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

References 11SD0B4 11SD1B4



1. 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

2. Features

Use :	For water distribution
Size :	DN40 to DN400
Connection :	Flanges PN10/16
Min Temperature :	-10°C
Max Temperature :	+70°C
Max Pressure :	16 Bar up to DN400, 10 Bar over
Specifications :	Non rising stem Anticlockwise to close (ATC) Full and total bore
Materials :	Ductile iron body EN GJS-500-7

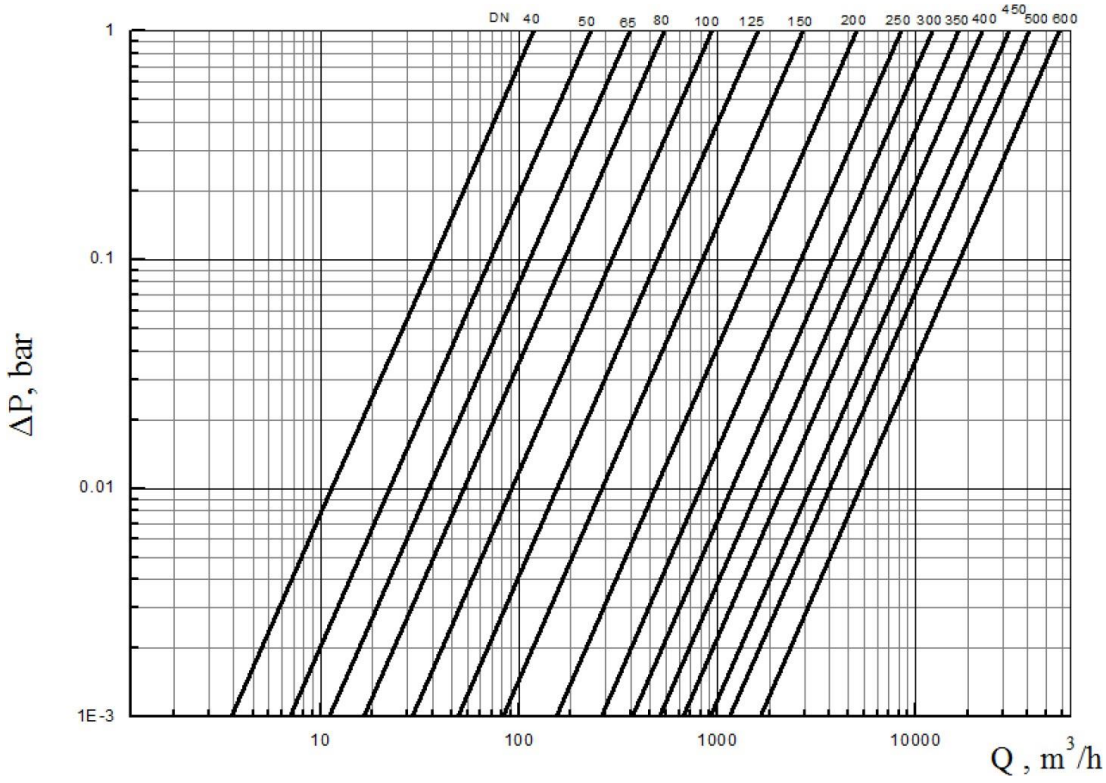
Information provided as an indication and subject to possible modification

3. 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

HEADLLOSS GRAPH :



HEAD LOSS CALCULATION FOR WATER :

