

RESILIENT SEAT GATE VALVE PN10/16 SHORT PATTERN DIN 3202-F4 CTC EPDM ACS

Resilient seat gate valve full and total bore for drinking water, water distribution.

Sliding pad to facilitating the wedge movement up to DN200.

3 NBR O ring on stem and NBR bonnet gasket.

Possibility to change stem gasket under pressure from DN80 to DN1000

EN 1074



Certificate
3.1



Size : DN40 to DN1000

Connection : Flanges PN10/16

Min Temperature : -10°C

Max Temperature : +70°C

Max Pressure : 16 Bars up to DN400, 10 bars over

Specifications : Non rising stem
Clockwise to close (CTC)
Full and total bore

Materials : Ductile iron body EN GJS-500-7

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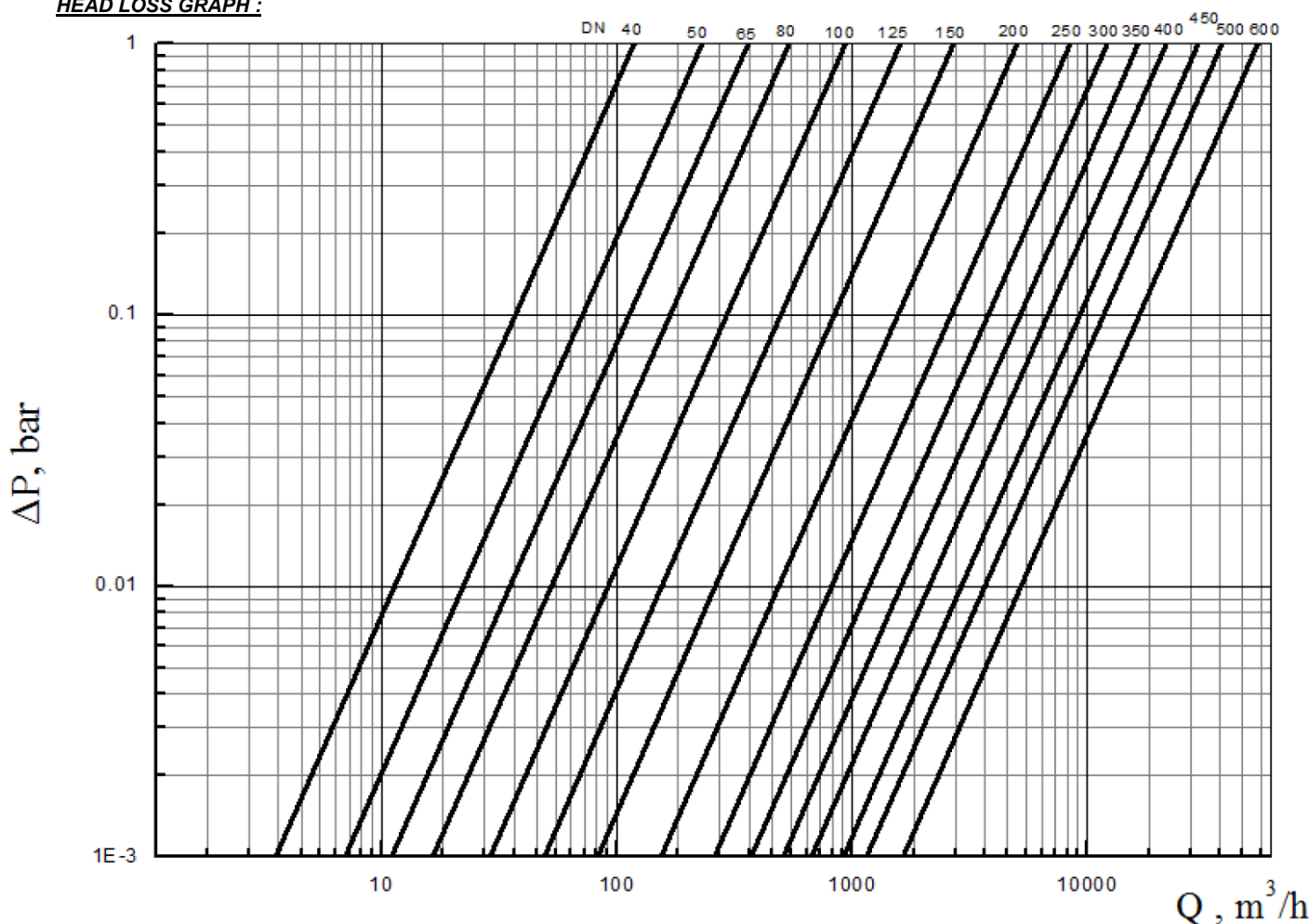
SPECIFICATIONS :

- Full and total bore
- Stainless steel non rising stem
- Clockwise to close (CTC)
- Sliding pad (to facilitating the wedge movement) up to DN200
- Ductile iron wedge EPDM ACS
- No retention area
- Heel positioning
- NBR bonnet gasket
- Screws bonnet protected
- 3 NBR O ring on stem
- Possibility to change stem gasket under pressure from DN80 to DN1000
- Epoxy painting RAL 5005 color 250 µm thickness GSK certified
- Dust-coat on stem
- PN10/16 flanges R.F.

USE :

- For water distribution, drinking water
- Min and max Temperature Ts : - 10°C to + 70°C
- Max pressure Ps : 16 bars for PN16 flanged valves up to DN400
- Max pressure Ps : 10 bars for PN10 flanged valves from DN200 to 1000

HEAD LOSS GRAPH :



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FLOW COEFFICIENT Kvs (M3 / h) :

DN	40	50	65	80	100	125	150	200	250	300
Kvs (m3/h)	118	229	360	537	933	1595	2685	5004	8393	12072

DN	350	400	450	500	600	700	800	900
Kvs (m3/h)	16348	21528	29372	37117	52626	66733	92011	161440

HEAD LOSS CALCULATION FOR WATER :

$$\Delta p = (Q / Kvs)^2$$

Q : flow in m³/h

Δp : Head loss in bar

TORQUE VALUE (in Nm without safety coefficient) :

DN	40	50	65	80	100	125	150	200	250	300
Torque (Nm)	15	20	20	30	40	40	75	125	175	200

DN	350	400	450	500	600	700	800
Torque (Nm)	325	350	430	460	480	1100	1250

NUMBER OF CYCLES TO CLOSE OR OPEN THE VALVE :

DN	40	50	65	80	100	125	150	200	250	300
Number of cycles	13	14.5	18.75	21.5	21.5	24.5	30	34	45.25	49.75

DN	350	400	450	500	600	700	800	1000
Number of cycles	55	61	52	57	66	72	82	102

GEARBOX SPECIFICATIONS :

