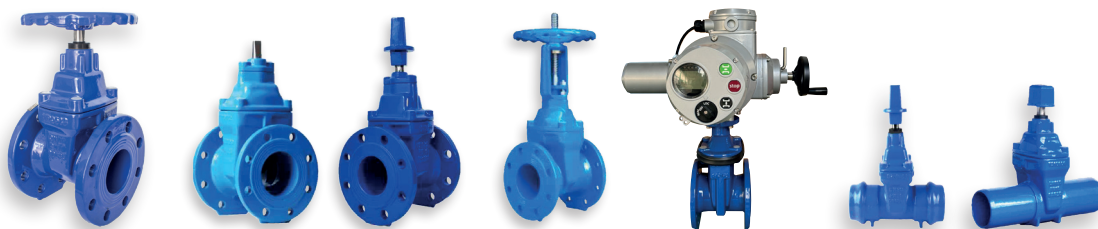


OMEAX

Specialist in industrial valves

Gate valve

Saturne



Presentation



Advantages

1. **Low Torque:** Linear sealing design and stem ensures smooth operation with low torque.
2. **Corrosion Resistance:** thanks to surface treatment and excellent coating, and O-ring bonnet gasket wraps each bolt to prevent corrosion
3. **Low Head Loss:** achieved by free and full-bore self-cleaning design
4. **Online maintenance and repair under pressure**
5. **Various choices of connection:** Socket for uPVC pipes, smooth end type, BSP threaded and flange

Application

- Water transmission
- Water distribution network
- Fire protection network
- Desalination
- Water treatment
- Irrigation
- House connection
- Dams and hydro power
- Industrial water applications
- Sewage network and treatment

Specifications

Design and technical data

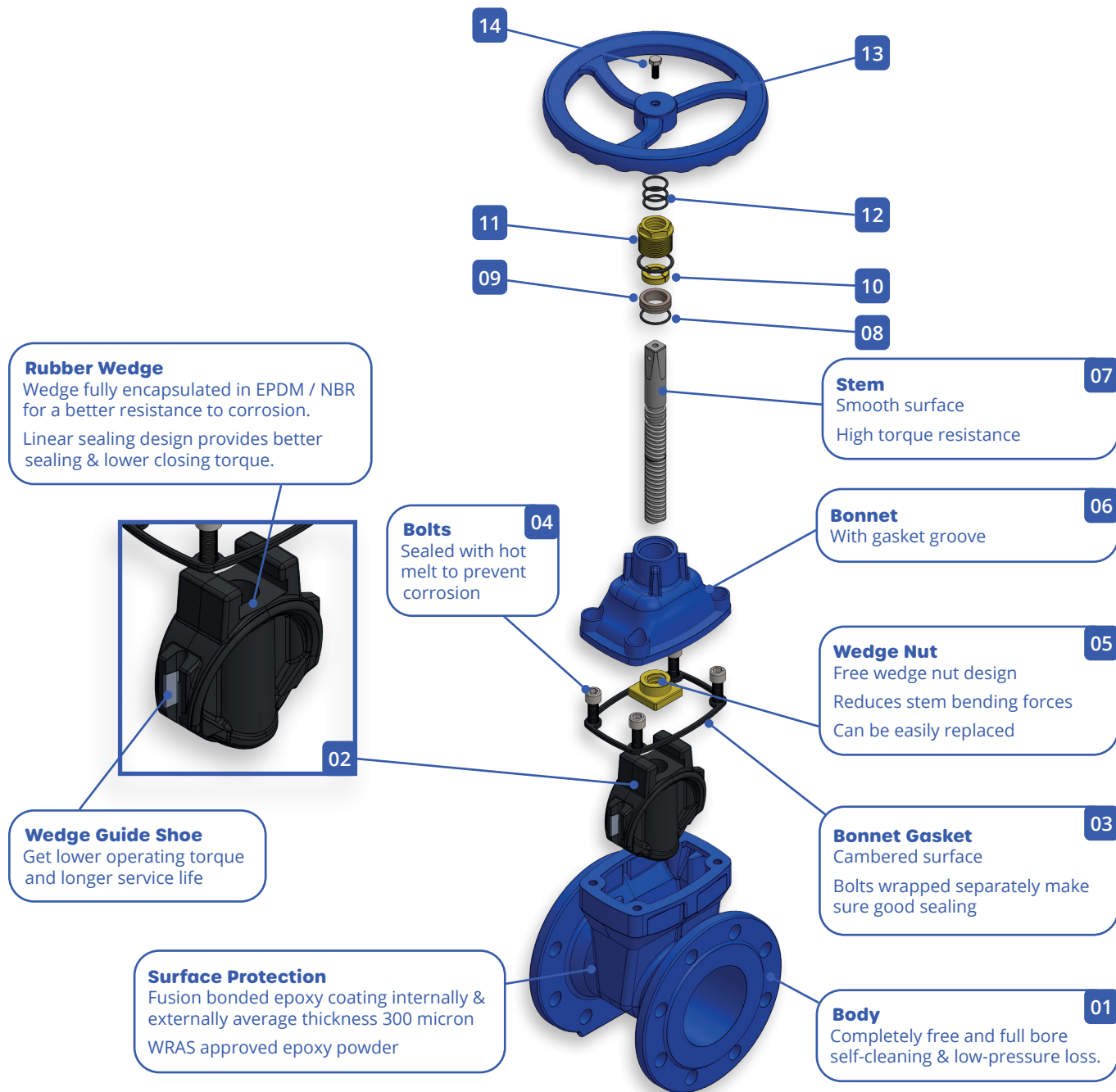
DN mm	DN 40 - DN1200
DN inch	1½" - 48"
Temperature	0°C - 50°C
Type of connection	Socket for uPVC pipes, smooth end type, BSP threaded and flange
Fluid	Potable water, waste water, sewage water, sea water
Epoxy coating	Min 250 microns inside and outside RAL 5015
Pressure range	ISO PN10/PN16/PN25
Flange standard	EN 1092-2 ISO 7005-2
Design standard	EBN 1074-2
Test standard	ISO 5208 and EN12266-1*

