

GVP[®] VALVE

Resilient Soft Seated Gate Valve Series

[Http://www.fxgvp.com](http://www.fxgvp.com)



- NRS Resilient Soft Seated Flange Gate Valve
- RS Resilient Soft Seated Flange Gate Valves
- NRS Resilient Soft Seated (PVC/PE/PIPE) Socket Gate Valves
- ANTI-THEFT NRS Resilient Soft Seated Gate Valves
- Electric Actuated NRS Resilient Soft Seated Gate Valves



安徽方兴实业股份有限公司
ANHUI FANGXING INDUSTRIAL CO., LTD.

BRIEF INTRODUCTION

Anhui Fangxing Industrial Co., Ltd, with over 20 years of valve manufacturing history since 1994, is a professional enterprise specialized in R&D, manufacturing and sales of valves and pipe-fittings, covering an area of more than 100,000 square meters with 88 million yuan of registered capital. Under the company are five subsidiaries including Fangxing International Trade Co., Fangxing Casting Co., Yongxing Casting Co., Zhenqing Logistics Co. etc., and it possesses two self-owned brands named "GVP" and "Fangxing", with more than 200 employees. In addition, our company has set up the provincial technology R&D center and equipped with precise production, machining and testing equipments, with annual output of 200,000 valves and 10,000 tons of castings, which ensures Fangxing as the leading manufacturing enterprise of water supply valves in China, as well as Anhui key production and export enterprise of mechanical and electrical products.

Fangxing owns the manufacturing license qualification of pressure pipeline equipment, and is the licensed enterprise to manufacture national water-saving and water sanitation security products. We strictly execute the international 6S on-site management system and quality control system, and participated to formulate Chinese national standard "resilient seated gate valve for water supply system", successively passed ISO9001 quality management system certification, ISO14001 Environment Management System Certification, OHSAS18001 Occupational Health Management System Certification, and our main products passed CE European Conformity Certification, Britain WRAS Water Regulations Advisory Scheme, French ACS Sanitation Conformity Certification, Russian GOST National Quality System Certification as well as EN1074 Type Approval Certification.

We provide high quality valves and pipe fittings to the water industrial systems of the world based on the international standard and first-class quality.



PRODUCTION AND EQUIPMENT

Quality is the life of the enterprise, the company carries forward the enterprise culture and implements quality guarantee system internally, and transmits enterprise spirit and establishes brand conception externally, to ensure product quality, our company has been equipped with first class production and inspection equipment.



COMPANY QUALIFICATION

Honor originates from devotion , every recognized certificate concentrates struggling efforts of FANGXING personnel , and every honor is our golden card and passport ,they are our road signs and our experiences..

WE ARE

- Member of China Valves Association
- Anhui Famous Brand
- "Class AA company" of Chinese Customs
- High-tech Enterprise
- Accredited Technical Center

WE ARE APPROVED BY

- ISO9001
- ISO14001
- OHSAS 18001
- CE
- EN1074
- WRAS
- ACS
- GOST



WRAS **CE**



TEST & INSPECTION FACILITIES



01



02



03



04



05



06



07



08



09



10



SAFETY

BODY

The body is made of ductile iron by precision casting molding. It was designed by 3D software, with finite element analysis for the structure. The safety coefficient is over 2.5. The bottom of the channel is without groove, no accumulation of rubbish, and with small flow resistance.



STEM

The stem is made of stainless steel by rolling. Integral type, avoiding the use of the brass half rings to reduce stem diameter. the smooth modified ladder type screw is extruded. Global mirror polish, it fits the O rings well, to ensure that the rotation is flexible and labor-saving.



WEDGE

The frame of the wedge is made of ductile iron by the percoated sand molding, the wedge is covered by EPDM totally. Double seal design, each seal line can work independently.



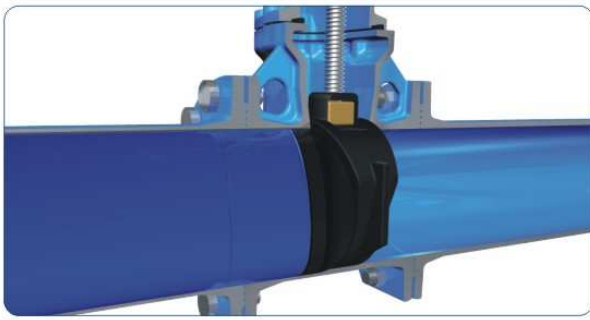
BONNET

The grade 8.8 bolts connect the bonnet and the body, the bolts were covered by hot-melt glue which protect the bolts for anti-corrosion. The gasket between the bonnet and body is made of EPDM. The valve cover is with a retaining groove, make sure that the rubber gasket won't be extruded out under high water pressure.



ENVIRONMENTAL-FRIENDLY

The inside and outside surface of the valve is coated with sanitary epoxy powder by static electricity, the average thickness is above 250um. The adhesion of the coating is strong; it won't be destroyed under the impact force test of 3J. Internal parts can meet with the environmental protection demand, and can be used for the potable water, food and pharmaceutical area directly. The electrostatic powder coating process can promise high adhesion force and strong corrosion resistance.



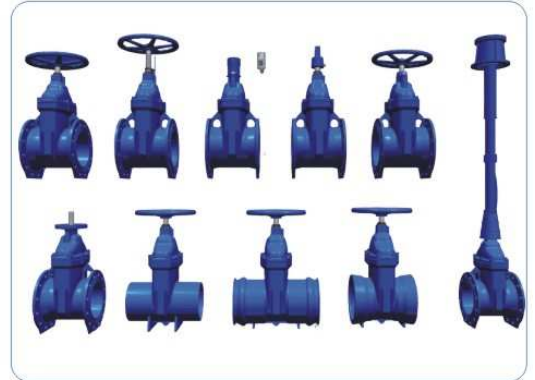
The rubber parts are made of high quality EPDM or NBR, which is in accordance with the drinking water requirements, avoiding the problem of the common rubber which is easy to breed microorganism. The products is not only approved by the national quality standards for drinking water related products, but also reached the UK WRAS standards. The stem nut is forged and rolled from the national standard brass rod (low lead) , and no pollution to water.