DN	500	600	700	800	1000
Ref.	9801600	9801601	9801602	9801603	
Ratio factor	4.5 : 1	4.5 : 1	4.5 : 1	4.5 : 1	5.22 : 1
Number of cycles to close or to open the valve	256.5	297	324	369	532.4
Input torque (Nm)	107	167	245	277	380
Max Output torque (Nm)	900	1500	1500	1500	2800

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RANGE :

- Ductile iron body with PN10/16 flanges R.F. and handwheel with EPDM ACS wedge **Ref. 181** from DN 40 to DN 400
- Ductile iron body with PN10 flanges R.F. and handwheel with EPDM ACS wedge **Ref. 181** DN 450 and 500
- Ductile iron body with PN10 flanges R.F. and gearbox with EPDM ACS wedge **Ref. 181** from DN 600 to 1000

ACCESSORIES :



- Possible with square drive nut (option) **Ref. 9801831-9801838**



- Possible with gearbox (on request) from DN500 to DN800 **Ref. 9801600-9801603**
- Stem extension 1 meter long **Ref. 9802020** from DN50 to DN300 and **Ref. 9802029** from DN350 to DN400
- Stem extension 1,25 meter long **Ref. 9802031** from DN50 to DN300 and **Ref. 9802040** from DN350 to DN400



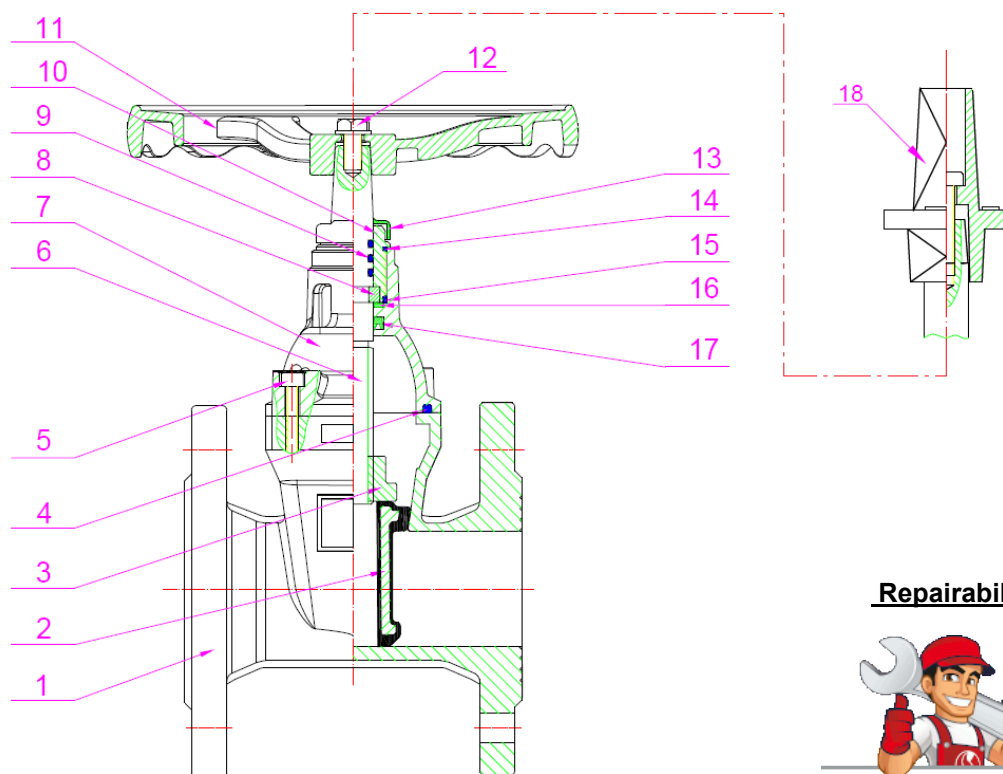
- Stem extension 1,5 meter long **Ref. 9802042** from DN50 to DN300 and **Ref. 9802051** from DN350 to DN400
- Stem extension 1,3 to 1,8 meter long **Ref. 9802060** from DN50 to DN200



- Stem extension 2 to 2,5 meter long **Ref. 9802070** from DN50 to DN200
- Tee key
 - 1 meter long square 35 mm **Ref.9802080** from DN50 to DN300
 - 1.8 meter long square 35 mm **Ref.9802081** from DN50 to DN300
 - 1 meter long square 35 mm **Ref.9802082** from DN350 to DN400

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MATERIALS DN40-65 :



Repairability :