* Resistance and tightness of the body (1.5 x allowable operating pressure)
* Tightness of the seat, (1.1 x allowable operating pressure)

+ Options/variants

- Personalized epoxy thickness 80-300 microns
- Electric actuator
- Pneumatic actuator
- Visual mechanical position indicator with optional electrical limit switch.
- Accessories (handwheel, captop, stem extension, others...).

Part list



Item	Part name	No.	Materials	Options
01	Body	1	Ductile iron EN-GJS500-7	
02	Rubber Wedge	1	Ductile iron EN-GJS500-7 + EPDM / NBR rubber	
03	Bonnet Gasket	1	EPDM / NBR rubber	
04	Bolts	4	Carbon steel Galvanized 8.8 grade	SS304/SS316/SS316L
05	Wedge Nut	1	BRASS CuZn39Pb1	Aluminium Bronze / Dezincification Brass CZ132
06	Bonnet	1	Ductile iron EN-GJS500-7	
07	Stem	1	Stainless steel AISI 420	SS304 / SS316 / SS316 / * SS431
08	Oring	1	NBR	
09	Trust Waster	1	BRASS CuZn39Pb1	Aluminium Bronze / Dezincification Brass CZ132
10	Locking R	1	BRASS CuZn39Pb1	Aluminium Bronze / Dezincification Brass CZ132
11	Stem Nut	1	BRASS CuZn39Pb1	Aluminium Bronze / Dezincification Brass CZ132
12	Oring	3	NBR	
13	Handwheel / Cap	1	Ductile iron EN-GJS500-7	
14	Screw	1	AISI304	

