# **GYP**<sup>®</sup> VALVE

# Resilient Soft Seated Gate Valve Series





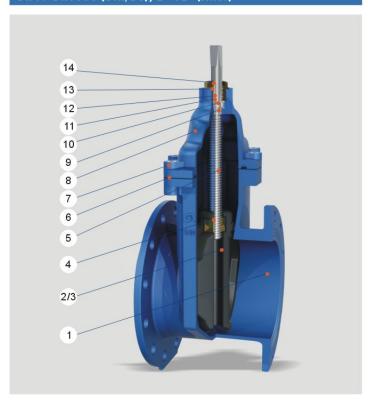


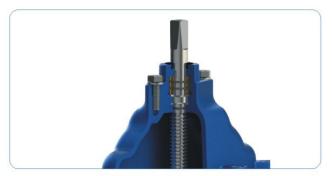
- NRS Resilient Soft Seated Flange Gate Valve
- RS Resilient Soft Seated Flange Gate Valves
- NRS Resilient Soft Seated (PVC/PE/PIPE) Socket Gate Valves
- ANTI-THEFT NRS Resilient Soft Seated Gate Valves
- Electric Actuated NRS Resilient Soft Seated Gate Valves

HYDRO ENGINEERING LLP www.hydro.com.kz

# NRS RESILIENT SOFT SEATED FLANGE GATE VALVES

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





### **APPLICATION STANDARDS**

Design standard
Face to face
Flange drilling
Size scope
Working temperature
Working pressure
Suitable medium
Coating

EN1171:2002

According to EN558-1 series 14 (DIN F4), series 15 (DIN F5), series 3 (BS5163) and ASME B16.10.

According to EN1092 PN10-16, ASME B 16.1-16.5

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

NBR 0-70℃, EPDM 0-80℃

PN10-16, Class 125-150

Water

Epoxy coating with thickness ≥250um

No.	Part name	Material
1	Body	<b>Ductile Iron</b>
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	<b>Ductile Iron</b>
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)





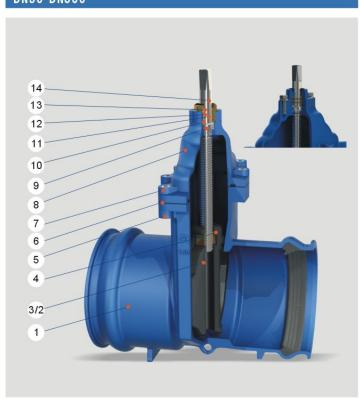
# APPLICATION STANDARDS

EN1171:2002
According to EN558-1 series 14 (DIN F4), series 3 (BS5163) and ASME B16.10.
According to EN1092 PN10-16, ASME B 16.1-16.5
DN50-DN300 (DIN/BS), 2"-12" (ANSI)
NBR 0-70℃, EPDM 0-80℃
PN10-16, Class 125-150
Water
Epoxy coating with thickness ≥250um

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





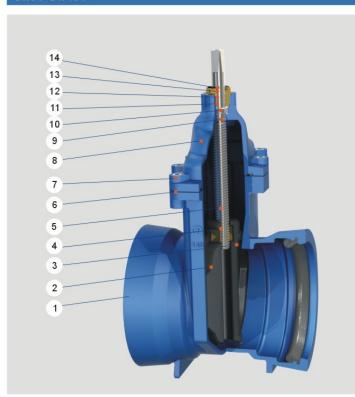
APPLICATION STANDARDS		
Design standard	EN1171:2002	
Socketstandard	ISO4427:1996 (GB/T13663-2000)	
Size scope	DN50-DN300	
Working temperature	NBR 0-70℃ , EPDM 0-80℃	
Working pressure	PN10-16	
Suitable medium	Water	
Coating	Epoxy coating with thickness $\geqslant$ 250um	

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



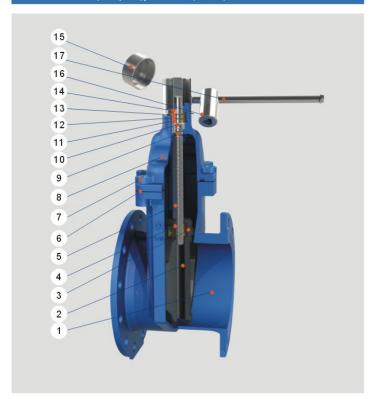


APPLICATION STANDARDS		
Design standard	EN1171:2002	
Socket standard	ISO2531:1998 (GB/T13295-2008)	
Sizescope	DN80-DN400	
Working temperature	NBR 0-70℃, EPDM 0-80℃	
Working pressure	PN10-16	
Suitable medium	Water	
Coating	Epoxy coating with thickness ≥250um	

