REF. 159

Ductile Iron Gate Valve PN16 with rising stem



PED 97/23/CE

Size : DN40 to DN 300
Ends : Flanges PN16 R.F.
Min Temperature : -10°C
Max Temperature : +180°C
Max Pressure : 16 Bars
Specifications : Rising stem
Stainless steel stem
Stainless steel seat

Materials: Ductile iron body

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SPECIFICATIONS :

- Single wedgedisc
- Graphite packing
- Rising stem
- Stainless steelstem
- Stainless steelseat
- Flanges R.F.PN16
- Painting RAL7011 grey color, 90 µm thickness for body
- Painting RAL6032 green color for handwheel

USE :

- For common fluids
- Min and max Temperature Ts : - 10°C to + 180°C
- Max Pressure Ps : 16 bars

RANGE :

Ductile iron body flanged R.F. PN16 **Ref. 159 from** DN 40 to DN 300

TORQUE VALUES (Nm without safety coefficient) :

DN	40	50	65	80	100	125	150	200	250	300
Torque (Nm)	55	55	55	60	85	115	125	135	192	192

LEAKAGE RATE (WITH WATER AT 20°C) :

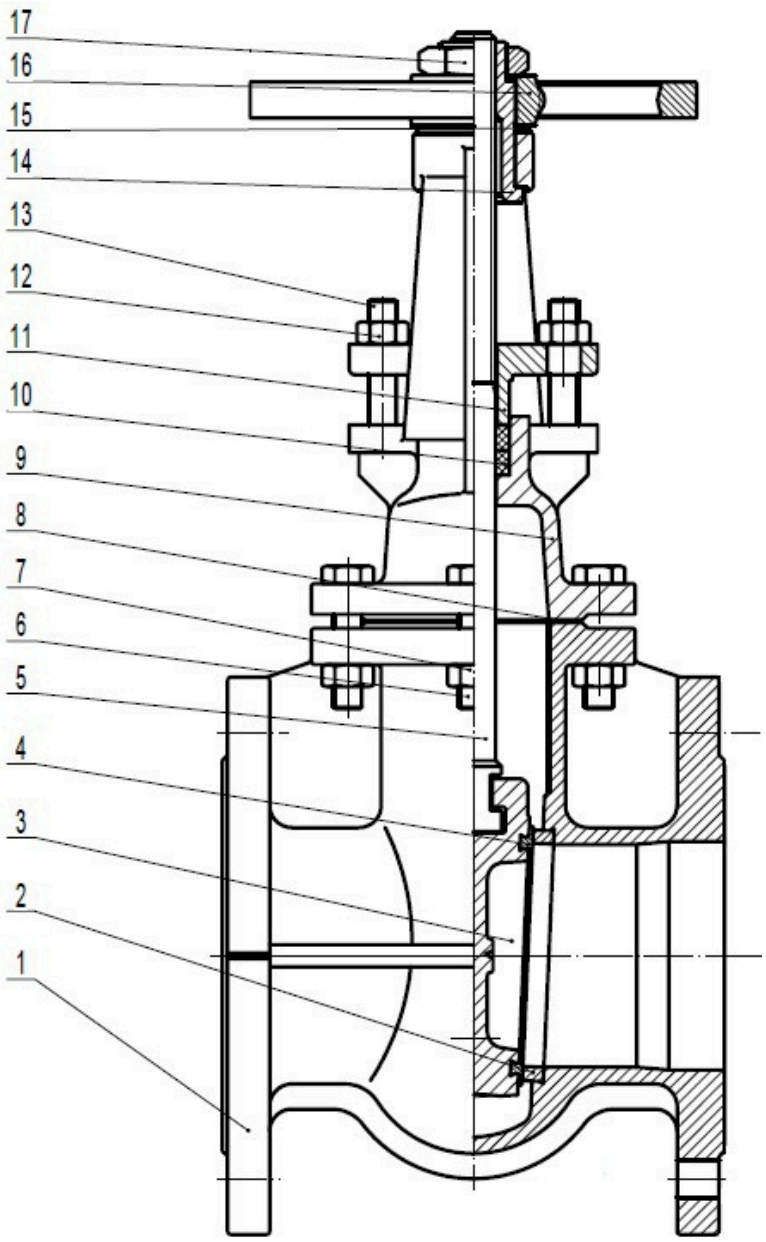
DN	Leakage rate (ml/s)
40	0.024
50	0.03
65	0.039
80	0.048
100	0.06
125	0.075
150	0.09
200	0.12
250	0.15
300	0.18