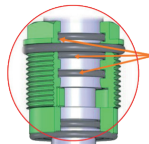
G100 - DN40 to DN300

Resilient Seated Gate Valve - Non-Rising Stem, brass nut type

STOCK



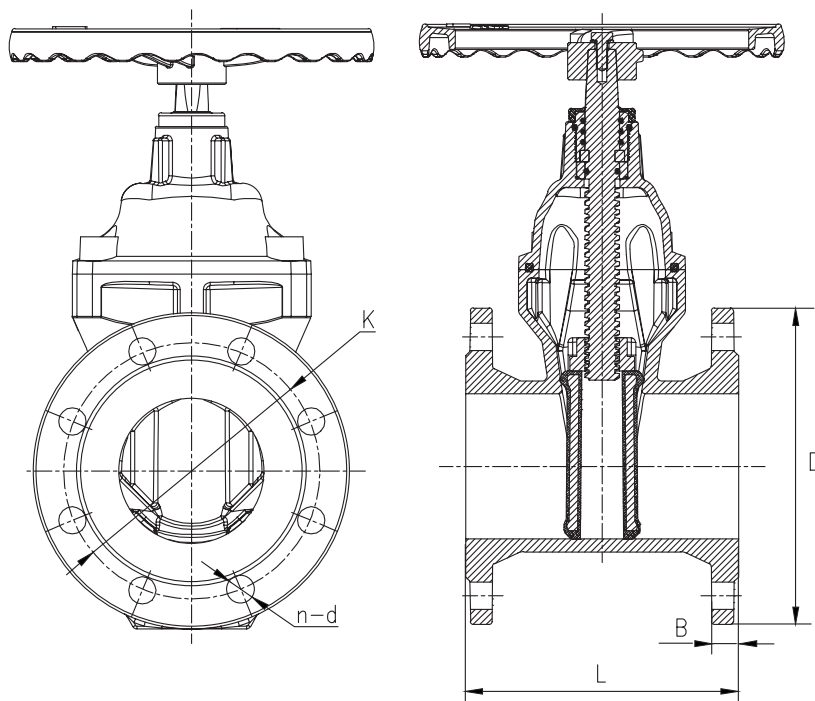
Standard:
Clockwise closing



4 x O-ring stem
3 x top rings replaceable
under pressure

Technical data

DN mm	DN 40 - DN 300
DN inch	1"1/2" - 12"
PN	10 - 16 - 25
Face to face	DIN-F4 STOCK
	DIN-F5
	BS5163



SIZE	Outline (mm)			Valve Flange dimensions (mm)			
	L (face to face)			EN1092		PN10/PN16/PN25	
DN	BS513	DIN-F4	DIN-F5	D	K	n-d	B
40	165	140	240	150	110	4-Ø19	19
50	178	150	250	165		4-Ø19	19
65	190	170	270	185		4-Ø19 / 4-Ø19 / 8-Ø19	19
80	203	180	280	200		8-Ø19 / 8-Ø19 / 8-Ø19	19
100	229	190	300	220 / 220 / 235	180 / 180 / 190	8-Ø19 / 8-Ø19 / 8-Ø23	19
125	254	200	325	250 / 250 / 270	210 / 210 / 220	8-Ø19 / 8-Ø19 / 8-Ø28	19
150	267	210	350	285 / 285 / 300	240 / 240 / 250	8-Ø23 / 8-Ø23 / 8-Ø28	19 / 19 / 20
200	292	230	400	340 / 340 / 360	295 / 295 / 310	8-Ø23 / 12-Ø23 / 12-Ø28	20 / 20 / 22
250	330	250	450	405 / 405 / 425	350 / 355 / 370	12-Ø23 / 12-Ø28 / 16-Ø31	22 / 22 / 24.5
300	356	270	500	460 / 460 / 485	400 / 410 / 430	12-Ø23 / 12-Ø28 / 16-Ø31	24.5 / 24.5 / 27.5

