

A-2512 TRIBUSWINKEL, WERKSGASSE 7

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ZWISCHENFLANSCH ABSPERRKLAPPE AK011

TORQUE VALUE (Nm, without safety coefficient) :

We recommend a safety coefficient of 30% minimum to determinate the actuator.

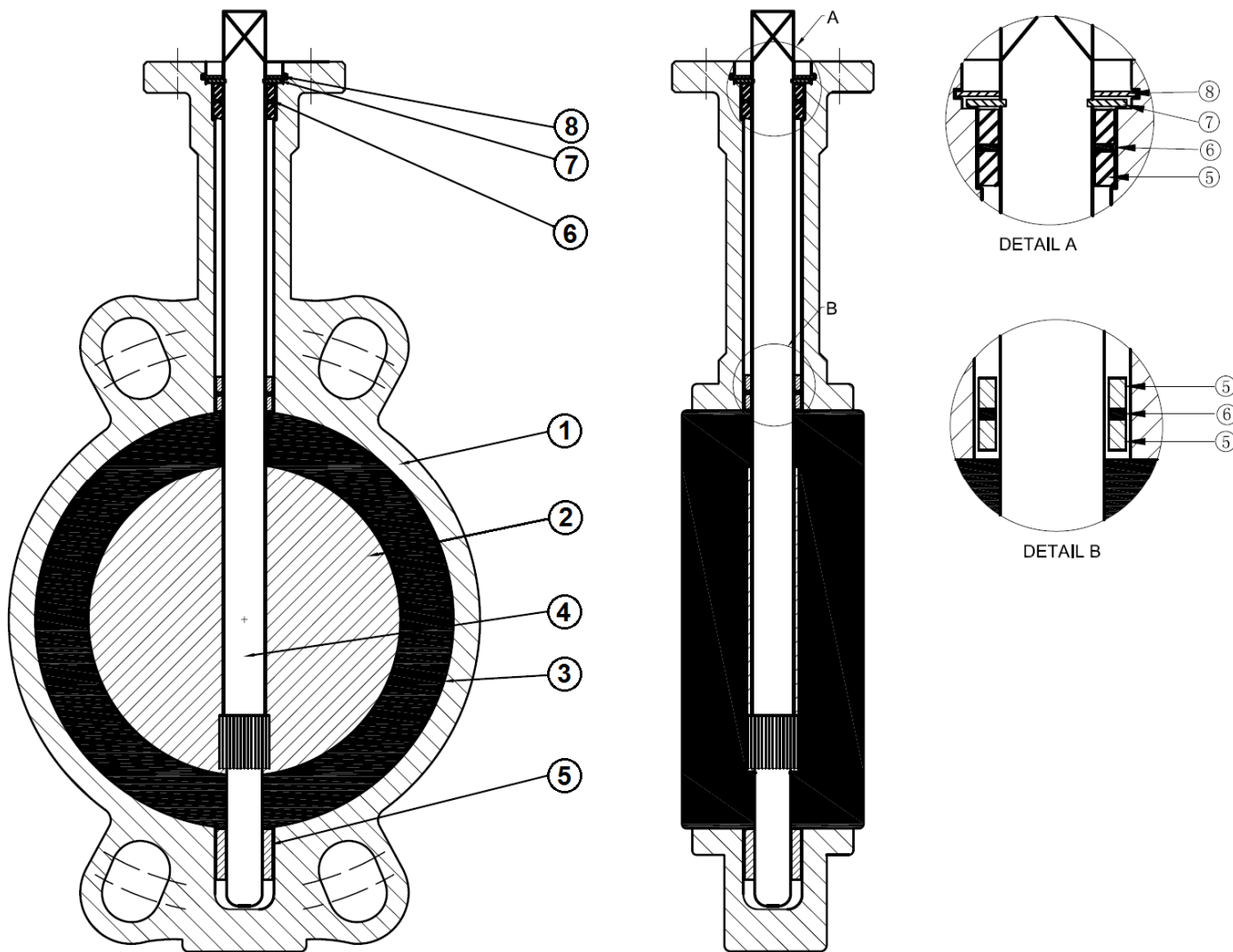
DN	32/40	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000	1200
PN10	11	15	24	31	48	73	106	177	281	410	475	746	1112	1356	2468	4908	6462	7886	13389	18833
PN16	12	16	26	33	53	81	119	194	308	441	-	-	-	-	-	-	-	-	-	-

RANGE :

- With lever from DN32/40 to DN300
- With gear box from DN350 to DN1200
- Gear box possible from DN32/40 to DN300