CONVENIENT

CONVENIENT INSTALLATION AND OPERATION

We offer various kinds of interface such as flange connection, PVC pipe socket, Ductile iron pipe socket, reducing etc.). The special connection design can be developed as the requests of the customers. The gate valves can be operated by electric actuator, handwheels, square nuts or special key. It's convenient to install the valves in different positions of the pipe lines. Except for the vertical installation, the valves also can be horizontal installation. In some narrow spaces, you can choose the installation way which is convenient for the operation of the valves.



The actual operating torque is only 80% of diameter



The products passed the switch life test of 5000 times



The gate valves can bear the MST of 3*DN N.M



The valve can be completely closed and reach at 0 leakage with small torque. The actual operating torque is only 80% of diameter, and the gate valves can bear the MST of 3*DN N.M. The products passed the switch life test of 5000 times. For the valves of bigger diameter, we can offer the labour saving devices, to ensure that all the valves can be opened and closed by one person. The handwheel is strong, with accurate dimensions, it fits well with the valve stem, the shape is in accordance with human mechanics, to ensure easy operation.

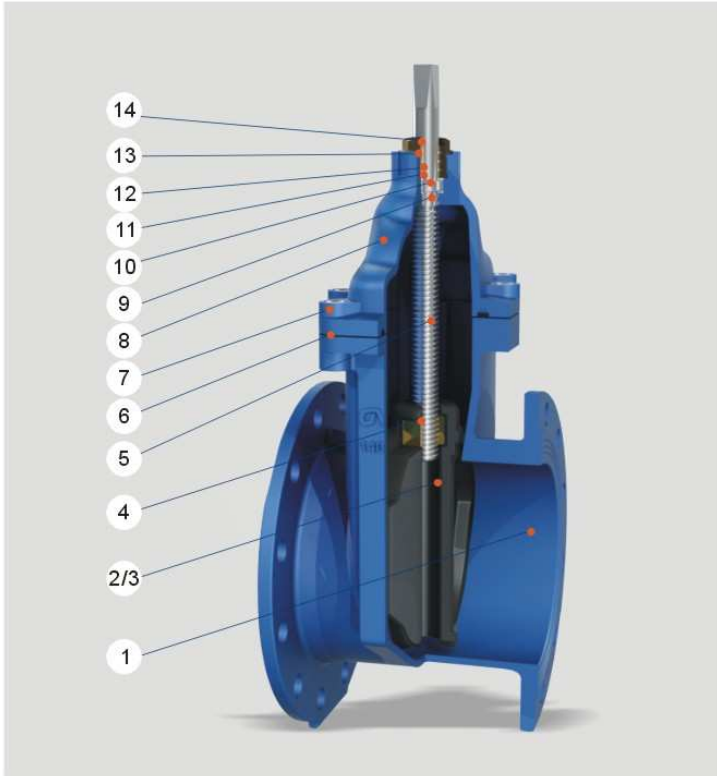
CONVENIENT MAINTENANCE

The seal ring can be replaced without cutting off the water, it's easier for the maintenance and reduce the maintenance time as much as possible. The friction between the brass bushing and the "O" type seal ring is small, and the seal can work for long time. The Max. Operate Torque is under the control.



NRS RESILIENT SOFT SEATED FLANGE GATE VALVES

DN40-DN1000 (DIN/BS), 2"-12" (ANSI)



APPLICATION STANDARDS

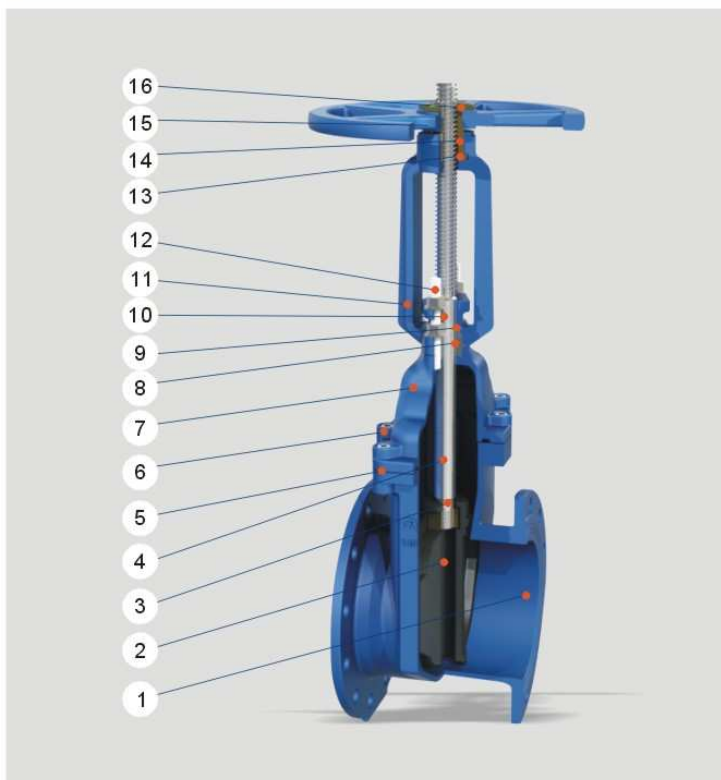
Design standard	EN1171:2002
Face to face	According to EN558-1 series 14 (DIN F4), series 15 (DIN F5), series 3 (BS5163) and ASME B16.10.
Flange drilling	According to EN1092 PN10-16, ASME B 16.1-16.5
Size scope	DN40-DN1000 (DIN/BS), 2"-12" (ANSI)
Working temperature	NBR 0-70℃, EPDM 0-80℃
Working pressure	PN10-16, Class 125-150
Suitable medium	Water
Coating	Epoxy coating with thickness $\geq 250\mu\text{m}$

