

RESILIENT SEAT GATE VALVE DUCTILE IRON BODY

TECHNICAL PASSPORT

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

VOC 4241C-00

APPLICATION

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

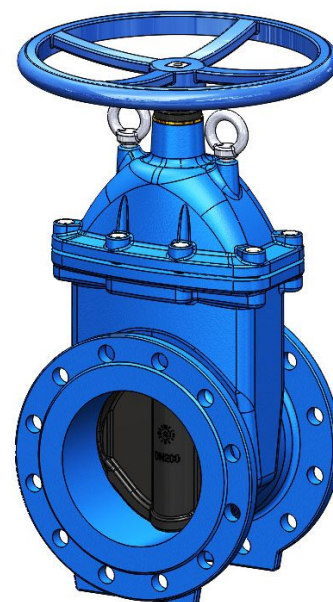


Fluids : water, waste water, non-aggressive neutral liquids, etc.

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 is ensured by 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 coating.
- Painting system designed to meet corrosion category C5, High durability - C5H, in accordance with the principles of NF EN ISO 12944.



STANDARDS

Design	Manufacture according to standard en EN1171 / EN1074
Face to face	Face-to-face dimension according to EN 558, Series 14 - F4 short pattern
Connection	Mounting flange in accordance with EN1092-2 : ISO PN10 and ISO PN16
Tests	Pressure test according to standards EN12266-1
Certificats	Health certificate of compliance (ACS) n° 21 ACC LY 015. / Certification WRAS n° 1606373

PRODUCT APPROVALS



Tecofi France

83 rue Marcel Mérieux - 69960 Corbas
Tél. +33 (0)4 72 79 05 79 - Fax. +33 (0)4 78 90 19 19
E-mail : sales@tecofi.fr - www.tecofi.fr

RESILIENT SEAT GATE VALVE DUCTILE IRON BODY

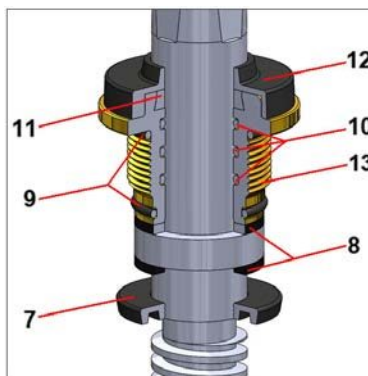
TECHNICAL PASSPORT

VOC 4241C-00

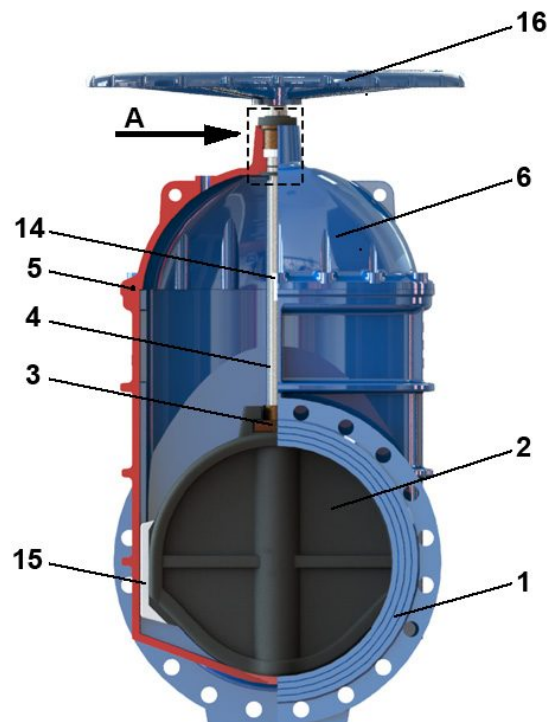
CONSTRUCTION

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 - minimum thickness 300 µm - C5H according to NF EN ISO 12944.
Bonnet	
Handwheel (16)	Epoxy liquid RAL 5015 70 microns



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)