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MATERIALS:



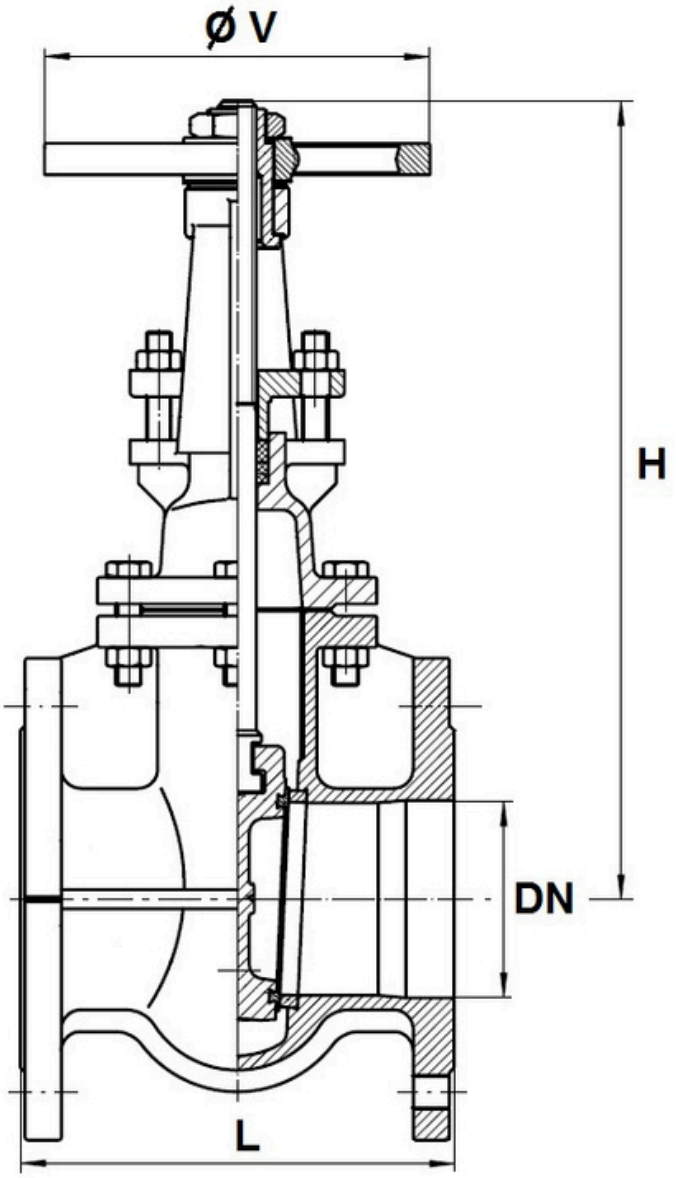
Item	Designation	Materials
1	Body	Ductile iron EN-GJS-500-7
2	Body seat	AISI 304
3	Wedge	Ductile iron EN-GJS-500-7
4	Wedge seat	AISI 304
5	Stem	AISI 420
6	Screw	Steel RSt37-2 (1.0038)
7	Nut	Steel RSt37-2 (1.0038)
8	Bonnet gasket	Graphite
9	Bonnet	Ductile iron EN-GJS-500-7
10	Packing	Graphite
11	Packing gland	Ductile iron EN-GJS-500-7
12	Nut	Steel RSt37-2 (1.0038)
13	Screw	Steel RSt37-2 (1.0038)
14	Stem nut	Brass
15	Washer	Brass
16	Handwheel	Cast iron EN GJL-250
17	Handwheel nut	Ductile iron EN GJS-500-7