PARTS LIST

No.	Part name	Material
1	Body	Ductile Iron
2	Wedge	Ductile Iron with EPDM/NBR
3	Guide collar	Nylon
4	Wedge nut	Brass
5	Stem	2Cr13
6	Gasket	NBR/EPDM
7	Bonnet bolt	Galvanized Carbon steel/SS304
8	Bonnet	Ductile Iron
9	"O" ring	NBR
10	Locating washer	Nylon
11	Bushing	Brass
12	"O" ring	NBR
13	"O" ring	NBR
14	Dust ring	NBR/EPDM

RS RESILIENT SOFT SEATED FLANGE GATE VALVES

DN50-DN300 (DIN/BS), 2"-12" (ANSI)



APPLICATION STANDARDS

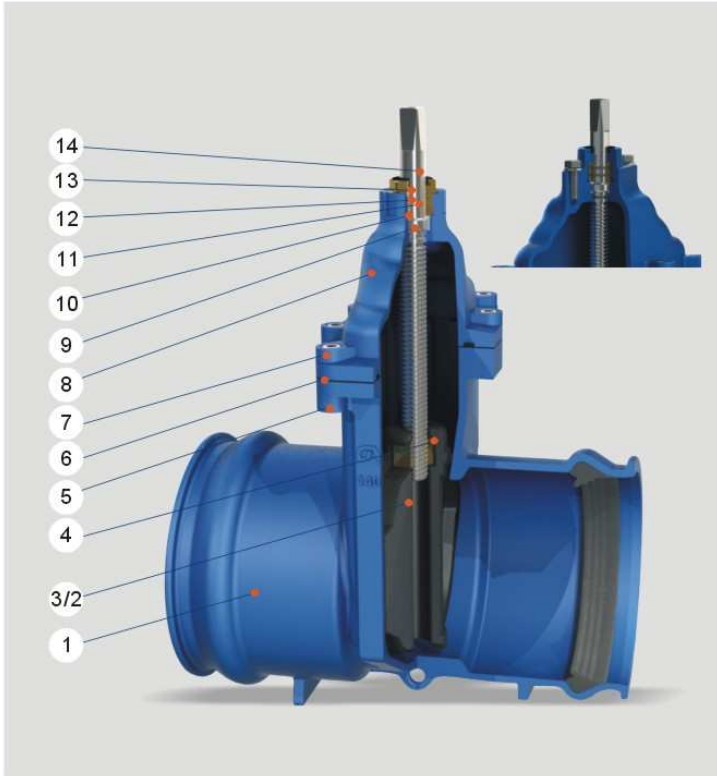
Design standard	EN1171:2002
Face to face	According to EN558-1 series 14 (DIN F4), series 3 (BS5163) and ASME B16.10.
Flange drilling	According to EN1092 PN10-16, ASME B 16.1-16.5
Size scope	DN50-DN300 (DIN/BS), 2"-12" (ANSI)
Working temperature	NBR 0-70℃, EPDM 0-80℃
Working pressure	PN10-16, Class 125-150
Suitable medium	Water
Coating	Epoxy coating with thickness $\geq 250\mu\text{m}$

PARTS LIST

No.	Part Name	Material
1	Body	Ductile Iron
2	Disc	Ductile Iron with NBR/EPDM
3	Disc nut	Brass
4	Stem	2Cr13
5	Gasket	NBR/EPDM
6	Bonnet bolt	Galvanized Carbon steel/SS304
7	Bonnet	Ductile Iron
8	Filler	Graphit
9	"O"ring	NBR
10	Gland	Ductile Iron
11	Yoke	Ductile Iron
12	Blot	2Cr13
13	Nut	Brass
14	Nut	Ductile Iron
15	Handwheel	Ductile Iron
16	Nut	Brass

NRS RESILIENT SOFT SEATED (PVC/PE PIPE) SOCKET GATE VALVES

DN50-DN300



APPLICATION STANDARDS

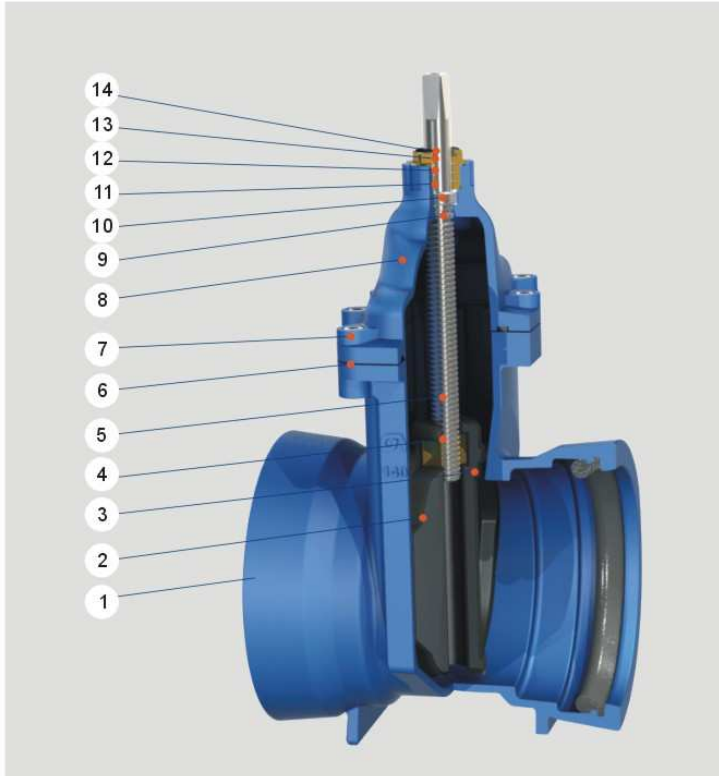
Design standard	EN1171:2002
Socket standard	ISO4427:1996 (GB/T13663-2000)
Size scope	DN50-DN300
Working temperature	NBR 0-70℃, EPDM 0-80℃
Working pressure	PN10-16
Suitable medium	Water
Coating	Epoxy coating with thickness $\geq 250\mu\text{m}$