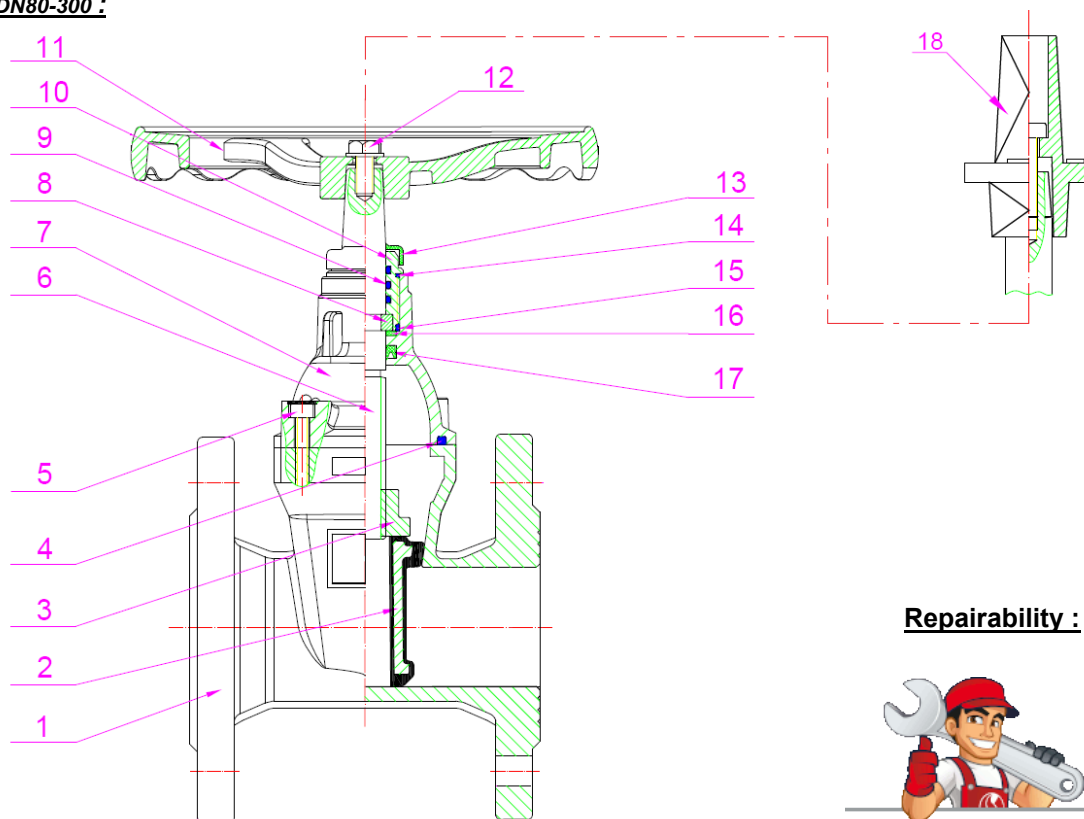


Item	Designation	Materials DN40-65
1	Body	Ductile iron EN GJS-500-7
2	Wedge	Ductile iron EN GJS-500-7 + EPDM
3	Stem nut	Brass CuZn40Pb3
4*	Gasket bonnet	NBR
5	Bonnet screw	AISI 304
6	Stem	AISI 304
7	Bonnet	Ductile iron EN GJS-500-7
8	Holding ring	Brass CuZn39Pb2
9	O ring	NBR
10	Pusher nut	Brass CuZn39Pb2
11	Handwheel	Ductile iron EN GJS-500-7
12	Handwheel screw	AISI 304
13*	Dust-coat	NBR
14	O ring	NBR
15	O ring	NBR
16	Ring	Nylon 66
17	Auto sealing ring	NBR
18	Square drive nut	Ductile iron EN GJS-500-7

*Gaskets refs		
DN (mm)	Bonnet gasket (4)	Dust-coat (13)
40	9801260	9802123
50	9801261	
65	9802162	

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MATERIALS DN80-300 :



Repairability :

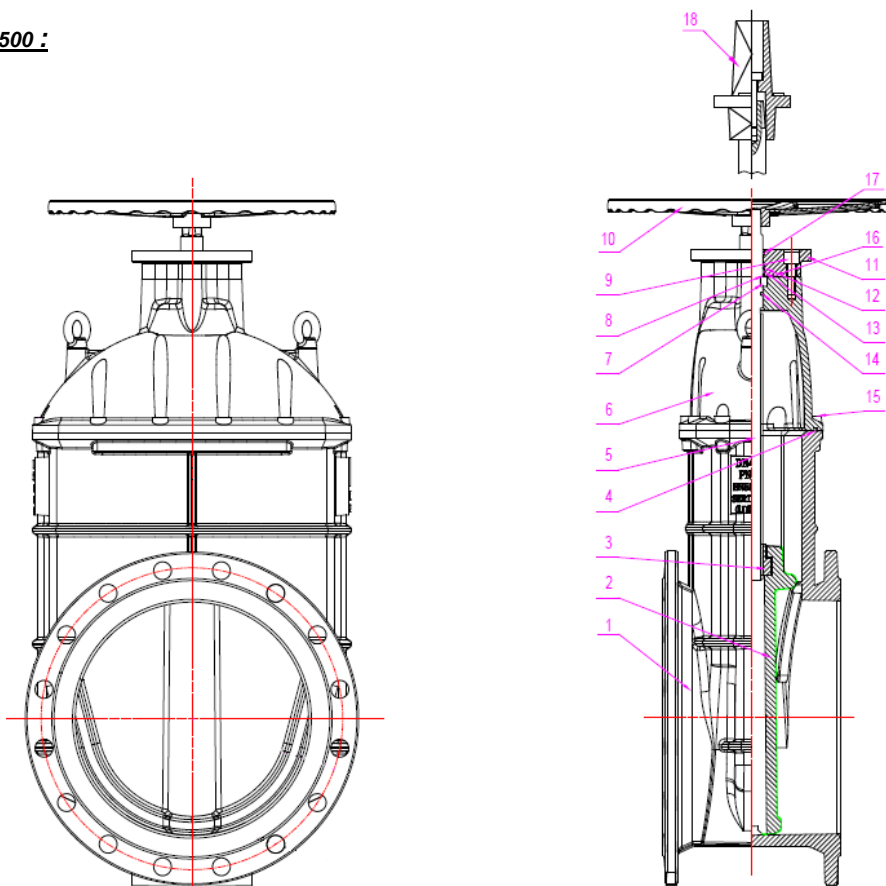


Item	Designation	Materials DN80-300
1	Body	Ductile iron EN GJS-500-7
2	Wedge	Ductile iron EN GJS-500-7 + EPDM
3	Stem nut	Brass CuZn40Pb3
4*	Gasket bonnet	NBR
5	Bonnet screw	AISI 304
6	Stem	AISI 304
7	Bonnet	Ductile iron EN GJS-500-7
8	Holding ring	Brass CuZn39Pb2
9	O ring	NBR
10	Pusher nut	Brass CuZn39Pb2
11	Handwheel	Ductile iron EN GJS-500-7
12	Handwheel screw	AISI 304
13*	Dust-coat	NBR
14	O ring	NBR
15	O ring	NBR
16	Ring	Nylon 66
17	Auto sealing ring	NBR
18	Square drive nut	Ductile iron EN GJS-500-7

*Gaskets refs		
DN (mm)	Bonnet gasket (4)	Dust-coat (13)
80	9802163	9802124
100	9802164	9802125
125	9802165	
150	9802166	
200	9802167	9802126
250	9802168	9802127
300	9802169	9802128

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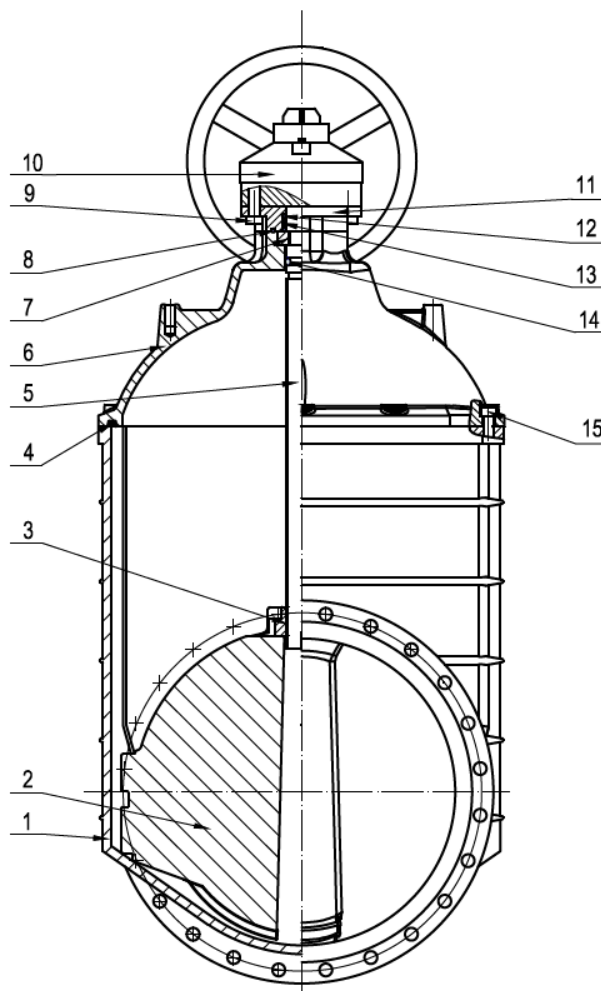
MATERIALS DN350-500 :



