

# RESILIENT SEAT GATE VALVE DUCTILE IRON BODY

## TECHNICAL PASSPORT

VOC4241C-C08CEP

### RESILIENT SEAT GATE VALVE WITH PLANETARY GEARBOX AND AUMA WSH SWITCH DEVICE WITH HANDWHEEL DUCTILE IRON BODY - FLANGE CONNECTION

#### 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 DN200 to DN1200.

- Resilient seat gate valve for ON/OFF or control operation, with non-rising stem.
- Flange mounting.
- Clockwise closing
- 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 wedge 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.
- With AUMA WSHswitch device with handwheel

#### STANDARDS

<b>Design</b>	Manufacture according to standard en 1171.
<b>Face to face</b>	Face to face dimension according to EN 558 serie 14 and DIN 3202 / F4 short pattern
<b>Connection</b>	Mounting flange in accordance with EN1092-2 : ISO PN10/16 (DN200-600); PN10 (DN700-1200)
<b>Tests</b>	Pressure test according to standard EN12266-1
<b>Certificats</b>	Health compliance certificate (ACS) n° 21 ACC LY 015.

#### PRODUCTS APPROVALS



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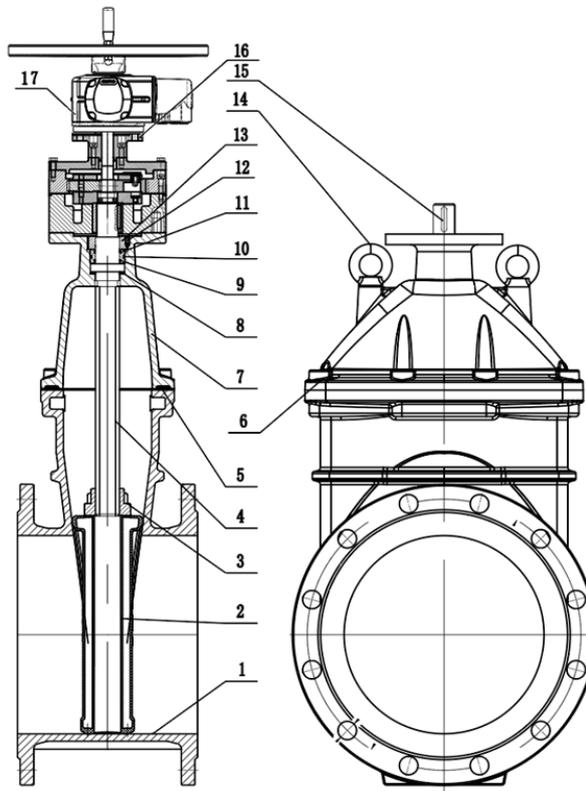


# RESILIENT SEAT GATE VALVE DUCTILE IRON BODY

## CONSTRUCTION DN200-300

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 (7)	Epoxy liquid RAL 5015 250 microns
gearbox (16)	Epoxy liquid RAL 5015 70 microns
Handwheel (17)	Epoxy liquid RAL 5015 70 microns



Pos.	Q-ty	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	Ductile iron EN-GJS-500-7 + EPDM	GGG50	A536 65-45-12	1563 EN-JS1050
3	1	Stem nut	Brass			
4	1	Stem	Stainless steel 2Cr13			
5	1	Sealing gasket	EPDM			
6	n	Hexagonal screw	Acier au carbone 8.8			
7	1	Bonnet	Ductile iron EN-GJS-500-7	GGG50	A536 65-45-12	1563 EN-JS1050
8	1	Wear resistant gasket	Polytetrafluoroethylene			
9	2	O ring	EPDM			
10	1	O ring	NBR			
11	1	Bearing seal	Brass HPb59-1			
12	1	Hexagonal screw	A2-21H	GGG50	A536 65-45-12	1563 EN-JS1050
13	6	Locknut	Brass HPb59-1			
14	2	Lifting ring				
15	1	Key	Steel #45			
16	1	Planetary gearbox	Finished product			
17	1	Switch device				

n = 8 (DN200 - 250); 10 (DN300)

