



DINICOLA®



Organismo accreditato da ACCREDIA
Body accreditato by ACCREDIA

UNI EN ISO 9001:2015

Manufacturing Water Valves
Industrial Valves
Penstocks and Gates
Radial Gates
Special Applications

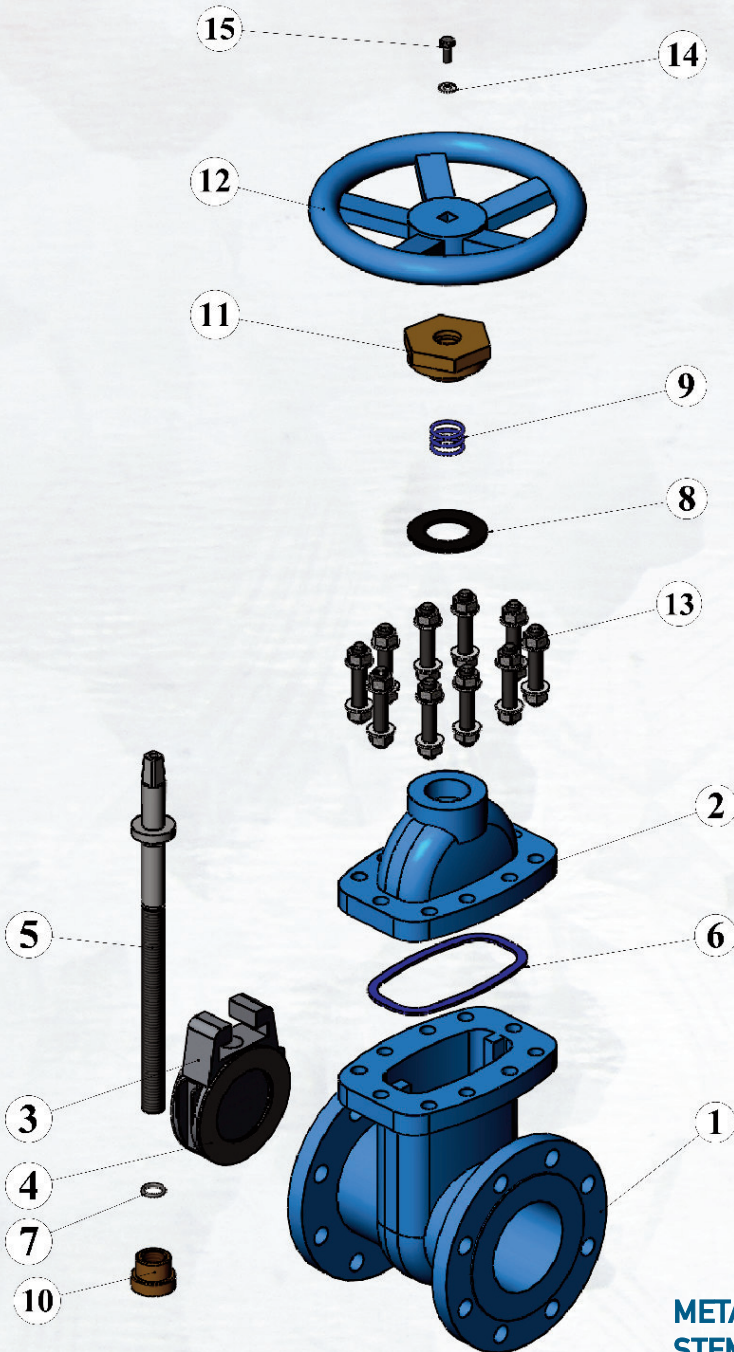


DUCTILE IRON METAL SEATED GATE VALVES



GVMS METAL SEATED GATE VALVE "O" RING TYPE

Conform to EN 1074-1/2 and EN 1171, Flanges according EN 1092-2, flange drilling conform to EN 1092-2 or ANSI B16.5 Class 125/150, Test conform to EN 12266-1, max working Temperature 70°.



1	Body	Cast Iron	EN GJL250
2	Bonnet	Ductile Iron	EN GJS 400-15
3	Wedge	Ni-Resist	EN GJS 500-7
4	Seat	Brass St.st. 304 St.st 316	EN 1264 EN 1.4301* EN 1.4301*
5	Stem	Bronze AISI St.st. 304 St.st 316	EN 1982 EN 1.4021 EN 1.4301 EN 1.4401
6	Seal	EPDM	EN 12115
7		NBR	EN 549
8			
9			
10	Nut	Brass	EN 1264
11	Bushing	Bronze	EN 1982
12	Handwheel	Cast Iron	EN GJL249
13	Bolting	Galvanized Steel	EN 4.8
14		St.st. 304	EN 1.4301/A2
15		St.st. 316	EN 1.4401/A4

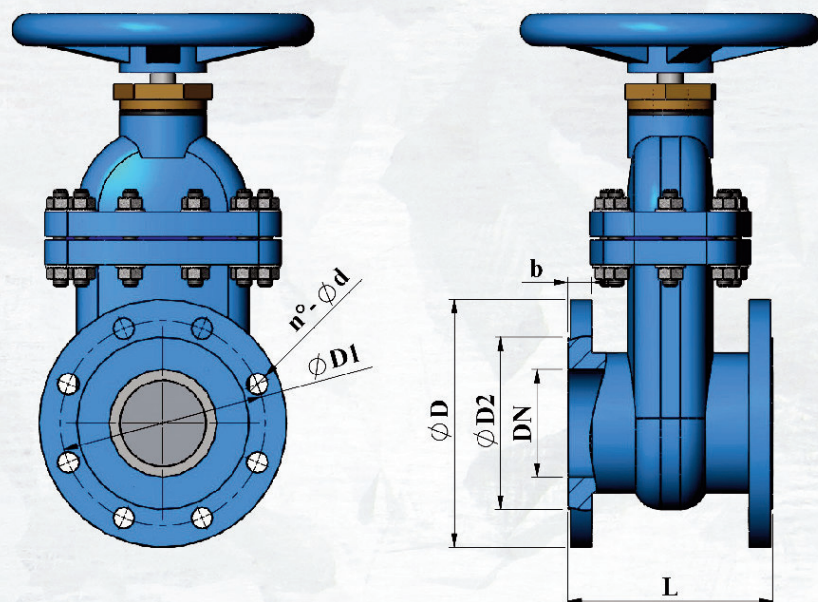
*EN 122261 LEAK RATE D

METAL SEATED NO RISING STEM GATE VALVE

Note* All dimensions are in mm.
Our firm reserve to apply modifications without any information.
Dimensions can vary due to cast molding.
All dimensions are subject to tolerance equal to 10%

GVMS METAL SEATED GATE VALVE FLAT BODY NON RISING STEM "O" RING TYPE

Conform to EN 1074-1/2 and EN 1171, Face to Face EN 558 Serie 14 Flat body, Flanges according EN 1092-2 . . flange drilling conform to EN 1092-2 or ANSI B16.5 Class 125/150 , Test conform to EN 12266-1, max working Temperature 70°.