PARTS LIST

No.	Part Name	Material
1	Body	Ductile Iron
2	Disc	Ductile Iron with NBR/EPDM
3	Guide collar	Nylon
4	Disc nut	Brass
5	Stem	2Cr13
6	Gasket	NBR/EPDM
7	Bonnet bolt	Galvanized Carbon steel/SS304
8	Bonnet	Ductile Iron
9	"O"ring	NBR
10	Locating washer	Nylon
11	Brass nut	Brass
12	"O"ring	NBR
13	"O"ring	NBR
14	Dust ring	EPDM

NRS RESILIENT SOFT SEATED (DI PIPE) SOCKET GATE VALVES

DN80-DN400



APPLICATION STANDARDS

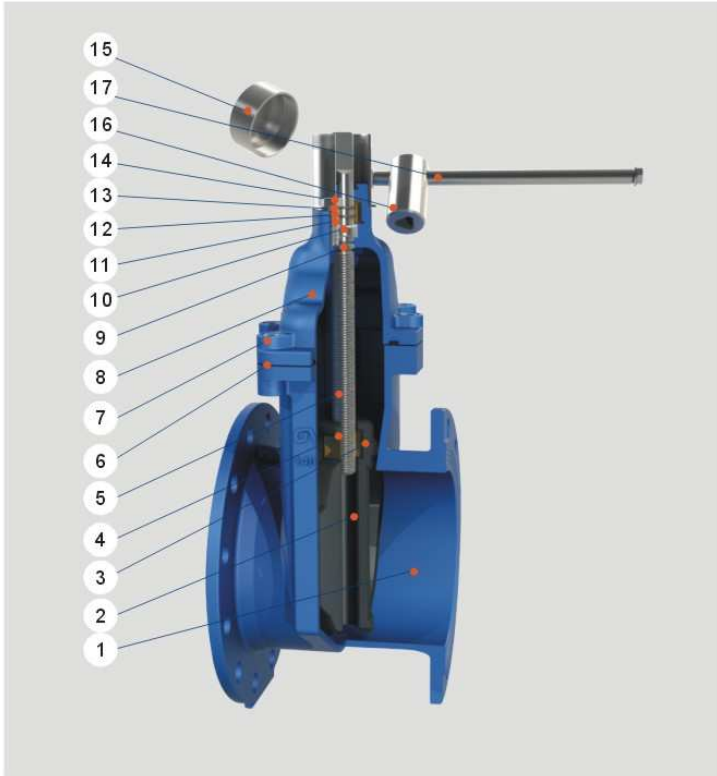
Design standard	EN1171:2002
Socket standard	ISO2531:1998 (GB/T13295-2008)
Size scope	DN80-DN400
Working temperature	NBR 0-70℃, EPDM 0-80℃
Working pressure	PN10-16
Suitable medium	Water
Coating	Epoxy coating with thickness $\geq 250\mu\text{m}$

PARTS LIST

No.	Part Name	Material
1	Body	Ductile Iron
2	Disc	Ductile Iron with NBR/EPDM
3	Guide collar	Nylon
4	Disc nut	Brass
5	Stem	2Cr13
6	Gasket	NBR/EPDM
7	Bonnet bolt	Galvanized Carbon steel/SS304
8	Bonnet	Ductile Iron
9	"O"ring	NBR
10	Locating washer	Nylon
11	Brass nut	Brass
12	"O"ring	NBR
13	"O"ring	NBR
14	Dust ring	EPDM

ANTI-THEFT NRS RESILIENT SOFT SEATED GATE VALVES

DN80-DN400 (DIN/BS), 3"-12" (ANSI)



Magnetic anti-theft



APPLICATION STANDARDS

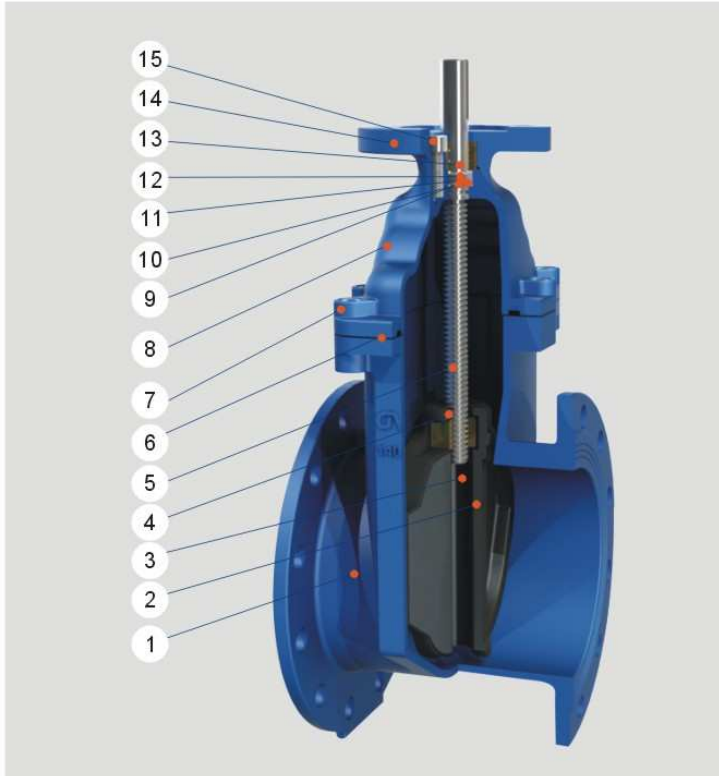
Design standard	EN1171:2002
Face to face	According to EN558-1 series 14 (DIN F4), series 15 (DIN F5), series 3 (BS5163) and ASME B16.10.
Flange drilling	According to EN1092 PN10-16, ASME B 16.1-16.5
Size scope	DN80-DN400 (DIN/BS), 3"-12" (ANSI)
Working temperature	NBR 0-70℃, EPDM 0-80℃
Working pressure	PN10-16, Class 125-150
Suitable medium	Water
Coating	Epoxy coating with thickness $\geq 250\mu\text{m}$