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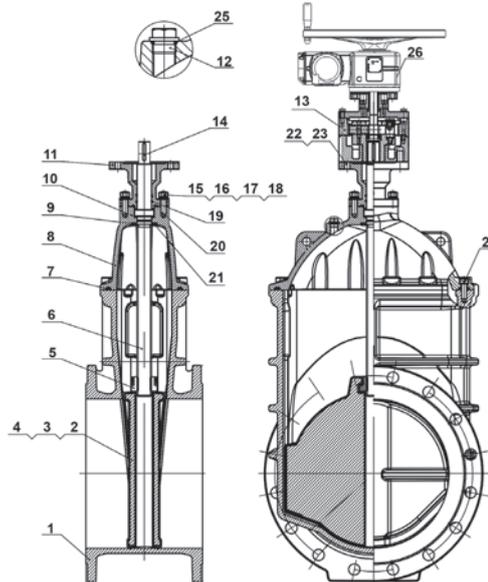
### TECHNICAL PASSPORT

VOC4241C-C08CEP

#### CONSTRUCTION DN350-600

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 (8)	Epoxy liquid RAL 5015 250 microns
Gearbox (13)	Epoxy liquid RAL 5015 70 microns
Handwheel (26)	Epoxy liquid RAL 5015 70 microns



Pos.	Q-ty	Description	Matière	Equivalences		
				DIN	ASTM	BS
1	1	Body	Ductile iron EN-GJS-500-7	GGG50	A536 65-45-12	1563 EN-JS1050
2	1	Rubber coated wedge	Ductile iron EN-GJS-500-7 + EPDM	GGG50	A536 65-45-12	1563 EN-JS1050
3	1	Wedge casting	Ductile iron EN-GJS-500-7	GGG50	A536 65-45-12	1563 EN-JS1050
4	2	Wedge slide	Nylon 66			
5	1	Stem nut	Brass HPb59-1			
6	1	Stem	Stainless steel 2Cr13			
7	1	Sealing gasket	EPDM			
8	1	Bonnet	Ductile iron EN-GJS-500-7	GGG50	A536 65-45-12	1563 EN-JS1050
9	1	Inverted sealing ring	EPDM			
10	2	Wear resistant gasket	Nylon 66			
11	1	Top flange	Ductile iron EN-GJS-500-7	GGG50	A536 65-45-12	1563 EN-JS1050
12	1	Plug	Stainless steel 2Cr13			
13	1	Planetary gear box				
14	1	Key	45#			
15	4	Hexagonal bolts	A2-70			
16	4	Hexagonal nut	A2-70			
17	4	Spring washer	A2-70			
18	4	Gasket ring	A2-70			
19	2	O ring I	EPDM			
20	1	O ring II	EPDM			
21	1	O ring III	EPDM			
22	4	External hexagonal bolt	A2-70			
23	4	Spring washer	A2-70			
24	m	Hexagonal screw	Carbon steel 8.8			
25	1	O ring IV	EPDM			
26	1	Switch device				

m = 12 (DN350 - 400); 14 (DN450); 16 (DN500 - 600)

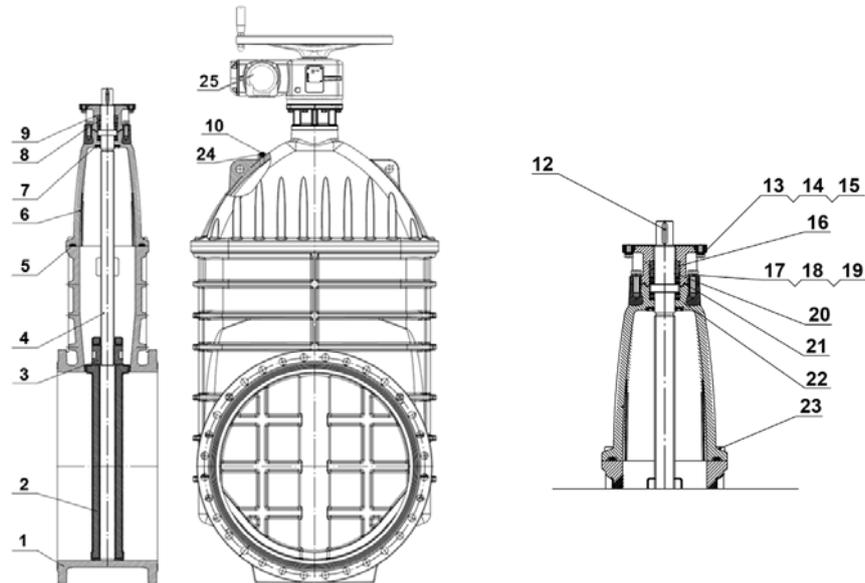
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# RESILIENT SEAT GATE VALVE DUCTILE IRON BODY