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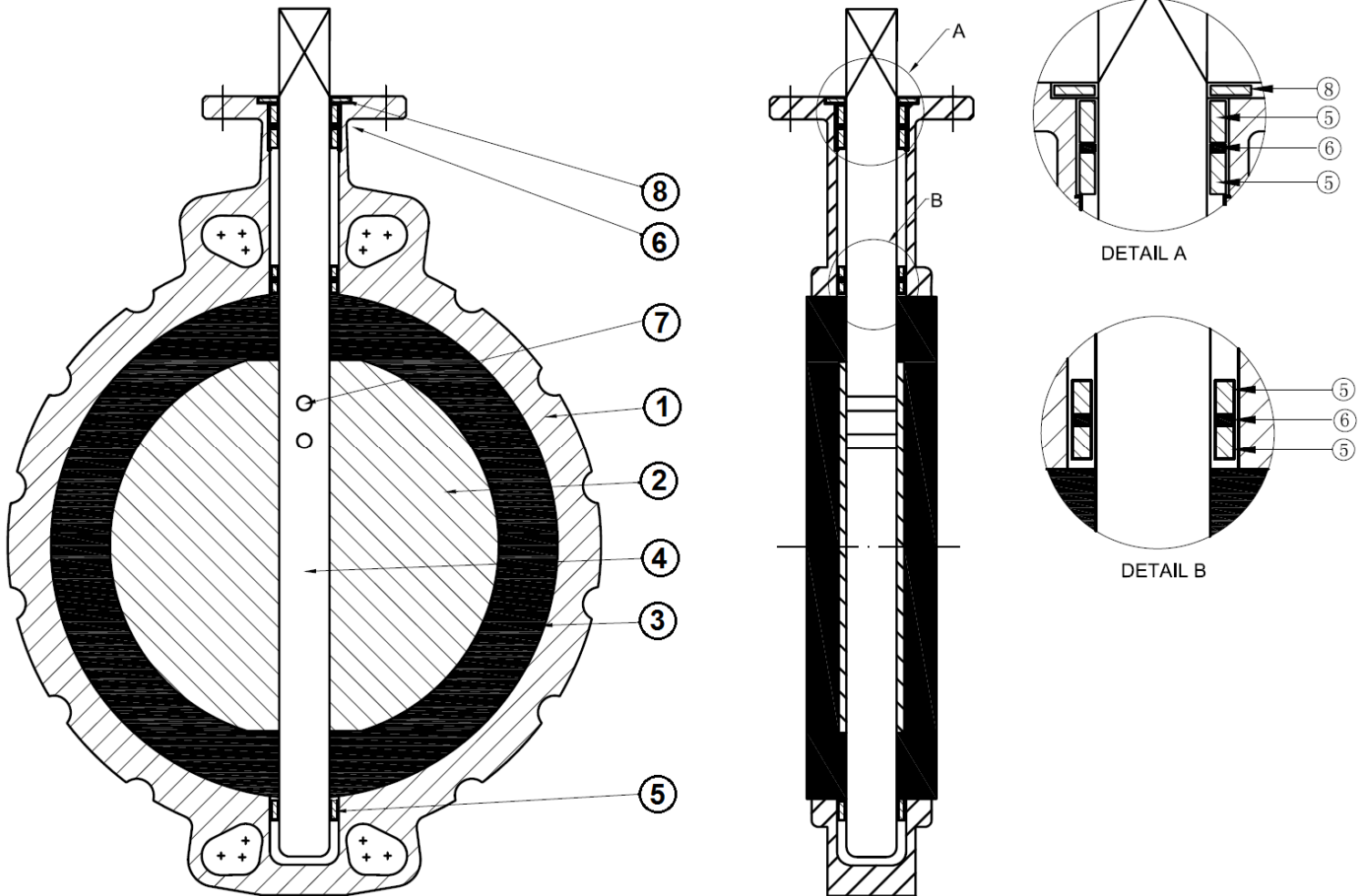
MATERIALS DN 32/40 – 300 :



Item	Designation	Materials
1	Body	Cast iron EN GJL-250
2	Disc	ASTM A351 CF8M
3	Elastic ring	EPDM
4	Stem	SS 416
5	Bearing	PTFE
6	O ring	EPDM
7	Circlip	Steel
8	Circlip	Steel
	Lever	Aluminium

