Resilient Seated Gate Valve

which is designed and manufactured for use in water, waste water, and sewage.
Main usage is for isolation purposes.
Full bore design makes it possible to be used bi-directionally and the fluid could clean the sealing surface area every time the, valve is opened.

MAIN FEATURES

- ✓ Huge convenience in daily water-using and repairing if sealing parts in the bonnet are broken, we could replace the sealing parts with the valve completely open when the valve is still in the pipeline.
- ✓ Class A sealing (ZERO LEAKAGE).
- ✓ 100% testing before packing and delivery.
- ✓ Completely free and full bore self-cleaning & low-pressure loss.
- ✓ Clockwise closing (CWC) as standard, anticlockwise closing upon request.
- ✓ Operation: Manual handwheel, Square Cap, Extension Spindle.
- ✓ Bonnet bolts are in Galvanized Carbon Steel, and sealed with hot melt to prevent corrosion. Other materials upon request.
- ✓ O-ring bonnet gasket wraps each bolt to prevent corrosion.
- ✓ Linear sealing design provides better sealing & lower closing torque.
- ✓ Potable water approved epoxy coating, fusion bonded according DIN 3476-1, EN 14901.

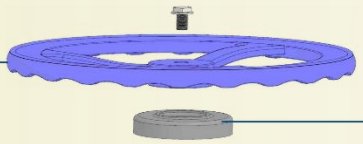
Standards

- ✓ Hydraulic tests according to EN-12266-1, Class A
- ✓ Designed to EN-1074
- ✓ Flanges to EN-1092-2, BS4504

Johntek valves

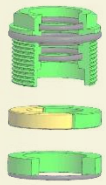
Resilient Seated Gate Valve

DESIGN FEATURES



Handwheel / Cap
Dudctile iron
EN-GJS-500-7

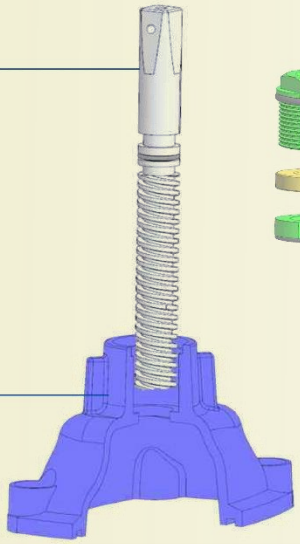
Dust Cover
NBR rubber



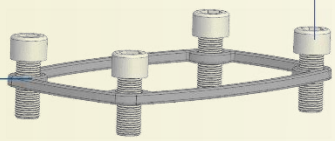
Stem
Stainless steel AISI 420
* SS304
* SS316 / SS316
* SS431
- smooth surface
- high torque resistance

Stem Nut
Locking Rings
Thrust Washer
BRASS CuZn39Pb1
* Aliminimum Bronze
* Dezincfication Brass CZ132

- total 6 O-Rings in bonnet
- upper 3 O-Rings replaceable under pressure

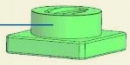


Bonnet
Dudctile iron
EN-GJS-500-7
with gasket groove

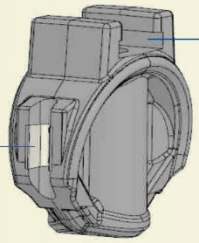


Bolts
Carbon steel Galvanized 8.8 grade
* SS304
* SS316 / SS316L
- sealed with hot melt to prevent corrosion

Bonnet Gasket
EPDM / NBR rubber
- cambered surface
- bolts wraped separately make sure good sealing

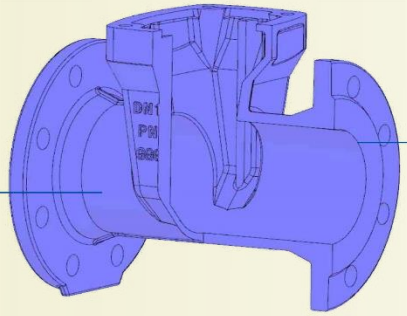


Wedge Nut
BRASS CuZn39Pb1
* Aliminimum Bronze
* Dezincfication Brass CZ132
Free wedge nut design
- reduces stem bending forces
- can be easily replaced



Rubber Wedge
Dudctile iron EN-GJS500-7
+ EPDM / NBR rubber
- Wedge fully encapsulated in EPDM for a better resistance to corrosion.
- Linear sealing design provides better sealing & lower closing torque.

