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

Reference 11SD0B0 11SD1B0



Références	Connection	Size
11SD0B0	PN10	DN200-DN1000
11SD1B0	PN16	DN40-DN400

1. 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

2. Features

Use :	For water distribution
Size :	DN40 to DN1000
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 Clockwise to close (CTC) Full and total bore
Materials :	Ductile iron body EN GJS-500-7

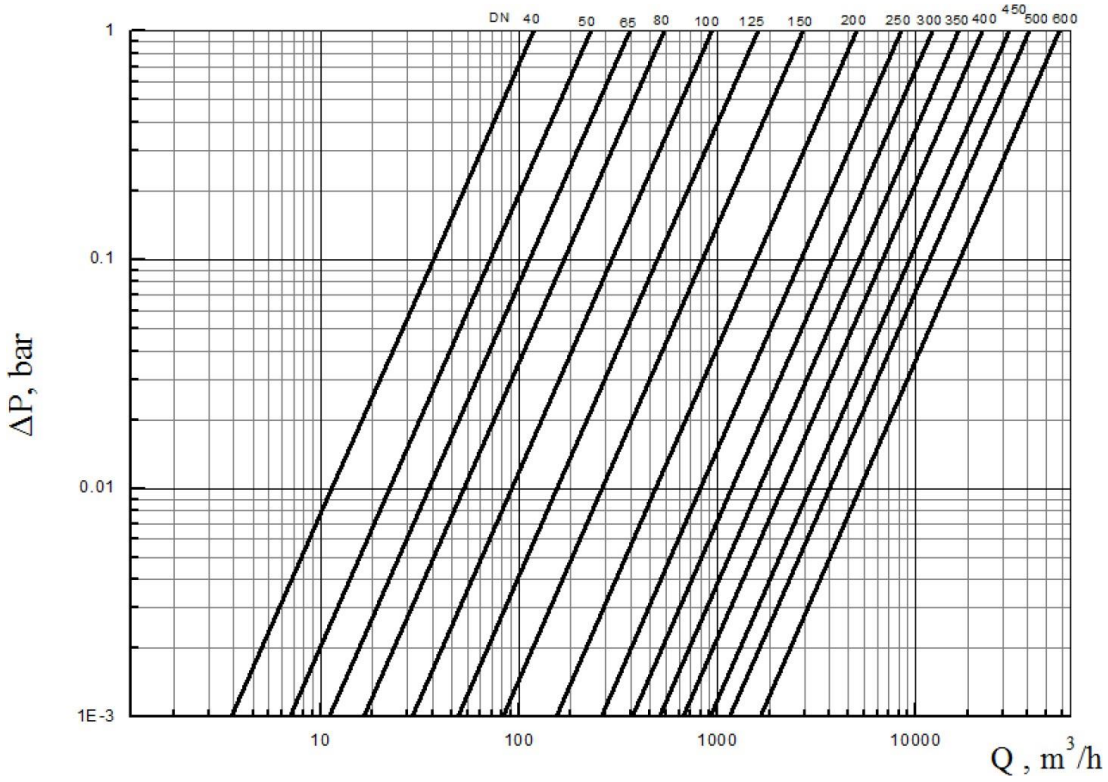
3. Flow coefficient Kvs (m3/h)

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

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

Information provided as an indication and subject to possible modification

HEADLLOSS GRAPH :



HEAD LOSS CALCULATION FOR WATER :

$\Delta p = (Q / Kvs)^2$ Q : flow in m^3/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

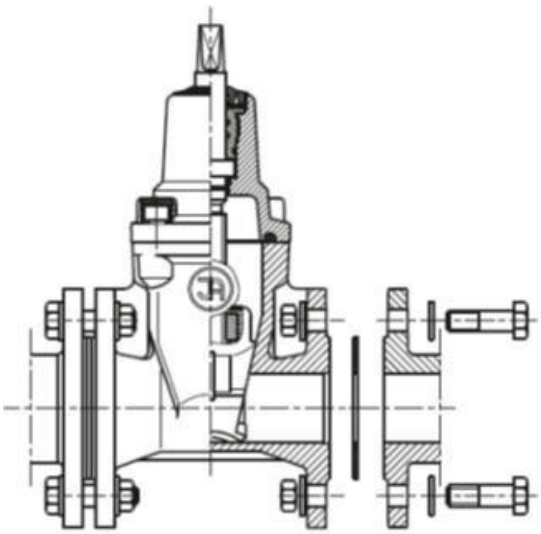
NUMBER OF CYCLES TO CLOSE OR OPEN THE VALVE :