Δp = (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
Torque (Nm)	325	350

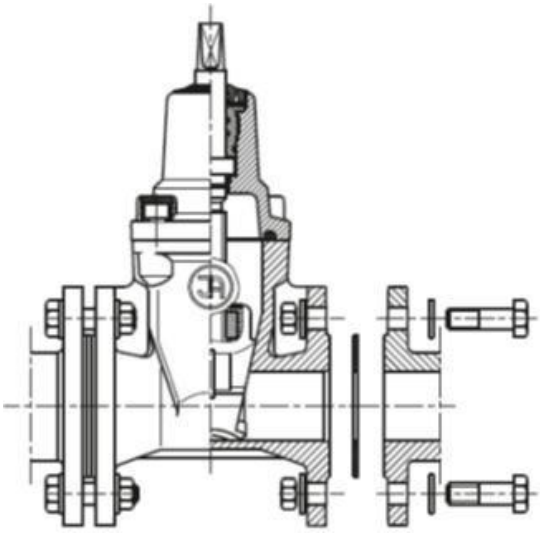
NUMBER OF CYCLES TO CLOSE OR OPEN THE VALVE :

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

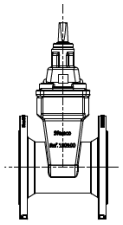
DN	350	400
Number of cycles	55	61

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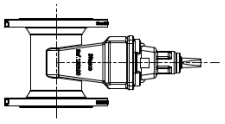
4. Installation positions



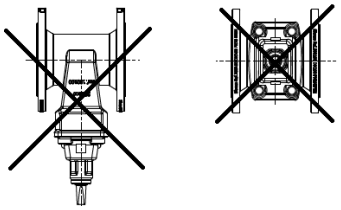
Recommanded :



Acceptable :

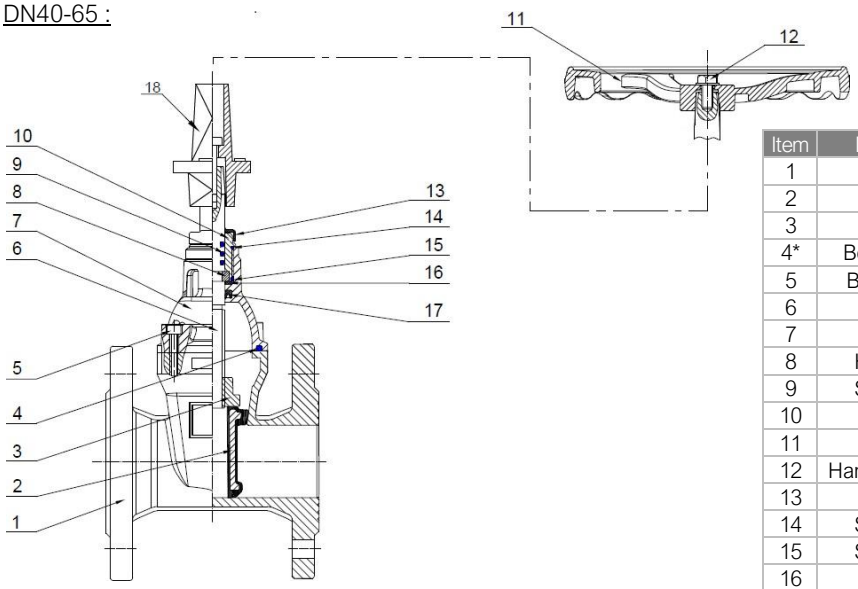


Non acceptable :



5. Materials

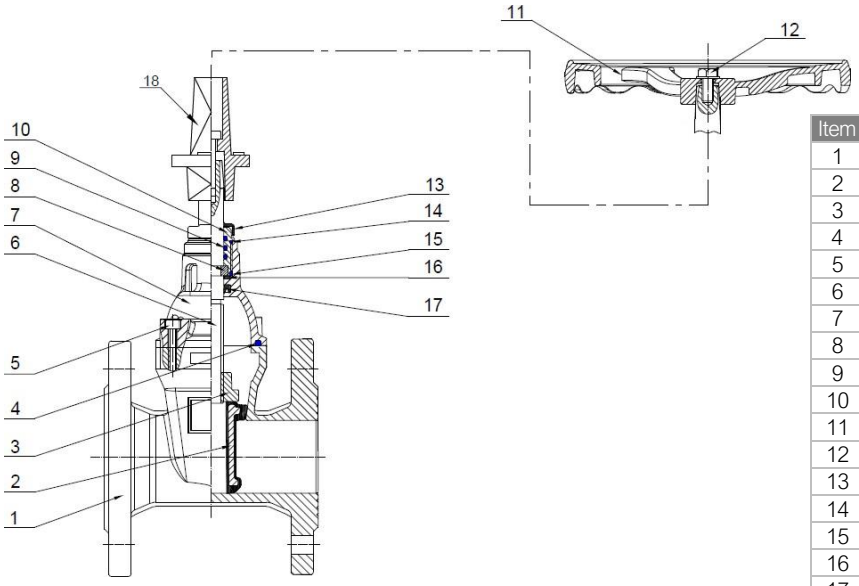
DN40-65 :