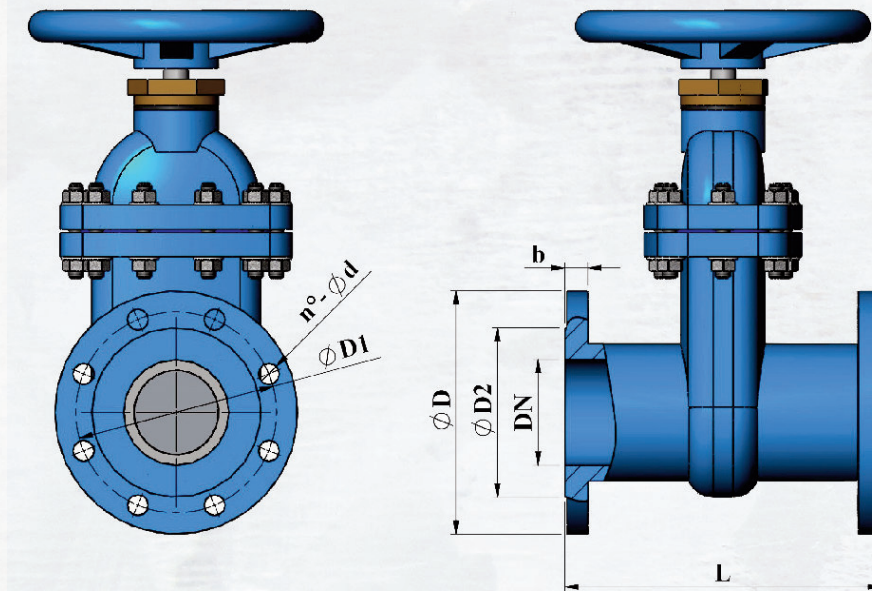


DN	L	PN 6					PN 10					PN 16				
		D	D1	D2	b	n-d	D	D1	D2	b	n-d	D	D1	D2	b	n-d
40	140	130	100	80	18	4-14	150	110	88	18	4-18	150	110	88	18	4-18
50	150	140	110	90	19	4-14	165	125	102	19	4-18	165	125	102	19	4-18
65	170	160	130	110	19	4-14	185	145	122	19	8-18	185	145	122	19	8-18
80	180	190	150	128	19	4-18	200	160	138	19	8-18	200	160	138	19	8-18
100	190	210	170	148	19	4-18	220	180	158	19	8-18	220	180	158	19	8-18
125	200	240	200	178	19	8-18	250	210	188	19	8-18	250	210	188	19	8-18
150	210	265	225	202	19	8-18	285	240	212	19	8-22	285	240	212	19	8-22
200	230	320	280	258	20	8-18	340	295	268	20	8-22	340	295	268	20	12-22
250	250	375	335	312	22	12-18	395	350	320	22	12-22	405	355	320	22	12-26
300	270	440	395	365	24	12-22	445	400	370	24	12-22	460	410	378	24	12-26
350	290	490	445	415	24	12-22	505	460	430	24	16-22	520	470	438	26	16-26
400	310	540	495	465	28	16-22	565	515	482	28	16-26	580	525	490	28	16-30
450	330	596	550	520	25	16-22	615	565	532	25	20-26	640	585	550	30	20-30
500	350	645	600	570	26	20-22	670	620	585	26	20-26	715	650	610	31	20-33
600	390	755	705	670	30	20-26	780	725	685	30	20-30	840	770	725	36	20-36
700	430	860	810	775	32	24-26	895	840	800	32	24-30	910	840	795	39	24-36
800	470	975	920	880	35	24-30	1015	950	905	35	24-33	1025	950	900	43	24-39
900	510	1075	1020	980	37	24-30	1115	1050	1050	37	28-33	1125	1050	1000	46	28-39
1000	550	1175	1120	1080	40	28-30	1230	1160	1110	40	28-36	1255	1170	1115	50	28-42
1200	630	1405	1340	1295	45	32-33	1455	1380	1330	45	32-39	1485	1390	1330	57	32-48

Note* All dimensions are in mm.
 Our firm reserve to apply modifications without any information.
 Dimensions can vary due to cast molding.
 All dimensions are subject to tolerance equal to 10%

GVMS METAL SEATED GATE VALVE OVAL BODY NON RISING STEM "O" RING TYPE

Conform to EN 1074-1/2 and BSEN 1171, Face to Face EN 558 Serie 15 Oval body, Flanges according EN 1092-2 Flange drilling conform to EN 1092-2 or ANSI B16.5 Class 125/150, Test conform to EN 12266-1, max working Temperature 70°.

