

RESILIENT SEAT GATE VALVE PN10/16 LONG PATTERN DIN 3202-F5 ATC 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 DN600

EN 1074



Certificate

3.1



Size : DN40 to DN600

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

Anticlockwise to close (ATC)

Full and total bore

Materials : Ductile iron body EN GJS-500-7

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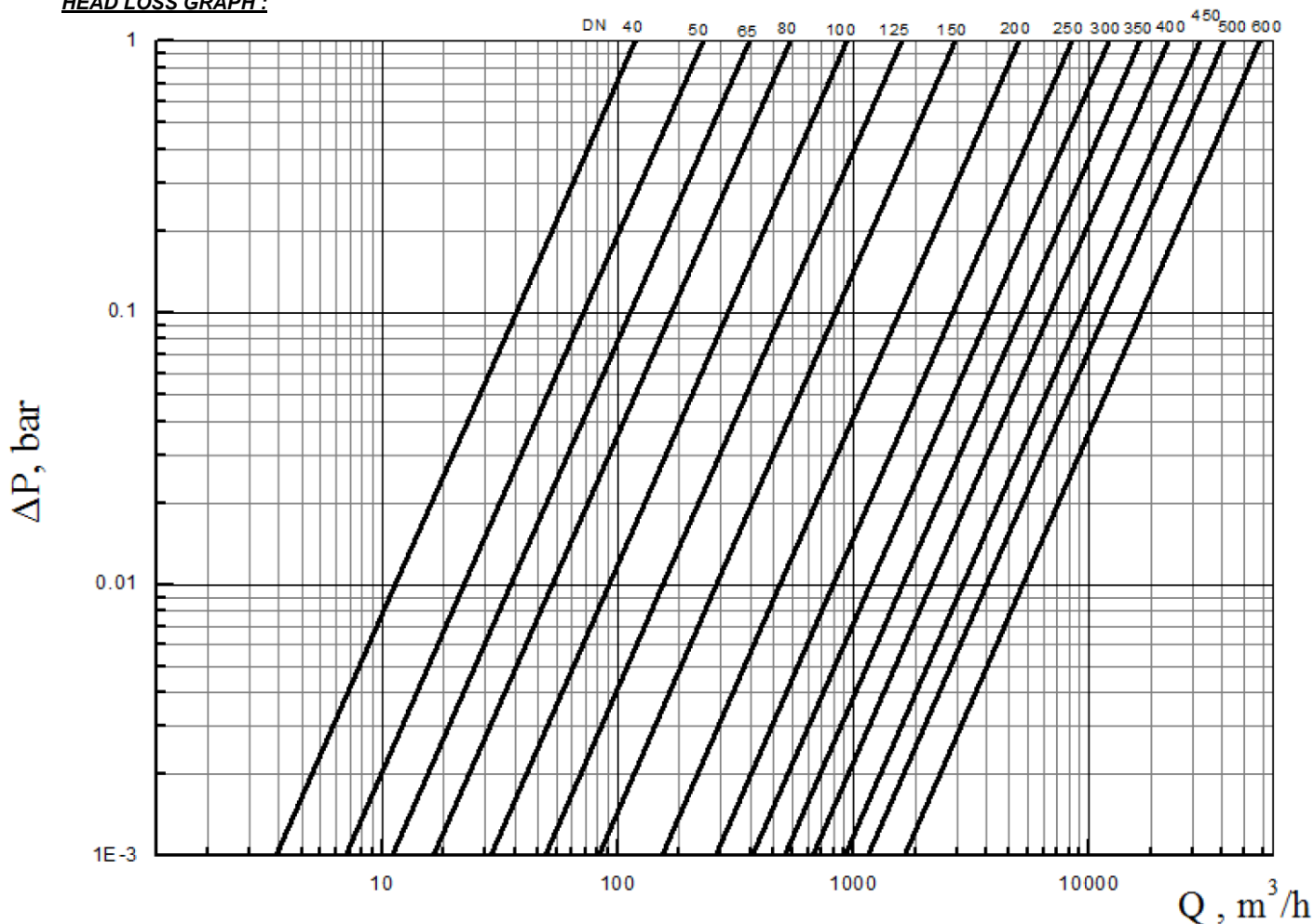
SPECIFICATIONS :

- Full and total bore
- Stainless steel non rising stem
- Anticlockwise to close
- Sliding pad (to facilitating the wedge movement) up to DN200
- Ductile iron wedge EPDM coated
- 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 600
- Epoxy painting RAL 5005 color 250 µm thickness
- Dust-coat on stem
- PN10/16 flanges R.F.
- With square drive nut

USE :

- For water distribution
- 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 600

HEAD LOSS GRAPH :



RESILIENT SEAT GATE VALVE PN10/16 LONG PATTERN DIN 3202-F5 ATC EPDM ACS
FLOW COEFFICIENT Kvs (M3 / h) :

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

DN	250	300	350	400	450	500	600
Kvs (m3/h)	8393	12072	16348	21528	29372	37117	52626

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
Torque (Nm)	325	350	430	460	480

