

RESILIENT SEAT GATE VALVE DUCTILE IRON BODY

TECHNICAL PASSPORT

RESILIENT SEAT GATE VALVE WITH HANDWHEEL - DUCTILE IRON BODY FLANGE CONNECTION ASA150

VOC 4241CASA-00

APPLICATION

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

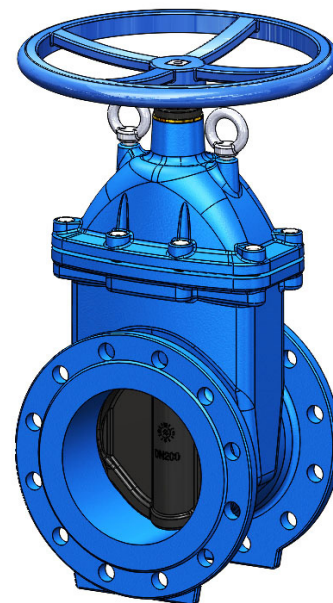


Fluids : water, waste water, sewage water, non-aggressive neutral liquids, etc.

GENERAL CHARACTERISTICS

Range : from DN40 to DN400.

- Resilient seat gate valve for ON/OFF or control operation, with non-rising stem.
- ASA150 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.
- 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 DIN3352 and EN 1171.
Face to face	Face to face dimension according to EN 558 serie 14 and DIN 3202 / F4 short pattern
Connection	Mounting flange ASA150 in accordance with ASME B16.5.
Tests	Pressure test according to standards NF EN 12266-1, NF EN 12266-2, DIN 3230, ISO 5208.
Certificats	Attestation of health conformity (ACS) n° 21 ACC LY 015. / Certification WRAS n° 2107136

PRODUCTS 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

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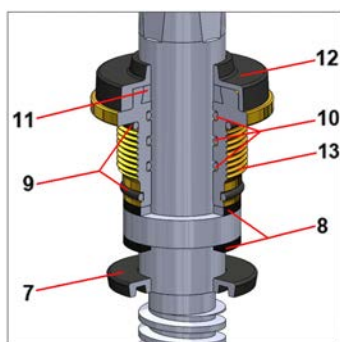
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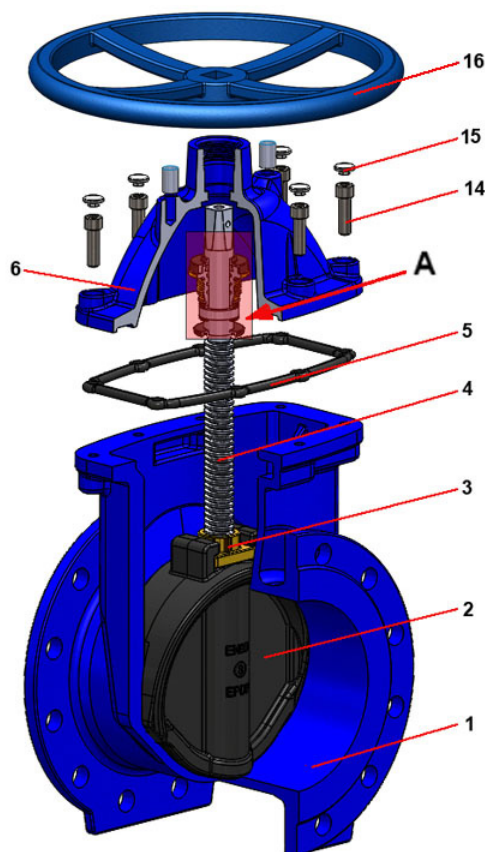
CONSTRUCTION

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	Epoxy liquid RAL 5015 250 microns
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	n	Wax plug				
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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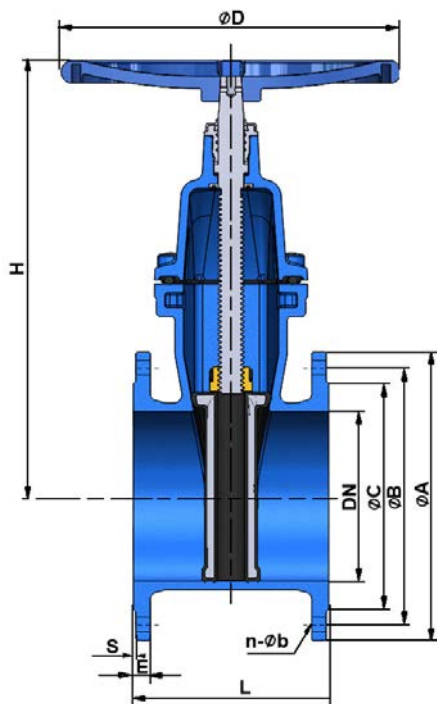