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

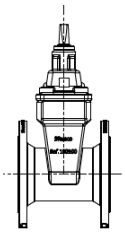
DN	350	400	450	500	600	700	800	1000
Number of cycles	55	61	52	57	66	72	82	102

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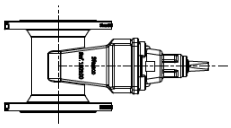
4. Installation positions :



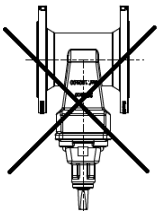
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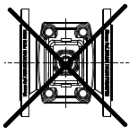


Acceptable :



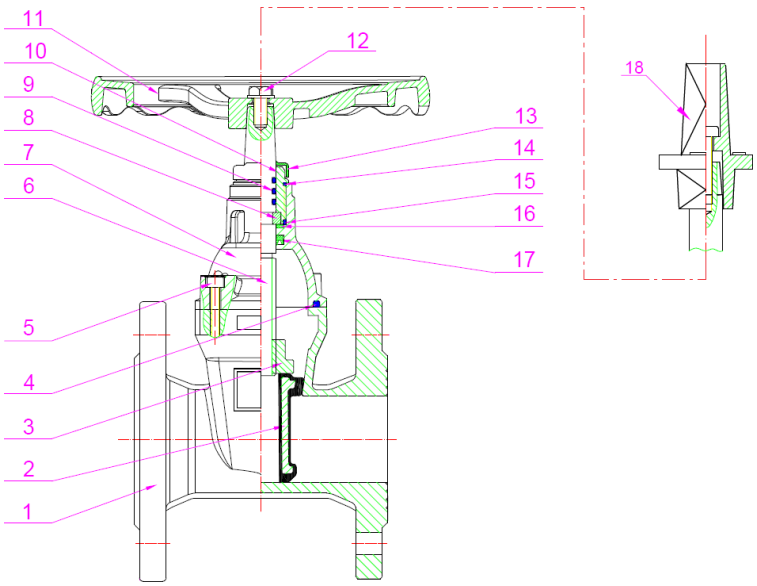
Non acceptable :





5. Materials

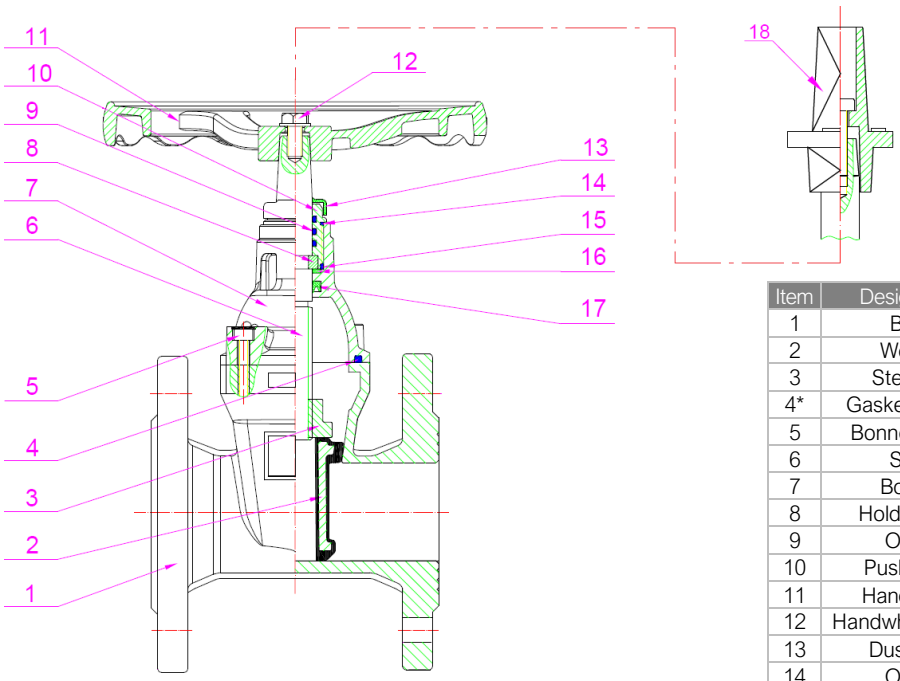
DN40 – 65 :