No.	Part Name	Material
1	Body	Ductile Iron
2	Disc	Ductile Iron withNBR/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	Dustring	EPDM

# ANTI-THEFT NRS RESILIENT SOFT SEATED GATE VALVES

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





# APPLICATION STANDARDS

Design standard
Face to face
Flange drilling
Size scope
Working temperature
Working pressure
Suitable medium
Coating

EN1171:2002

According to EN558-1 series 14 (DIN F4), series 15 (DIN F5), series 3 (BS5163) and ASME B16.10.

According to EN1092 PN10-16,
ASME B 16.1-16.5

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

NBR 0-70℃, EPDM 0-80℃

PN10-16, Class 125-150

Water

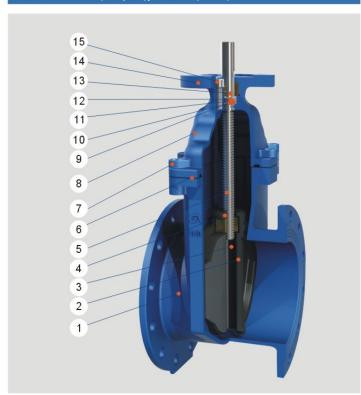
Epoxy coating with thickness ≥250um

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	Theftprooflever	2Cr13



# **ELECTRIC ACTUATED NRS RESILIENT SOFT SEATED GATE VALVES**

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





### APPLICATION STANDARDS

Design standard	EN117
Face to face	Accordi series 1 and AS
Flange drilling	Accord ASME I
Sizescope	DN40-[
Working temperature	NBR 0-
Working pressure	PN10-1
Suitable medium	Water
Coating	Ероху

EN1171:2002

According to EN558-1 series 14 (DIN F4), series 15 (DIN F5), series 3 (BS5163) and ASME B16.10.

According to EN1092 PN10-16,
ASME B 16.1-16.5

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

NBR 0-70℃, EPDM 0-80℃

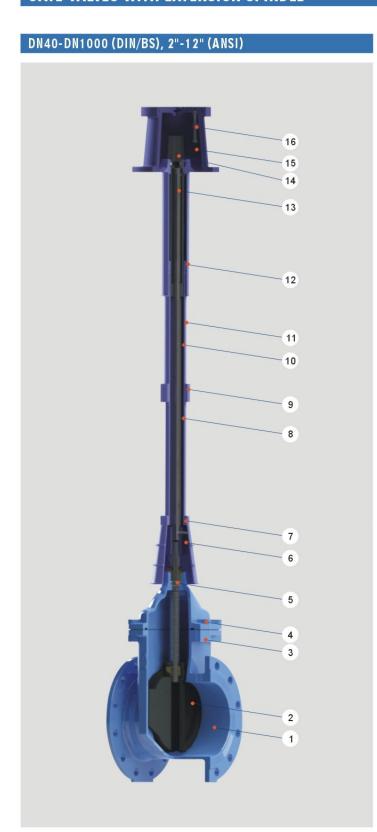
PN10-16, Class 125-150

Water

Epoxy coating with thickness ≥250um

No.	Part Name	Material
1	Body	Ductile Iron
2	Disc	Ductile Iron withNBR/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	Locting	Brass
12	"O" ring	NBR
13	Bushing	Brass
14	Top flange	Ductile Iron
15	Bolt	2Cr13

# **GATE VALVES WITH EXTENSION SPINDLE**





# APPLICATION STANDARDS

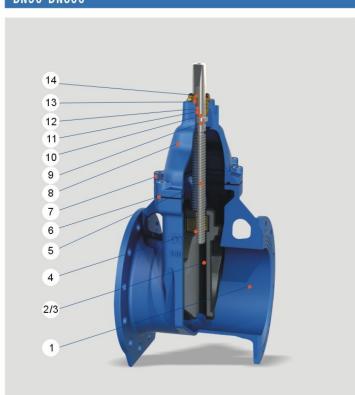
Design standard	EN1171:2002
Face to face	According to EN558-1 series 14 (DIN F4) series 15 (DIN F5), series 3 (BS5163) and ASME B16.10.
Flange drilling	According to EN1092 PN10-16, ASME B 16.1-16.5
Size scope	DN40-DN1000 (DIN/BS), 2"-12" (ANSI)
Working temperature	NBR 0-70℃, EPDM 0-80℃
Working pressure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