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
Number of cycles	55	61	52	57	66

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RANGE :

- Ductile iron body flanged R.F. PN10/16 with square drive nut and ductile iron wedge EPDM coated **Ref. 185** from DN 40 to 600

ACCESSORIES :



- Possible with handwheel (option) from DN40 to DN400

DN	40	50	65	80	100	125	150	200	250	300	350	400
Ref.	9801590			9801591		9801592			9801593		9801599	



- 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

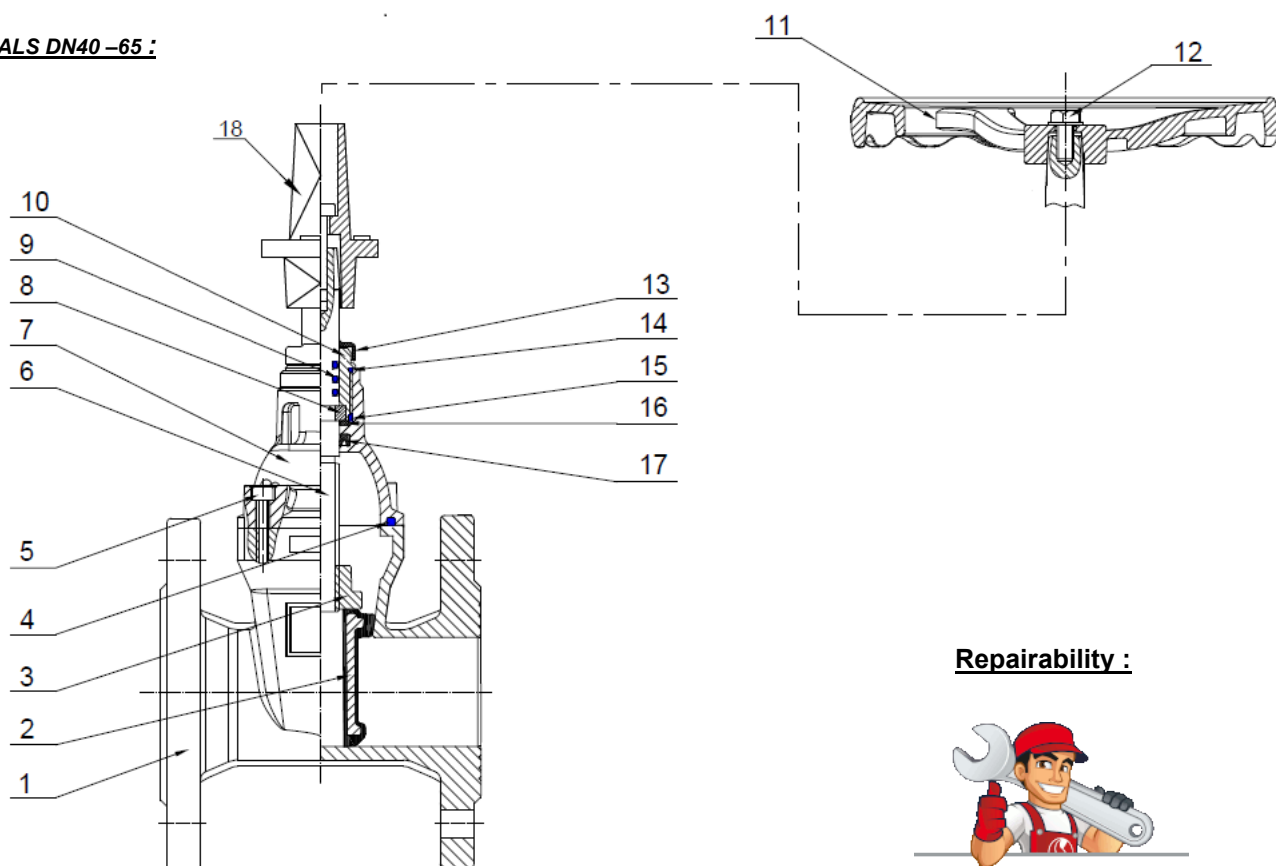
- Stem extension 2 to 2,5 meter long **Ref. 9802070** from DN50 to DN200



- 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 :