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

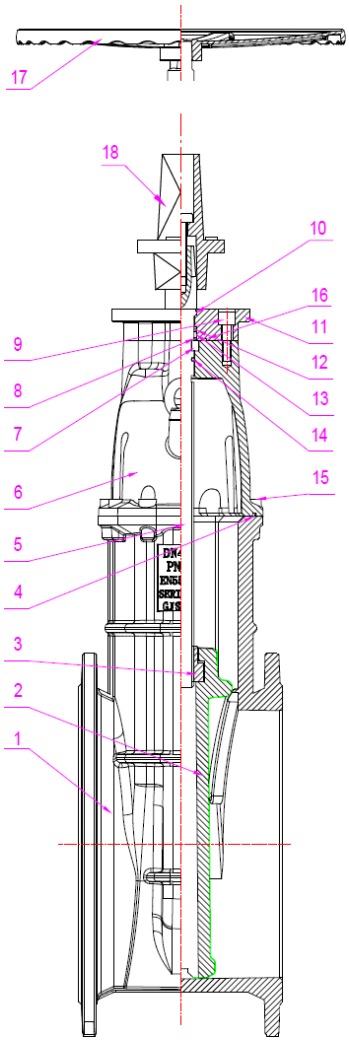
Information provided as an indication and subject to possible modification

DN80-300 :



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

DN350-600 :

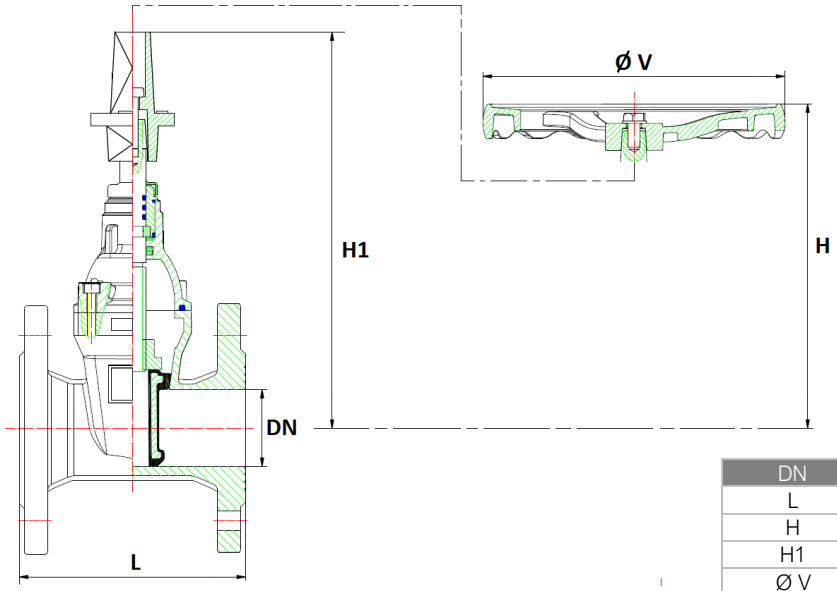


Item	Designation	Materials
1	Body	Ductile iron EN GJS-500-7
2	Wedge	Ductile iron EN GJS-500-7 + EPDM
3	Stem nut	Brass CuZn39Pb2
4	Bonnet gasket	NBR
5	Stem	SS 304
6	Bonnet	Ductile iron EN GJS-500-7
7	Holding ring	Brass CuZn39Pb2
8	O ring	NBR
9	Screw	SS 304
10	Dust-coat	NBR
11	Gland	Ductile iron EN GJS-500-7
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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6. Size (in mm)