PARTS LIST

No.	Part name	Material
1	Body	Ductile Iron
2	Wedge	Ductile Iron with EPDM/NBR
3	Guide collar	Nylon
4	Wedge nut	Brass
5	Stem	2Cr13
6	Gasket	NBR/EPDM
7	Bonnet bolt	Galvanized Carbon steel/SS304
8	Bonnet	Ductile Iron
9	"O" ring	NBR
10	Locating washer	Nylon
11	Bushing	Brass
12	"O" ring	NBR
13	"O" ring	NBR
14	Dust ring	EPDM
15	Theftproof cap	2Cr13
16	Theftproof cover	2Cr13
17	Theftproof lever	2Cr13

ELECTRIC ACTUATED NRS RESILIENT SOFT SEATED GATE VALVES

DN40-DN1000 (DIN/BS), 2"-12" (ANSI)



APPLICATION STANDARDS

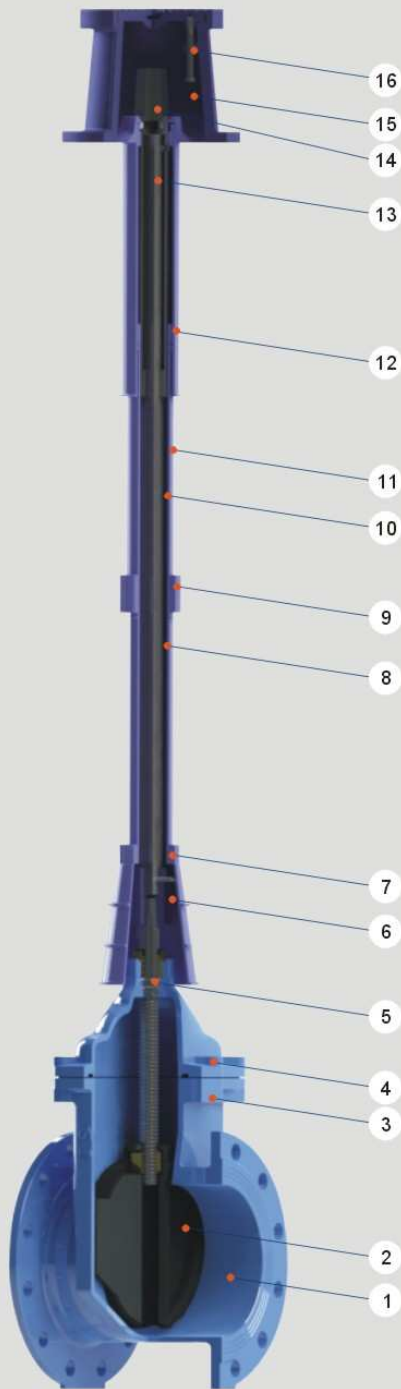
Design standard	EN1171:2002
Face to face	According to EN558-1 series 14 (DIN F4), series 15 (DIN F5), series 3 (BS5163) and ASME B16.10.
Flange drilling	According to EN1092 PN10-16, ASME B 16.1-16.5
Size scope	DN40-DN1000 (DIN/BS), 2"-12" (ANSI)
Working temperature	NBR 0-70℃, EPDM 0-80℃
Working pressure	PN10-16, Class 125-150
Suitable medium	Water
Coating	Epoxy coating with thickness $\geq 250\mu\text{m}$

PARTS LIST

No.	Part Name	Material
1	Body	Ductile Iron
2	Disc	Ductile Iron with NBR/EPDM
3	Guide collar	Nilong
4	Disc nut	Brass
5	Stem	2Cr13
6	Gasket	NBR/EPDM
7	Bonnet bolt	Galvanized Carbon steel/SS304
8	Bonnet	Ductile Iron
9	"O" ring	NBR
10	Locating washer	Nylon
11	Locking	Brass
12	"O" ring	NBR
13	Bushing	Brass
14	Top flange	Ductile Iron
15	Bolt	2Cr13

GATE VALVES WITH EXTENSION SPINDLE

DN40-DN1000 (DIN/BS), 2"-12" (ANSI)