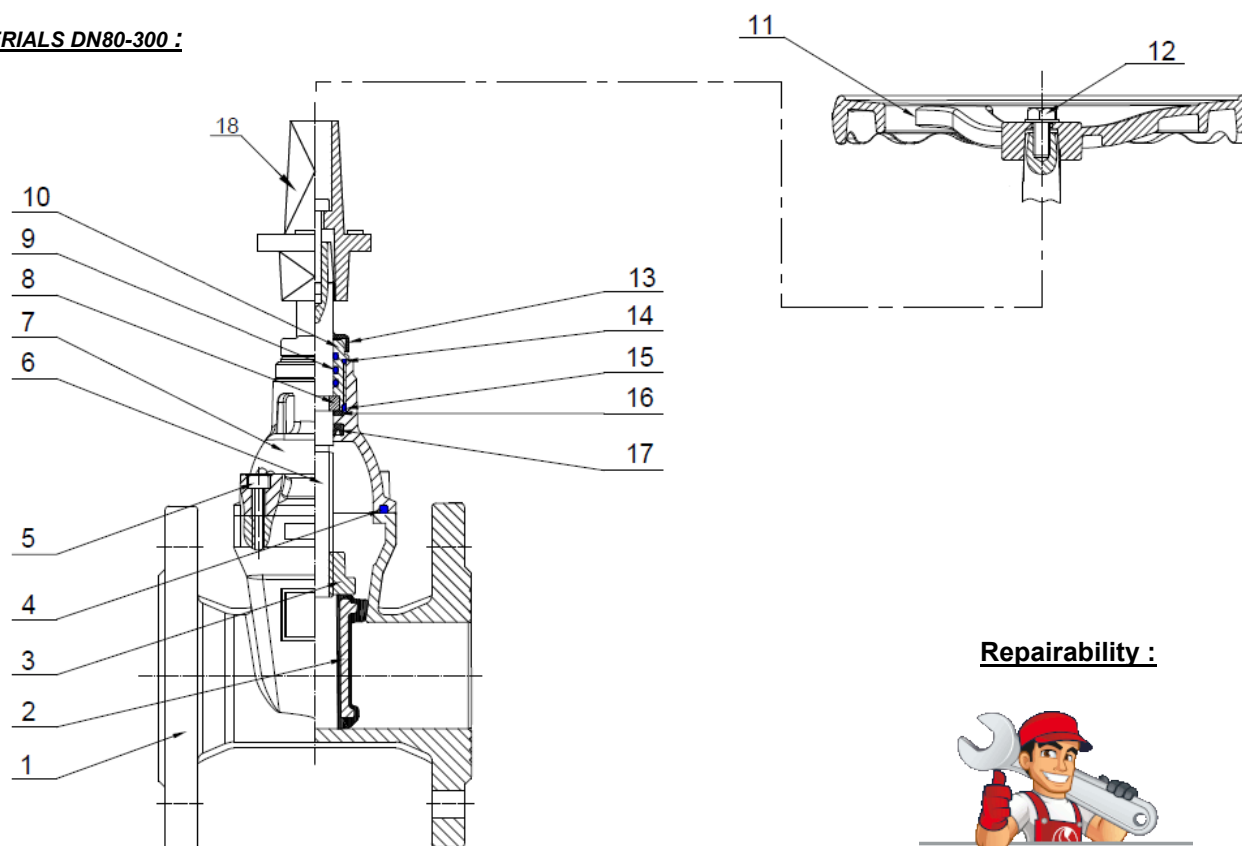


Item	Designation	Materials
1	Body	Ductile iron EN GJS-500-7
2	Wedge	Ductile iron EN GJS-500-7 EPDM coated
3	Stem nut	Brass CuZn39Pb2
4*	Bonnet gasket	NBR
5	Bonnet screw	C35
6	Stem	SS 420
7	Bonnet	Ductile iron EN GJS-500-7
8	Holding ring	Brass CuZn39Pb2
9	Stem O ring	NBR
10	Nut	Brass CuZn39Pb2
11	Handwheel	Ductile iron EN GJS-500-7
12	Handwheel screw	SS 304
13*	Dust-coat	NBR
14	Stem O ring	NBR
15	Stem 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 :