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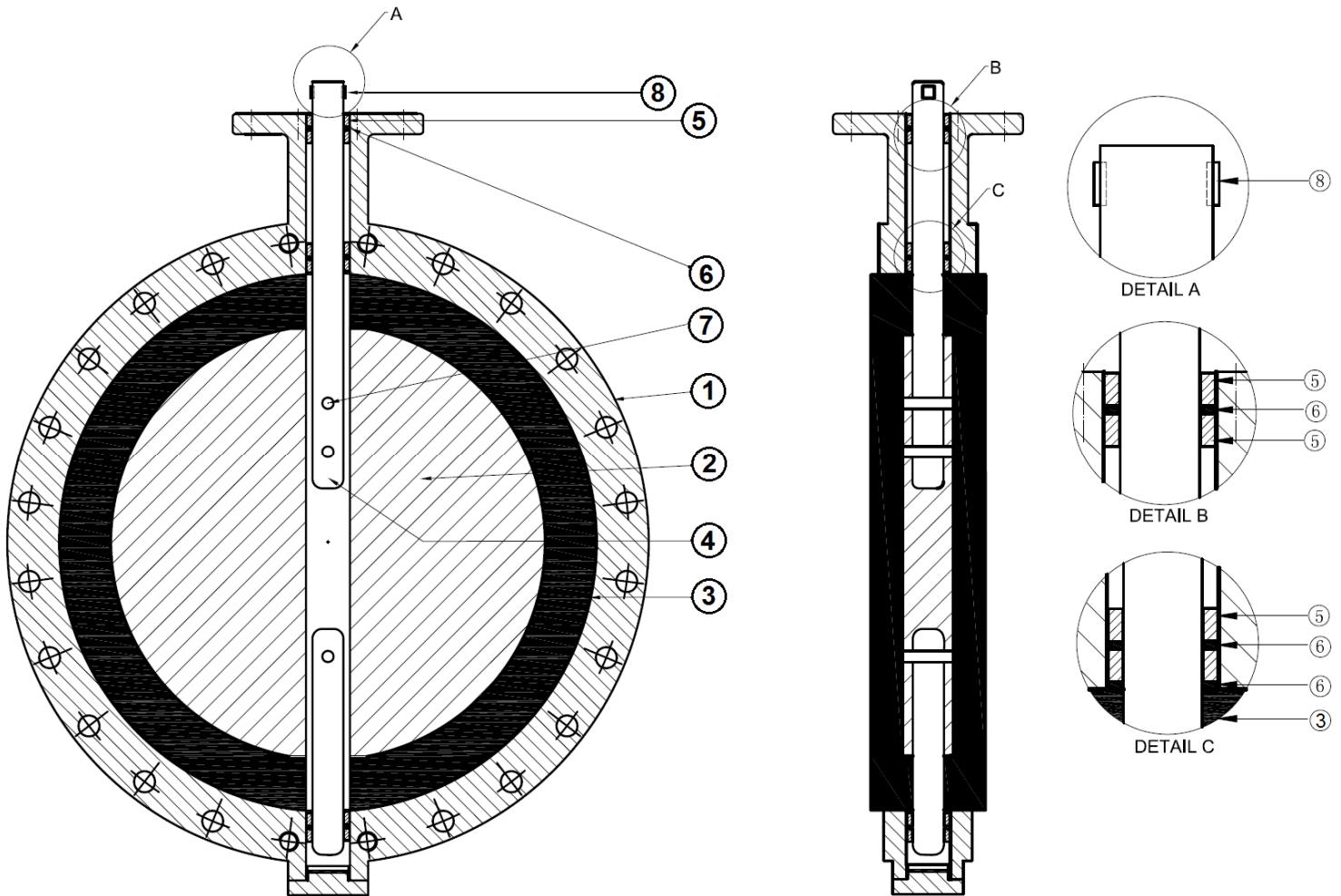
MATERIALS DN 350 – 600 :



Item	Designation	Materials
1	Body	Cast iron EN GJL-250
2	Disc	ASTM A351 CF8M
3	Elastic ring	EPDM
4	Stem	SS 431
5	Bearing	PTFE
6	O ring	EPDM
7	Pin	SS 316
8	Gasket	EPDM

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MATERIALS DN 700 – 1200 :