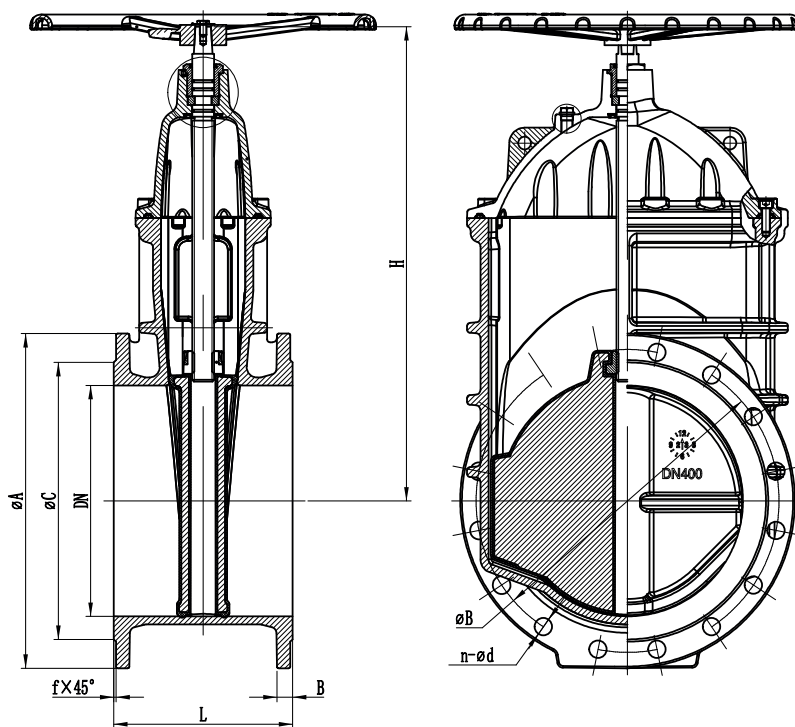
G100 - DN350 to DN600

Resilient Seated Gate Valve - Non-Rising Stem, brass nut type



Technical data

DN mm	DN 350 - DN 600
DN inch	14" - 24"
PN	10 - 16 - 25



DN	PN	L			H	ØA	ØB	ØC	n-Ød	B	f	m	Toque (Nm)	ISO
		BS5163	F4	F5										
350	10					505	460		16-Ø23	24.5				
	16	381	290	550	774	520	470	429	16-Ø28	26.5	4	12	280	F10
	25					555	490	448	16-Ø34	30				
400	10					565	515		16-Ø28	24.5				
	16	406	310	600	828	580	525	480	16-Ø31	28	4	12	320	F10
	25					620	550	503	16-Ø37	32				
450	10					615	565	530	20-Ø28	25.5				
	16	432	330	650	926	640	585	548	20-Ø31	30	4	14	405	F10
	25					670	600		20-Ø37	34.5				
500	10					670	620	582	20-Ø28	26.5				
	16	457	350	700	985.5	715	650	609	20-Ø34	31.5	4	16	450	F14
	25					730	660		20-Ø37	36.5				
600	10					780	725	682	20-Ø31	30				
	16	508	390	800	1156	840	770	720	20-Ø37	36	5	16	540	F14
	25					845			20-Ø40	42				

G100 - DN700 to DN1200

Resilient Seated Gate Valve - Non-Rising Stem, brass nut type



Technical data

DN mm DN 700 - DN 1200

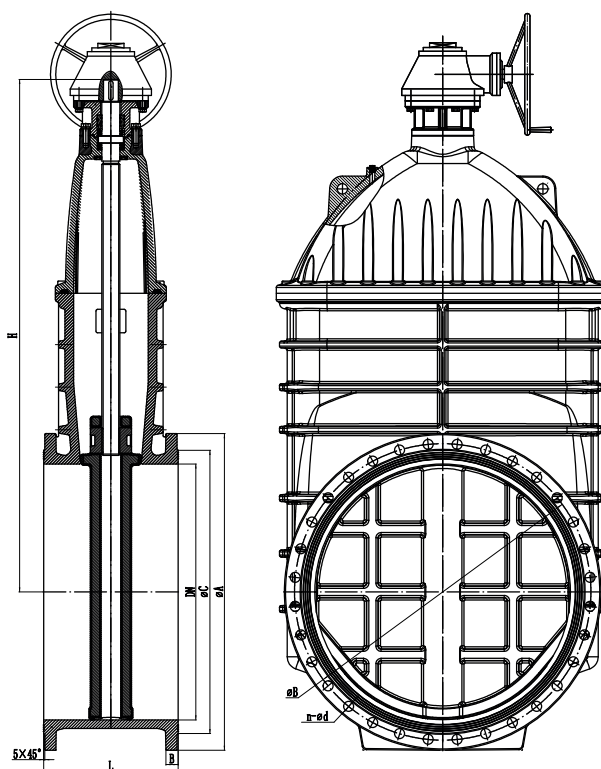
DN inch 28" - 48"