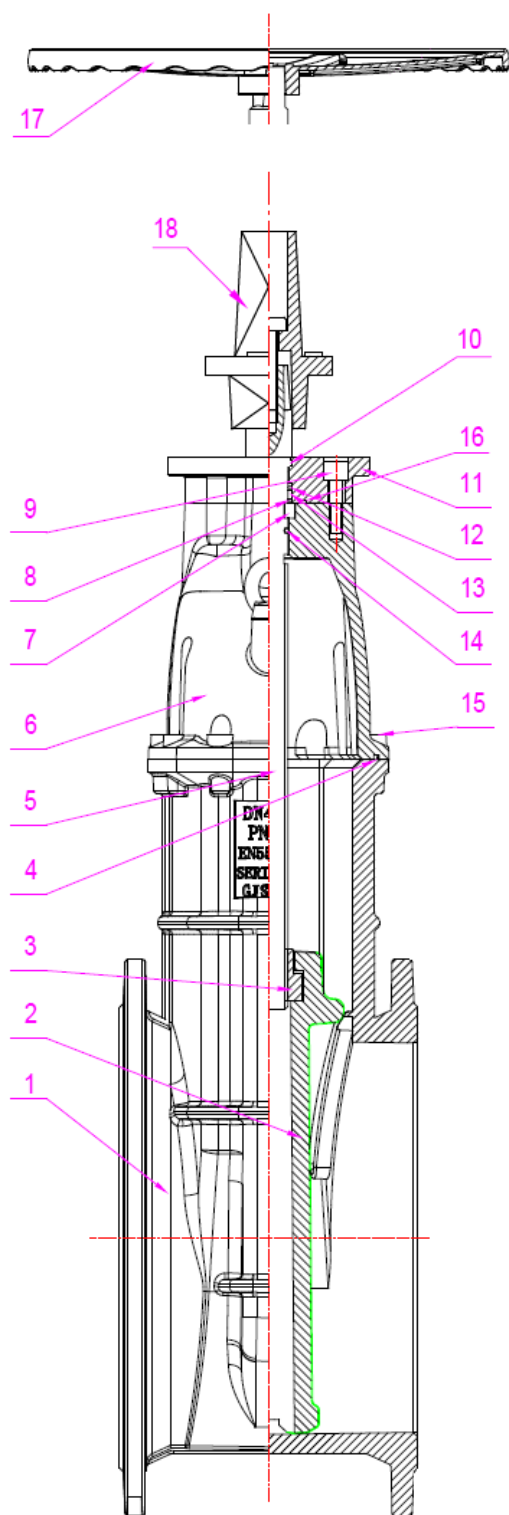


Item	Designation	Materials
1	Body	Ductile iron EN GJS-500-7
2	Wedge	Ductile iron EN GJS-500-7 EPDM coated
3	Stem nut	Brass CuZn39Pb2
4*	Bonnet gasket	NBR
5	Bonnet screw	SS 304
6	Stem	SS 304
7	Bonnet	Ductile iron EN GJS-500-7
8	Holding ring	Brass CuZn39Pb2
9	Stem O ring	NBR
10	Nut	Brass CuZn39Pb2
11	Handwheel	Ductile iron EN GJS-500-7
12	Handwheel screw	SS 304
13*	Dust-coat	NBR
14	Stem O ring	NBR
15	Stem 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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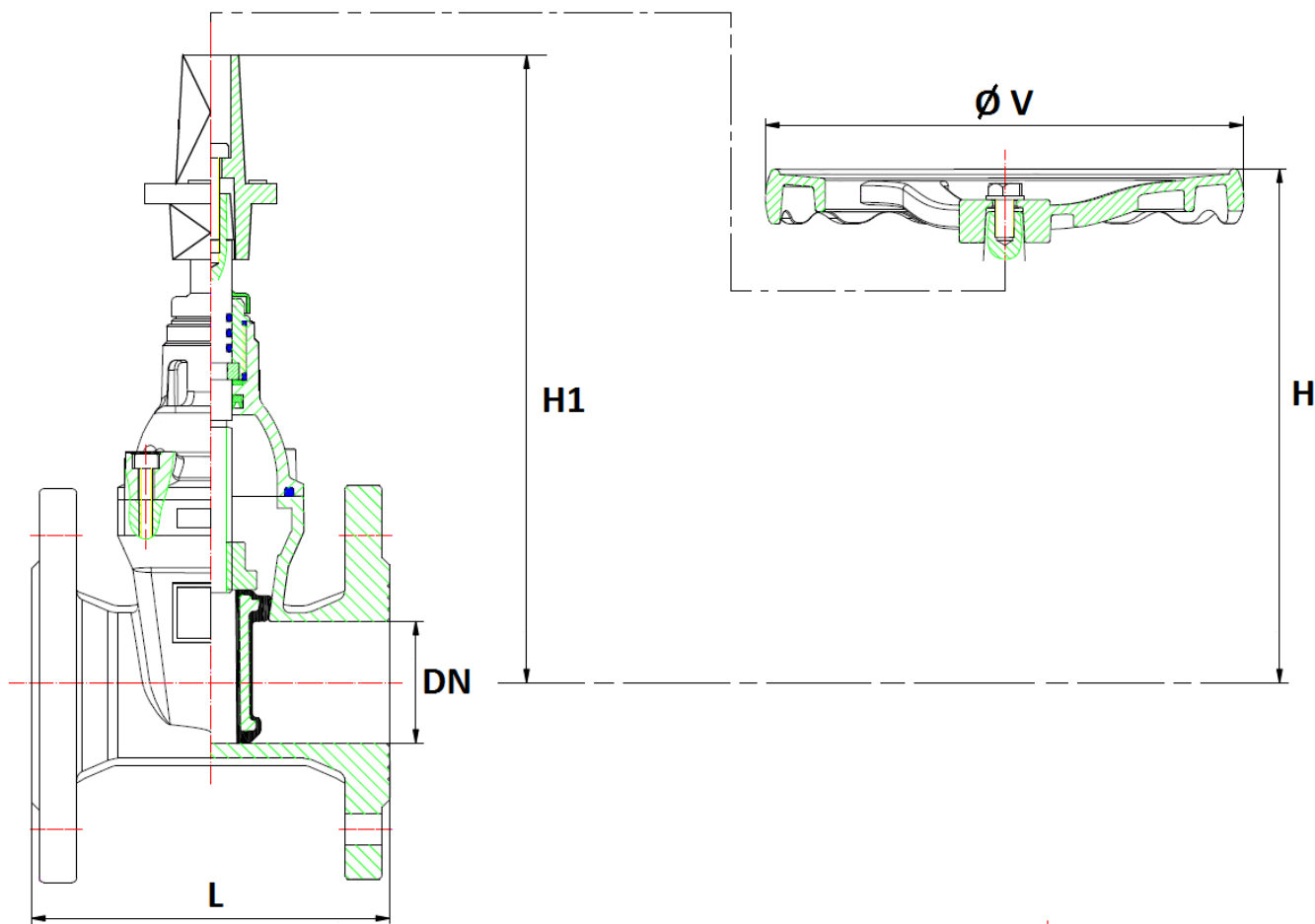
MATERIALS DN350 – 600 :



