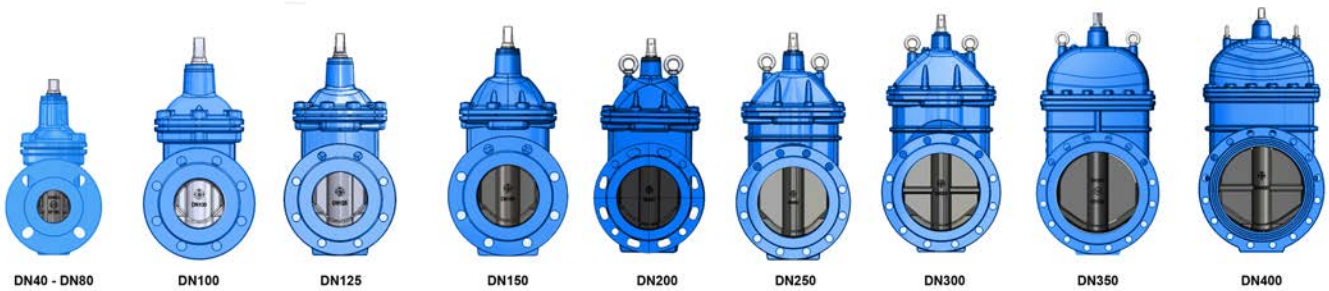


Body/bonnet tightness



Valve top tightness

TYPES OF CONSTRUCTION



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