Tecofi France

83 rue Marcel Mérieux - 69960 Corbas
Tél. +33 (0)4 72 79 05 79 - Fax. +33 (0)4 78 90 19 19
E-mail : sales@tecofi.fr - www.tecofi.fr



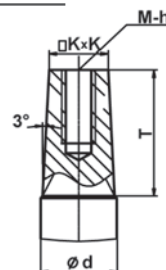
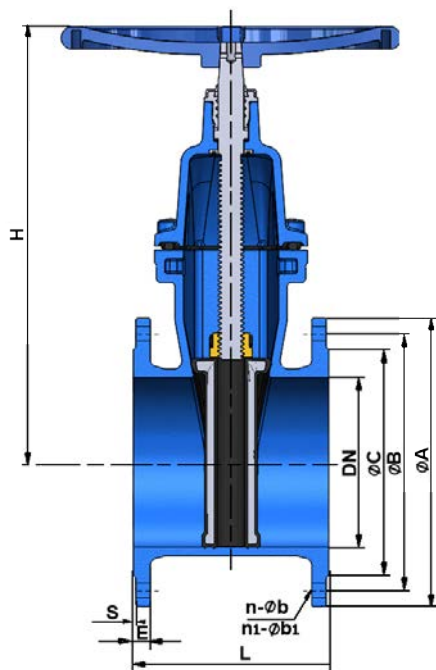
RESILIENT SEAT GATE VALVE DUCTILE IRON BODY

TECHNICAL PASSPORT

VOC 4241C-00

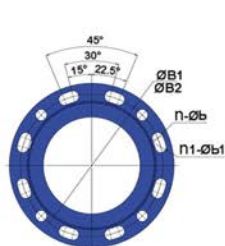
DIMENSIONS

Stem square details.

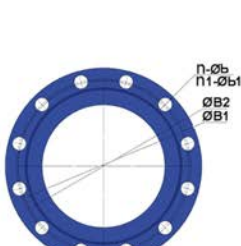


DN		Ød	K	M	h	T
mm	inch					
40	1 1/2	20	14.3	8	20	29
50	2	20	14.3	8	20	29
60	2 1/4	24	17.3	10	20	33
65	2 1/2	24	17.3	10	20	33
80	3	24	17.3	10	20	33
100	4	28	19.3	10	20	38
125	5	28	19.3	10	20	38
150	6	28	19.3	10	20	38
200	8	30	24.3	10	20	42
250	10	36	27.3	12	25	47
300	12	36	27.3	12	25	47
350	14	38	27.3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

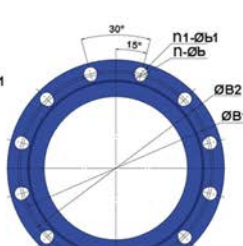
DN		L	H	ØD	ØA		ØB		ØC	E	S	n - Øb	n1-Øb1	Weight (kg)
mm	inch				PN10	PN16	ØB1 (PN10)	ØB2 (PN16)				PN10	PN16	
40	2 1/2	140	220	180	150		110		84	16	3	4 x Ø19		10
50	2	150	230	180	165		125		99	16	3	4 x Ø19		10.6
60*	2 1/4	170	265	200	185		135		118	16	3	4 x Ø19		11.3
65	2 1/2	170	265	200	185		145		118	16	3	4 x Ø19		12.5
80	3	180	290	200	200		160		132	16	3	8 x Ø19		13.8
100	4	190	335	250	220		180		156	16	3	8 x Ø19		18
125	5	200	380	250	250		210		184	16	3	8 x Ø19		26.5
150	6	210	415	300	285		240		211	16	3	8 x Ø23		31.9
200	8	230	510	300	340		295		266	17	3	8 x Ø23	12 x Ø23	54.5
250	10	250	600	500	400		350	355	319	19	3	12 x Ø23	12 x Ø28	75.5
300	12	270	690	500	455		400	410	370	20.5	4	12 x Ø23	12 x Ø28	110
350	14	290	790	600	520		460	470	429	22.5	4	16 x Ø23	16 x Ø28	174.2
400	16	310	855	600	580		515	525	480	24	4	16 x Ø28	16 x Ø31	226.5