Item	Designation	Materials DN350-500
1	Body	Ductile iron EN GJS-500-7
2	Wedge	Ductile iron EN GJS-500-7 + EPDM
3	Stem nut	Brass CuZn39Pb2
4	Bonnet gasket	NBR
5	Stem	AISI 304
6	Bonnet	Ductile iron EN GJS-500-7
7	Holding ring	Brass CuZn39Pb2
8	O ring	NBR
9	Screw	AISI 304
10	Handwheel	Ductile iron EN GJS-500-7
11	Gland	Ductile iron EN GJS-500-7
12	O ring	NBR
13	Ring	Nylon 66
14	O ring	NBR
15	Bonnet bolt	AISI 304
16	O ring	NBR
17	Dust-coat	NBR
18	Square drive nut	Ductile iron EN GJS-500-7

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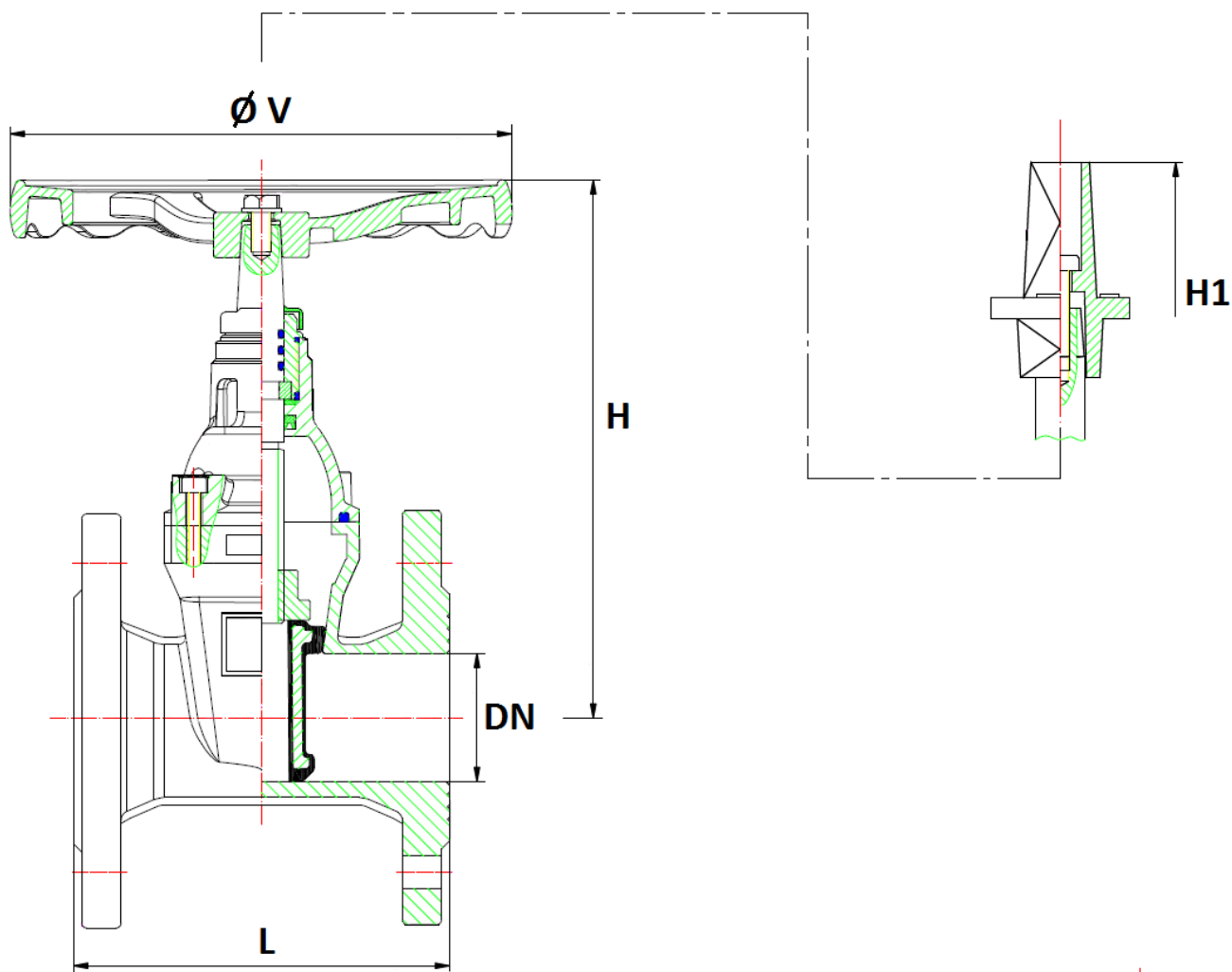
MATERIALS DN600-1000 :



Item	Designation	Materials DN600-1000
1	Body	Ductile iron EN GJS-500-7
2	Wedge	Ductile iron EN GJS-500-7 + EPDM
3	Stem nut	Brass CuZn39Pb2
4	Bonnet gasket	NBR
5	Stem	AISI 304
6	Bonnet	Ductile iron EN GJS-500-7
7	Holding ring	Brass CuZn39Pb2
8	O ring	NBR
9	Screw	AISI 304
10	Wheel	
11	Gland	Ductile iron EN GJS-500-7
12	O ring	NBR
13	Ring	Nylon 66
14	O ring	NBR
15	Bolt bonnet	AISI 304