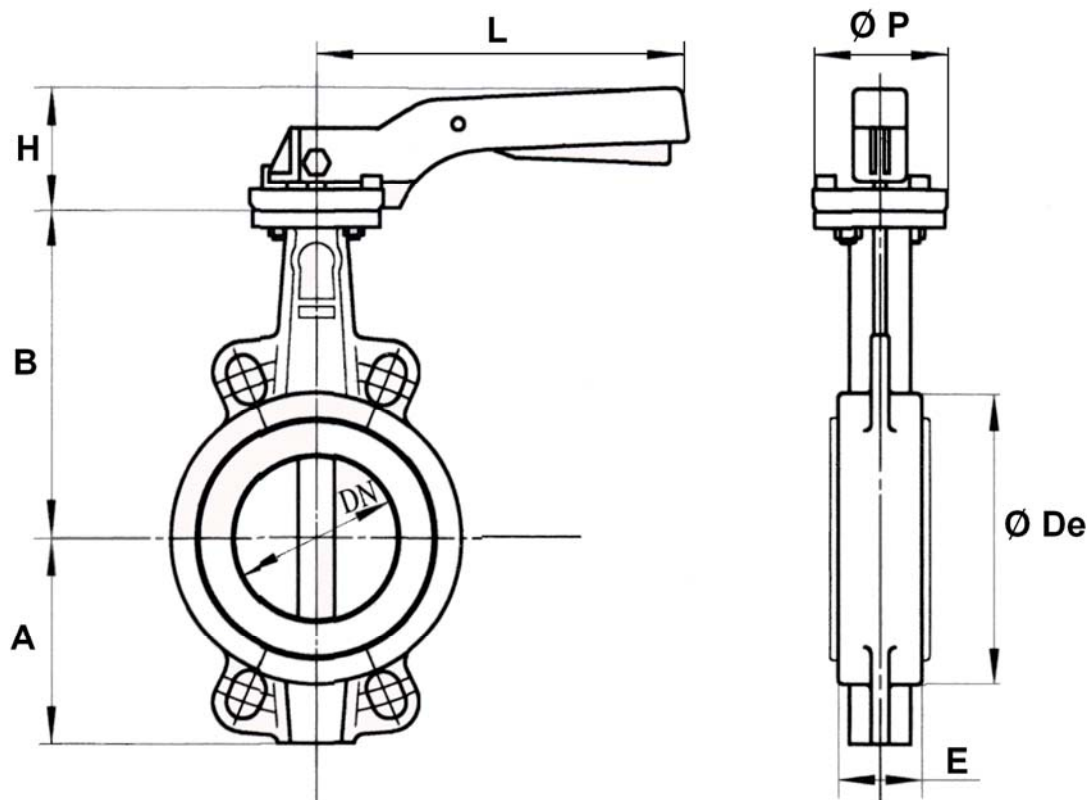


Item	Designation	Materials
1	Body	Cast iron EN GJL-250
2	Disc	ASTM A351 CF8M
3	Elastic ring	EPDM
4	Stem	SS 431
5	Bearing	Aluminium + Bronze
6	O ring	EPDM
7	Pin	SS 316
8	Pin	SQ 719

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VALVES SIZE (in mm) :

- VALVES WITH LEVER DN 32/40 - 300 :

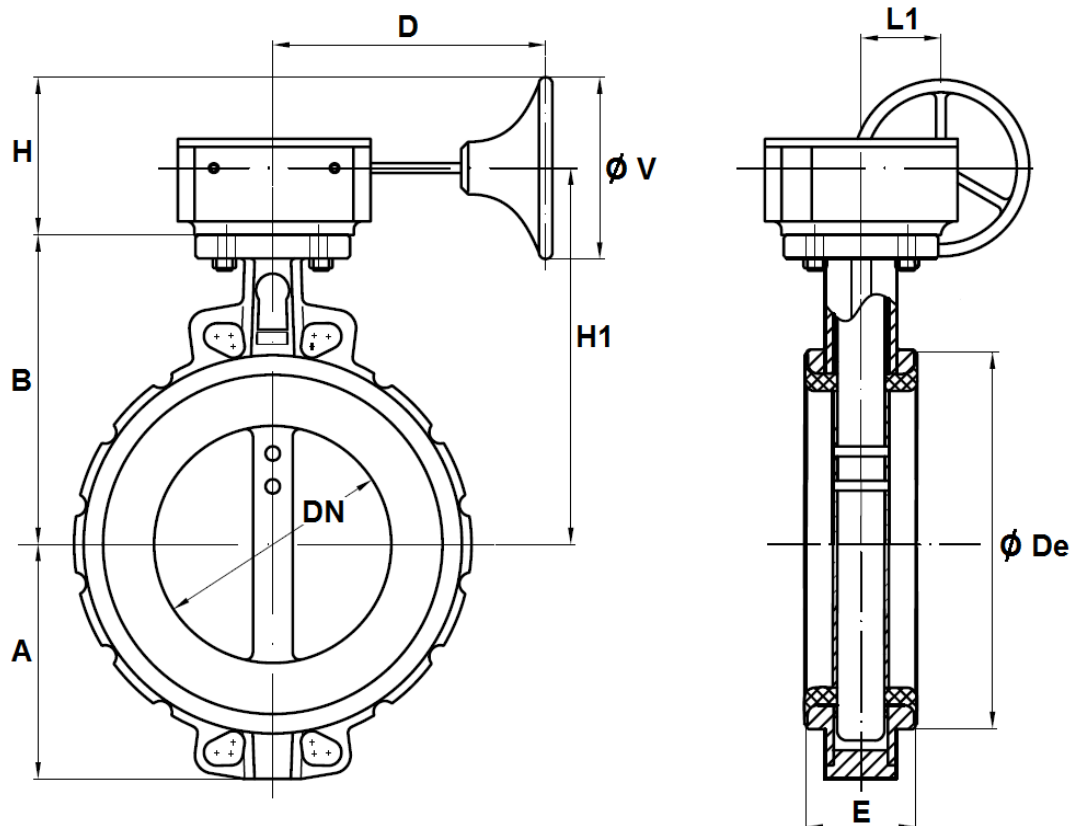


Ref.	DN	32/40	50	65	80	100	125	150	200	250	300
AK011	A	61	77	87,5	95	107	121,5	144	171	205	235
	B	130	136,5	142	158	180	192	215	242	280	310
	Ø De	82	95	109	127	152	180	207	260	315	370
	E	33	43	46	46	52	56	56	60	68	78
	H	70	70	70	70	70	71	71	40	44	44
	L	195	195	195	195	195	278	278	355	507	507
	Ø P	65	65	65	65	65	90	90	125	150	150
	Weig. (Kg)	1.85	2.53	2.86	3.16	4.21	6.67	7.66	14.67	23.4	33.8