Wedge Guide Shoe
- get lower operating torque and longer service life



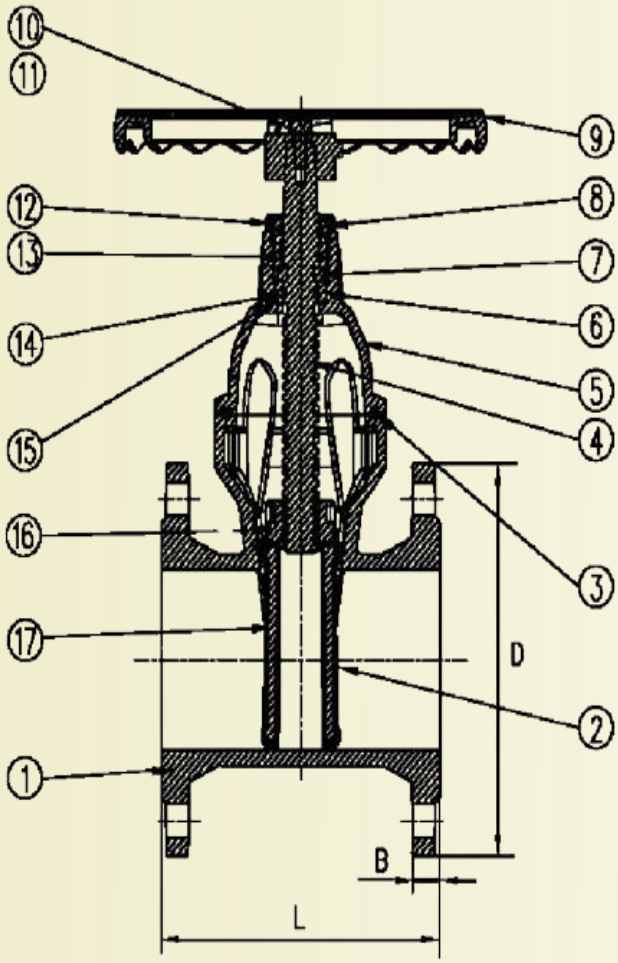
Body
Dudctile iron EN-GJS500-7
Completely free and full bore self-cleaning & low-pressure loss.

Surface Protection
Fusion bonded epoxy coating internally & externally
average thickness 300 micron
- WRAS approved epoxy powder

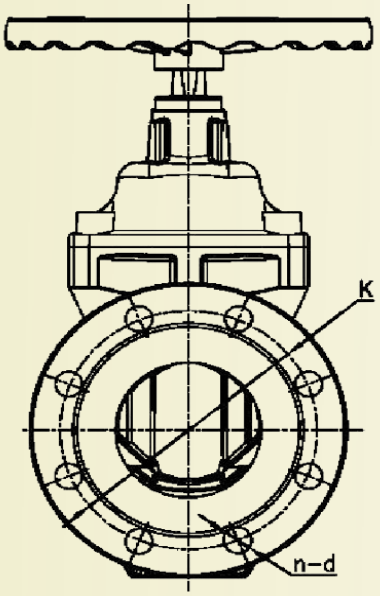
100% tested acc. to EN 12166-1 standard.

Resilient Seated Gate Valve

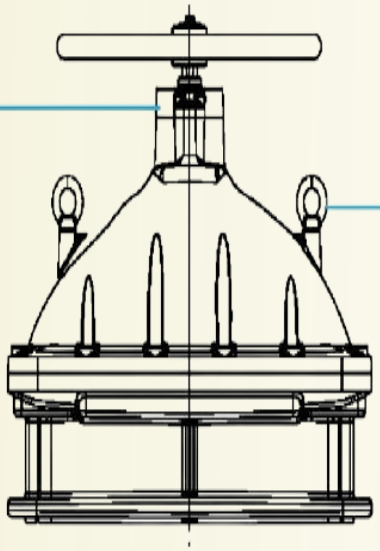
MATERIAL LIST



No.	Component	Standard Material
17	Core	DUCTILE IRON
16	Stem Nut	CuZn39Pb1 Brass
15	0 Ring	NBR
14	O Ring	NBR
13	O Ring	NBR
12	Dustcover	NBR
11	Flat washer	AISI304 STAINLESS STEEL
10	Bolt	AISI304 STAINLESS STEEL
9	Handwheel/Cap	DUCTILE IRON GJS 500-7
8	Thrust Nut	CuZn39Pb1 Brass
7	Holding Ring	CuZn39Pb1 Brass
6	Thrust Washer	CuZn39Pb1 Brass
5	Bonnet	DUCTILE IRON GJS 500-7
4	Stem	AISI 304/316/420 STAINLESS STEEL
3	Bonnet Gasket	NBR
2	Disc	EPDM+DUCTILE IRON GJS 500-7
1	Body	DUCTILE IRON GJS 500-7