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	Steel C35
6	Stem	SS 420
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	SS 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

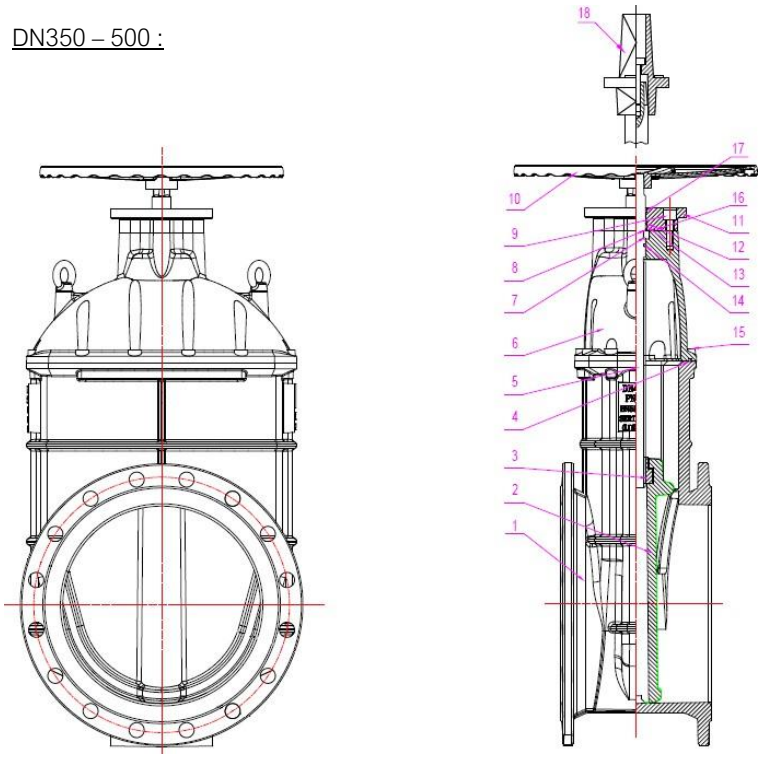
Information provided as an indication and subject to possible modification

DN80 – 300 :



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	Steel C35
6	Stem	SS 420
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	SS 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

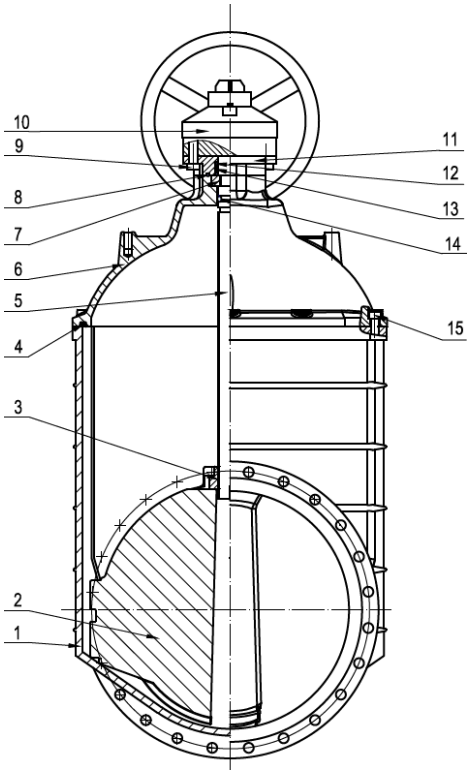
DN350 – 500 :



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	SS 420
6	Bonnet	Ductile iron EN GJS-500-7
7	Holding ring	Brass CuZn39Pb2
8	O ring	NBR
9	Screw	Steel Rst 37-2
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	Steel C35
16	O ring	NBR
17	Dust-coat	NBR
18	Square drive nut	Ductile iron EN GJS-500-7

