

RESILIENT SEAT GATE VALVE DUCTILE IRON BODY

TECHNICAL PASSPORT

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

VOC 4241C-051

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

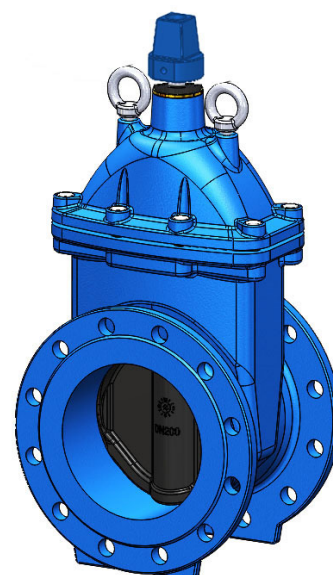
Range : from DN40 to DN400.

- Resilient seat gate valve for ON/OFF 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 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 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 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



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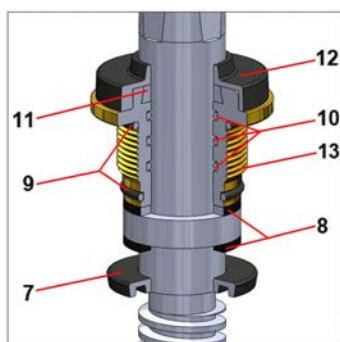
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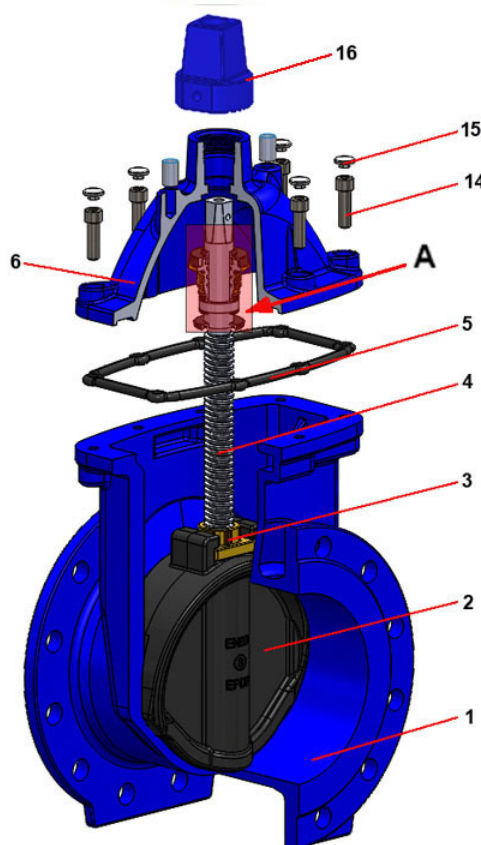
CONSTRUCTION

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
Square (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	Square	Cast iron EN-GJL-250	GG25	A48 class 40B	1452 Grade 250

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

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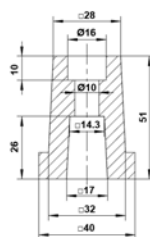
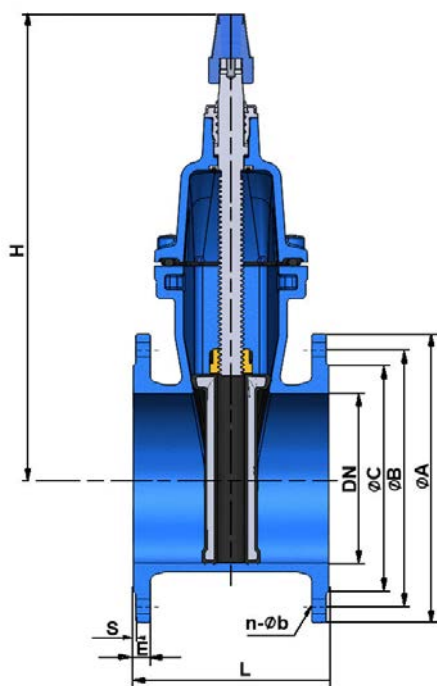
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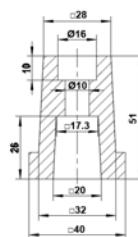
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DIMENSIONS