Item	Designation	Materials
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	SS 304
6	Bonnet	Ductile iron EN GJS-500-7
7	Holding ring	Brass CuZn39Pb2
8	O ring	NBR
9	Screw	SS 304
10	Dust-coat	NBR
11	Gland	Ductile iron EN GJS-500-7
12	O ring	NBR
13	Ring	Nylon 66
14	O ring	NBR
15	Bonnet bolt	SS 304
16	O ring	NBR
17	Handwheel	Ductile iron EN GJS-500-7
18	Square drive nut	Ductile iron EN GJS-500-7

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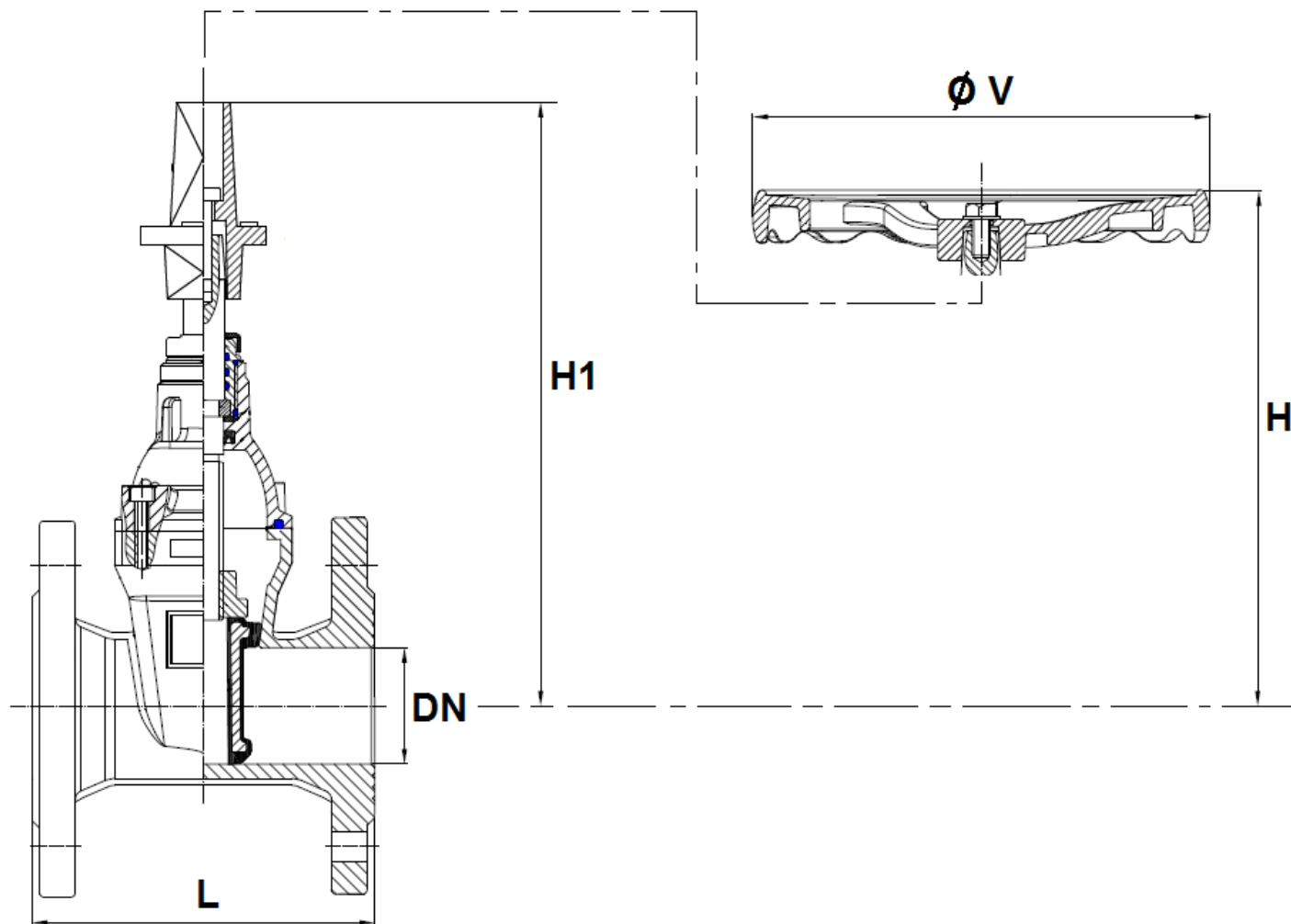
SIZE DN40 - 65 (in mm) :