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



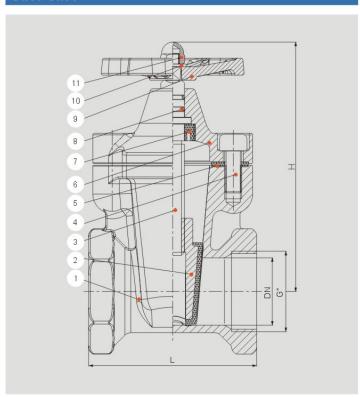


APPLICATION STAN	IDARDS
Design standard	EN1171:2002
Face to face	According to EN558-1 series 3 (BS5163) and 14 (DIN F4)
Flange drilling	According to EN1092 PN10-16
Sizescope	DN50-DN300
Working temperature	NBR 0-70℃, EPDM 0-80℃
Working pressure	PN10-16
Suitable medium	Water
Coating	Epoxy coating with thickness ≥250um

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	Dustring	NBR/EPDM

# SERVICE VALVES

# DN15-DN50





APPLICATION STAN	DARDS
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 ≥250um

# 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	Capscrew	Stainless steel

# DIMENSIONS

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

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



# **ACCESSORIES**

# HANDWHEELS



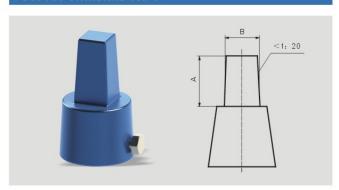
DN	DN50	DN65	DN80	DN100	DN125	DN150	DN200	DN250	DN300
Dia. of casted handwheel	180	180	200	250	280	280	340	340	400
Dia. of steel handwheel	180	180	200	250	280	280	340	400	400

DN	DN DN350		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



# BS5163 STANDARD CAPS



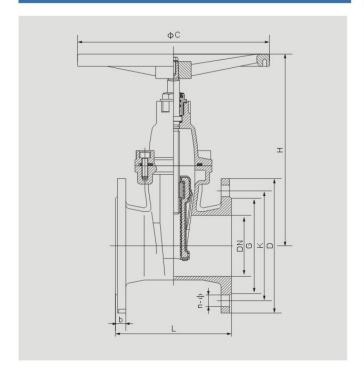
DN	A	В	
50, 80, 100, 150, 200, 250, 300	63	35	
400, 500, 600, 700, 800	75	48	