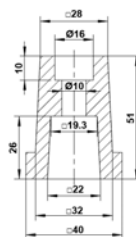
Maneuvering square



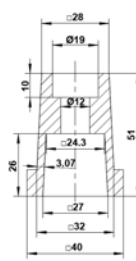
DN40-50



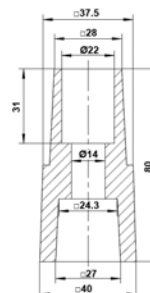
DN65-80



DN100-150

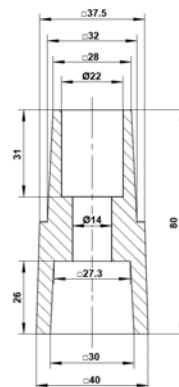


A



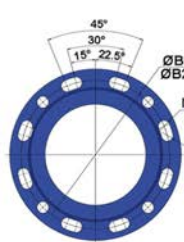
B

DN250-400

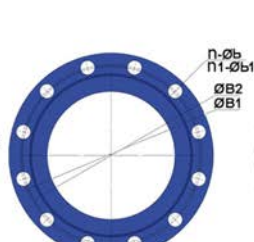


DN200

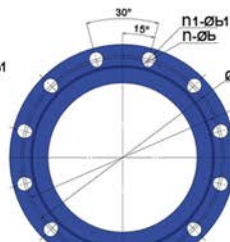
DN		L	H	ØA		ØB		ØC	E	S	n - Øb		n1-Øb1	Weight (kg)
mm	inch			PN10	PN16	ØB1 (PN10)	ØB2 (PN16)				PN10	PN16		
40	2" 1/2	140	254	150		110		84	16	3	4 x Ø19			10
50	2"	150	264	165		125		99	16	3	4 x Ø19			10.6
60/65	2" 1/4 / 2" 1/2	170	299	185		135/145		118	16	3	4 x Ø19			12.5
80	3"	180	324	200		160		132	16	3	8 x Ø19			13.8
100	4"	190	369	220		180		156	16	3	8 x Ø19			18
125	5"	200	414	250		210		184	16	3	8 x Ø19			22
150	6"	210	449	285		240		211	16	3	8 x Ø23			31.9
200	8"	230	544	340		295		266	17	3	8 x Ø23	12 x Ø23		54.5
250	10"	250	634	400		350	355	319	19	3	12 x Ø23	12 x Ø28		75.5
300	12"	270	724	455		400	410	370	20.5	4	12 x Ø23	12 x Ø28		110
350	14"	290	824	520		460	470	429	22.5	4	16 x Ø23	16 x Ø28		158
400	16"	310	889	580		515	525	480	24	4	16 x Ø28	16 x Ø31		201



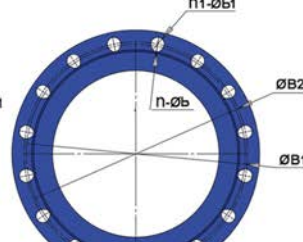
DN200



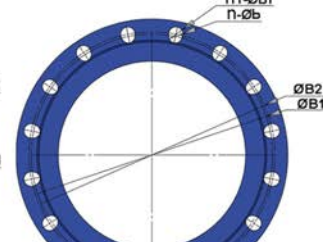
DN250



DN300



DN350



DN400

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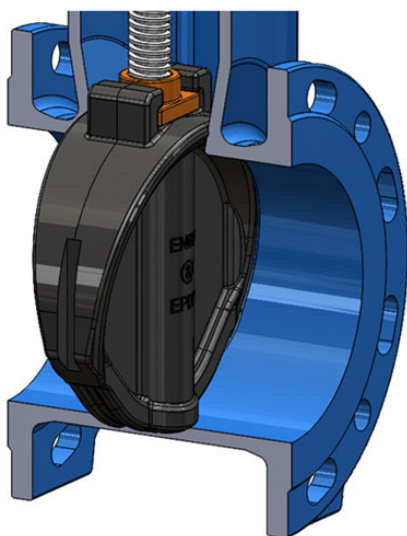
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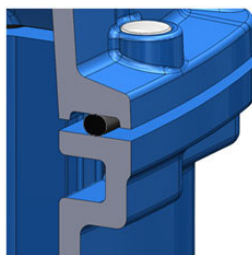
WORKING CONDITIONS

Maximum working pressure : 16 bar

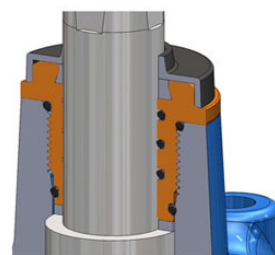
Maximum working temperature : +110°C



Upstream/downstream tightness

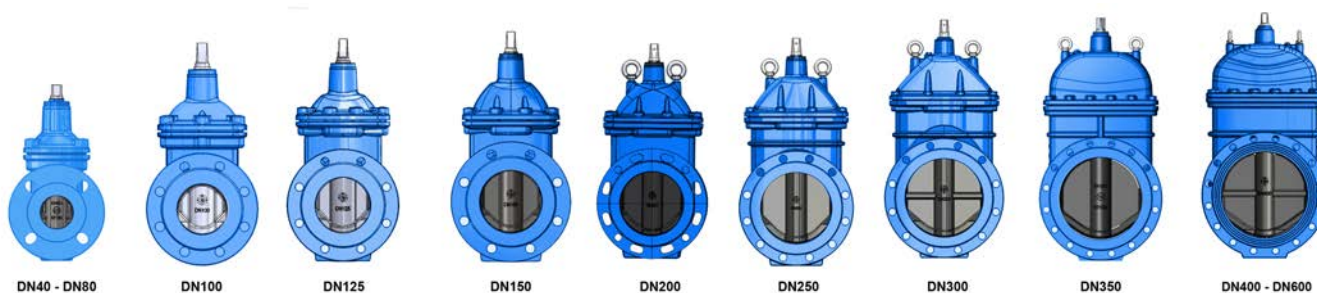


Body/bonnet tightness



Valve top tightness

TYPES OF CONSTRUCTION



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