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VALVES SIZE (in mm) :

- VALVES WITH GEAR BOX DN 350 - 600 :

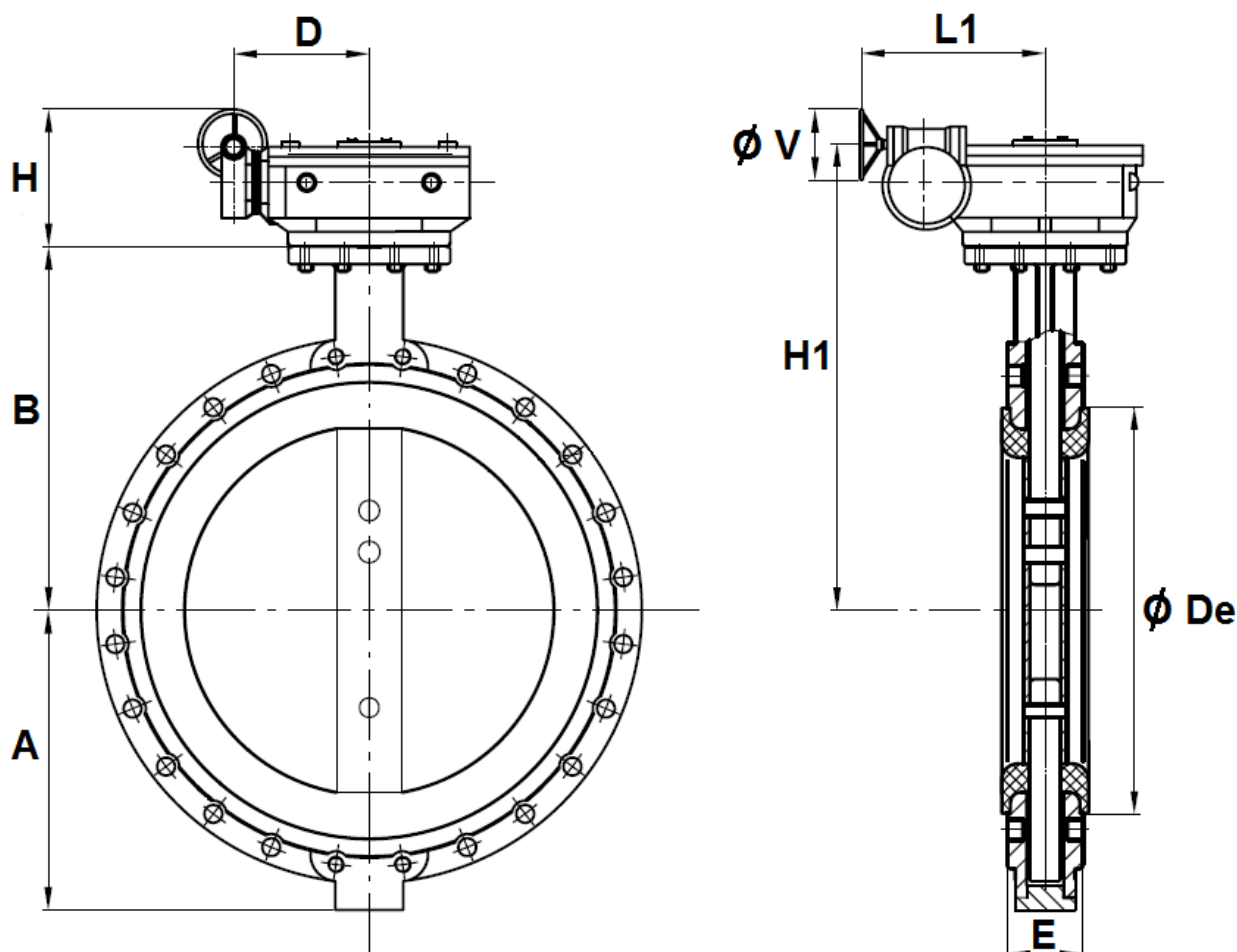


Ref.	DN	350	400	450	500	600
AK011	A	260	307	339	368	459
	B	334	361	401	480	565
	D	223	270	270	339	339
	Ø De	418	470	525	570	697
	E	78	102	114	127	154
	H	190	208	258	222	222
	H1	379	423	463	545	630
	L1	78	120	120	120	120
	Ø V	300	400	400	300	300
	Weig. (Kg)	54.5	89.85	107.4	155.8	231.1

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VALVES SIZE (in mm) :

- VALVES WITH GEAR BOX DN 700 - 1200 :