DN	40	50	65
L	240	250	270
H	190	215	235
H1	260	285	300
Ø V	200	200	200
Weight (in Kg)	7.80	9.48	13.10
Ref.	185040	185050	185065

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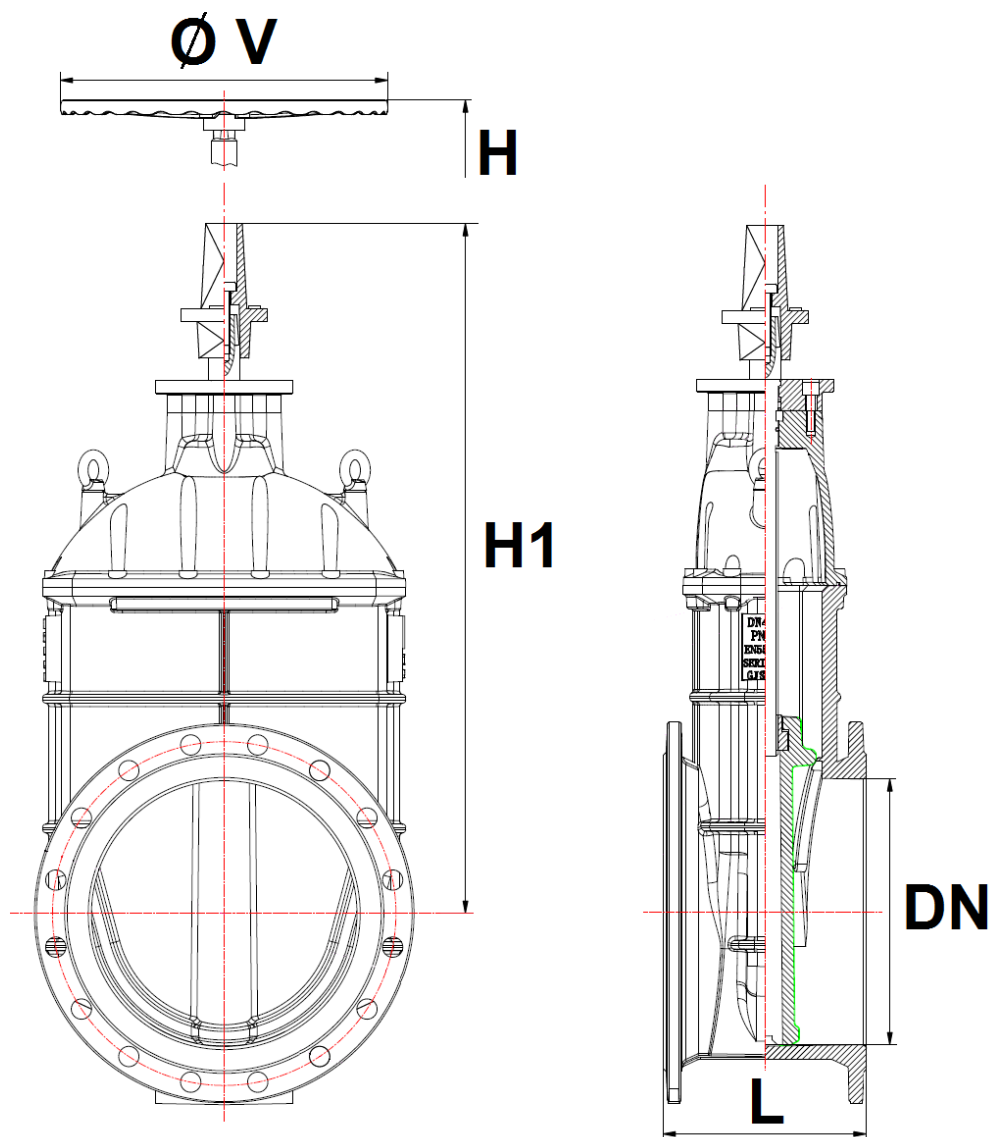
SIZE DN80-300 (in mm) :



DN	80	100	125	150	200	250	300
L	280	300	325	350	400	450	500
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 (in Kg)	15.30	20.50	24.70	35.90	61.20	98.90	134.90
Ref.	185080	185100	185125	185150	185200	185250	185300

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SIZE DN350 - 600 (in mm) :



DN	350	400	450	500	600
L	550	600	650	700	800
H	810	890	1050	1230	1260
H1	900	1000	1150	1330	-
$\emptyset V$	500	500	500	650	650
Weight (in Kg)	225.90	248.50	410	517.30	810
Ref.	185350	185400	185450	185500	185600