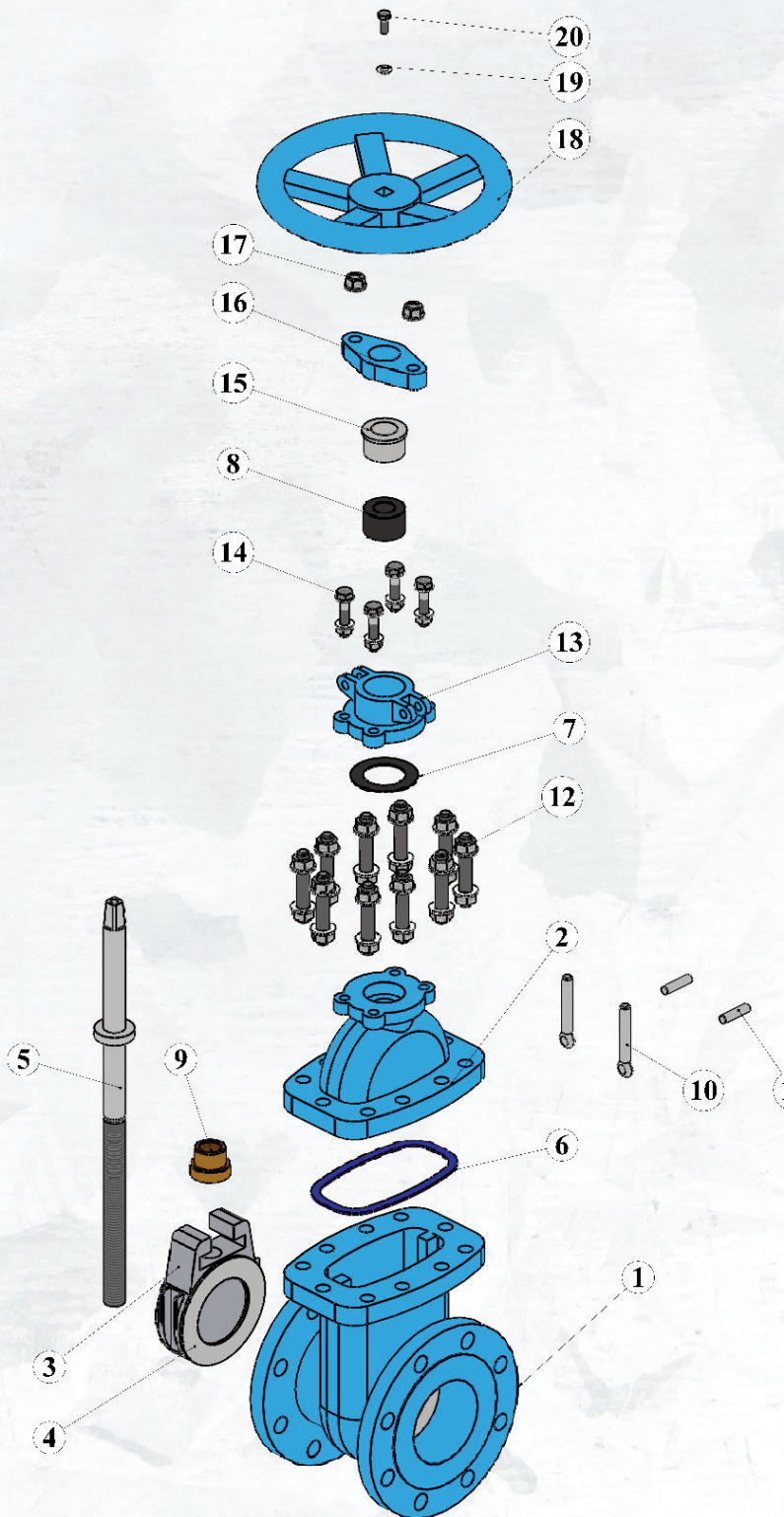


DN	L	PN 10					PN 16					PN 25				
		D	D1	D2	b	n-d	D	D1	D2	b	n-d	D	D1	D2	b	n-d
40	240	150	110	88	18	4-18	150	110	88	18	4-18					
50	250	165	125	102	19	4-18	165	125	102	19	4-18	165	125	99	19	4-19
65	265	185	145	122	19	8-18	185	145	122	19	8-18					
80	280	200	160	138	19	8-18	200	160	138	19	8-18	200	160	132	19	8-19
100	300	220	180	158	19	8-18	220	180	158	19	8-18	235	190	156	19	8-23
125	325	250	210	188	19	8-18	250	210	188	19	8-18					
150	350	285	240	212	19	8-22	285	240	212	19	8-22	300	250	211	20	8-28
200	400	340	295	268	20	8-22	340	295	268	20	12-22	360	310	274	22	12-28
250	450	395	350	320	22	12-22	405	355	320	22	12-26	425	370	330	24	12-31
300	500	445	400	370	24	12-22	460	410	378	24	12-26	485	430	389	27	16-31
350	550	505	460	430	24	16-22	520	470	438	26	16-26	555	490	448	30	16-34
400	600	565	515	482	28	16-26	580	525	490	28	16-30	620	550	503	32	16-37
450	650	615	565	532	25	20-26	640	585	550	30	20-30	670	600	548	34	20-37
500	700	670	620	585	26	20-26	715	650	610	31	20-33	730	660	609	36	20-37
600	800	780	725	685	30	20-30	840	770	725	36	20-36	845	770	720	42	20-41
700	900	895	840	800	32	24-30	910	840	795	39	24-36	960	875	820	46	24-43
800	1000	1015	950	905	35	24-33	1025	950	900	43	24-39	1085	990	928	51	24-50
900	1100	1115	1050	1050	37	28-33	1125	1050	1000	46	28-39	1185	1090	1028	55	28-50
1000	1200	1230	1160	1110	40	28-36	1255	1170	1115	50	28-42	1320	1210	1140	60	28-56
1200	1400	1455	1380	1330	45	32-39	1485	1390	1330	57	32-48	1530	1420	1350	69	32-56
1400	1600	1675	1590	1530	46	36-44	1685	1590	1530	60	36-50					
1600	1800	1915	1820	1750	49	40-50	1930	1820	1750	65	40-56					
1800	2000	2115	2020	1950	52	44-50	2130	2020	1950	70	44-57					
2000	2200	2325	2230	2150	55	48-48	2345	2230	2150	75	48-62					

Note* All dimensions are in mm.
Our firm reserve to apply modifications without any information.
Dimensions can vary due to cast molding.
All dimensions are subject to tolerance equal to 10%

GVMS METAL SEATED GATE VALVE “ROPE” TYPE

Conform to EN 1074-1/2 and EN 1171, Flanges according EN 1092-2, flange drilling conform to EN 1092-2 or ANSI B16.5 Class 125/150, Test conform to EN 12266-1, max working Temperature 70°.



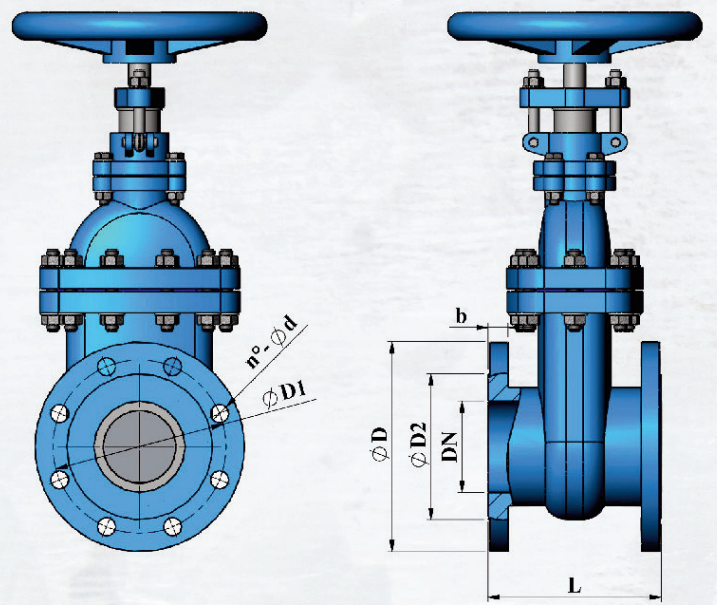
1	Body	Cast Iron	EN GJL250		
2	Bonnet	Ductile Iron	EN GJS 400-15		
3	Wedge	Ni-Resist	EN GJS 500-7		
4	Seat	Brass	EN 1264		
		St.st. 304	EN 1.4301*		
		St.st. 316	EN 1.4301*		
5	Stem	Bronze	EN 1982		
		St.st. 304	EN 1.4301		
		St.st. 316	EN 1.4401		
6	Seal	EPDM	EN 12115		
7	Seal	NBR	EN 548		
8	Rope	Graphite / PTFE	NA757 / NA759		
9	Nut	Brass	EN 1264		
10	Bolting	Galvanized Steel	EN 4.8		
11		St.st. 316	EN 1.4401/A4		
19				St.st. 304	EN 1.4301/A2
17					
12	St.st. 316	EN 1.4401/A4			
17			St.st. 316	EN 1.4401/A4	
14	St.st. 316	EN 1.4401/A4			
20			St.st. 316	EN 1.4401/A4	
13	Stuffing Box	Cast Iron			EN GJL250
16	Gland	Ductile Iron	EN GJS 400-15		
15	Gland Press	Ni-Resist	EN GJS 500-17		
18	Handwheel	Cast Iron	EN GJS250		

*EN 122261 LEAK RATE D

Note* All dimensions are in mm.
Our firm reserve to apply modifications without any information.
Dimensions can vary due to cast molding.
All dimensions are subject to tolerance equal to 10%

GVMS METAL SEATED GATE VALVE FLAT BODY NON RISING STEM ROPE TYPE

Conform to EN 1074-1/2 and BSEN 1171, Face to Face EN 558 Serie 14 Flat body, Flanges according EN 1092-2, flange drilling conform to EN 1092-2 or ANSI B16.5 Class 125/150, Test conform to EN 12266-1, max working Temperature 70°.

