

## Ductile Iron Gate Valve Flanged PN16

DIN3202-1 F4 Brass seat with rising stem

Ductile iron gate valve with brass seat flanged PN10/16 full bore for opening/closing networks of water, water treatment and heating.

Outside screw stem, rising stem and non rising handwheel.

Graphite packing and bonnet gasket.

Certificate

3.1



**Size :** DN40 to DN300  
**Connection :** Flanges RF PN10/16  
**Min Temperature :** -10°C  
**Max Temperature:** +120°C  
**Max Pressure:** 16 Bars  
**Specifications:** Rising stem and non rising handwheel  
Stainless steel stem and brass seat  
Outside screw stem  
Full bore

**Materials :** Ductile iron body EN GJS-500-7

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### SPECIFICATIONS :

- Single solid wedge
- Oblique seat
- Graphite packing
- Full bore
- Rising stem and non rising handwheel
- Stainless steel stem
- Brass seat
- Flanges R.F. PN16
- Painting Alkyde RAL 7011 grey color, 90 µm thickness

### USE :

- For water, water treatment, heating
- For common liquids of 2nd group
- Min and max Temperature Ts : - 10°C to + 120°C
- Max Pressure Ps : 16 bars

### RANGE :

- Ductile iron body flanged R.F. PN16 **Ref. 156 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 ) :

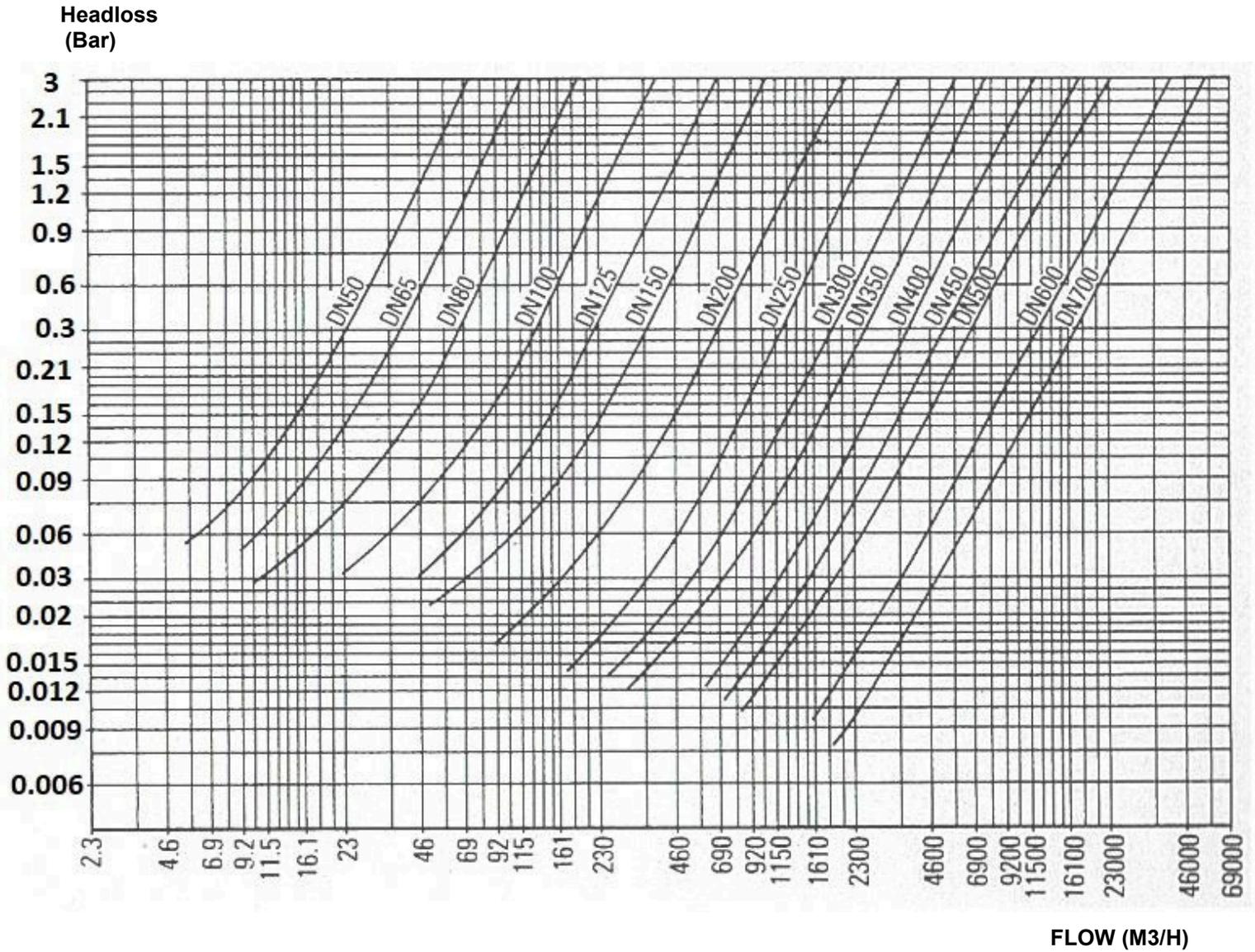
DN	Leakage rate (mm <sup>3</sup> /s)
40	0.4
50	0.5
65	0.65
80	0.80
100	1.00
125	1.25
150	1.50
200	2.00
250	2.50
300	3.00