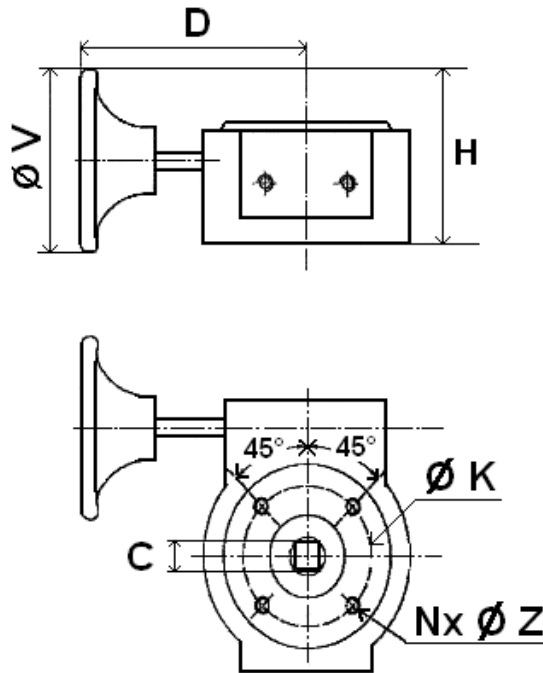


Ref.	DN	700	800	900	1000	1200
AK011	A	520	591	656	721	860
	B	624	672	720	800	941
	D	367	367	410	410	500
	Ø De	800	906	1015	1134	1331
	E	163	188	203	216	276
	H	382	382	476	476	528
	H1	725	785	944	994	1228
	L1	243	243	278	278	458
	Ø V	400	400	450	450	450
	Weig. (Kg)	372	456	831	982	1510

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GEAR BOX SIZE (in mm):

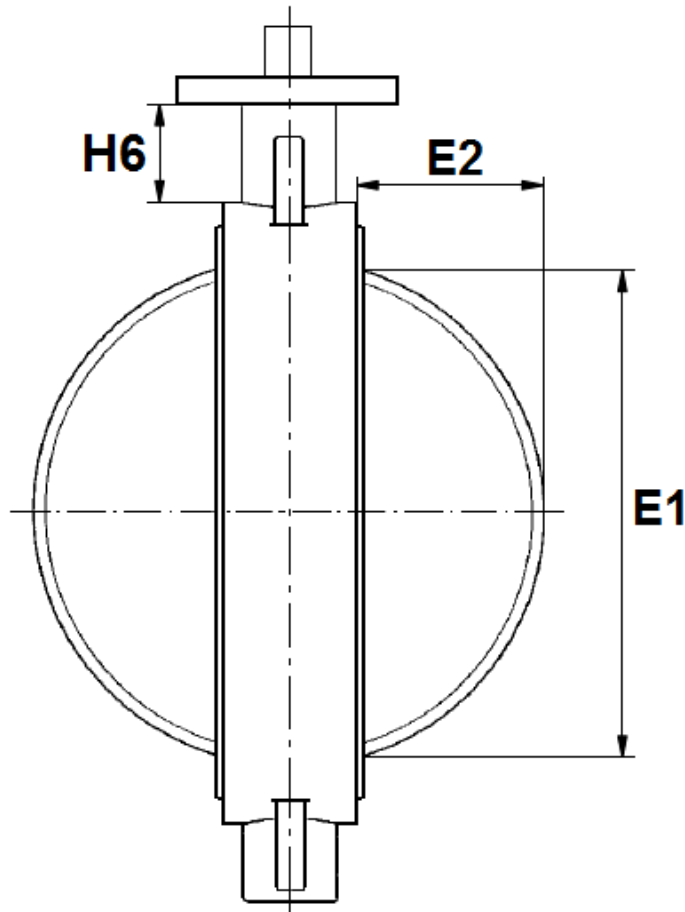
- **GEAR BOX DN 32/40 - 300 :**



Ref.	DN	32/80	100	125/150	200	250	300
AK011G	C	9	11	14	17	22	27
	Ø K	50	50	70	102	125	125
	Nx ØZ	4 x 6	4 x 6	4 x 8	4 x 10	4 x 12	4 x 12
	D	156	156	156	241	223	223
	H	116	116	168	193	190	190
	Ø V	150	150	250	300	300	300
	Weig. (kg)	3.51	4.22	3.53	6.99	7.42	9.6

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DISC AND NECK SIZE (in mm) :