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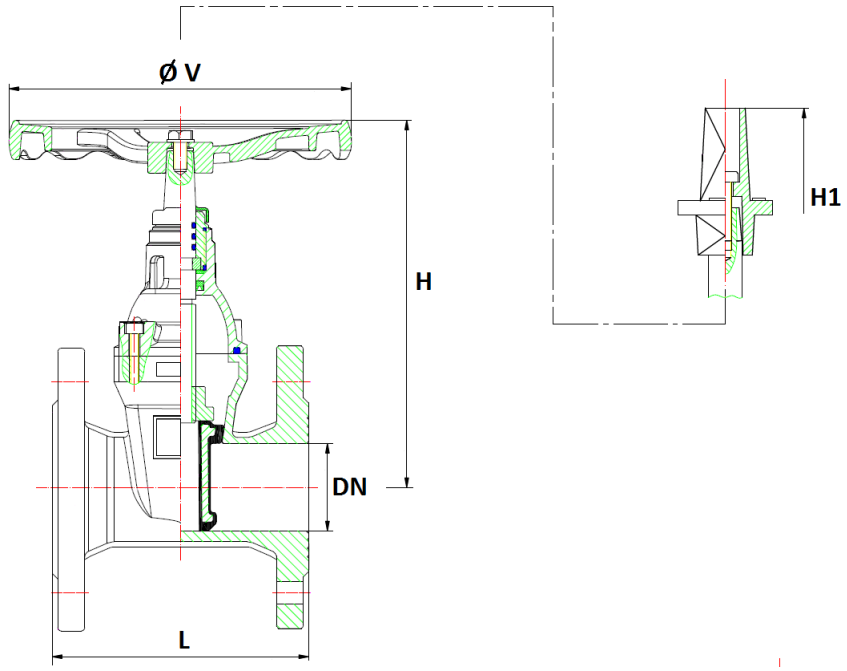
DN600 – 1000 :



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	SS 420
6	Bonnet	Ductile iron EN GJS-500-7
7	Holding ring	Brass CuZn39Pb2
8	O ring	NBR
9	Screw	Steel Rst 37-2
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	Steel C35

6. Size (in mm)

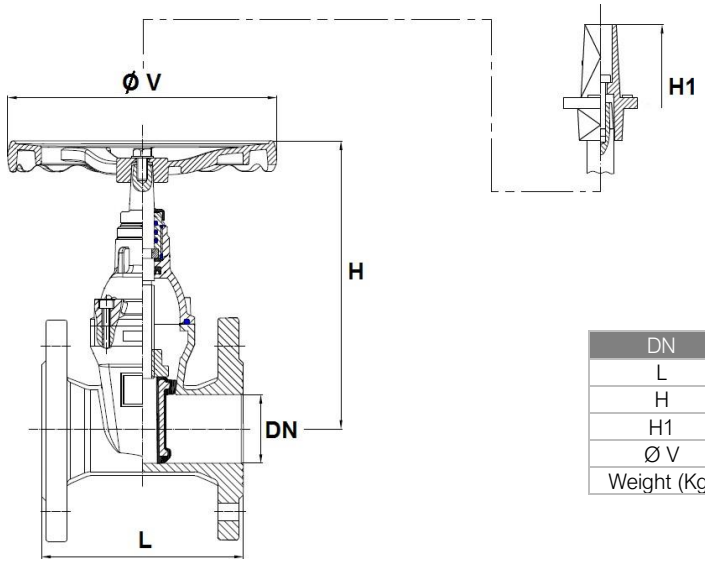
HANDWHEEL VALVE SIZE DN40 – 300 (in mm) :



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

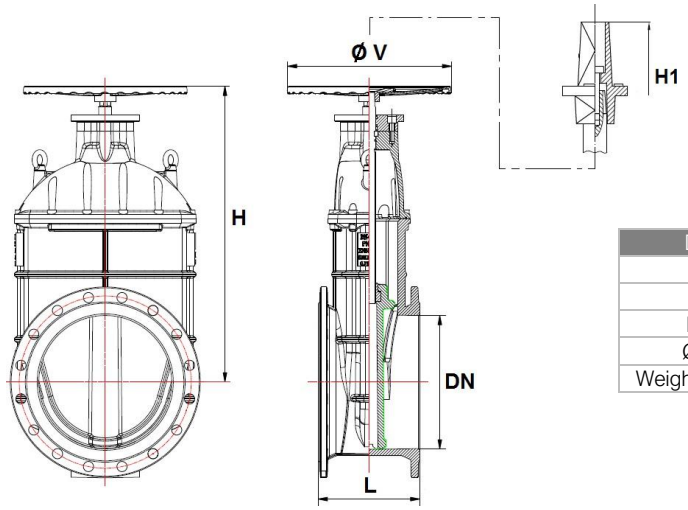
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HANDWHEEL VALVE SIZE DN 80 - 300 (in mm) :