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Date : 12/25

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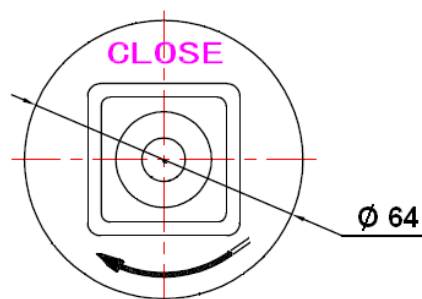
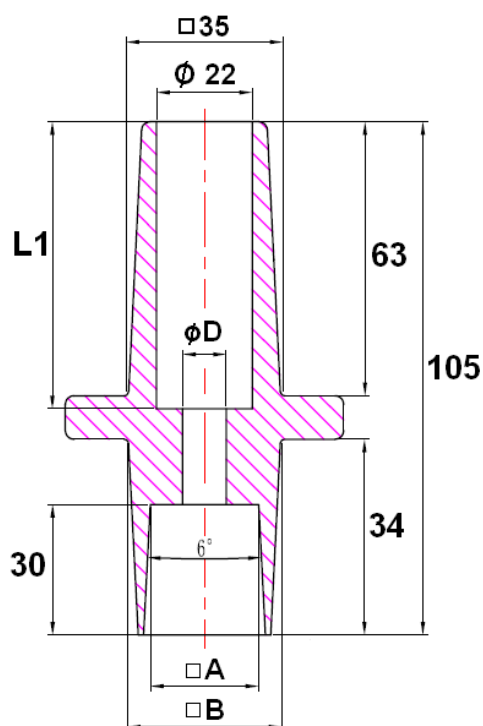
Rev.14

Information provided as an indication and subject to possible modification

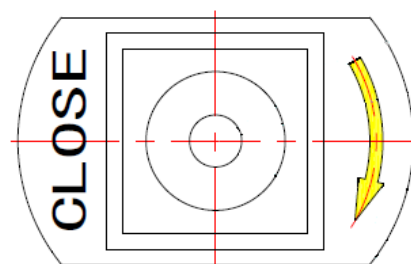
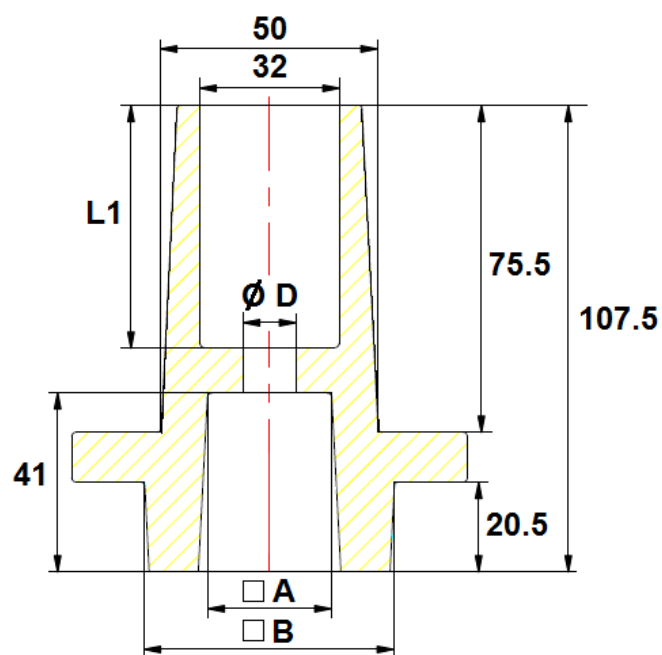
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SQUARE DRIVE NUT SIZE (in mm) :

DN 40 – 300



DN 350 - 400

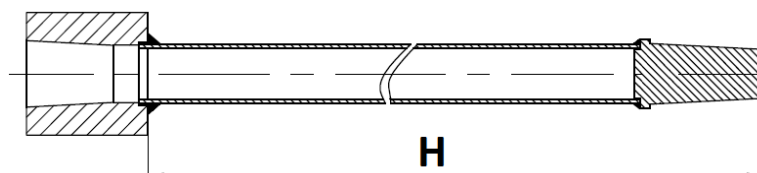


DN	40	50	65	80	100	125	150	200	250	300	350	400
A	14	14	14	17	17	19	19	19	24	24	28.5	28.5
B	34	34	34	34	34	36	36	36	42.5	42.5	57.5	57.5
L1	66	66	66	63	63	63	63	63	63	63	56	56
Ø D	10	10	10	10	10	10	10	10	12	12	12	12
Weight (Kg)	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.96	0.96
Ref.	9801831	9801831	9801831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

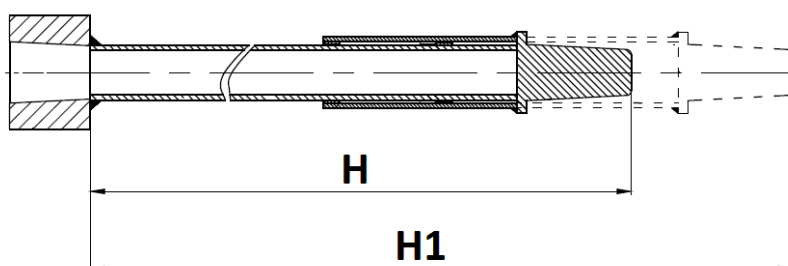
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STEM EXTENSION SIZE DN50-400 (in mm) :