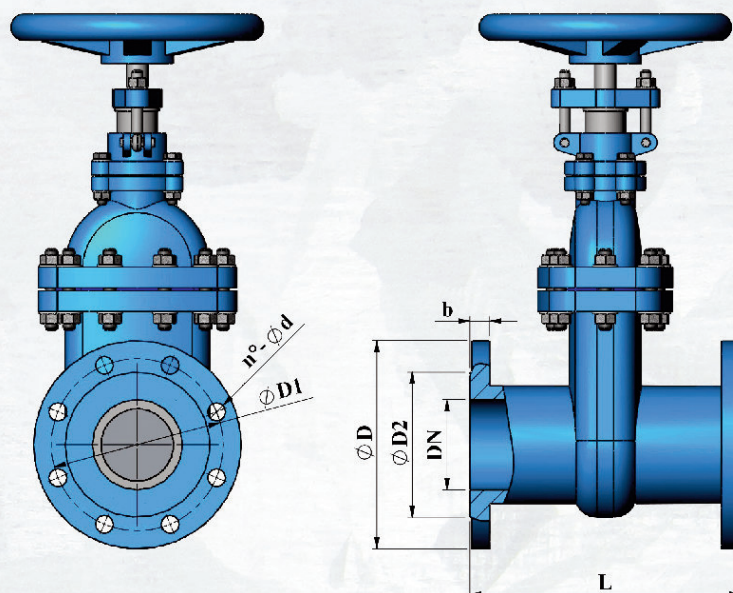


DN	L	PN 6					PN 10					PN 16				
		D	D1	D2	b	n-d	D	D1	D2	b	n-d	D	D1	D2	b-	n d
40	140	130	100	80	18	4-14	150	110	88	18	4-18	150	110	88	18	4-18
50	150	140	110	90	19	4-14	165	125	102	19	4-18	165	125	102	19	4-18
65	170	160	130	110	19	4-14	185	145	122	19	8-18	185	145	122	19	8-18
80	180	190	150	128	19	4-18	200	160	138	19	8-18	200	160	138	19	8-18
100	190	210	170	148	19	4-18	220	180	158	19	8-18	220	180	158	19	8-18
125	200	240	200	178	19	8-18	250	210	188	19	8-18	250	210	188	19	8-18
150	210	265	225	202	19	8-18	285	240	212	19	8-22	285	240	212	19	8-22
200	230	320	280	258	20	8-18	340	295	268	20	8-22	340	295	268	20	12-22
250	250	375	335	312	22	12-18	395	350	320	22	12-22	405	355	320	22	12-26
300	270	440	395	365	24	12-22	445	400	370	24	12-22	460	410	378	24	12-26
350	290	490	445	415	24	12-22	505	460	430	24	16-22	520	470	438	26	16-26
400	310	540	495	465	28	16-22	565	515	482	28	16-26	580	525	490	28	16-30
450	330	596	550	520	25	16-22	615	565	532	25	20-26	640	585	550	30	20-30
500	350	645	600	570	26	20-22	670	620	585	26	20-26	715	650	610	31	20-33
600	390	755	705	670	30	20-26	780	725	685	30	20-30	840	770	725	36	20-36
700	430	860	810	775	32	24-26	895	840	800	32	24-30	910	840	795	39	24-36
800	470	975	920	880	35	24-30	1015	950	905	35	24-33	1025	950	900	43	24-39
900	510	1075	1020	980	37	24-30	1115	1050	1050	37	28-33	1125	1050	1000	46	28-39
1000	550	1175	1120	1080	40	28-30	1230	1160	1110	40	28-36	1255	1170	1115	50	28-42
1200	630	1405	1340	1295	45	32-33	1455	1380	1330	45	32-39	1485	1390	1330	57	32-48

Note* All dimensions are in mm.
Our firm reserve to apply modifications without any information.
Dimensions can vary due to cast molding.
All dimensions are subject to tolerance equal to 10%

GVMS METAL SEATED GATE VALVE OVAL BODY NON RISING STEM ROPE TYPE

Conform to EN 1074-1/2 and BSEN 1171, Face to Face EN 558 Serie 15 Oval body, Flanges according EN 1092-2 Flange drilling conform to EN 1092-2 or ANSI B16.5 Class 125/150, Test conform to EN 12266-1, max working Temperature 70°.