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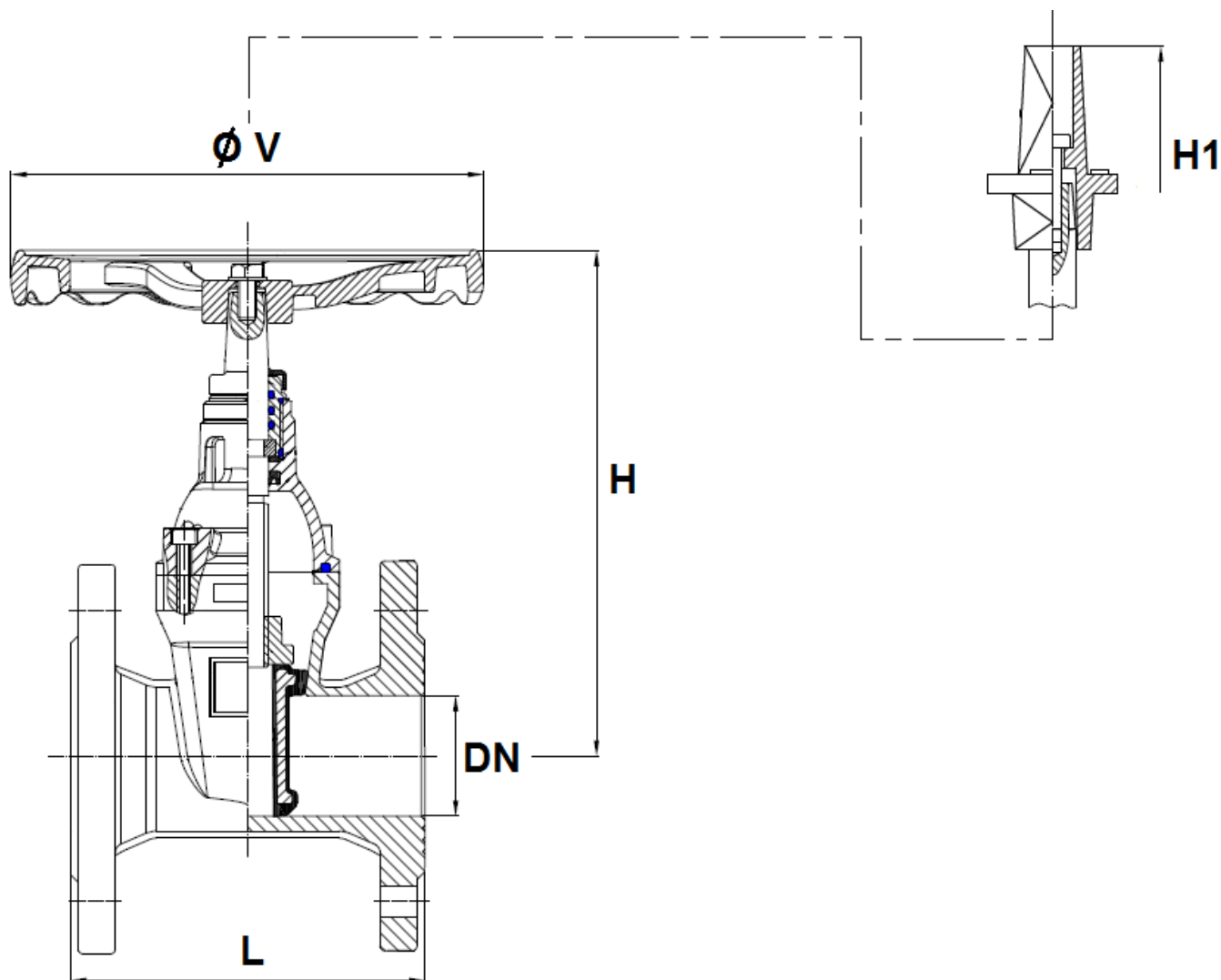
HANDWHEEL VALVE SIZE DN 40 - 65 (in mm) :



DN	40	50	60/65
L	140	150	170
H	190	215	235
H1	260	285	300
Ø V	200	200	200
Weight (in Kg)	7.37	8.56	12
Ref.	181040	181050	181066

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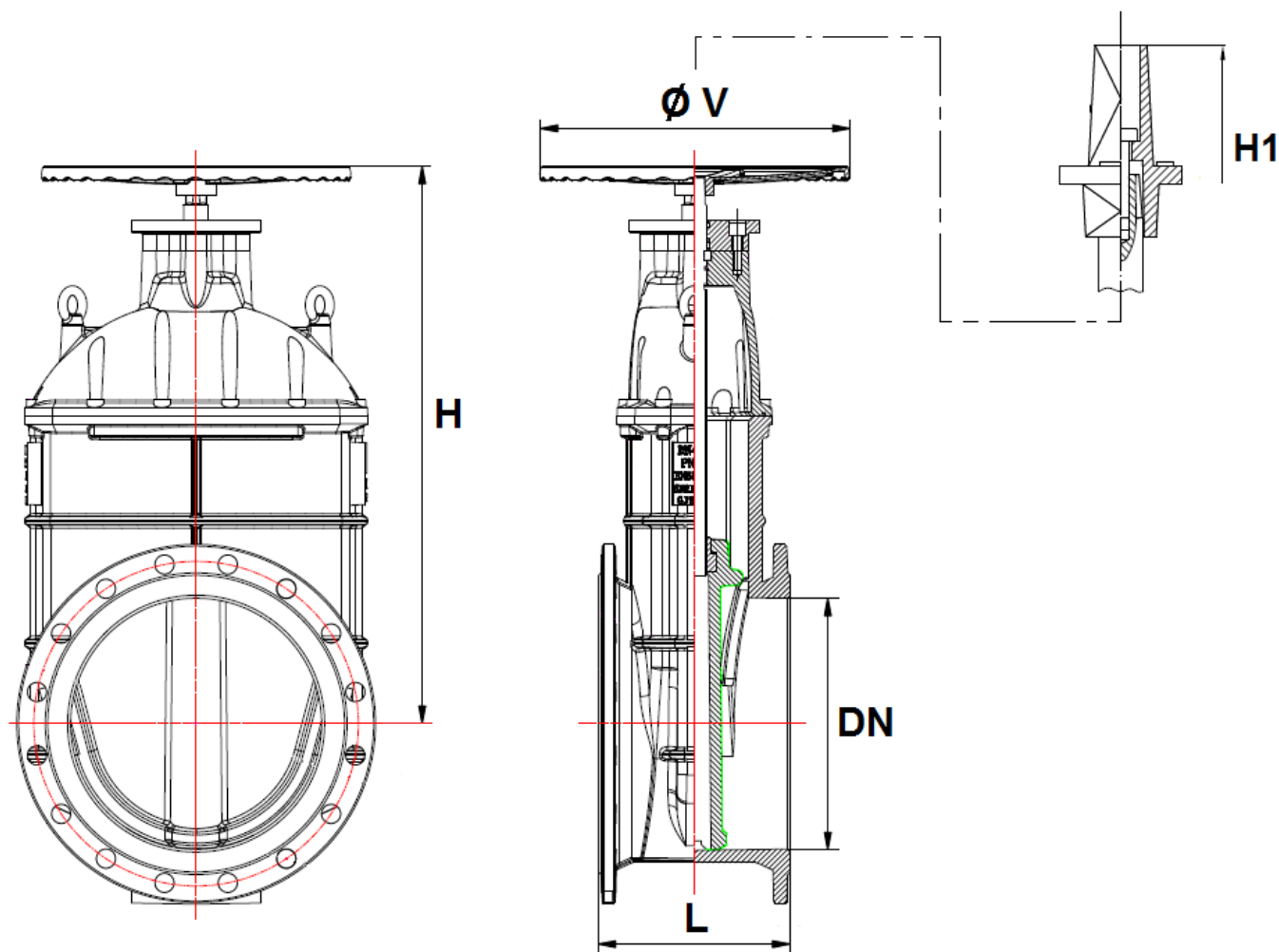
HANDWHEEL VALVE SIZE DN 80 - 300 (in mm) :