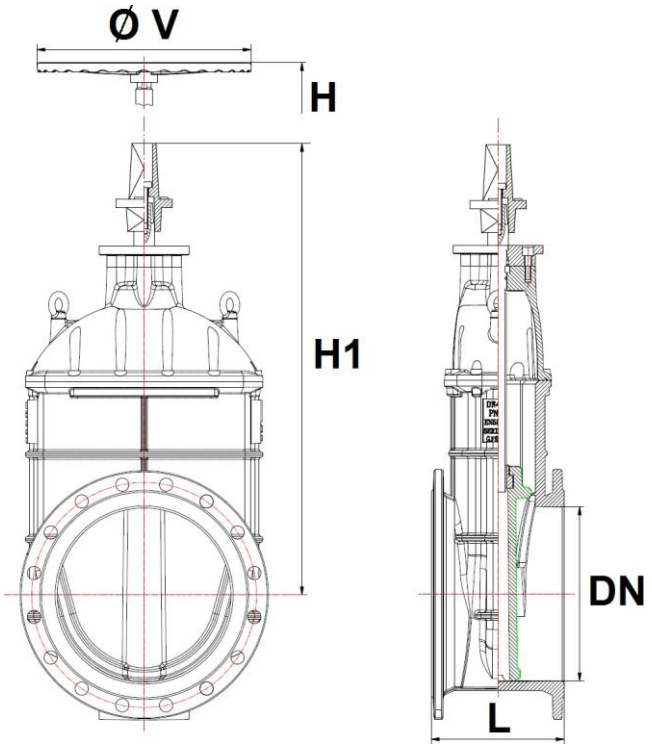
DN40-65 :



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

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

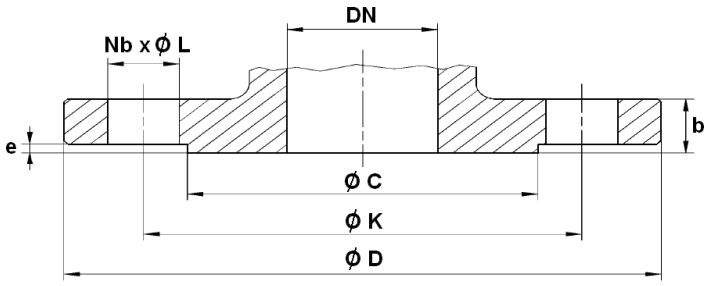
DN350-600 :



DN	350	400	450	500	600
L	550	600	650	700	800
H	810	890	1050	1230	1260
H1	900	1000	1150	1330	-
Ø V	500	500	500	650	650
Weight (in Kg)	225.90	248.50	410	517.30	810

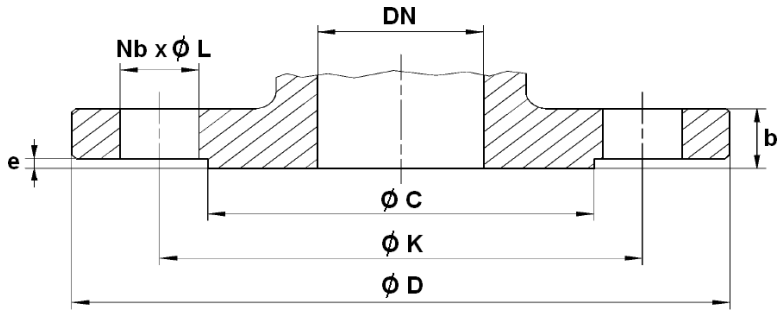
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SIZE PN10 FLANGES (in mm) :



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

SIZE PN16 FLANGES (in mm) :

