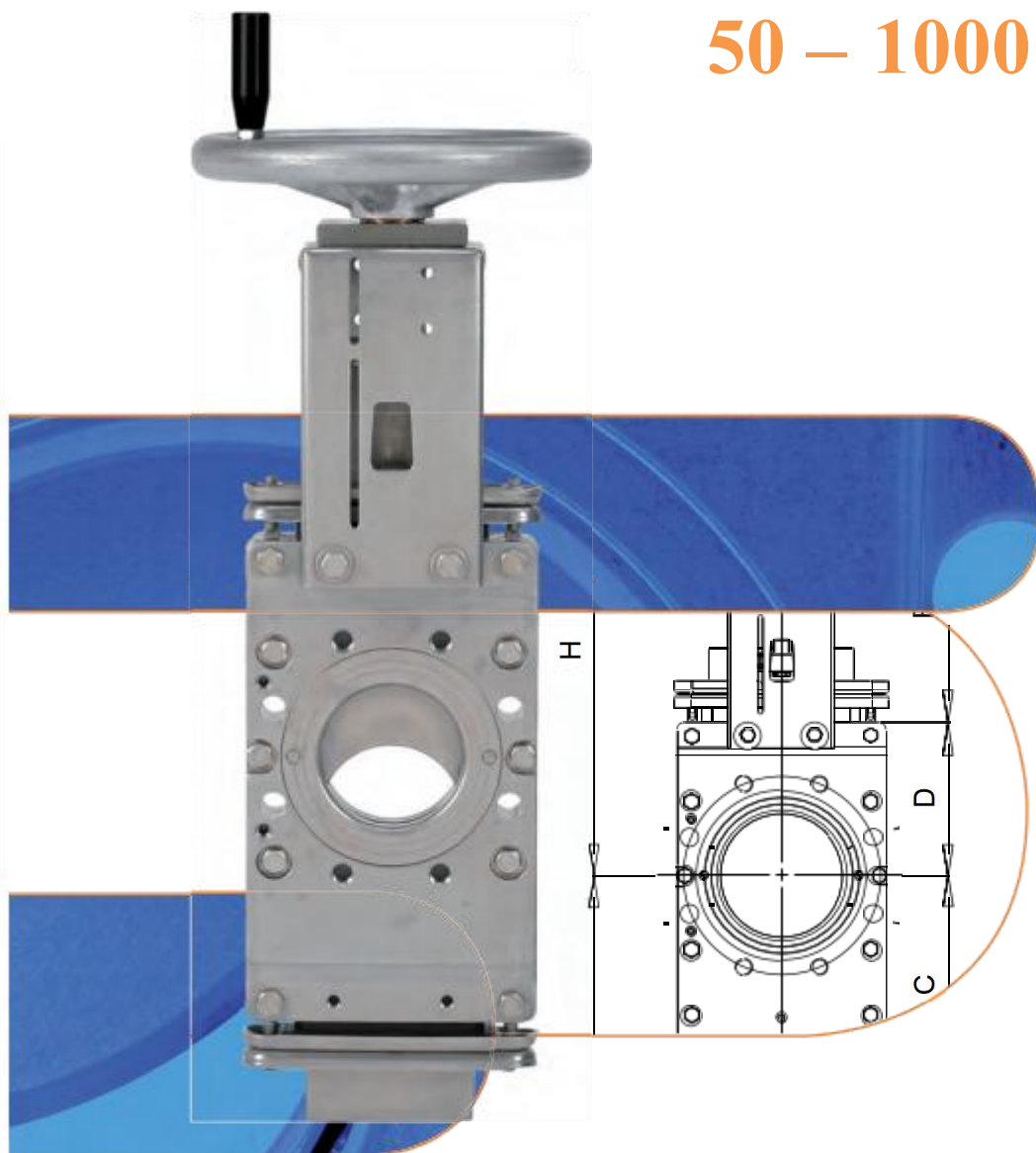


Valves of stainless steel · COMPACT-Program

Shut-Off-Valves with through-going valve plate

SKF-ZCT673N-10P

50 – 1000 mm



Applications



Paper industry

SIKAIFU stock valves with through-going slide plate have been successfully tested thousands of times in all areas of the pulp and paper industry. Valve types CDS and CDSV are installed as shut-off valves for pulp with a high degree of contamination, owing to their absolutely smooth, pocket-free passage.