DN	80	100	125	150	200	250	300
L	180	190	200	210	230	250	270
H	265	315	350	385	485	600	680
H1	320	390	430	470	560	680	770
Ø V	254	254	315	315	315	406	406
Weight (Kg)	14	19.90	24.20	31.80	49.40	84.70	106
Ref.	181080	181100	181125	181150	181200	181250	181300

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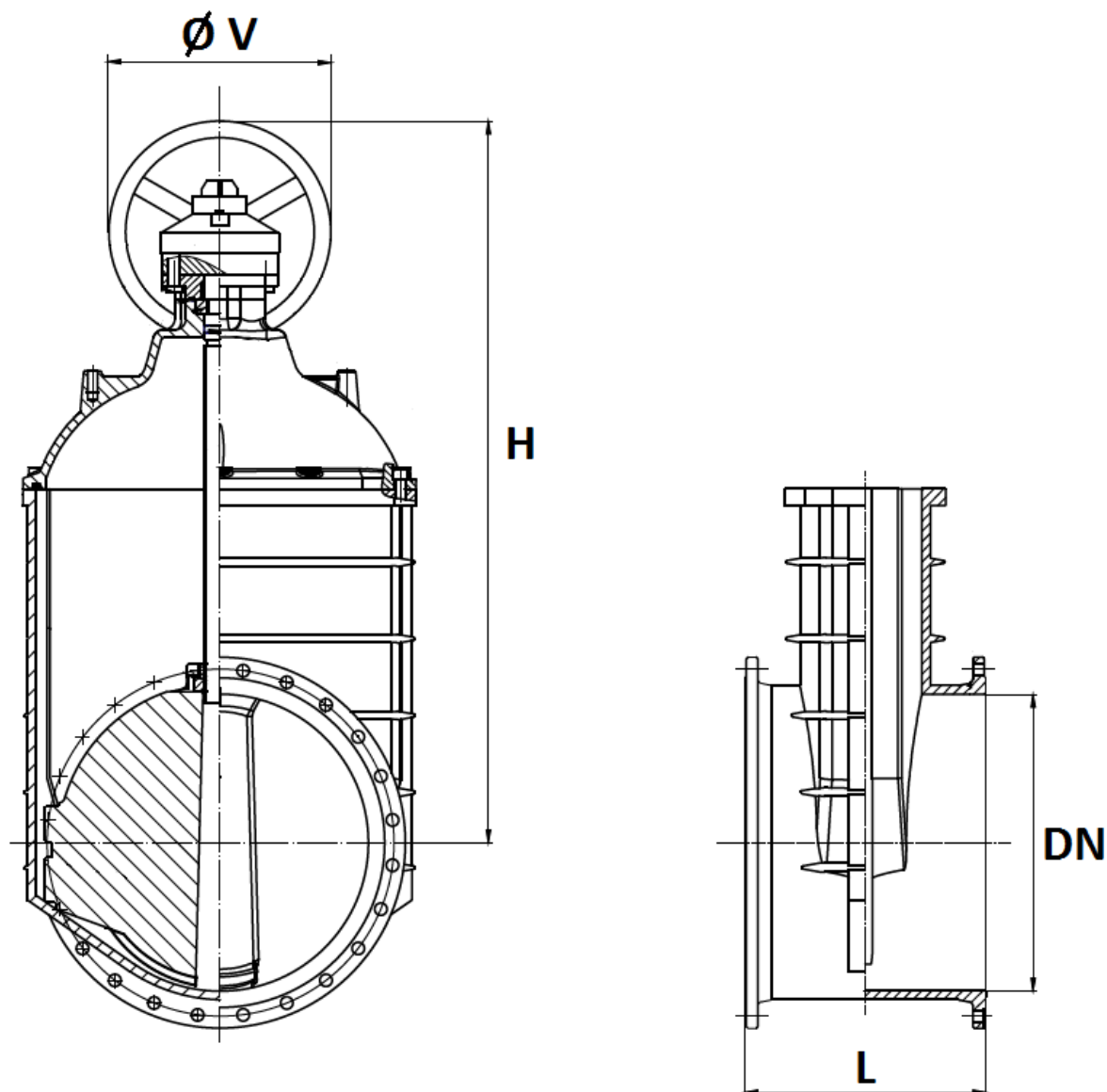
HANDWHEEL VALVE SIZE DN 350 - 500 (in mm) :



DN	350	400	450	500
L	290	310	330	350
H	810	890	1050	1230
H1	900	1000	1150	1330
$\varnothing V$	500	500	500	650
Weight (in Kg)	185	228	360	419
Ref.	181350	181400	181450	181500

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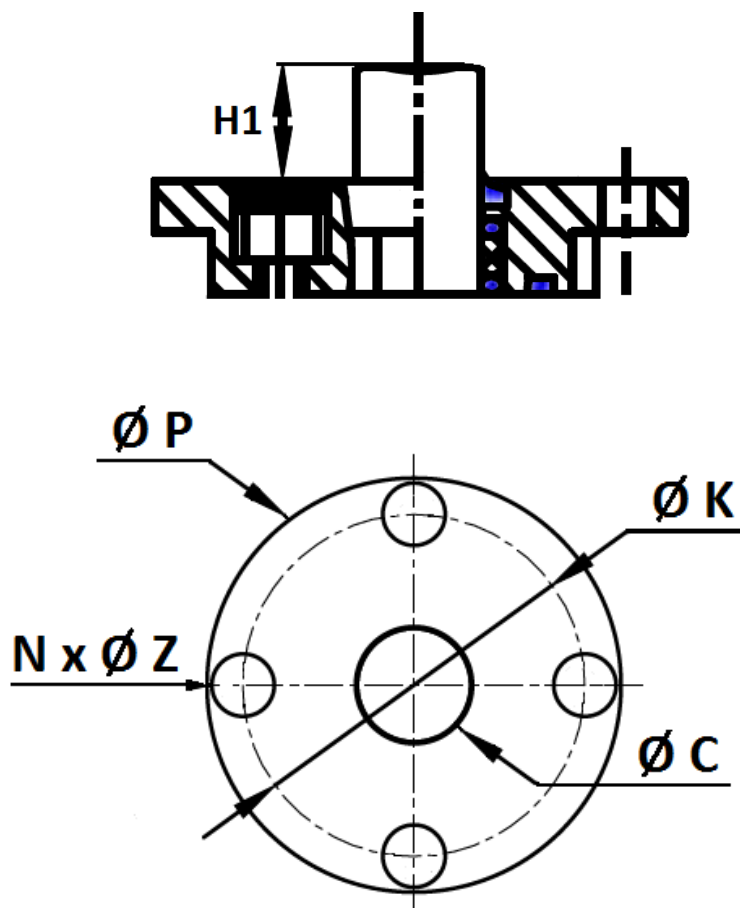
GEARBOX VALVE SIZE DN 600 - 1000 (in mm) :