* size above DN300
with gland on bonnet



* lifting ring
from size DN200

DIMENSIONS

Nominal Diameter	Outline (mm) L (face to face)		PN 10			
DN	DIN-F4	DIN-F5	D	K	n*d	B
DN40	140	240	150	110	4*19	19
DN50	150	250	165	125	4*19	19
DN65	170	270	185	145	4*19	19
DN80	180	280	200	160	8*19	19
DN100	190	300	220	180	8*19	19
DN125	200	325	250	210	8*19	19
DN150	210	350	285	240	8*23	19
DN200	230	400	340	295	8*23	20
DN250	250	450	405	350	12*23	22
DN300	270	500	460	400	12*23	24.5
DN350	290	550	520	460	16*23	26.5
DN400	310	600	580	515	16*28	28
DN450	330	650	640/640	565 / 585	20*28 / 20*31	30/30
DN500	350	700	670/715	620/650	20*28 / 20*434	26.5/31.5
DN600	390	800	780/840	725/770	20*431 / 20*37	30/36
DN700	430	900	895/910	840/840	24*431 / 24*37	32.5/39.5
DN800	470	1000	1015/1025	950/950	24*934 / 24*441	35/43
DN900	510	1100	1125/1125	1050/1050	28*934 / 28*40	46.5/46.5
DN1000	550	1200	1255/1255	1160/1 1170	28*437 / 28*443	50/50
DN1200	630	1400	1485/1485	1380/1390	32*40 / 32*49	57/57

Nominal Diameter	Outline (mm) L (face to face)		PN 16			
DN	DIN-F4	DIN-F5	D	K	n*d	B
DN40	140	240	150	110	4*19	19
DN50	150	250	165	125	4*19	19
DN65	170	270	185	145	4*19	19
DN80	180	280	200	160	8*19	19
DN100	190	300	220	180	8*19	19
DN125	200	325	250	210	8*19	19
DN150	210	350	285	240	8*23	19
DN200	230	400	340	295	12*23	20
DN250	250	450	405	355	12*28	22
DN300	270	500	460	410	12*28	24.5
DN350	290	550	520	470	16*28	26.5
DN400	310	600	580	525	16*31	28
DN450	330	650	640/640	565 / 585	20*28 / 20*31	30/30
DN500	350	700	670/715	620/650	20*28 / 20*434	26.5/31.5
DN600	390	800	780/840	725/770	20*431 / 20*37	30/36
DN700	430	900	895/910	840/840	24*431 / 24*37	32.5/39.5
DN800	470	1000	1015/1025	950/950	24*934 / 24*441	35/43
DN900	510	1100	1125/1125	1050/1050	28*934 / 28*40	46.5/46.5
DN1000	550	1200	1255/1255	1160/1 1170	28*437 / 28*443	50/50
DN1200	630	1400	1485/1485	1380/1390	32*40 / 32*49	57/57

Nominal Diameter	Outline (mm) L (face to face)		PN 25			
DN	DIN-F4	DIN-F5	D	K	n*d	B
DN40	140	240	150	110	4*19	19
DN50	150	250	165	125	4*19	19
DN65	170	270	185	145	8*19	19
DN80	180	280	200	160	8*19	19
DN100	190	300	235	190	8*23	19
DN125	200	325	270	220	8*28	19
DN150	210	350	300	250	8*28	20
DN200	230	400	360	310	12*28	22
DN250	250	450	425	370	12*31	24.5
DN300	270	500	485	430	16*31	27.5
DN350	290	550	555	490	16*34	32
DN400	310	600	620	550	16*37	32
DN450	330	650	640/640	565 / 585	20*28 / 20*31	30/30
DN500	350	700	670/715	620/650	20*28 / 20*434	26.5/31.5
DN600	390	800	780/840	725/770	20*431 / 20*37	30/36
DN700	430	900	895/910	840/840	24*431 / 24*37	32.5/39.5
DN800	470	1000	1015/1025	950/950	24*934 / 24*441	35/43
DN900	510	1100	1125/1125	1050/1050	28*934 / 28*40	46.5/46.5
DN1000	550	1200	1255/1255	1160/1 1170	28*437 / 28*443	50/50
DN1200	630	1400	1485/1485	1380/1390	32*40 / 32*49	57/57