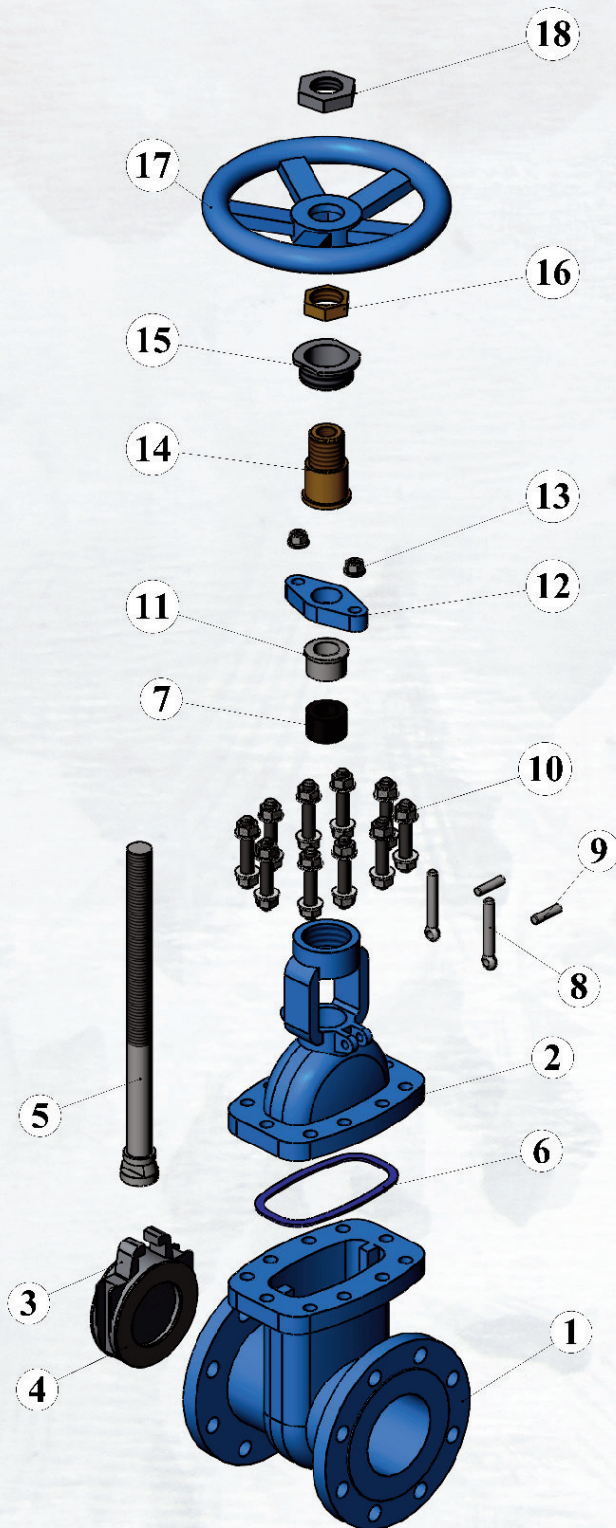


DN	L	PN 10					PN 16					PN 25				
		D	D1	D2	b	n-d	D	D1	D2	b	n-d	D	D1	D2	b	n-d
40	240	150	110	88	18	4-18	150	110	88	18	4-18					
50	250	165	125	102	19	4-18	165	125	102	19	4-18	165	125	99	19	4-19
65	265	185	145	122	19	8-18	185	145	122	19	8-18					
80	280	200	160	138	19	8-18	200	160	138	19	8-18	200	160	132	19	8-19
100	300	220	180	158	19	8-18	220	180	158	19	8-18	235	190	156	19	8-23
125	325	250	210	188	19	8-18	250	210	188	19	8-18					
150	350	285	240	212	19	8-22	285	240	212	19	8-22	300	250	211	20	8-28
200	400	340	295	268	20	8-22	340	295	268	20	12-22	360	310	274	22	12-28
250	450	395	350	320	22	12-22	405	355	320	22	12-26	425	370	330	24	12-31
300	500	445	400	370	24	12-22	460	410	378	24	12-26	485	430	389	27	16-31
350	550	505	460	430	24	16-22	520	470	438	26	16-26	555	490	448	30	16-34
400	600	565	515	482	28	16-26	580	525	490	28	16-30	620	550	503	32	16-37
450	650	615	565	532	25	20-26	640	585	550	30	20-30	670	600	548	34	20-37
500	700	670	620	585	26	20-26	715	650	610	31	20-33	730	660	609	36	20-37
600	800	780	725	685	30	20-30	840	770	725	36	20-36	845	770	720	42	20-41
700	900	895	840	800	32	24-30	910	840	795	39	24-36	960	875	820	46	24-43
800	1000	1015	950	905	35	24-33	1025	950	900	43	24-39	1085	990	928	51	24-50
900	1100	1115	1050	1050	37	28-33	1125	1050	1000	46	28-39	1185	1090	1028	55	28-50
1000	1200	1230	1160	1110	40	28-36	1255	1170	1115	50	28-42	1320	1210	1140	60	28-56
1200	1400	1455	1380	1330	45	32-39	1485	1390	1330	57	32-48	1530	1420	1350	69	32-56
1400	1600	1675	1590	1530	46	36-44	1685	1590	1530	60	36-50					
1600	1800	1915	1820	1750	49	40-50	1930	1820	1750	65	40-56					
1800	2000	2115	2020	1950	52	44-50	2130	2020	1950	70	44-57					
2000	2200	2325	2230	2150	55	48-48	2345	2230	2150	75	48-62					

Note* All dimensions are in mm.
 Our firm reserve to apply modifications without any information.
 Dimensions can vary due to cast molding.
 All dimensions are subject to tolerance equal to 10%

GVMS METAL SEATED GATE VALVE RISING STEM

Conform to EN 1074-1/2 and BSEN 1171, Flanges according EN 1092-2, flange drilling conform to EN 1092-2 or ANSI B16.5 Class 125/150, Test conform to EN 12266-1, max working Temperature 70°.



1	Body	Cast Iron	EN GJL250
2	Bonnet	Ductile Iron	EN GJS 400-15
3	Wedge	Ni-Resist	EN GJS 500-7
4	Seat	Brass St.st. 304 St.st 316	EN 1264 EN 1.4301* EN 1.4301*
5	Stem		
6	Seal	EPDM NBR	EN 12115 EN 549
7	Rope	Graphite / PTFE	NA 757 / NA 759
8	Bolting	Galvanized Steel	EN 4.8
9		St.st. 304	EN 1.4301/A2
10		St.st. 316	EN 1.4401/A4
11	Gland	Cast Iron	EN GJL250
12	Gland Press	Ductile Iron	EN GJS 400-15
13	Handwheel	Ni-Resist	EN GJS 500-17
17			
14	Nut	Brass	EN 1264
16	Bolt		
15	Bushing	Galvanized Steel	EN 4.8
18	Handswheel Nut	St.st. 304	EN 1.4301/A2

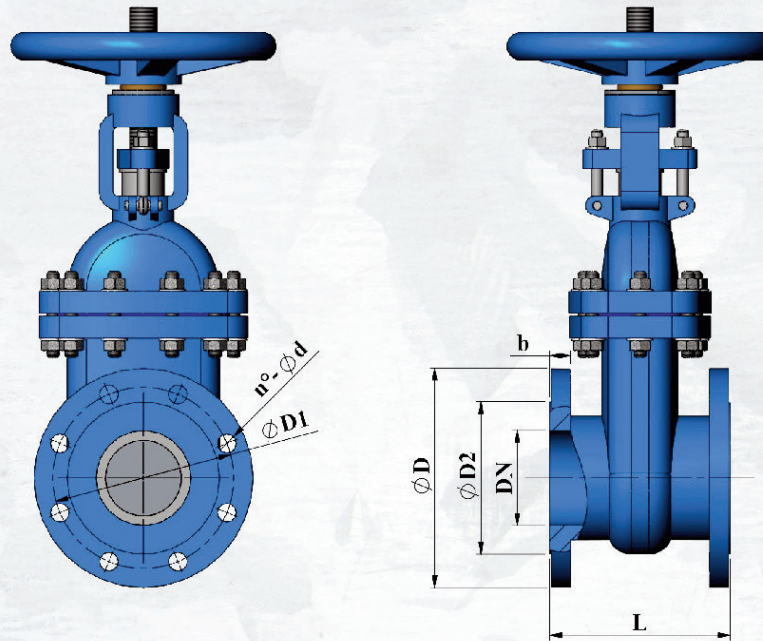
*EN 122261 LEAK RATE D

METAL SEATED RISING STEM GATE VALVE

Note* All dimensions are in mm.
Our firm reserve to apply modifications without any information.
Dimensions can vary due to cast molding.
All dimensions are subject to tolerance equal to 10%

GVMS METAL SEATED GATE VALVE FLAT BODY RISING STEM

Conform to EN 1074-1/2 and BSEN 1171, Face to Face EN 558 Serie 14 Flat body, Flanges according EN 1092-2, flange drilling conform to EN 1092-2 or ANSI B16.5 Class 125/150, Test conform to EN 12266-1, max working Temperature 70°.