## CONSTRUCTION DN700-1200



Pos.	Description	Q-ty	Material	Equivalences		
				DIN	ASTM	BS
1	Body	1	Ductile iron EN-GJS-500-7	GGG50	A536 65-45-12	1563 EN-JS1050
2	Wedge	1	Ductile iron EN-GJS-500-7 + EPDM	GGG50	A536 65-45-12	1563 EN-JS1050
3	Stem nut	1	Brass HPb59-1			
4	Stem	1	Stainless steel 2Cr13			
5	Sealing gasket	1	EPDM			
6	Bonnet	1	Ductile iron EN-GJS-500-7	GGG50	A536 65-45-12	1563 EN-JS1050
7	Inverted sealing ring	1	EPDM			
8	Shaft sealing sleeve	1	Brass HPb59-1			
9	Top flange	1	Ductile iron EN-GJS-500-7	GGG50	A536 65-45-12	1563 EN-JS1050
10	Plug	1	Stainless steel 2Cr13			
11	Planetary gearbox	1	Ductile iron EN-GJS-500-7	GGG50	A536 65-45-12	1563 EN-JS1050
12	Key	2	45#			
13	Hexagon bolt	8	A2-70			
14	Spring washer	8	A2-70			
15	Gasket ring	8	A2-70			
16	O ring I	2	NBR			
17	Hexagon bolt	n	A2-70			
18	Spring washer	n	A2-70			
19	Gasket ring	n	A2-70			
20	O ring II	3	NBR			
21	O ring III	1	NBR			
22	Roller bearing	2	Bearing steel 8.8			
23	Hexagonal screw	m	Carbon steel 8.8			
24	O ring IV	1	NBR			
25	Switch device	1				

n - 6 (DN700-800) ; 8 (DN900-1200)  
m - 20 (DN700-900); 22 (DN1000); 24 (DN1200)

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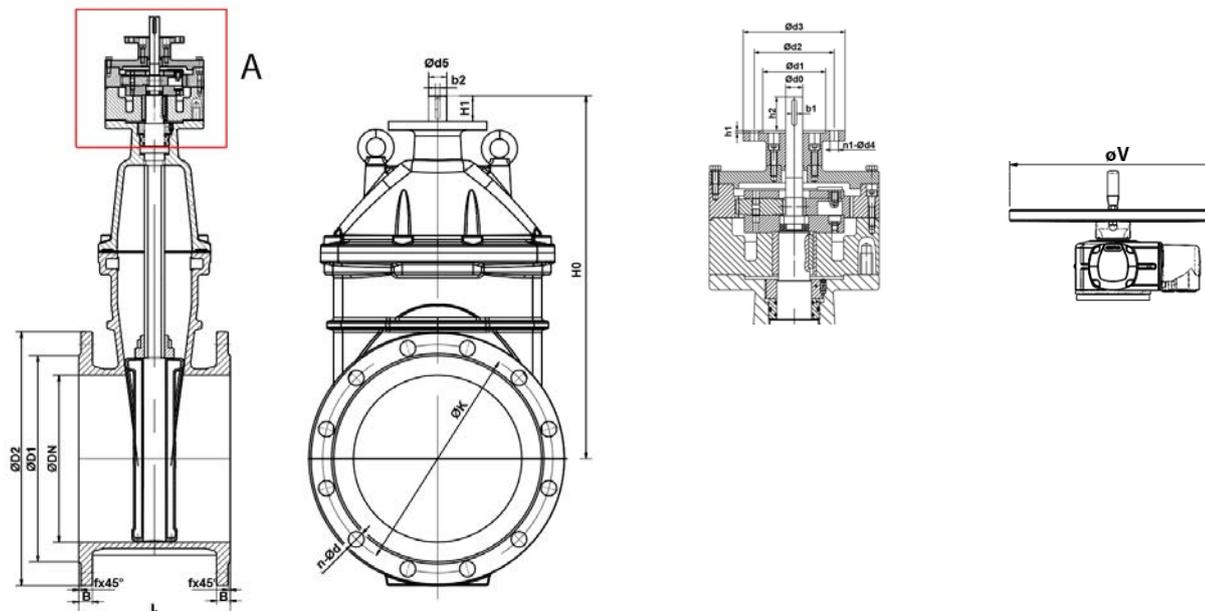
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## RESILIENT SEAT GATE VALVE DUCTILE IRON BODY