# AMERICAN STANDARD CAPS GEAR-BOX ELECTRIC ACTUATOR

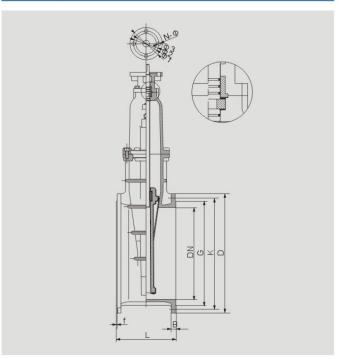


# DIMENSIONS DIN F4/F5 BS 5163

# DN50-DN300



# DN350-DN1000



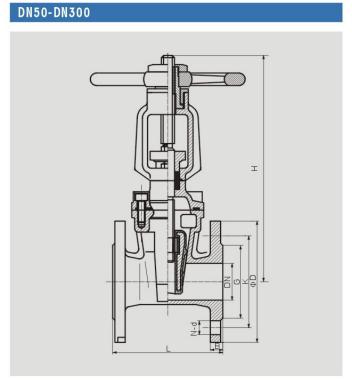
# DIMENSIONS

			L		1	D		<		G		n-	φ <b>d</b>		3
	DN	DIN		BS5163			DNI40	DNAS		DNIAG	f	DNI40	DNIAG	DNI40	DNAS
		F4	F5	BS	PN10	PN16	PN10	PN16	PN10	PN16		PN10	PN16	PN10	PN16
2	50	150	250	178	1	65	1	25	9	99	3	4-	19	1	9
2.5	65	170	270	190	1	85	1-	45	1	18	3	4-	19	1	9
3	80	180	280	203	2	00	1	60	1	32	3	8-	19	19	
4	100	190	300	229	2	20	1	80	1	56	3	8-	19	1	9
5	125	200	325	254	2	50	2	10	1	84	3	8-	19	1	9
6	150	210	350	267	2	85	2	40	211		3	8-	23	19	
8	200	230	400	292	3	40	2	95	266		3	8-φ23	12- <b>\$</b> 23	2	0
10	250	250	450	330	395	405	350	355	3	19	3	12- <b>\$</b> 23	12- <b>\$</b> 28	2	2
12	300	270	500	356	445	460	400	410	3	70	4	12- <b>\$</b> 23	12- <b>\$</b> 28	24	.5
14	350	290	550	381	505	520	460	470	4	29	4	16- φ 23	16- <b>\$ 28</b>	24.5	26.5
16	400	310	600	406	565	580	515	525	4	80	4	16- φ 28	16- <b>\$</b> 31	24.5	28
18	450	330	650	432	615	640	565	585	530	548	4	20- φ 28	20- <b>\$</b> 31	25.5	30
20	500	350	700	457	670	715	620	650	582	609	4	20- <b>\$</b> 28	20- <b>\$</b> 34	26.5	31.5
24	600	390	800	508	780	840	725	770	682 720		5	20- <b>\$</b> 31	20- <b>\$</b> 37	30	36
28	700	430	900	610	895	910	840		7	94	5	24- $\phi$ 31	$24 \hbox{-} \varphi  37$	32.5	39.5
32	800	470	1000	660	1015	1025	9	950 901		5	24- <b>\$</b> 34	24-	35	43	
36	900	510	1100	711	1115	1125	10	50	10	001	5	28- <b>\$</b> 34	28- <b>\$41</b>	37.5	46.5
40	1000	550	1200	813	1230	1255	1160	1170	11	112	5	28- φ 37	28- <b>44</b>	40	50



# DIMENSIONS

# DN50-DN300



DIMENSIONS NON-RISING STEM RESILIENT														
DN	L	(H) iron handwheel	(H) steel handwheel	С	D	B 125 150		f 125   150		K	G 125 150		n-d	□s
2"	178	235.5	248.5	180	152	15.9	14.3		2	120.5		92	<b>4</b> -⊕19	14
2.5"	190	258	274	180	178	17.5	15.9		2	139.5		105	<b>4-</b> Φ19	14
3"	203	288.5	301.5	200	191	19.1	17.5		2	152.		127	<b>4-</b> Φ <b>19</b>	15
4"	229	319	332	250	229	23.9	22.3		2	190.5		157	8-⊕19	15
5"	254	360.5	377.5	280	254	23.9	22.3		2	216.5		186	8-⊕22	19
6"	267	398	415	280	279	25.4	23.9		2	241.5		216	8-⊕22	19
8"	292	509	533	340	343	28.6	27		2	298.5		270	8-⊕22	19
10"	330	608	645	340	406	30.2	28.6		2	362		324	12-Ф25	24
12"	356	683	715	400	483	31.8	30.2		2	432		381	12- <b>⊕</b> 25	27

### RISING STEM RESILIENT

DN	L	(H) iron handwheel	С	D	В		f		К	G		n-d
					125	25 150 125 150 K	125	150	II-u			
2"	178	327	178	152	15.9	14.3		2	120.5		92	4- ф 19
2.5"	190	368	178	178	17.5	15.9		2	139.5		105	4- ⊕ 19
3"	203	405	203	191	19.1	17.5		2	152.5		127	<b>4</b> - ⊕ <b>19</b>
4"	229	452	254	229	23.9	22.3		2	190.5		157	8- ⊕ 19
5"	254	610	254	254	23.9	22.3		2	216.5		186	8- ⊕ 22
6"	267	615	305	279	25.4	23.9		2	241.5		216	8- ⊕ 22
8"	292	775	356	343	28.6	27		2	298.5		270	8-ф22
10"	330	900	405	406	30.2	28.6		2	362		324	12-ф 25
12"	356	1008	457	483	31.8	30.2		2	432		381	12-ф 25