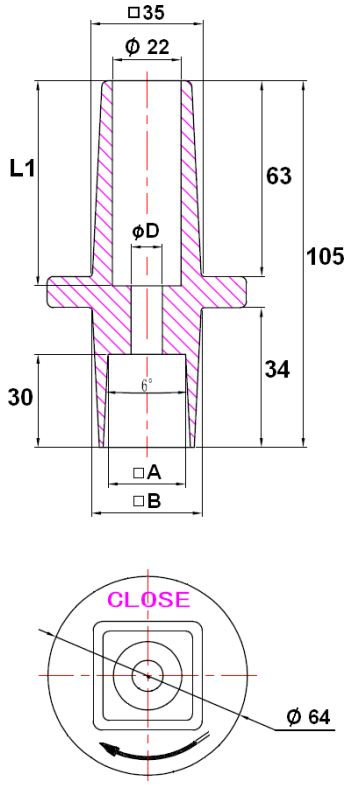


PN	PN16				
DN	200	250	300	350	400
Ø C	266	319	370	429	480
Ø D	340	405	460	520	580
Ø K	295	355	410	470	525
Nb x Ø L	12 x 23	12 x 28	12 x 28	16 x 28	16 x 31
b	20	22	24.5	26.5	28
e	3	3	4	4	4

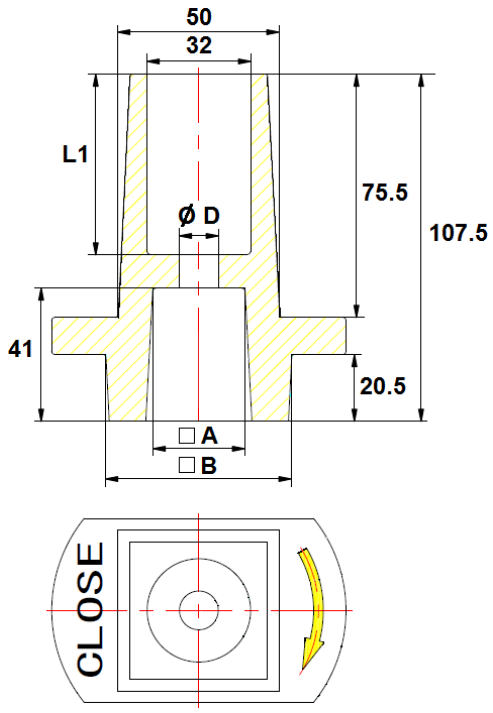
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SQUARE DRIVE NUT SIZE (in mm) :

DN 40 – 300



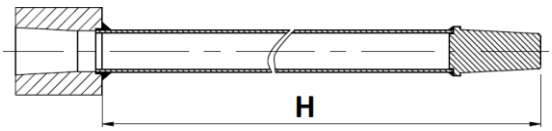
DN 350 - 400



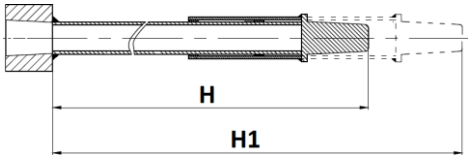
DN	40	50	65	80	100	125	150	200	250	300	350	400
A	14	14	14	17	17	19	19	19	24	24	28.5	28.5
B	34	34	34	34	34	36	36	36	42.5	42.5	57.5	57.5
L1	66	66	66	63	63	63	63	63	63	63	56	56
Ø D	10	10	10	10	10	10	10	10	12	12	12	12
Weight (Kg)	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.96	0.96

STEM EXTENSION SIZE DN50-400 (in mm) :

FIXED TYPE



TELESCOPIC TYPE



DN	H	H1	Weight (Kg)
50-300	1000	-	3.7
50-300	1250	-	4.2
50-300	1500	-	4.5
50-200	1300	1800	9.6
50-200	2000	2500	11.8
350-400	1000	-	5.7
350-400	1250	-	6.5
350-400	1500	-	7.4

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