Chemical industry and food industry

SIKAIFU stock valves with through-going slide plate, in special design with food-grade components, are used as shut-off valves and regulating valves for viscous, pulverulent, granular and sticky substances.



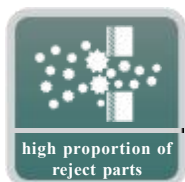
Waste treatment plants

SIKAIFU stock valves with through-going slide plate can be found in waste treatment plants for the shutting off of viscous and aggressive substances.

Special valves

On request we can supply specially designed valves of the most varied materials (e. g. titan) for special fields of application.

Media



Construction

Housing entirely of stainless steel

- corrosion and acid resistant
- easy to maintain
- the handwheel support also serves as a mounting for any control apparatus and protection guard

Slide cups of special plastic

- abrasion resistant
- excellent anti-friction properties
- temperature resistant
- acid resistant
- easily replaceable

Valve plate of stainless steel

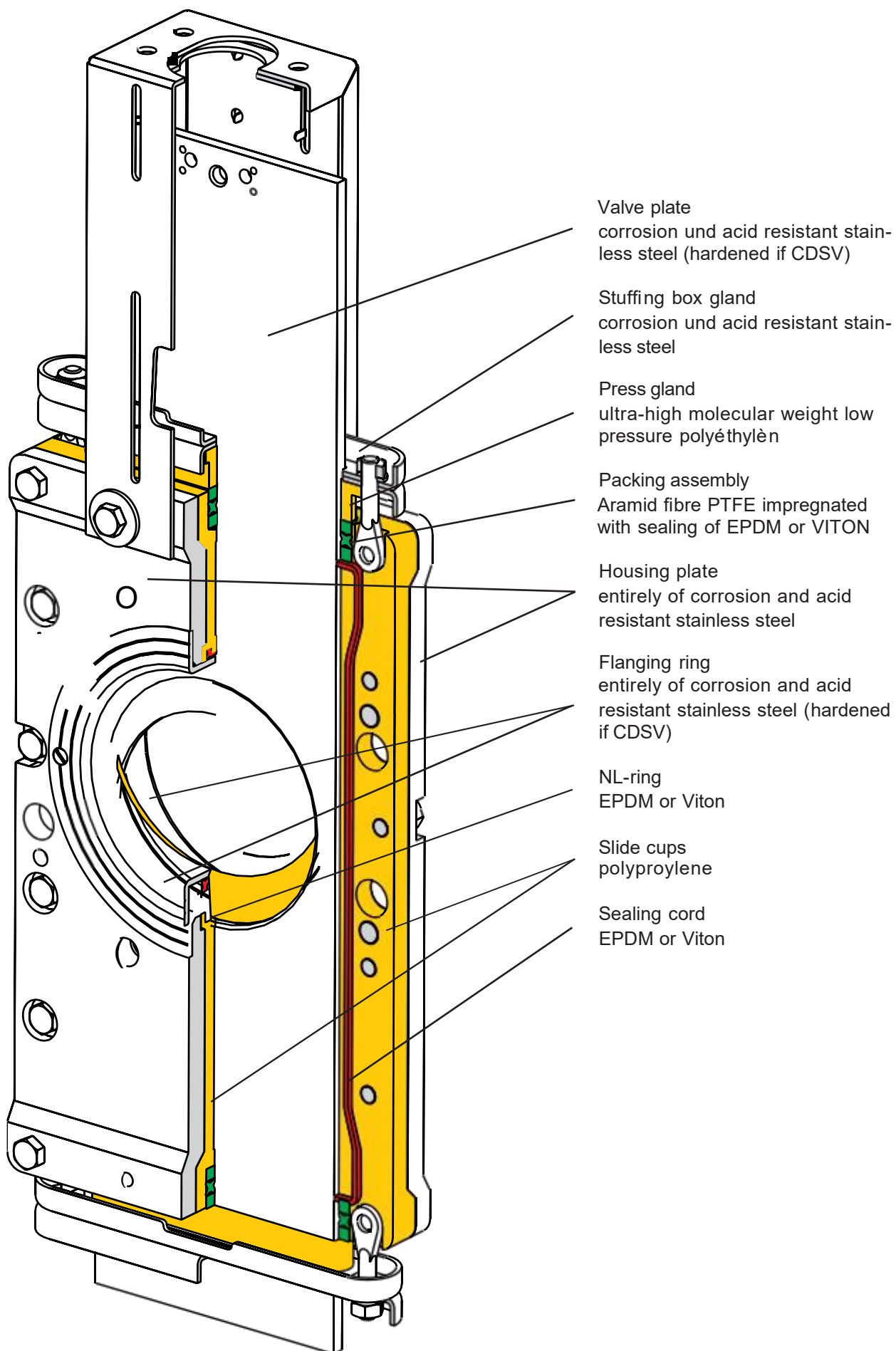
- corrosion and acid resistant – type CDSV has a hardened valve plate
- bare cross section = nominal diameter of piping
- no stringing of fibres is possible
- free of dead space in open position