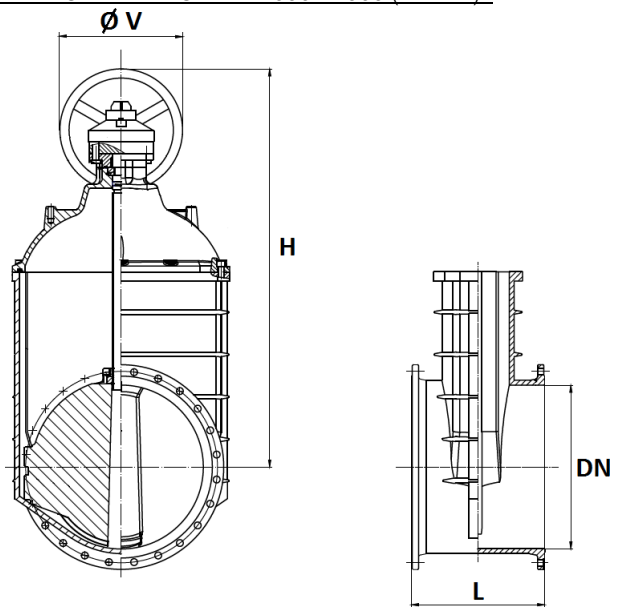
DN	80	100	125	150	200	250	300
L	180	190	200	210	230	250	270
H	265	315	350	385	485	600	680
H1	320	390	430	470	560	680	770
Ø V	254	254	315	315	315	406	406
Weight (Kg)	14	19.90	24.20	31.80	49.40	84.70	106

HANDWHEEL VALVES SIZE DN350 – 500 (in mm) :



DN	350	400	450	500
L	290	310	330	350
H	810	890	1050	1230
H1	900	1000	1150	1330
Ø V	500	500	500	650
Weight (in Kg)	185	228	360	419

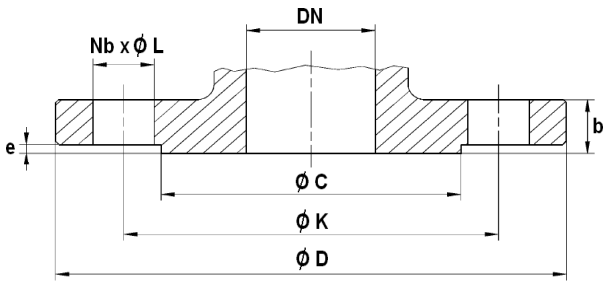
GEARBOX VALVE SIZE DN 600 - 1000 (in mm) :



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

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FLANGES PN10 SIZE (in mm) :

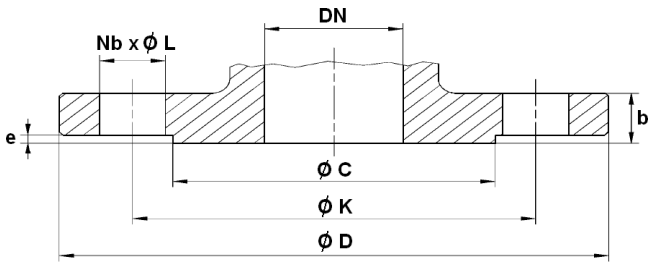


PN	PN10							
DN	350	400	450	500	600	700	800	1000
Ø C	429	480	530	582	682	794	901	1112
Ø D	520	580	640	715	840	910	1025	1255
Ø K	460	515	565	620	725	840	950	1160
Nb x Ø L	16 x 23	16 x 28	20 x 28	20 x 28	20 x 31	24 x 31	24 x 33	28 x 37
b	26.5	28	30	31.5	36	39.5	43	50
e	4	4	4	4	5	5	5	5

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

*DN60/65 double holes

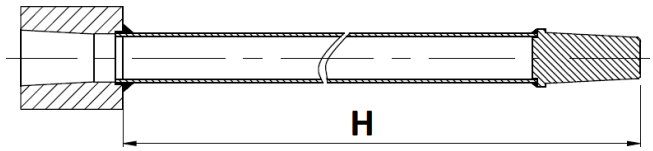
FLANGES PN16 SIZE (in mm) :



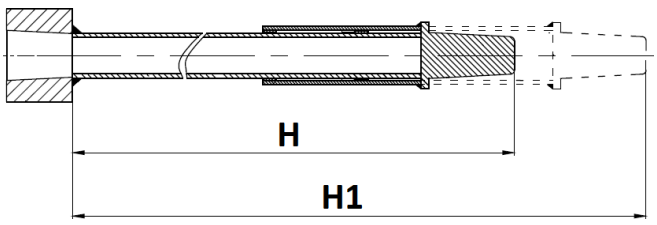
PN	PN16				
DN	200	250	300	350	400
Ø C	266	319	370	429	480
Ø D	340	405	460	520	580
Ø K	295	355	410	470	525
Nb x Ø L	12 x 23	12 x 28	12 x 28	16 x 28	16 x 31
b	20	22	24.5	26.5	28
e	3	3	4	4	4