PN 10 - 16 - 25



Liner gear box suitable
for gate valve
DN350-DN1200

Output torque: 120 Nm

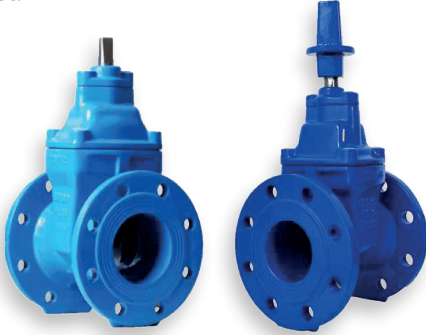


DN	PN	L			H	ØA	ØB	ØC	n-Ød	B	m	e	Toque (Nm)	ISO
		BS5163	F4	F5										
700	10	610	430	900	1403	895	840	794	24-Ø31	32.5	20	6	600	F25
	16					910			24-Ø37	39.5				
	25					960			24-Ø43	46.5				
800	10	660	470	1000	1810	1015	950	901	24-Ø34	35	20	6	850	F25
	16					1025			24-Ø40	43				
	25					1085			24-Ø49	51				
900	10	711	510	1100	1928	1115	1050	1001	28-Ø34	37.5	20	8	1000	F25
	16					1125			28-Ø40	46.5				
	25					1185			28-Ø49	55.5				
1000	10	811	550	1200	2075	1230	1160	1112	28-Ø37	40	20	8	1350	F25
	16					1255			28-Ø43	50				
	25					1320			28-Ø56	60				
1200	10	1015	630		2403	1455	1380	1328	32-Ø40	45	24	8	1600	F25
	16					1485			32-Ø49	57				
	25					1530			32-Ø56	69				

Our range

G200 - Resilient Seated Gate Valve Non-Rising Stem, brass nut type, with Gland

Clockwise closing (CWC) as standard, anticlockwise closing upon request.



Technical data

DN mm	DN 40 - DN 400
DN inch	1"½" - 16"
PN	10 - 16 - 25
Face to face	DIN-F4
	DIN-F5
	BS5163

G300 - Resilient Seated Gate Valve Rising Stem OS&Y

Gearbox operation upon request



Technical data

DN mm	DN 40 - DN 500
DN inch	1"½" - 20"
PN	10 - 16 - 25
Face to face	DIN-F4
	DIN-F5
	BS5163

G400 - Metal Seated Gate Valve, Non-rising Stem

Zero leakage- high performance.



Technical data

DN mm	DN 40 - DN 800
DN inch	1"½" - 32"
PN	10 - 16 - 25
Face to face	DIN-F4
	DIN-F5
	BS5163

Option



Motorised gate valve

On-off, modulating
Aluminum alloy housing
Speed:18~144rpm
High cost performance
Intelligent: LCD display
Non-intrusive setting
Standard IP67 protection

Pneumatic gate valve - On request

Our range

G500 - Resilient Seated Gate Valve Socket for uPVC pipes



Technical data

DN mm	DN 50 - DN 300
DN inch	2" - 12"
PN	10 - 16 - 25
Face to face	DIN-F4 DIN-F5 BS5163

G600 - Resilient Seated Gate Valve - Non-rising Stem, Smooth end



Technical data

DN mm	DN 50 - DN 300
DN inch	2" - 12"
PN	10 - 16 - 25
Face to face	DIN-F4 DIN-F5 BS5163

Options

Extension Spindle



Extension Spindle

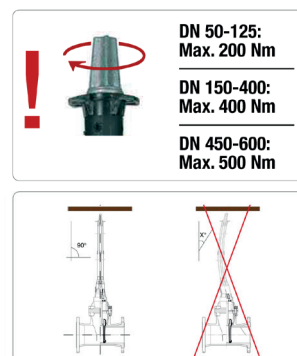


Extension Spindle
with protection tube



Operating T-Key

Mounting instruction - Telescopic extension spindle



	valve size	Ø C	A	□ B	H
	DN40-50	180	40	14	22
	DN65-80	200	48	17	22
	DN100	220	50	19	31
	DN125	254	55	19	31
	DN150	280	55	19	31
	DN200	315	65	24	31
	DN250-300	406	72	27	36