### NUMBER OF CYCLES TO CLOSE OR OPEN THE VALVE :

DN	40	50	65	80	100	125	150	200	250	300
Number of cycles	13	15.5	19.3	23.5	29	35.3	33.3	43.6	53.6	65

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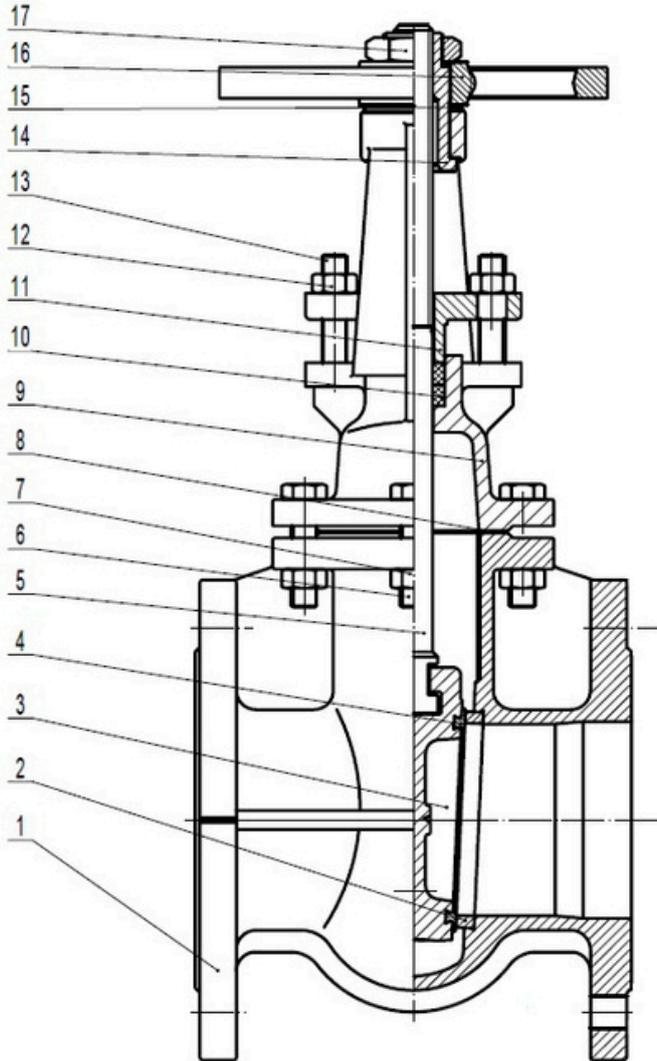
HEADLOSS GRAPH :