TECHNICAL PASSPORT

VOC4241C-C08CEP

### DIMENSIONS DN200-300



DN		ISO	ød0	ød1	ød2	ød3	b1	h1	h2	n1-ød4	nb of turns	Torque (Nm)	ratio
mm	inch												
200	8"	F10	20	70	102	125	6	4	36	4-ø12	51	77	4:1
250	10"	F10	20	70	102	125	6	4	36	4-ø12	63	94	4:1
300	12"	F10	20	70	102	125	6	4	36	4-ø12	75	89	4:1

DN		ØD1	ØD2	ØK		n - Ød		f	B	L	H0	H1	b2	Ød5	ØV	Weight* (kg)
mm	inch			PN10	PN16	PN10	PN16									
200	8"	266	340	295	295	8-ø20	12-ø23	3	20	230	430	40	8	30	400/500	88
250	10"	319	405	350	355	12-ø23	12-ø28	3	22	250	570	40	8	30	400/500	109
300	12"	370	460	400	410	12-ø23	12-ø28	4	24.5	270	660	40	8	30	400/500	153

\* - Weight includes the handwheel

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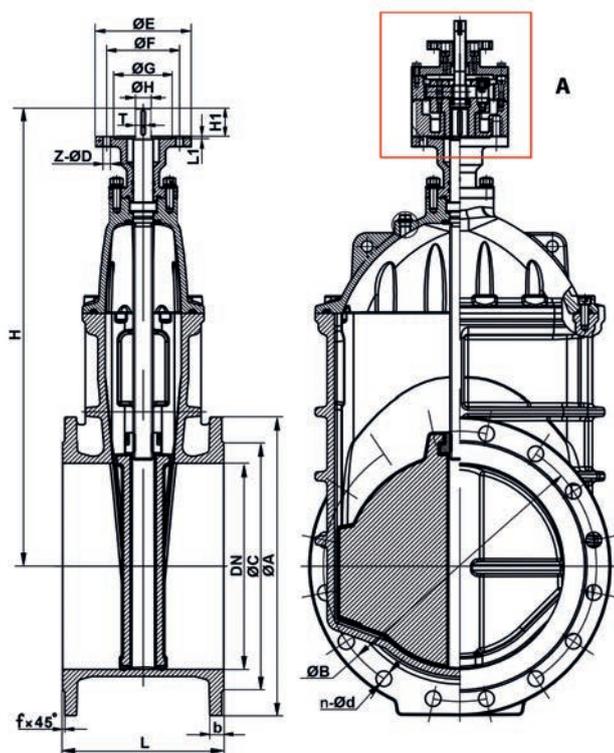


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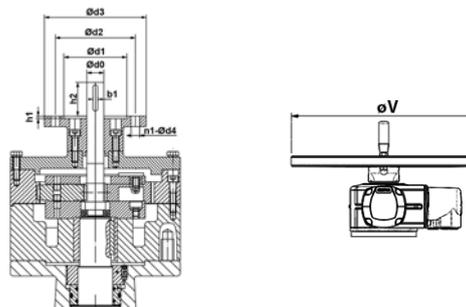
TECHNICAL PASSPORT

VOC4241C-C08CEP

### DIMENSIONS DN350-600



VIEW A



DN		ISO	Ød0	Ød1	Ød2	Ød3	b1	h1	h2	n1-Ød4	Torque (Nm)	nb of turns
mm	inch											
350	14"	F10	20	70	102	125	10	5	35	4-Ø18	80	100
400	16"	F10	20	70	102	125	10	5	35	4-Ø18	100	115
450	18"	F14	30	100	140	175	10	5	55	4-Ø18	100	145
500	20"	F14	30	100	140	175	10	5	55	4-Ø18	100	179
600	24"	F14	30	100	140	175	10	5	55	4-Ø18	150	258