APPLICATION STANDARDS

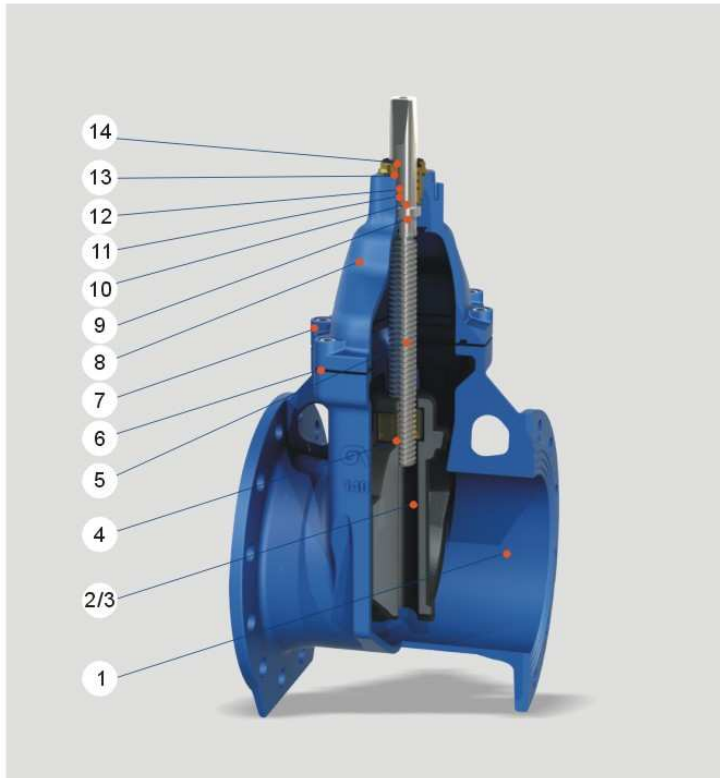
Design standard	EN1171:2002
Face to face	According to EN558-1 series 14 (DIN F4), series 15 (DIN F5), series 3 (BS5163) and ASME B16.10.
Flange drilling	According to EN1092 PN10-16, ASME B 16.1-16.5
Size scope	DN40-DN1000 (DIN/BS), 2"-12" (ANSI)
Working temperature	NBR 0-70℃, EPDM 0-80℃
Working pressure	PN10-16, Class 125-150
Suitable medium	Water
Coating	Epoxy coating with thickness $\geq 250\mu\text{m}$

PARTS LIST

No.	Part name	Material
1	Body	Ductile Iron
2	Wedge	Ductile Iron with NBR/EPDM
3	Bonnet	Ductile Iron
4	Gland	Ductile Iron
5	Stem	2Cr13
6	Gland cover	HDPE
7	Connecting shaft	Galvanized nickel alloy
8	Lower retaining tube	PVC/PE
9	Protective sleeve	HDPE
10	Annular tube	Galvanized nickel alloy
11	Upper retaining tube	PVC/PE
12	Guide shaft tube	Galvanized nickel alloy
13	Square shaft	Galvanized nickel alloy
14	Rotary shaft	Galvanized nickel alloy
15	Box	Ductile Iron
16	Box cover	Ductile Iron

HEAVY TYPE NRS RESILIENT SOFT SEATED FLANGE GATE VALVES

DN50-DN300



WITH POSITION INDICATOR



APPLICATION STANDARDS

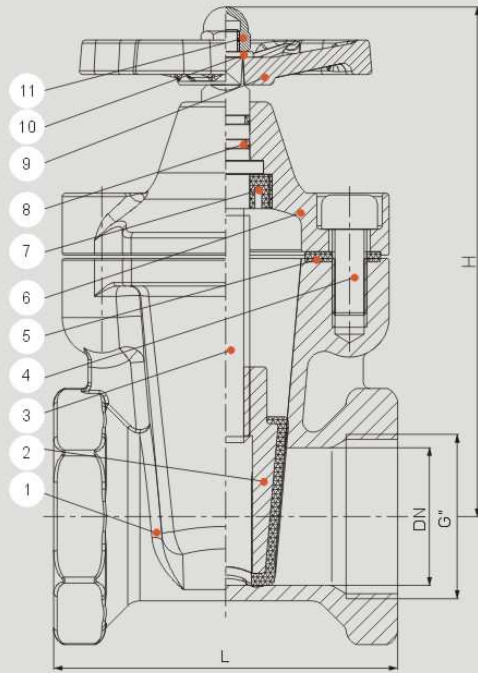
Design standard	EN1171:2002
Face to face	According to EN558-1 series 3 (BS5163) and 14 (DIN F4)
Flange drilling	According to EN1092 PN10-16
Size scope	DN50-DN300
Working temperature	NBR 0-70℃, EPDM 0-80℃
Working pressure	PN10-16
Suitable medium	Water
Coating	Epoxy coating with thickness $\geq 250\mu\text{m}$

PARTS LIST

No.	Part name	Material
1	Body	Ductile Iron
2	Wedge	Ductile Iron with EPDM/NBR
3	Guide collar	Nylon
4	Wedge nut	Brass
5	Stem	2Cr13
6	Gasket	NBR/EPDM
7	Bonnet bolt	Galvanized Carbon steel/SS304
8	Bonnet	Ductile Iron
9	"O" ring	MBR
10	Locating washer	Nylon
11	Bushing	Brass
12	"O" ring	NBR
13	"O" ring	NBR
14	Dust ring	NBR/EPDM

SERVICE VALVES

DN15-DN50



APPLICATION STANDARDS

Design standard	GB/T24924
Connection	According G or NPT
Size scope	DN15-DN50
Working temperature	NBR 0-70℃, EPDM 0-80℃
Working pressure	PN10-16
Suitable medium	Water
Coating	Epoxy coating with thickness $\geq 250\mu\text{m}$

PARTS LIST

No.	Part name	Material
1	Body	Ductile Iron
2	Wedge	Ductile Iron with NBR/EPDM
3	Stem	2Cr13
4	Gasket	NBR/EPDM
5	Bonnet bolt	Galvanized steel/SS304
6	Bonnet	Ductile Iron
7	Locating washer	Nylon
8	"o"ring	NBR
9	Handwheel	Carbon steel
10	Washer	Stainless steel
11	Cap screw	Stainless steel

DIMENSIONS

DN	L	H	G"
20	70	96	3/4"
25	80	110	1"
32	90	130	1 1/4"

DN	L	H	G"
40	100	150	1 1/2"
50	110	180	2"

ACCESSORIES

HANDWHEELS



DN	DN50	DN65	DN80	DN100	DN125	DN150	DN200	DN250	DN300
Dia. of casted handwheel	180	180	200	250	280	280	340	340	400
Dia. of steel handwheel	180	180	200	250	280	280	340	400	400