DN	Ø	L1	L2	□	M
DN40-50	6	12.5	32	14	M8
DN65	6	12.5	35	17	M8
DN80	6	12.5	35	17	M8
DN100	6	12.5	40	19	M8
DN125	6	12.5	40	19	M8
DN150	6	12.5	40	19	M8
DN200	6	12.5	45	24	M8
DN250	6	12.5	45	27	M10
DN300	6	12.5	45	27	M10
DN350	6	12.5	45	27	M10
DN400	6	12.5	45	27	M10
DN450	6	17.5	70	32	M10
DN500	6	17.5	70	32	M10
DN600	6	30	70	32	M10

The technical drawing shows a cross-section of a valve assembly. Key dimensions include:

- $\varnothing 28.5$: Outer diameter of the top flange.
- $\varnothing 20$: Inner diameter of the top flange.
- $\varnothing C$: Diameter of the central opening.
- 34.5: Total height of the assembly.
- 20: Height of the top flange.
- 12: Height of the central opening.
- K: Height of the main body.
- E: Height of the bottom flange.
- F: Height of the main body from the bottom flange.
- A: Width of the bottom flange.
- J: Width of the main body.
- B: Width of the base.

Valve size	A	B	C	E	F	J	K	bolt 8.8 inox
DN20-32	12	40	8	40	20	13	8	M6x25
DN40-50	14	40	10	40	22	16	6	M8x20
DN65-80	17	40	10	48	30	19.5	6	M8x20
DN100-150	19	40	10	50	30	21.5	8	M8x25
DN200	24	40	10	74	34	27	28	M8x45
DN250-400	27	52	12	80	38	30.5	30	M10x45
DN500-600	32	63.5	12	98	49	36.5	37	M10x55

[illegible]

Installation instruction and storage

Before installation, in addition to the information provided below, it is crucial to consult the manual.

Storage

Keep the rubber wedge slightly open: if it is fully closed, the rubber will undergo unnecessary compression.

Remove the flange cover just before installation.

Gate valves should preferably be stored under cover. Prolonged storage in extreme weather conditions can cause deterioration of the coating and seals.

Pipe Assembly

- The installation of the gate valve on the pipeline is independent of the water flow direction.
- Ensure the integrity of the coating; avoid impacts and friction, which can damage the coating and initiate corrosion.
- When installing the gate valve on the pipeline, avoid transferring the tube's stress into the body of the gate valve.
- In some cases, it is essential to provide supports to prevent harmful stresses that could lead to rapid deterioration of the gate valves.
- Tighten the screws gradually in a crisscross pattern. Screws and bolts should be lubricated with water-resistant, graphite-based grease such as Molycote or similar to prevent corrosion and facilitate potential disassembly.

Operation

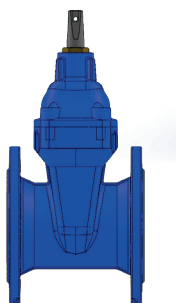
Each valve should be operated following the torque specifications provided in our manual, using a handwheel or a T-key (the use of a "ring key and bar" is strictly prohibited). Do not use the valves for flow regulation.

Do not use valves with EPDM rubber for gaseous fluids like propane, butane, natural gas, or for hydrocarbon fluids such as gasoline, diesel, etc.

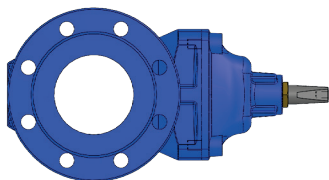
Recommended positions

DN 40 to DN 300

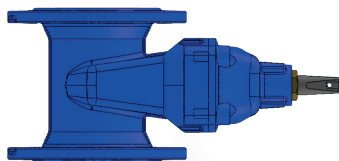
- 1 - Ideal position:
vertical stem, horizontal flow



- 2 - Horizontal stem, horizontal flow

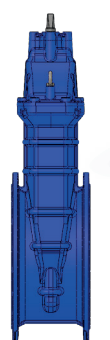


- 2 - Horizontal stem, vertical flow

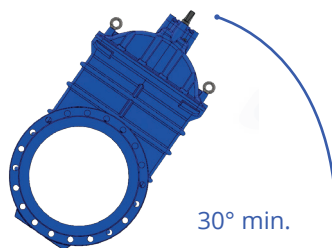


DN 350 to DN 1200

- 1 - Ideal position:
vertical stem, horizontal flow



- 2 - Oblique stem, horizontal flow



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