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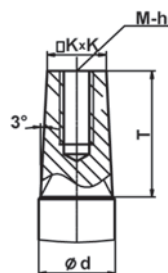
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DIMENSIONS



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
60/65	2" 1/4 / 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	Weight (kg)
mm	inch										
40	2" 1/2	140	220	180	150	98.4	84	16	3	4 x 15.9	10
50	2"	150	230	180	165	120.6	99	16	3	4 x 19	10.6
60/65	2" 1/4 / 2" 1/2	170	265	200	185	139.7	118	16	3	4 x 19	12.5
80	3"	180	290	220	200	152.4	132	16	3	4 x 19	13.8
100	4"	190	335	250	220	190.5	156	16	3	8 x 19	18
125	5"	200	380	250	250	215.9	184	16	3	8 x 22.2	26.5
150	6"	210	415	300	285	241.3	211	16	3	8 x 22.2	31.9
200	8"	230	510	300	340	298.4	266	17	3	8 x 22.2	54.5
250	10"	250	600	500	400	362	319	19	3	12 x 25.4	75.5
300	12"	270	690	500	455	431.8	370	20.5	4	12 x 25.4	110
350	14"	290	790	600	520	476.2	429	22.5	4	12 x 28.6	174.2
400	16"	310	855	600	580	539.4	480	24	4	16 x 28.6	226.5

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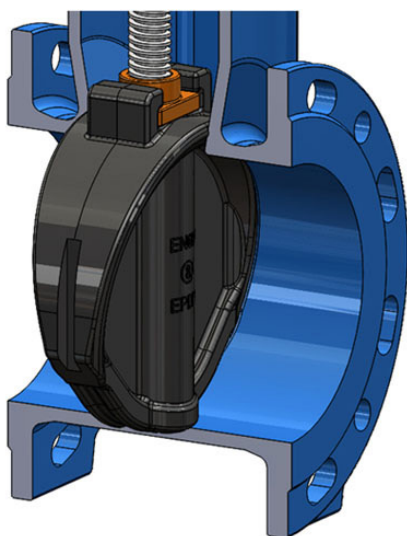
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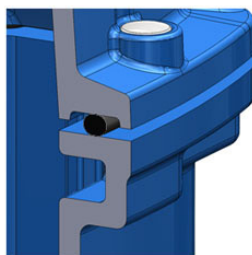
WORKING CONDITIONS

Maximum working pressure : 16 bar

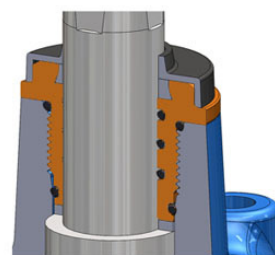
Maximum working temperature : +80°C



Upstream/downstream tightness

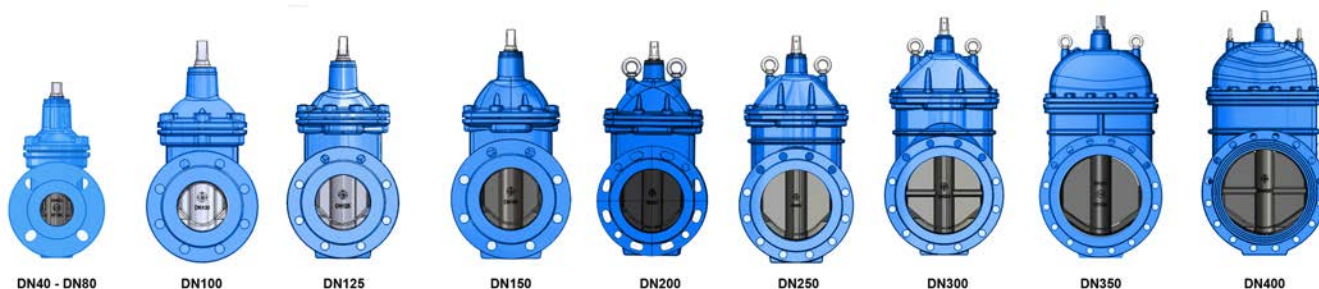


Body/bonnet tightness



Valve top tightness

TYPES OF CONSTRUCTION



DN40 - DN80

DN100

DN125

DN150

DN200

DN250

DN300

DN350

DN400

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