STEM EXTENSION SIZE DN50-400 (in mm) :

FIXED TYPE



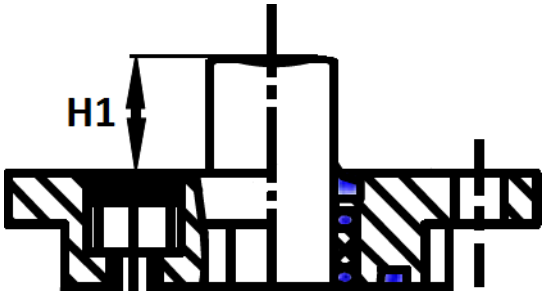
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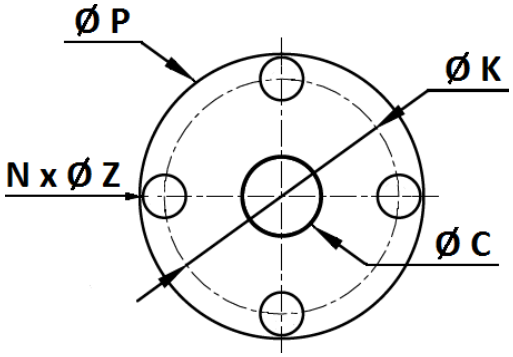


DN	H	H1	Weight (Kg)
50-300	1000	-	3.7
50-300	1250	-	4.2
50-300	1500	-	4.5
50-200	1300	1800	9.6
50-200	2000	2500	11.8
350-400	1000	-	5.7
350-400	1250	-	6.5
350-400	1500	-	7.4

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

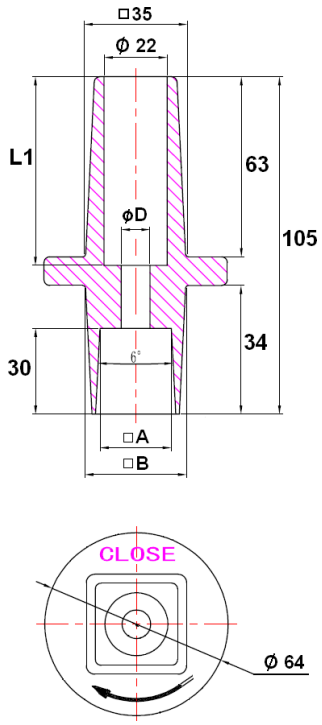




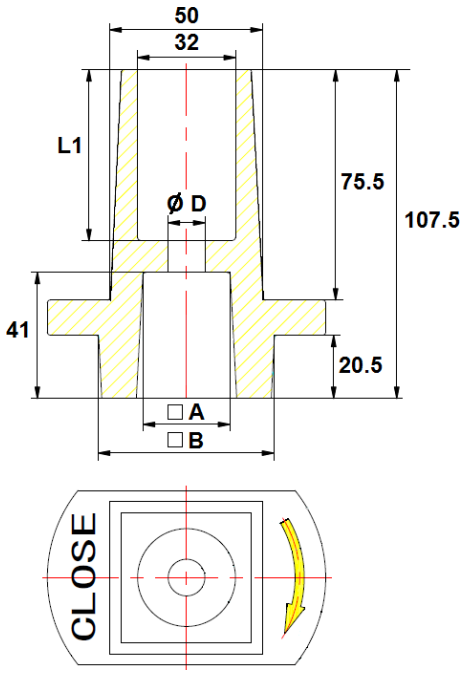
DN	350	400	450	500	600	700	800	1000
H1	60	60	80	80	80	80	80	100
Ø C	40	40	55	55	55	65	65	75
Ø P	210	210	210	300	300	300	300	350
Ø K	165	165	165	254	254	254	254	298
ISO	F16	F16	F25	F25	F25	F25	F25	F30
N x Ø Z	4 x 23	4 x 23	8 x 18	8 x 18	8 x 18	8 x 18	8 x 18	8 x 23

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

Information provided as an indication and subject to possible modification