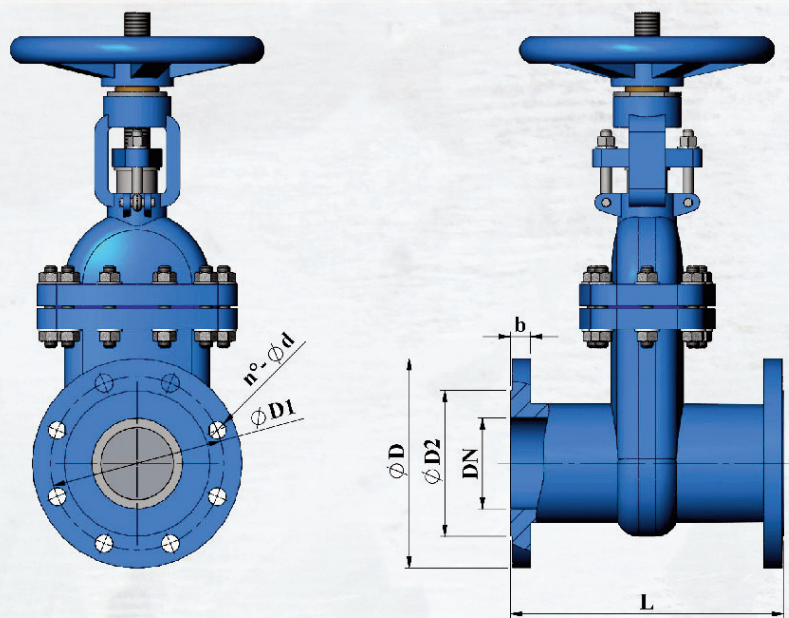


DN	L	PN 6					PN 10					PN 16				
		D	D1	D2	b	n-d	D	D1	D2	b	n-d	D	D1	D2	b	n-d
40	140	130	100	80	18	4-14	150	110	88	18	4-18	150	110	88	18	4-18
50	150	140	110	90	19	4-14	165	125	102	19	4-18	165	125	102	19	4-18
65	170	160	130	110	19	4-14	185	145	122	19	8-18	185	145	122	19	8-18
80	180	190	150	128	19	4-18	200	160	138	19	8-18	200	160	138	19	8-18
100	190	210	170	148	19	4-18	220	180	158	19	8-18	220	180	158	19	8-18
125	200	240	200	178	19	8-18	250	210	188	19	8-18	250	210	188	19	8-18
150	210	265	225	202	19	8-18	285	240	212	19	8-22	285	240	212	19	8-22
200	230	320	280	258	20	8-18	340	295	268	20	8-22	340	295	268	20	12-22
250	250	375	335	312	22	12-18	395	350	320	22	12-22	405	355	320	22	12-26
300	270	440	395	365	24	12-22	445	400	370	24	12-22	460	410	378	24	12-26
350	290	490	445	415	24	12-22	505	460	430	24	16-22	520	470	438	26	16-26
400	310	540	495	465	28	16-22	565	515	482	28	16-26	580	525	490	28	16-30
450	330	596	550	520	25	16-22	615	565	532	25	20-26	640	585	550	30	20-30
500	350	645	600	570	26	20-22	670	620	585	26	20-26	715	650	610	31	20-33
600	390	755	705	670	30	20-26	780	725	685	30	20-30	840	770	725	36	20-36
700	430	860	810	775	32	24-26	895	840	800	32	24-30	910	840	795	39	24-36
800	470	975	920	880	35	24-30	1015	950	905	35	24-33	1025	950	900	43	24-39
900	510	1075	1020	980	37	24-30	1115	1050	1050	37	28-33	1125	1050	1000	46	28-39
1000	550	1175	1120	1080	40	28-30	1230	1160	1110	40	28-36	1255	1170	1115	50	28-42
1200	630	1405	1340	1295	45	32-33	1455	1380	1330	45	32-39	1485	1390	1330	57	32-48

Note* All dimensions are in mm.
 Our firm reserve to apply modifications without any information.
 Dimensions can vary due to cast molding.
 All dimensions are subject to tolerance equal to 10%

GVMS METAL SEATED GATE VALVE OVAL BODY RISING STEM

Conform to EN 1074-1/2 and BSEN 1171, Face to Face EN 558 Serie 15 Oval body, Flanges according EN 1092-2, Test conform to EN 12266-, max working Temperature 80°.



DN	L	PN 10					PN 16					PN 25				
		D	D1	D2	b	n-d	D	D1	D2	b	n-d	D	D1	D2	f	n-d
40	240	150	110	88	18	4-18	150	110	88	18	4-18					
50	250	165	125	102	19	4-18	165	125	102	19	4-18	165	125	99	19	4-19
65	265	185	145	122	19	8-18	185	145	122	19	8-18					
80	280	200	160	138	19	8-18	200	160	138	19	8-18	200	160	132	19	8-19
100	300	220	180	158	19	8-18	220	180	158	19	8-18	235	190	156	19	8-23
125	325	250	210	188	19	8-18	250	210	188	19	8-18					
150	350	285	240	212	19	8-22	285	240	212	19	8-22	300	250	211	20	8-28
200	400	340	295	268	20	8-22	340	295	268	20	12-22	360	310	274	22	12-28
250	450	395	350	320	22	12-22	405	355	320	22	12-26	425	370	330	24	12-31
300	500	445	400	370	24	12-22	460	410	378	24	12-26	485	430	389	27	16-31
350	550	505	460	430	24	16-22	520	470	438	26	16-26	555	490	448	30	16-34
400	600	565	515	482	28	16-26	580	525	490	28	16-30	620	550	503	32	16-37
450	650	615	565	532	25	20-26	640	585	550	30	20-30	670	600	548	34	20-37
500	700	670	620	585	26	20-26	715	650	610	31	20-33	730	660	609	36	20-37
600	800	780	725	685	30	20-30	840	770	725	36	20-36	845	770	720	42	20-41
700	900	895	840	800	32	24-30	910	840	795	39	24-36	960	875	820	46	24-43
800	1000	1015	950	905	35	24-33	1025	950	900	43	24-39	1085	990	928	51	24-50
900	1100	1115	1050	1050	37	28-33	1125	1050	1000	46	28-39	1185	1090	1028	55	28-50
1000	1200	1230	1160	1110	40	28-36	1255	1170	1115	50	28-42	1320	1210	1140	60	28-56
1200	1400	1455	1380	1330	45	32-39	1485	1390	1330	57	32-48	1530	1420	1350	69	32-56
1400	1600	1675	1590	1530	46	36-44	1685	1590	1530	60	36-50					
1600	1800	1915	1820	1750	49	40-50	1930	1820	1750	65	40-56					
1800	2000	2115	2020	1950	52	44-50	2130	2020	1950	70	44-57					
2000	2200	2325	2230	2150	55	48-48	2345	2230	2150	75	48-62					

Note* All dimensions are in mm.
Our firm reserve to apply modifications without any information.
Dimensions can vary due to cast molding.
All dimensions are subject to tolerance equal to 10%

FAT TESTS

All Di Nicola GVMS Gate valves are subject to tests conforming to EN12266-1 hydraulic test and EN1074 before delivery , those tests consist in :

Hydraulic tests

- 1,5 PFA Body Test (open);
- 1,1 PFA Shell Test (closed).