DN		L	H	ØA		ØB		ØC		f	ØH	ISO	Valve mounting flange ISO							ØV	n-Ød		Weight* (kg)	
mm	inch			PN10	PN16	PN10	PN16	PN10	PN16				Z-ØD	T	ØE	ØF	ØG	L1	H1	Torque (Nm)		PN10	PN16	
350	14"	290	805	505	520	460	470	429	429	4	30	F14	4 x Ø18	8	175	140	100	5	45	90	400/500	16 x Ø23	16 x Ø28	201
400	16"	310	889	565	580	515	252	480	480	4	30	F14	4 x Ø18	8	175	140	100	5	45	96	400/500	16 x Ø28	16 x Ø31	228
450	18"	330	1006	615	640	565	585	530	548	4	30	F14	4 x Ø18	8	175	140	100	5	45	111	630	20 x Ø28	20 x Ø31	307
500	20"	350	1069	670	715	620	650	582	609	4	35	F16	4 x Ø22	10	210	165	130	5	55	104	630	20 x Ø28	20 x Ø34	370
600	24"	390	1239	780	840	725	770	682	720	5	35	F16	4 x Ø22	10	210	165	130	5	55	125	630	20 x Ø31	20 x Ø37	594

\* - Weight includes the handwheel

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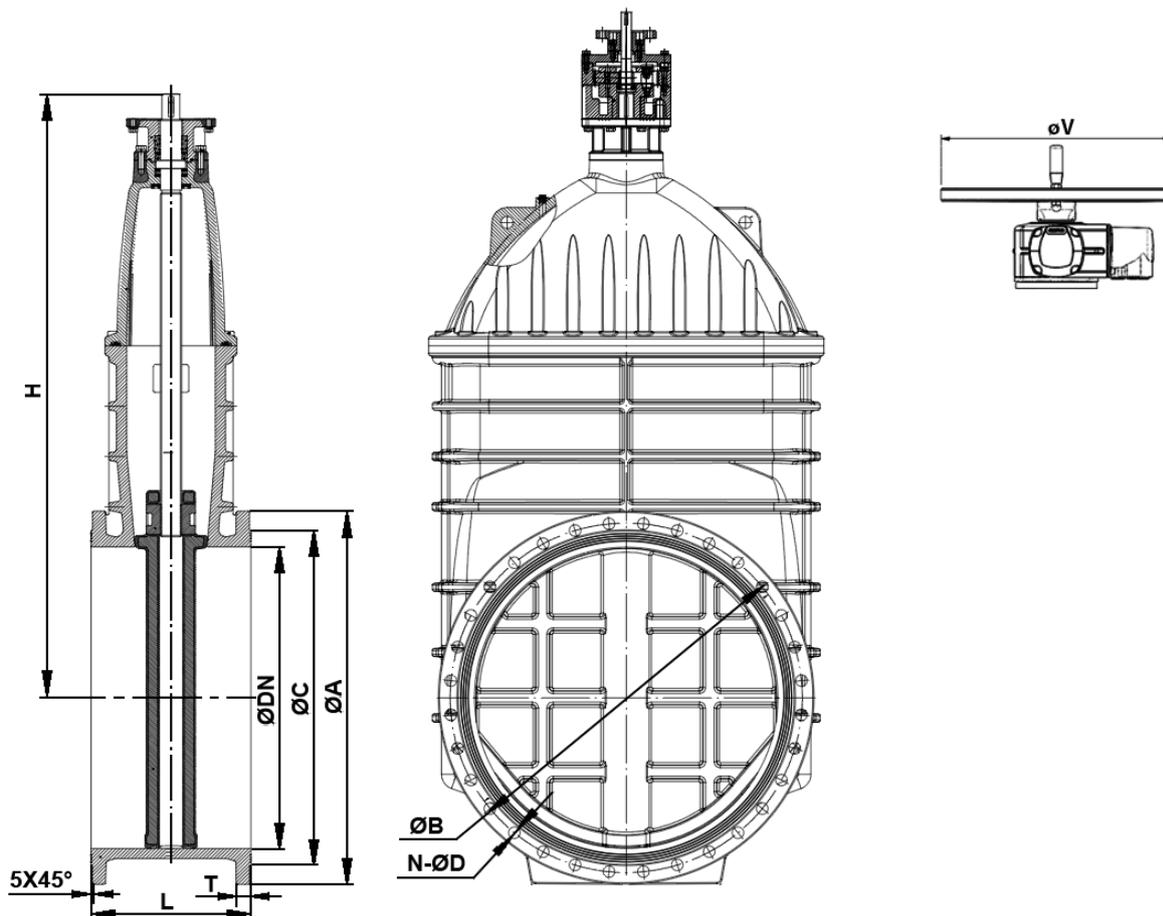