DN	600	700	800	1000
L	390	430	470	550
H	1470	1640	1780	2350
Ø V	500	500	500	600
Weight (in Kg)	655	862	1024	2141
Ref.	181600	181700	181800	1811000

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STEM AND ISO MOUNTING PAD SIZE DN350-1000 (in mm) :

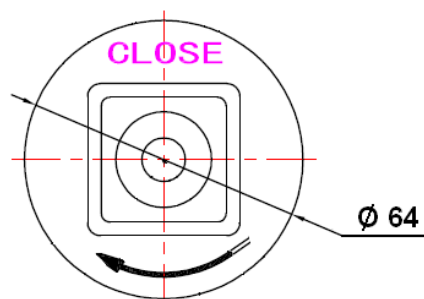
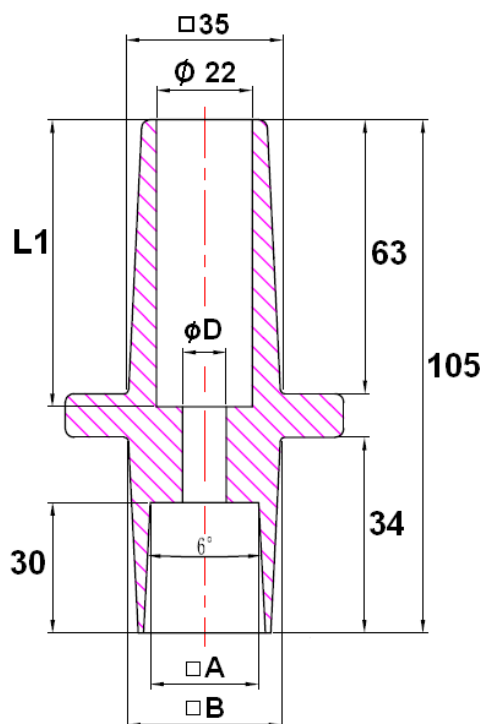


DN	350	400	450	500	600	700	800	1000
H1	60	60	80	80	80	80	80	100
Ø C	40	40	55	55	55	65	65	75
Ø P	210	210	210	300	300	300	300	350
Ø K	165	165	165	254	254	254	254	298
ISO	F16	F16	F25	F25	F25	F25	F25	F30
N x Ø Z	4 x 23	4 x 23	8 x 18	8 x 18	8 x 18	8 x 18	8 x 18	8 x 23

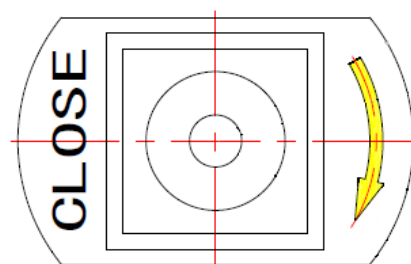
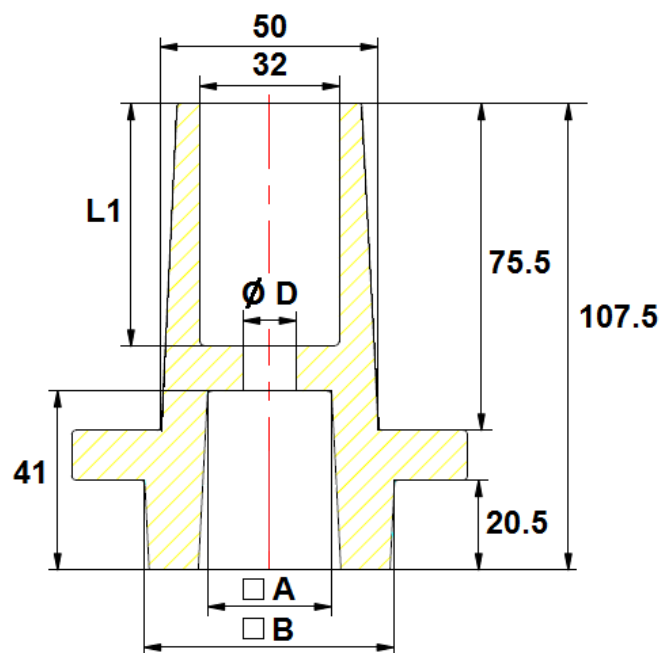
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SQUARE DRIVE NUT SIZE (in mm) :

DN 40 – 300



DN 350 - 400

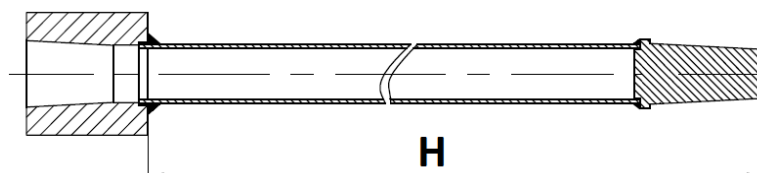


DN	40	50	65	80	100	125	150	200	250	300	350	400
A	14	14	14	17	17	19	19	19	24	24	28.5	28.5
B	34	34	34	34	34	36	36	36	42.5	42.5	57.5	57.5
L1	66	66	66	63	63	63	63	63	63	63	56	56
Ø D	10	10	10	10	10	10	10	10	12	12	12	12
Weight (Kg)	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.96	0.96
Ref.	9801831	9801831	9801831	9801832	9801832	9801833	9801833	9801833	9801834	9801834	9801838	9801838

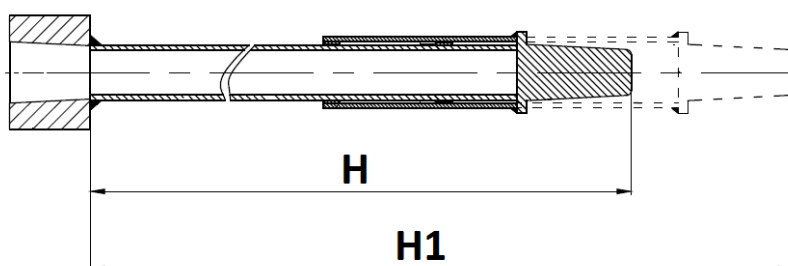
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STEM EXTENSION SIZE DN50-400 (in mm) :