100 % water-tight in both directions

- seals resistant to temperature and acids
- seals easily replaceable but firmly anchored in the valve housing
- Leak test according to DIN EN 12266-02:2012-04 Table A5, test medium liquid, leakage rate A

Actuating elements in well-proved modular system

- interchangeable an all valves of our make
- also interchangeable on the incorporated existing valve
- reduced stock holding



Materials

- housing

DN 50 – 400	1.4301
DN 450 – 600	1.4541
DN 700 – 1000	1.4571
- flanging ring

DN 50 – 65	1.4571
DN 80	1.4404
DN 100 – 1000	1.4571
- valve plate 1.4571
- slide cups

DN 50 – 600	PP
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- sealing EPDM or VITON
- slide parts

DN 700 – 1000	CuSn6 / CuAl10Ni
---------------	------------------
- stuffing box gland 1.4301
- packing assembly

DN 50 – 500:	
packing	aramid fibre with impregnation of PTFE
p-ring	EPDM, VITON or NBR
DN 600	aramid fibre with PTFE
DN 700 – 1000:	
packing	aramid fibre with impregnation of PTFE
p-ring	EPDM, VITON or NBR
- press gland

DN 50 -150	PE-HMW (RCH 500)
------------	------------------
- bracket 1.4301
- screws / nuts A2
- max. operating pressure

DN 50 – 250	8 bar
DN 300 – 400	6 bar
DN 450 – 600	4 bar
DN 700 – 800	2.5 bar
DN 900 – 1000	2 bar
- max. operating temperature 120° C

Type CDSV similar, but with hardened flanging rings and valve plate.

Operating elements – the SIKAIFU modular system

All SIKAIFU COMPACT-valves comprise the following main groups:

- valve body type: CDS, CDSV
- operating elements type Hns, H, P, PV, E,GK, K, X

All elements are interchangeable for any given size. Thereby the connections of brackets as well as the coupling of actuator and valve plate will be removed and fixed again after the exchange. No removal of incorporated valve body (notice safety rules – pipes must be pressureless).