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SIZE (in mm) :

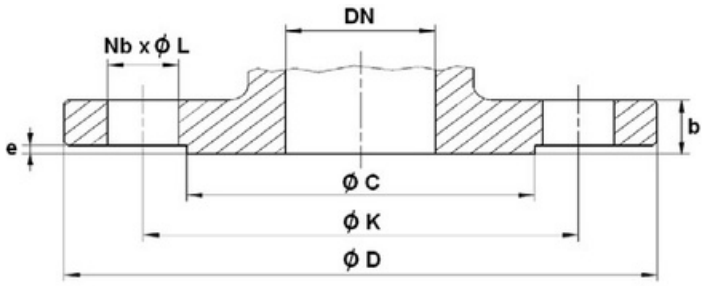


Ref.	DN	40	50	65	80	100	125	150	200	250	300
159	L	140	150	170	180	190	200	210	230	250	270
	H (closed)	244	254	294	331	385	457	545	683	823	952
	H (opened)	295	315	371	424	500	598	711	901	1093	1273
	Ø V	160	160	160	160	200	200	250	250	320	320
	Weight (Kg)	9.8	11.9	13.3	17.2	23.2	34.2	44.4	67.5	110	155

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FLANGESSIZE (in mm) :



Ref.	DN	40	50	65	80	100	125	150	200	250	300
159	Ø C	80	102	124	140	158	188	212	268	320	378
	Ø D	150	165	185	200	220	250	285	340	405	460
	Ø K	110	125	145	160	180	210	240	295	355	410
	Nb x Ø L	4 x 19	4 x 19	4 x 19	8 x 19	8 x 19	8 x 19	8 x 23	12 x 23	12 x 28	12 x 28
	b	16	16	16	17	17	18	20	21	23	24
	e	2	2	2	2	2	3	3	3	3	4

STANDARDS :

- Fabrication according to ISO 9001 : 2008
- DIRECTIVE 97/23/CE : CE N° 0038
  Risk Category III module H
- Pressure tests according to EN 12266-1, range B
- Length according to EN 558 series 14 (DIN 3202 F4)
- Flanged R.F. according to EN 1092-2 PN16
- Design according to DIN 3352

ADVICE : Our opinion and our advice are not guaranteed and UNISHORE shall not be liable for the consequences of damages.
The customer must check the right choice of the products with the real service conditions.

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INSTALLATION INSTRUCTIONS

GENERAL GUIDELINES :

- Ensure that the valves to be used are appropriate for the conditions of the installation (type of fluid,pressure and temperature).
- Be sure to have enough valves to be able to isolate the sections of piping as well as the appropriate
- equipment for maintenance and repair.
- Ensure that the valves to be installed are of correct strenght to be able to support the capacity of their usage.
- **Installation of all circuits should ensure that their function can be automatically tested on a regular basis (at least two times a year).**

INSTALLATION INSTRUCTIONS :

- **Before installing the valves,clean and remove any objects from the pipes** (in particular bits of sealing and metal) which could obstruct and block the valves.
- **Ensure that both connecting pipes either side of the valve (upstream and downstream) are aligned (if they're not,the valves may not work correctly).**
- **Make sure that the two sections of the pipe (upstream and downstream) match,the valve unit will not absorb any gaps.Any distortions in the pipes may affect the thightness of the connection,the working of the valve and can even cause a rupture.** To be sure,place the kit in position to ensure the assembling will work.
- **If sections of piping do not have their final support in place,they should be temporarily fixed. This is to avoid unnecessary strain on the valve.**
- Tighten the bolts in cross.
- It's recommended to operate the valve (open and close) 1 to 2 times per year.

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