FIXED TYPE



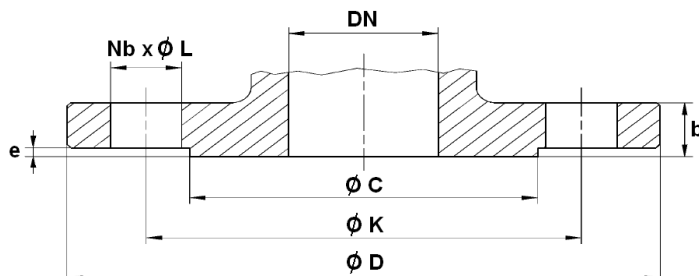
TELESCOPIC TYPE



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

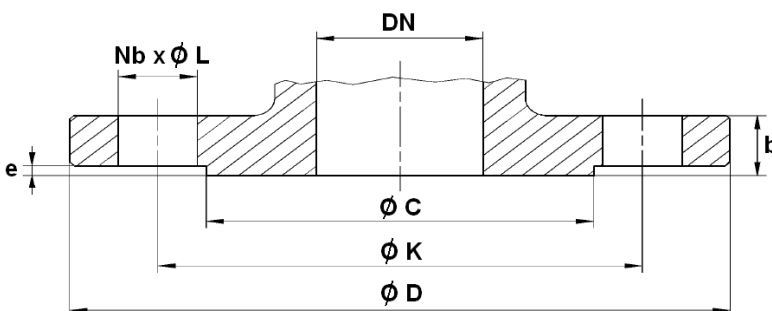
RESILIENT SEAT GATE VALVE PN10/16 LONG PATTERN DIN 3202-F5 ATC EPDM ACS

SIZE PN10 FLANGES (in mm) :



PN	PN10/16							PN10							
DN	40	50	65	80	100	125	150	200	250	300	350	400	450	500	600
Ø C	84	99	118	132	156	184	211	266	319	370	429	480	530	582	682
Ø D	150	165	185	200	220	250	285	340	405	460	520	580	640	715	840
Ø K	110	125	145	160	180	210	240	295	350	400	460	515	565	620	725
Nb x Ø L	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	16 x 23	16 x 28	20 x 28	20 x 28	20 x 31
b	19	19	19	19	19	19	19	20	22	24.5	26.5	28	30	31.5	36
e	3	3	3	3	3	3	3	3	3	4	4	4	4	4	5
Ref.	185040	185050	185065	185080	185100	185125	185150	185200	185250	185300	185350	185400	185450	185500	185600

SIZE PN16 FLANGES (in mm) :



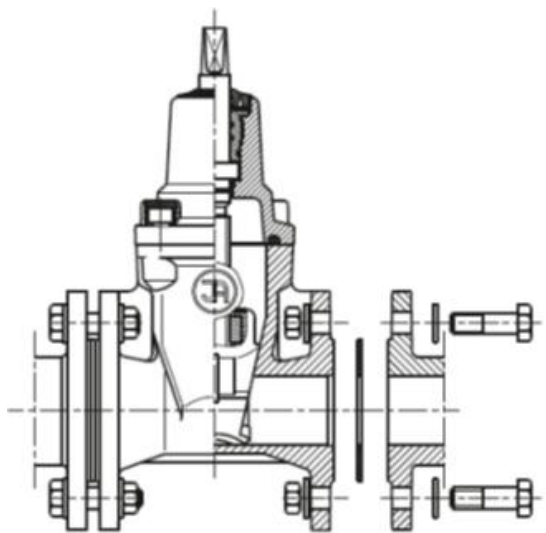
PN	PN16				
DN	200	250	300	350	400
Ø C	266	319	370	429	480
Ø D	340	405	460	520	580
Ø K	295	355	410	470	525
Nb x Ø L	12 x 23	12 x 28	12 x 28	16 x 28	16 x 31
b	20	22	24.5	26.5	28
e	3	3	4	4	4
Ref.	185201	185251	185301	185351	185401

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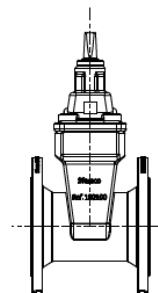
STANDARDS :

- Manufacturer certified ISO 9001 :2015 and ISO 14001 : 2015
- Designing according to DIN EN 1171
- Pressure tests according to EN 12266-1, Rate A
- DIRECTIVE 2014/68/EU : For liquids of Group 2
 - Products excluded (article 1, § 2b)
- Certificate 3.1 on request
- Length according to EN 558 series 15 (DIN 3202 F5)
- Flanges R.F. 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**

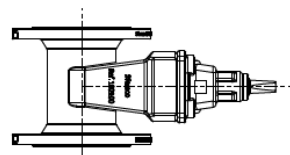
INSTALLATION POSITIONS :



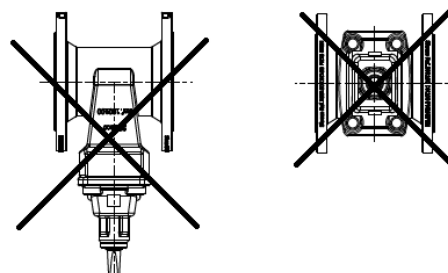
Recommended :



Acceptable :



Non acceptable :



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