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TECHNICAL PASSPORT

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## DIMENSIONS DN700-1200



DN		L	H	T	ØA	ØC	ØDB	N - ØD	ØV	Weight* (kg)
mm	inch									
700	28"	430	1403	32.5	895	794	840	24 x Ø31	630	864
800	32"	470	1650	35	1015	901	950	24 x Ø34	630	1347
900	36"	510	1923	37.5	1115	1001	1050	28 x Ø34	630	2082
1000	40"	550	2061	40	1230	1112	1160	28 x Ø37	630	2452
1200	48"	630	2403	45	1455	1328	1380	32 x Ø40	630	3702

\* - Valve weight with handwheel

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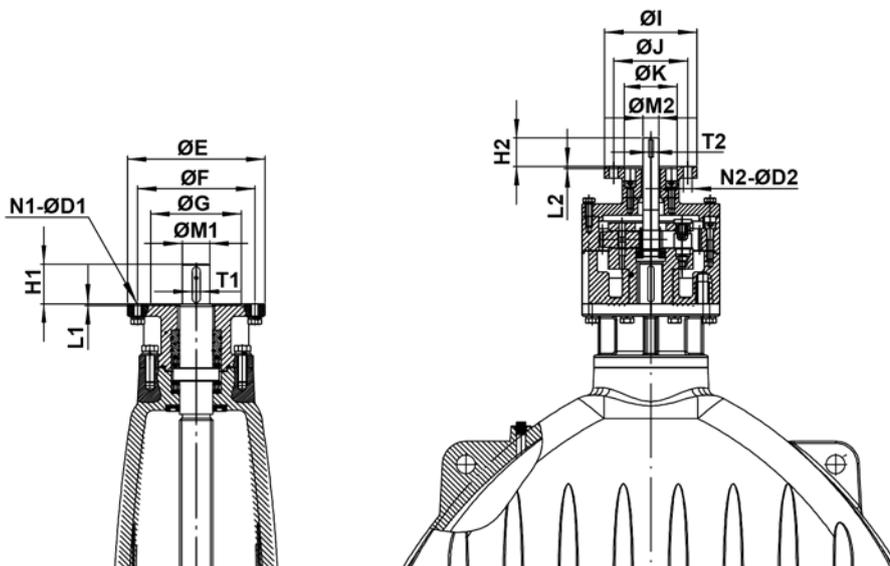


## RESILIENT SEAT GATE VALVE DUCTILE IRON BODY

TECHNICAL PASSPORT

VOC4241C-C08CEP

### DIMENSIONS



DN		Valve top flange									Planetary gearbox top flange								Torque (Nm)	Input torque (Nm)	nbr turns	Ratio	
mm	inch	F	ØE	ØF	ØG	N1-ØD1	ØM1	T1	L1	H1	F	ØI	ØJ	ØK	N2-ØD2	ØM2	T2	L2					H2
700	28"	F25	300	254	200	8-ø18	45	14	5	70	F14	175	140	100	4-ø18	30	8	5	45	120	700	352	1:8
800	32"	F25	300	254	200	8-ø18	55	16	5	75	F14	175	140	100	4-ø18	30	8	5	45	130	800	320	1:8
900	36"	F30	350	298	230	8-ø22	65	18	5	90	F14	175	140	100	4-ø18	30	8	5	45	140	900	540	1:12
1000	40"	F30	350	298	230	8-ø22	70	20	5	95	F14	175	140	100	4-ø18	30	8	5	45	170	1000	600	1:12
1200	48"	F30	350	298	230	8-ø22	70	20	5	95	F14	175	140	100	4-ø18	30	8	5	45	200	1400	1200	1:24

**⚠ The valves must be mounted on horizontal piping in vertical position, with operating stem pointing upwards. Contact us for mounting on vertical or steeply inclined piping**

### WORKING CONDITIONS

Maximum working pressure : 16 bar (DN200-600)  
10 bar (DN700-1200)

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

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