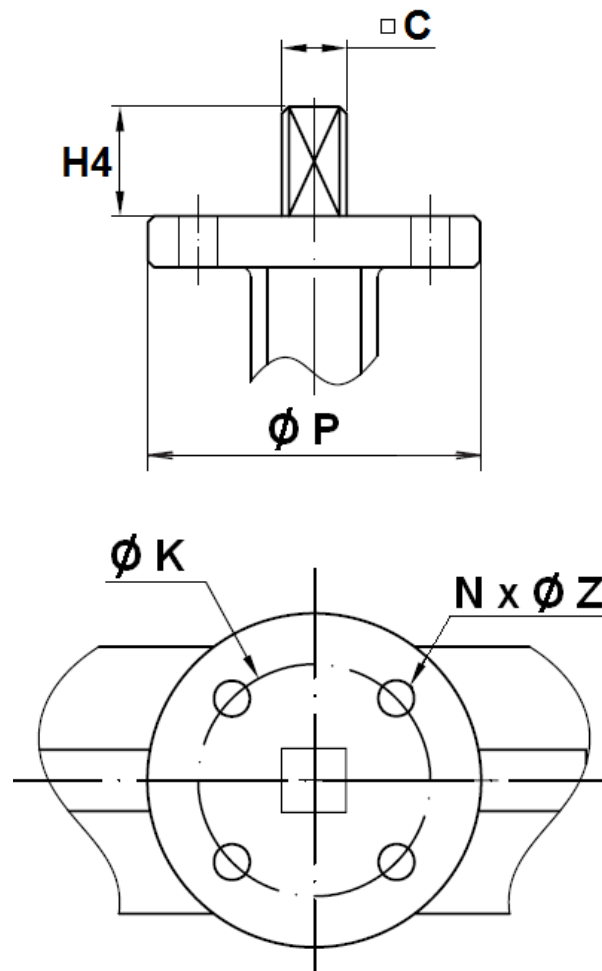


DN	32/40	50	65	80	100	125	150	200	250	300	350	400	450	500	600
E1 ±1	22.8	26	41.2	61.1	88	109.2	144	192.3	240	290.5	323.4	375	424.5	473.7	570.9
E2 ±2	4.9	5	9.4	16.5	26.1	33.9	49.7	71.2	91.2	111.8	127.8	143.9	163.3	182.3	219.3
H6 ±2	76.7	79	79	87.5	92.3	90.3	99.2	99.5	103.8	105.8	105.8	109.5	113	172	192

DN	700	750	800	900	1000	1200
E1 ±1	672.8	723.5	770.1	838.5	937	1122.1
E2 ±2	265.3	288.5	303.2	330.8	373.7	441
H6 ±2	200	201	190	179	206.5	228

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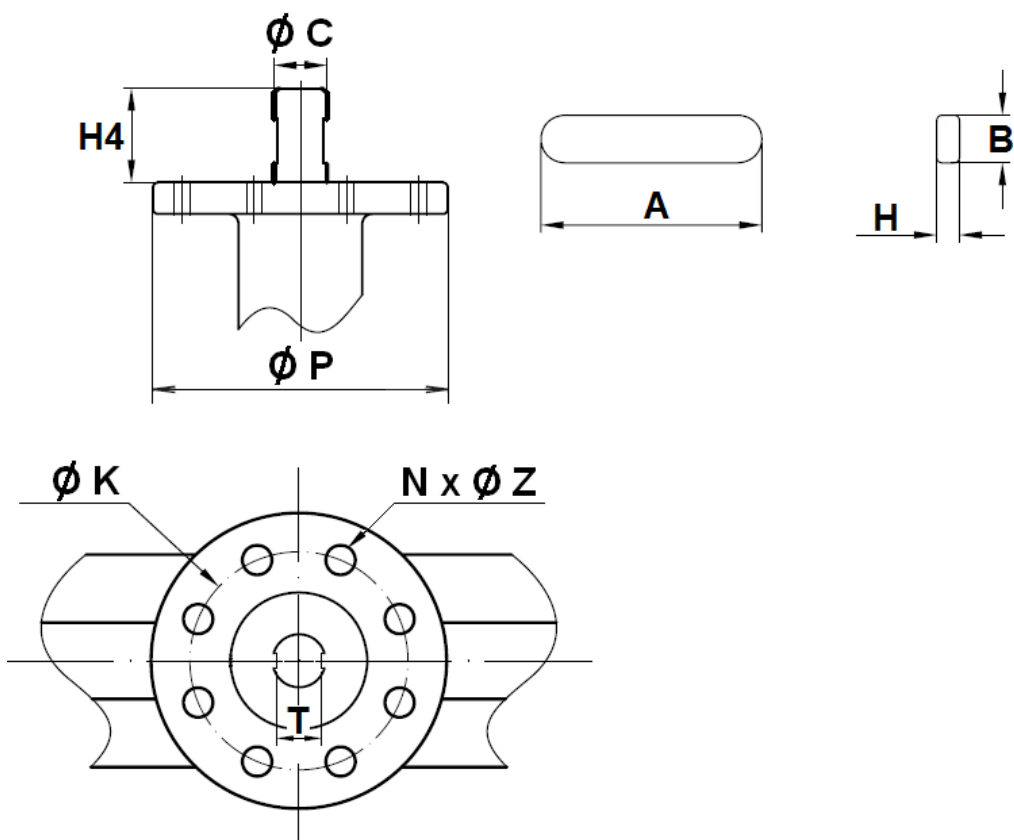
ISO MOUNTING PAD SIZE (in mm) DN 32 – 600 :