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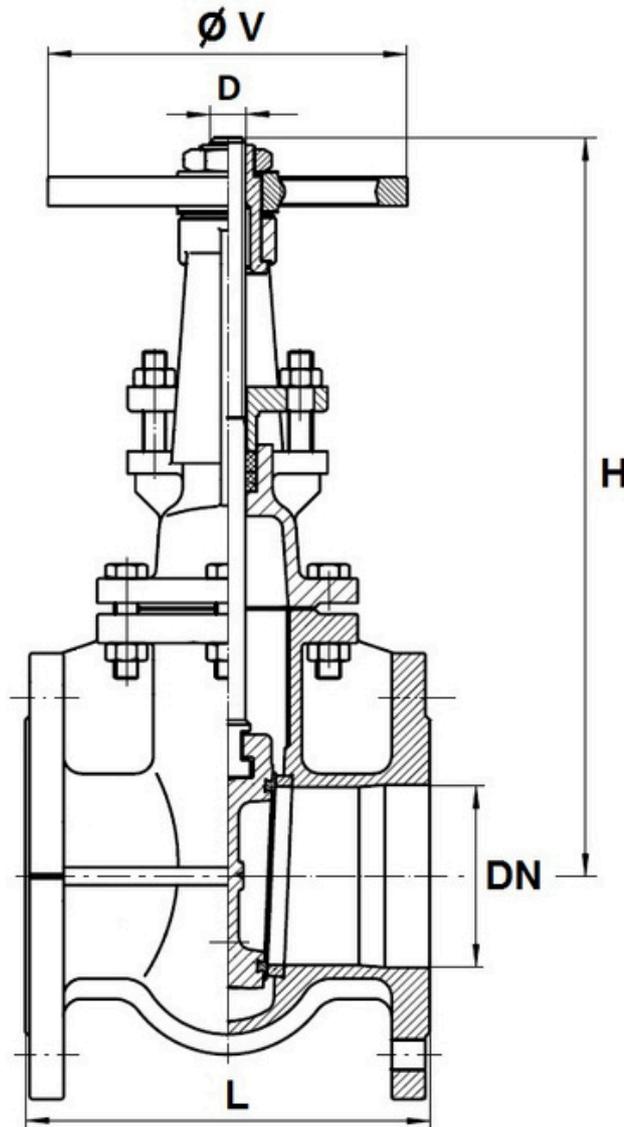
### MATERIALS :



Item	Designation	Materials
1	Body	Ductile iron EN-GJS-500-7
2	Body seat	Brass
3	Wedge	Ductile iron EN-GJS-500-7
4	Wedge seat	Brass
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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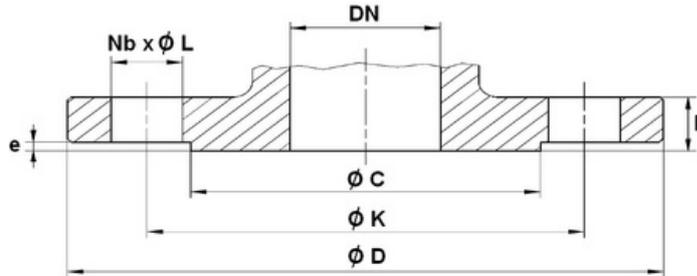
**SIZE (in mm) :**

DN	40	50	65	80	100	125	150	200	250	300
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
D (stem threading)	Tr 16x4 LH				Tr 20x4 LH		Tr 22x5 LH		Tr 26x5 LH	Tr 28x5 LH
Weight (Kg)	9.8	11.9	13.3	17.2	23.2	34.2	44.4	67.5	110	155
Ref.	156040	156050	156065	156080	156100	156125	156150	156200	156250	156300

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### FLANGES SIZE ( in mm ):



PN	PN10/16				100	125	150	200	250	300
DN	40	50	65	80	158	188	212	268	320	378
Ø C	80	102	124	140	220	250	285	340	405	460
Ø D	150	165	185	200	180	210	240	295	355	410
Ø K	110	125	145	160	8 x 19	8 x 19	8 x 23	12 x 23	12 x 28	12 x 28
Nb x Ø L	4 x 19	4 x 19	4 x 19	8 x 19	17	18	20	21	23	24
b	16	16	16	17	2	3	3	3	3	4
e	2	2	2	2						

### STANDARDS :

- Manufacturer certified ISO 9001 : 2015
- DIRECTIVE 2014/68/EU : Products excluded from directive (article 4, § 3)
- Certificate 3.1 on request
- Pressure tests according to EN 12266-1, leakage rate B
- Length according to EN 558 series 14 ( DIN 3202-1 F4 )
- Flanged R.F. according to EN 1092-2 PN16
- Design according to EN 1171

**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.