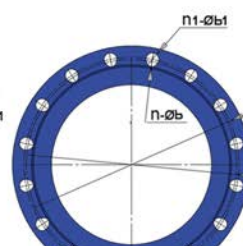
DN200



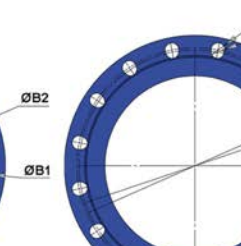
DN250



DN300



DN350



DN400

Tecofi France

83 rue Marcel Mérieux - 69960 Corbas

Tél. +33 (0)4 72 79 05 79 - Fax. +33 (0)4 78 90 19 19

E-mail : sales@tecofi.fr - www.tecofi.fr



The photographs and technical art works are not contractual. The specifications of the presented products are open to modifications without previous advice.

RESILIENT SEAT GATE VALVE

DUCTILE IRON BODY

TECHNICAL PASSPORT

VOC 4241C-00

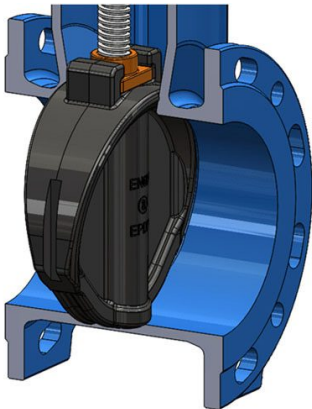
OPERATING TORQUES

DN	PN	Valve shaft diameter (mm)	Maximum operating torque - MOT according to EN 1074-2 (Nm)	Operating torque (Nm)
40	PN10/16	20	150	39
50	PN10/16	20	150	52
65	PN10/16	24	250	65
80	PN10/16	24	250	78
100	PN10/16	28	400	104
125	PN10/16	28	400	130
150	PN10/16	28	400	130
200	PN10/16	30	500	208
250	PN10/16	36	500	260
300	PN10/16	32	500	312
350	PN10/16	30	500	390
400	PN10/16	30	500	416

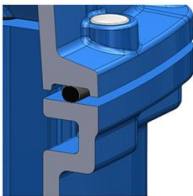
WORKING CONDITIONS

Maximum working pressure : 16 bar

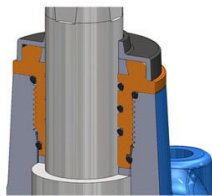
Maximum working temperature : +110°C



Upstream/downstream tightness

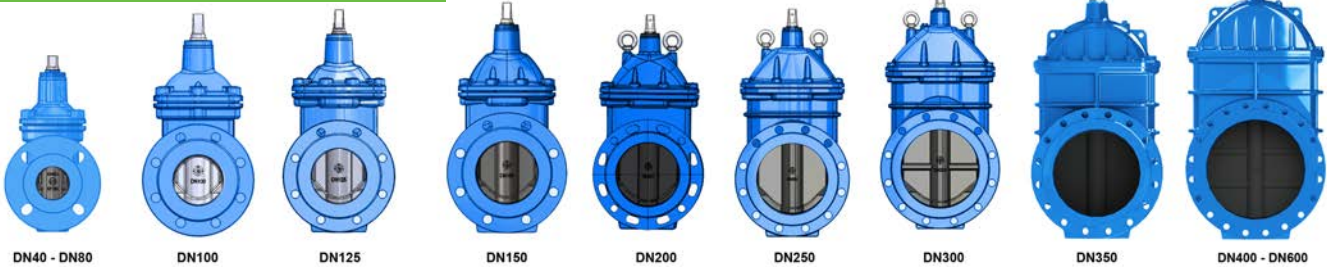


Body/bonnet tightness



Valve top tightness

TYPES OF CONSTRUCTION



DN40 - DN80

DN100

DN125

DN150

DN200

DN250

DN300

DN350

DN400 - DN600