DN	32/40	50	65	80	100	125	150	200	250	300	350	400	450	500	600
C	9	9	9	9	11	14	14	17	22	27	27	27	30	36	46
Ø K	50	50	50	50	50	70	70	102	125	125	125	125	165	165	165
ISO	F05	F05	F05	F05	F05	F07	F07	F10	F12	F12	F12	F12	F16	F16	F16
Nx ØZ	4 x 7	4 x 7	4 x 7	4 x 7	4 x 7	4 x 9	4 x 9	4 x 11	4 x 13	4 x 13	4 x 14	4 x 14	4 x 22	4 x 22	4 x 22
H4	32	32	32	32	32	42	42	36	38	38	45	50	50	65	70
Ø P	65	65	65	65	65	90	90	125	150	150	150	150	210	210	300

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ISO MOUNTING PAD SIZE (in mm) DN 700 – 1200 :



DN	700	800	900	1000	1200
ϕC	63.35	63.35	75	85	105
ϕK	254	254	254	254	298
ISO	F25	F25	F25	F25	F30
$N \times \phi Z$	8 x 18	8 x 18	8 x 18	8 x 18	8 x 22
H4	80	80	118	142	150
ϕP	300	300	300	300	350
A	60	60	100	110	110
B	18	18	20	22	28
H	11	11	12	14	16

ZWISCHENFLANSCH ABSPERRKLAPPE AK011

STANDARDS :

- Fabrication according to ISO 9001 :2008
- DIRECTIVE 97/23/CE : CE N° 0035
Risk category I-III module H
- Tests according to API 598
- Length according to ISO 5752 series 20, EN 558 series 20 (NF 29305)
- ISO 5211 mounting pad
- Between flanges according to EN 1092-1

INSTALLATION INSTRUCTIONS

GENERAL GUIDELINES :

- Ensure that the valves to be used are appropriate for the conditions of the installation (type of fluid, pressure and temperature).
- Be sure to have enough valves to be able to isolate the sections of piping as well as the appropriate equipment for maintenance and repair.
- Ensure that the valves to be installed are of correct strength to be able to support the capacity of their usage.
- **Installation of all circuits should ensure that their function can be automatically tested on a regular basis (at least two times a year).**

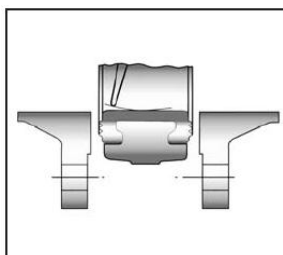
INSTALLATION INSTRUCTIONS :

- **Before installing the valves, clean and remove any objects from the pipes** (in particular bits of sealing and metal) which could obstruct and block the valves.
- **Ensure that both connecting pipes either side of the valve (upstream and downstream) are aligned (if they're not, the valves may not work correctly).**

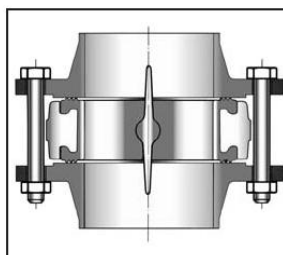
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INSTALLATION INSTRUCTIONS (SUITE) :

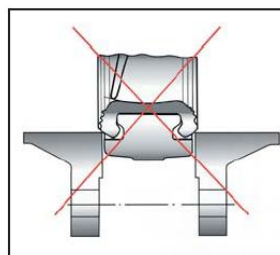
- **Make sure that the two sections of the pipe (upstream and downstream) match, the valve unit will not absorb any gaps. Any distortions in the pipes may affect the tightness of the connection, the working of the valve and can even cause a rupture. To be sure, place the kit in position to ensure the assembling will work.**
- **If sections of piping do not have their final support in place, they should be temporarily fixed. This is to avoid unnecessary strain on the valve.**
- The valve must be inserted between flanges with disc half opened but the disc must not overpass the valve thickness. Position the bolts to keep centered the valve. Then open fully the valve and tighten the bolts. **See graph under.**



Half open valve introduction



Complete opened disc valves
when screw tightening



- Tighten the bolts in cross.
- The disc must move easily inside the pipe.
- Valves must be opened during cleaning operation.
- Tests must be done with a cleaned pipe.
- Tests must be done with opened valve. Test pressure must not be higher than the valve specification according to EN 12266-1.
- Then open slowly the valve.
- **Do not mount butterfly valves with stainless steel pressed collars and turning flanges without strias.**
- **And not on flat face flanges without strias (example : painted cast iron fittings)**

MAINTENANCE :

- We recommend to operate fully the valve 1 to 2 times per year.
- During maintenance operation, ensure that the pipe isn't under pressure, that there's no fluid in the pipe and that the valve is isolated. If there's a fluid in the pipe, evacuate it. Ensure that there are no risks due to the temperature or the fluid (like acids). If the fluid is corrosive, inert the installation before maintenance operation.