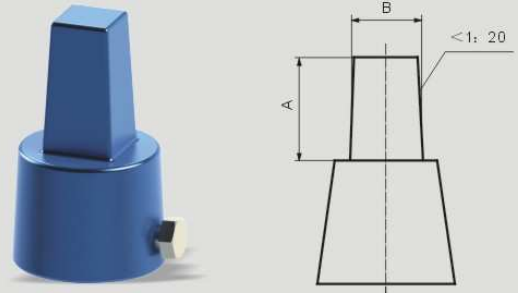
DN	DN350	DN400	DN500	DN600	DN700	DN800	DN900	DN1000
Dia. of casted handwheel	450	450	600	600	600	600	600	600
Dia. of steel handwheel	*	*	*	*	*	*	*	*

DIN STANDARD CAPS

Square sizes: 32mm*32mm



BS5163 STANDARD CAPS



DN	A	B
50, 80, 100, 150, 200, 250, 300	63	35
400, 500, 600, 700, 800	75	48

AMERICAN STANDARD CAPS

GEAR-BOX

ELECTRIC ACTUATOR

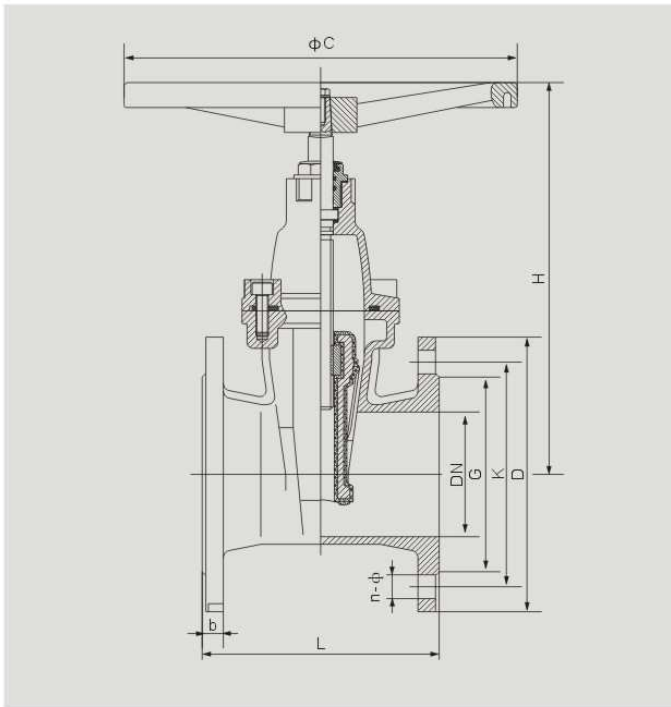
Square sizes: 2" * 2"