FIXED TYPE



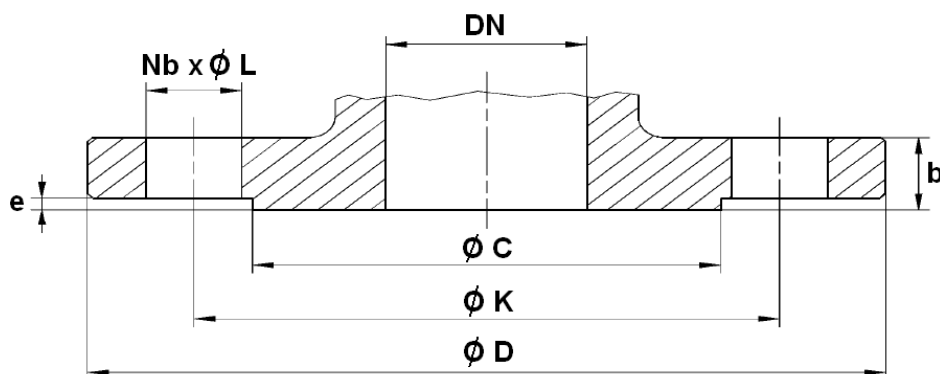
TELESCOPIC TYPE



Ref.	DN	H	H1	Weight (Kg)
9802020	50-300	1000	-	3.7
9802031	50-300	1250	-	4.2
9802042	50-300	1500	-	4.5
9802060	50-200	1300	1800	9.6
9802070	50-200	2000	2500	11.8
9802029	350-400	1000	-	5.7
9802040	350-400	1250	-	6.5
9802051	350-400	1500	-	7.4

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FLANGES PN10 SIZE (in mm) :



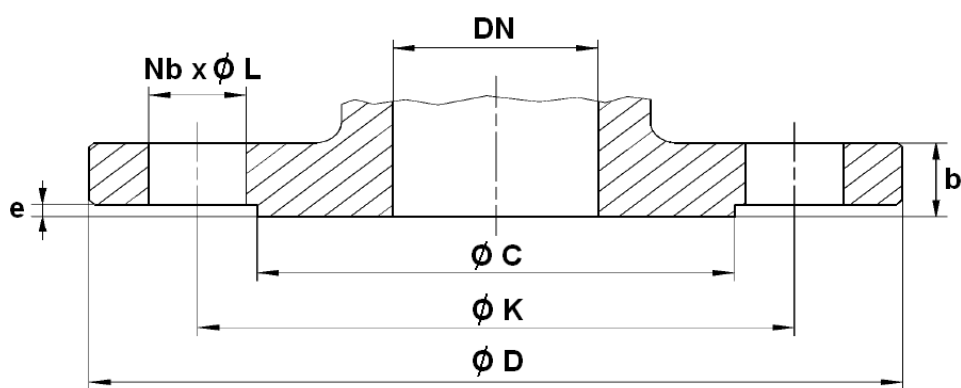
* DN60/65 double drilling

PN	PN10/16								PN10		
DN	40	50	60/65*	65	80	100	125	150	200	250	300
Ø C	84	99	114	118	132	156	184	211	266	319	370
Ø D	150	165	185	185	200	220	250	285	340	405	460
Ø K	110	125	135/145	145	160	180	210	240	295	350	400
Nb x Ø L	4 x 19	4 x 19	4 x 19	4 x 19	8 x 19	8 x 19	8 x 19	8 x 23	8 x 23	12 x 23	12 x 23
b	19	19	19	19	19	19	19	19	20	22	24.5
e	3	3	3	3	3	3	3	3	3	3	4
Ref.	181040	181050	181066	181065	181080	181100	181125	181150	181200	181250	181300

PN	PN10							
DN	350	400	450	500	600	700	800	1000
Ø C	429	480	530	582	682	794	901	1112
Ø D	520	580	640	715	840	910	1025	1255
Ø K	460	515	565	620	725	840	950	1160
Nb x Ø L	16 x 23	16 x 28	20 x 28	20 x 28	20 x 31	24 x 31	24 x 33	28 x 37
b	26.5	28	30	31.5	36	39.5	43	50
e	4	4	4	4	5	5	5	5
Ref.	181350	181400	181450	181500	181600	181700	181800	1811000

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FLANGES PN16 SIZE (in mm) :



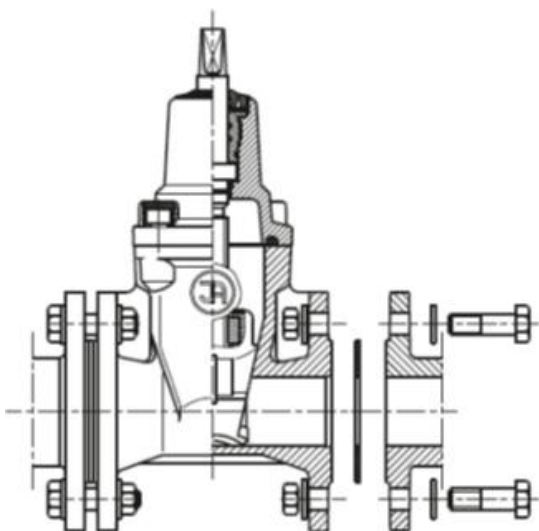
PN	PN16				
DN	200	250	300	350	400
Ø C	266	319	370	429	480
Ø D	340	405	460	520	580
Ø K	295	355	410	470	525
Nb x Ø L	12 x 23	12 x 28	12 x 28	16 x 28	16 x 31
b	20	22	24.5	26.5	28
e	3	3	4	4	4
Ref.	181201	181251	181301	181351	181401

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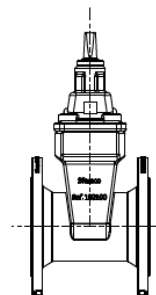
STANDARDS :

- Manufacturer certified ISO 9001 :2015 and ISO 14001 : 2015
- DIRECTIVE 2014/68/EU : For liquids of Group 2
 - Products excluded (article 1, § 2b)
- Certificate 3.1 on request
- Designing according to DIN EN 1171
- Pressure tests according to EN 12266-1, Rate A
- Length according to EN 558 series 14 (DIN 3202 F4)
- Flanges according to EN 1092-2 PN10/16
- English water agreement WRAS for the wedge EPDM coated from DN50 to 500
- French water agreement **A.C.S. N° 25 ACC LY 560**
- **GSK** Certified Epoxy Powder Coating

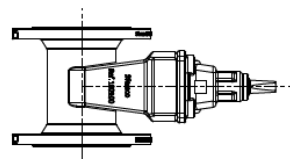
INSTALLATION POSITIONS :



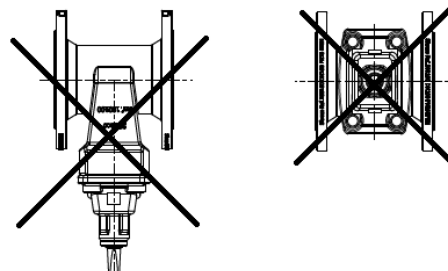
Recommended :



Acceptable :



Non acceptable :



ADVICE : Our opinion and our advice are not guaranteed and SFERACO shall not be liable for the consequences of damages. The customer must check the right choice of the products with the real service conditions.

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