Coating or painting tests

- Thickness Test
- Integrity Test

Certificates issued by the manufacturer :

- EN 1074-1 e 2
- EN 9712 Dimensional and coating check
- EN 10204 3.1 materials certificate
- EN 12266-1 hydraulic test

Face to Face :

- ISO 5752 serie 15 e serie 14
- EN 558 serie 15 e serie 14

Flange drilling :

- EN 1092-2
- EN 7005-2
- ANSI B16.5

Marking EN19:

- Nominal Diameter in mm (DN);
- Nominal pressure in bar (PN);
- Body Material .

NOTES FOR DIMENSIONING

Any gate valve must be selected and dimensioned according two main parameters , pipeline nominal diameter and working pressure conditions.

Particular attention should be taken on max velocity of the fluid in the pipeline and on fluid temperature.

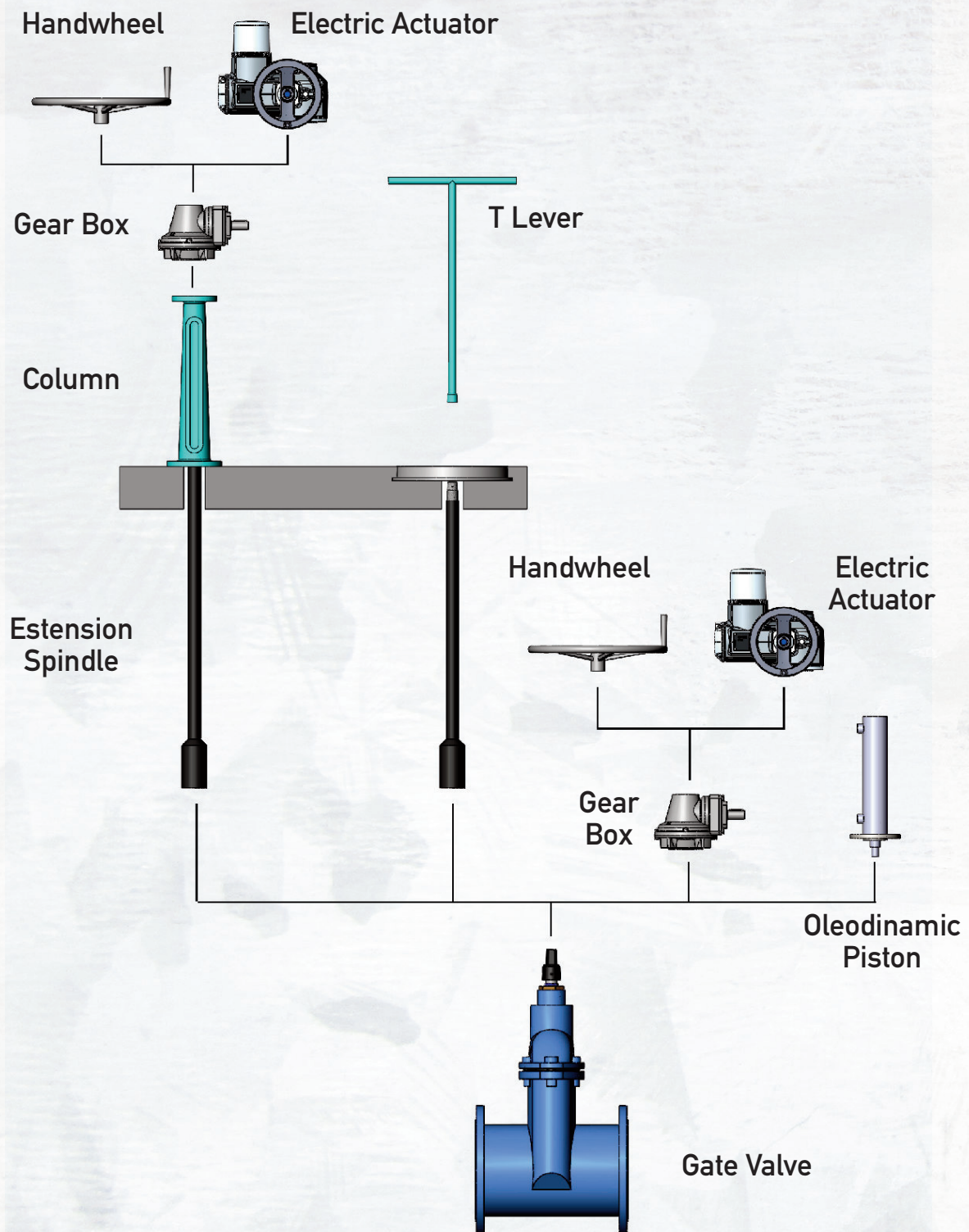
Di Nicola optimum conditions for operation is max fluid velocity $\leq 4\text{m/sec.}$ and fluid temperature between 0° and 70° in vertical installation. Any deviance should be discussed with manufacturer to ensure correct operation.

Manufacturer can suggest different materials and accessories to avoid malfunctioning.