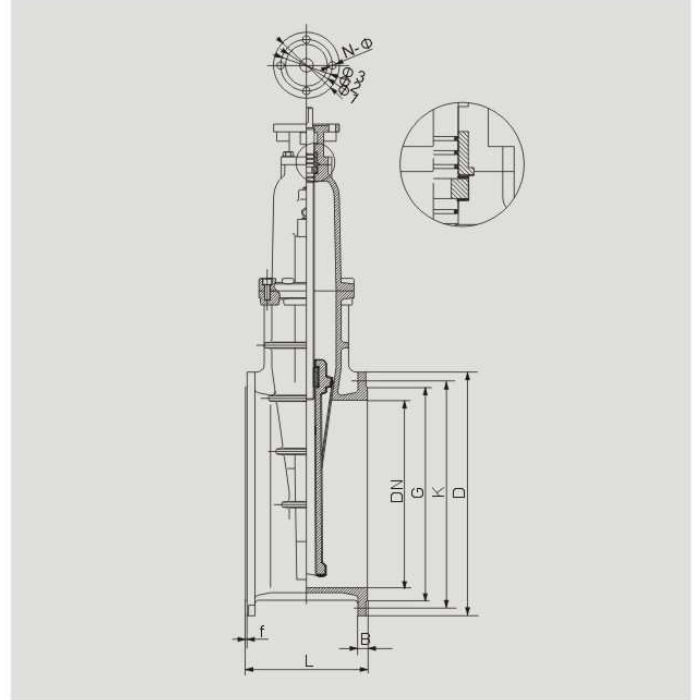
DIMENSIONS

DIN F4/F5 BS 5163

DN50-DN300



DN350-DN1000



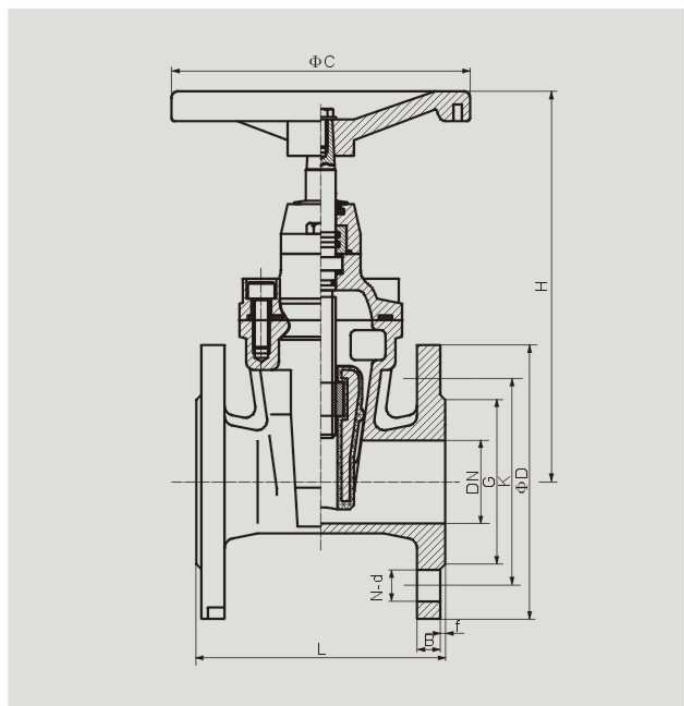
DIMENSIONS

DN		L			D		K		G		f	n-φ d		B	
		DIN		BS5163	PN10	PN16	PN10	PN16	PN10	PN16		PN10	PN16	PN10	PN16
2	50	150	250	178	165		125		99		3	4-19		19	
2.5	65	170	270	190	185		145		118		3	4-19		19	
3	80	180	280	203	200		160		132		3	8-19		19	
4	100	190	300	229	220		180		156		3	8-19		19	
5	125	200	325	254	250		210		184		3	8-19		19	
6	150	210	350	267	285		240		211		3	8-23		19	
8	200	230	400	292	340		295		266		3	8-φ 23	12-φ 23	20	
10	250	250	450	330	395	405	350	355	319		3	12-φ 23	12-φ 28	22	
12	300	270	500	356	445	460	400	410	370		4	12-φ 23	12-φ 28	24.5	
14	350	290	550	381	505	520	460	470	429		4	16-φ 23	16-φ 28	24.5	26.5
16	400	310	600	406	565	580	515	525	480		4	16-φ 28	16-φ 31	24.5	28
18	450	330	650	432	615	640	565	585	530	548	4	20-φ 28	20-φ 31	25.5	30
20	500	350	700	457	670	715	620	650	582	609	4	20-φ 28	20-φ 34	26.5	31.5
24	600	390	800	508	780	840	725	770	682	720	5	20-φ 31	20-φ 37	30	36
28	700	430	900	610	895	910	840		794		5	24-φ 31	24-φ 37	32.5	39.5
32	800	470	1000	660	1015	1025	950		901		5	24-φ 34	24-φ 41	35	43
36	900	510	1100	711	1115	1125	1050		1001		5	28-φ 34	28-φ 41	37.5	46.5
40	1000	550	1200	813	1230	1255	1160	1170	1112		5	28-φ 37	28-φ 44	40	50

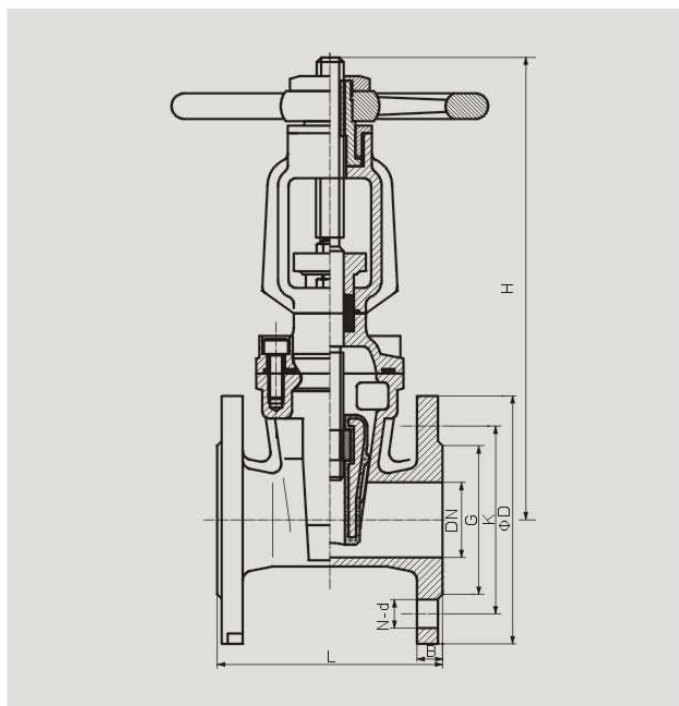
DIMENSIONS

ANSI

DN50-DN300



DN50-DN300



DIMENSIONS

NON-RISING STEM RESILIENT

DN	L	(H)		C	D	B		f		K	G		n-d	□S
		iron handwheel	steel handwheel			125	150	125	150		125	150		
2"	178	235.5	248.5	180	152	15.9	14.3		2	120.5		92	4-φ19	14
2.5"	190	258	274	180	178	17.5	15.9		2	139.5		105	4-φ19	14
3"	203	288.5	301.5	200	191	19.1	17.5		2	152.		127	4-φ19	15
4"	229	319	332	250	229	23.9	22.3		2	190.5		157	8-φ19	15
5"	254	360.5	377.5	280	254	23.9	22.3		2	216.5		186	8-φ22	19
6"	267	398	415	280	279	25.4	23.9		2	241.5		216	8-φ22	19
8"	292	509	533	340	343	28.6	27		2	298.5		270	8-φ22	19
10"	330	608	645	340	406	30.2	28.6		2	362		324	12-φ25	24
12"	356	683	715	400	483	31.8	30.2		2	432		381	12-φ25	27

RISING STEM RESILIENT

DN	L	(H)		C	D	B		f		K	G		n-d
		iron handwheel				125	150	125	150		125	150	
2"	178	327	178	152	152	15.9	14.3		2	120.5		92	4-φ19
2.5"	190	368	178	178	178	17.5	15.9		2	139.5		105	4-φ19
3"	203	405	203	191	191	19.1	17.5		2	152.5		127	4-φ19
4"	229	452	254	229	229	23.9	22.3		2	190.5		157	8-φ19
5"	254	610	254	254	254	23.9	22.3		2	216.5		186	8-φ22
6"	267	615	305	279	279	25.4	23.9		2	241.5		216	8-φ22
8"	292	775	356	343	343	28.6	27		2	298.5		270	8-φ22
10"	330	900	405	406	406	30.2	28.6		2	362		324	12-φ25
12"	356	1008	457	483	483	31.8	30.2		2	432		381	12-φ25

Providing the high quality environmental valves, improving the quality of human life.



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