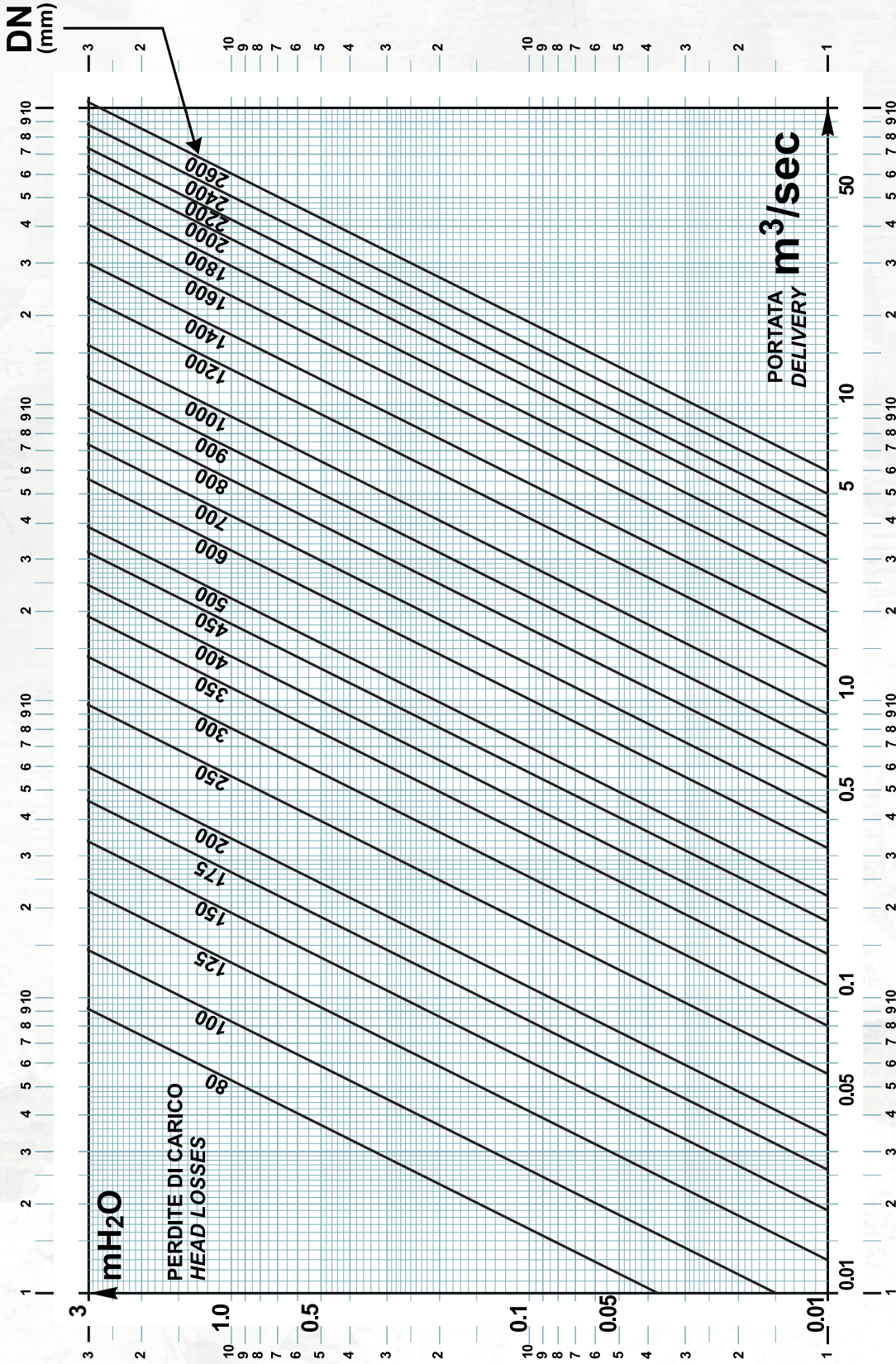
Note* All dimensions are in mm.
Our firm reserve to apply modifications without any information.
Dimensions can vary due to cast molding.
All dimensions are subject to tolerance equal to 10%

GATE VALVES ACCESSORIES

Di Nicola Gate valves can be supplied with many different accessories for operation in line and buried applications. Beside common accessories here proposed Di Nicola develop new accessories tailor suit for its customers and their special applications. For any technical suggestion we ask you to contact our sales department to help you in developing new accessories.



GATE VALVES - DIAGRAM FLOW / HEAD LOSS



1 Bar = 10 mH₂O

The present diagram is suitable for metal seated gate valves in following working conditions:

Operating pressure from 0 to 16 Bar

Operating temperature from 10° till 50°

HYDRAULIC CHARACTERISTICS

The gate valve pressure drop (delta P) can be expressed through the flow coefficient Kv . Kv coefficient is related to the water flow value , at a fixed temperature of 20° C, able to generate an head loss equal to 1 bar through the gate valve.

GATE VALVES - KV VALUES

DN (inches)	2"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"	28"	32"	36"	40"
Kv (PN 16)	380	59C	980	1380	2100	3940	6240	9200	12480	15770	20370	25630	36150	49290	62440	80840	104500
Kv (PN 25)	330	52C	860	1210	1850	3470	5490	8090	10980	13880	17930	22550	31810				
Kv (PN 40)	320	50C	830	1170	1790	3360	5320	7840	10650	13460	17390	21870	30850				

$$Q = K_v \times \sqrt{\frac{\Delta P \times 1000}{D}}$$

Where:

Q = Valve flow rate in cubic meters per hour (m³/h)

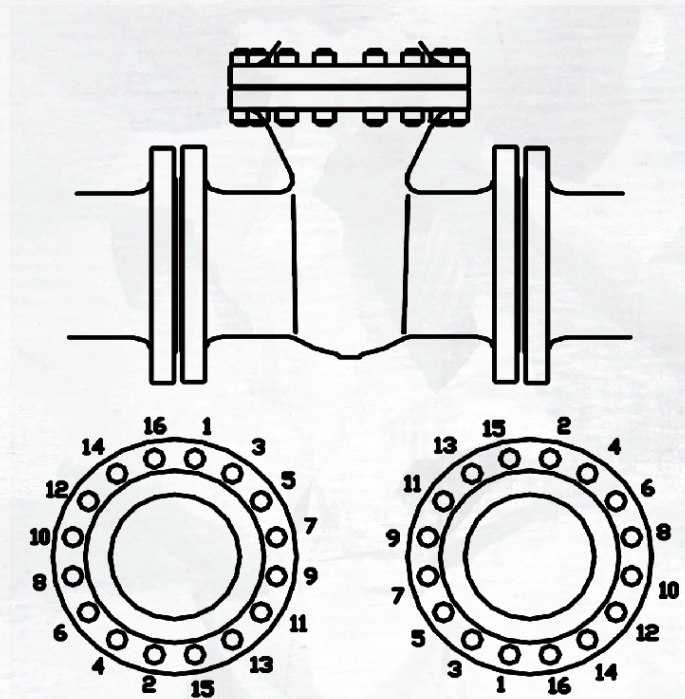
Δ P = pressure drop across the valve in Bar
1000 = Conversion factor for fluids computed in relation to water

D = Density of fluids in kilograms per cubic meter (kg/m³)



GATE VALVE ASSEMBLY PROCEDURE

Gate valves must be assembled to the pipeline by tightening the bolts crosswise, alternating the bolt of a flange with one of the other.



BOLTS TIGHTENING TORQUE VALUES (Nm)				
Bolt Diameter	1.7225	1.7711	1.4301	1.4401
M 10	62	60	16	17
M 12	109	104	28	30
M 14	173	166	45	47
M 16	270	258	70	74
M 18	371	356	97	102
M 20	526	504	137	144
M 22	715	686	186	196
M 24	909	872	237	249
M 27	1.330	1275	346	364
M 30	1.806	1732	470	495
M 33	2.458	2357	640	673



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