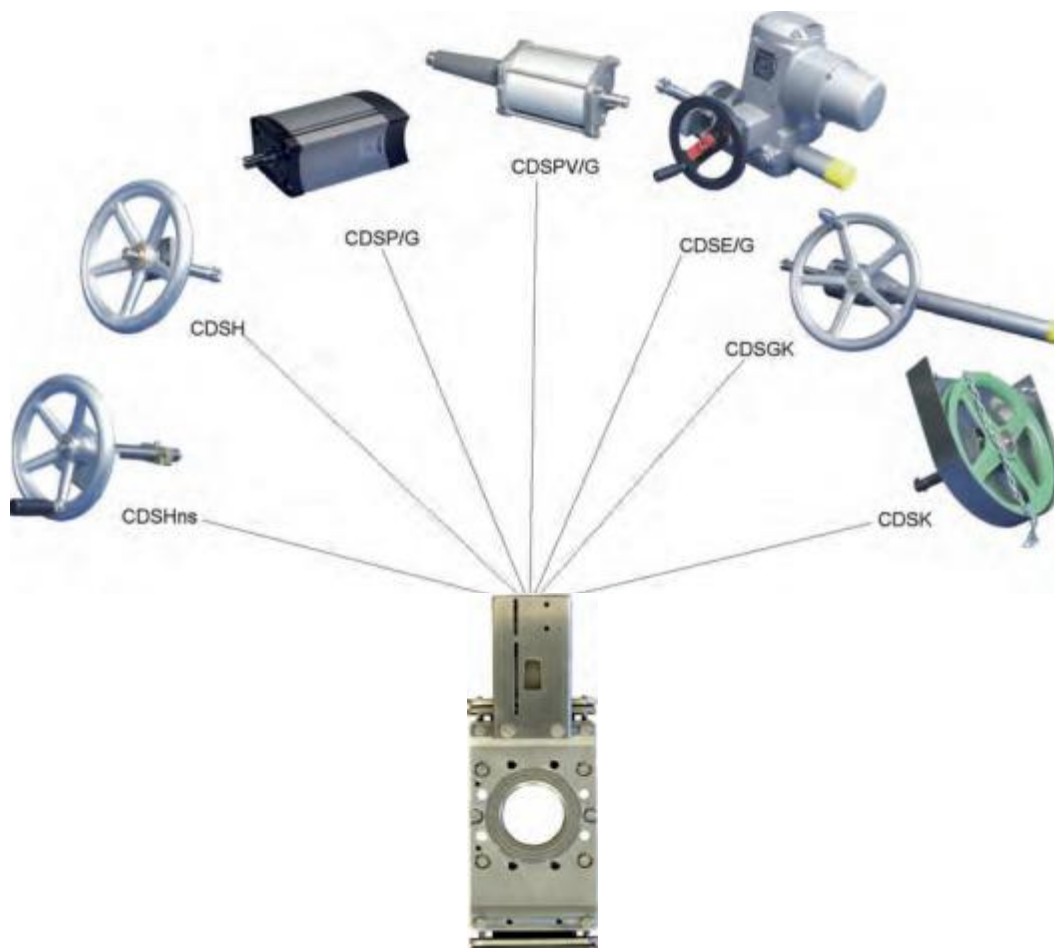
This facility is called the **SIKAIFU modular system** which offers the following advantages:

- simplified and less expensive holding of spare parts.
- in case of damage, actuating elements can be replaced inexpensively.
- if any valve drives have to be altered, replacement is easy and quick

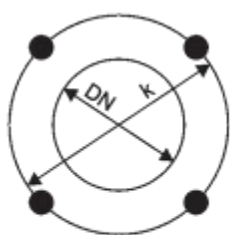
Protection guards (G)

According to machinery directive 2006/42/EG guards are compulsory to shield all moving parts on automated gate valves.

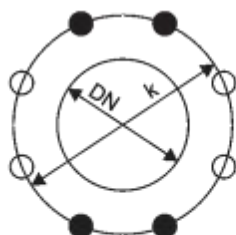
Protection guard of stainless steel.



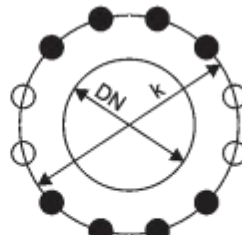
**Flange bores for SIKAIFU COMPACT-valves
according to DIN EN 1092-1, PN 10**



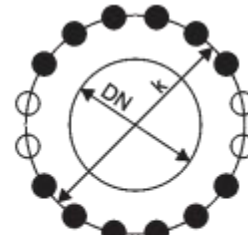
DN 50-65



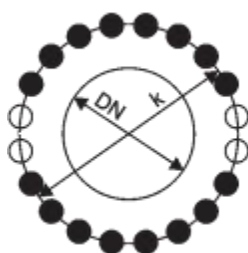
DN 80-200



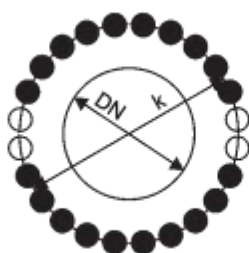
DN 250-300



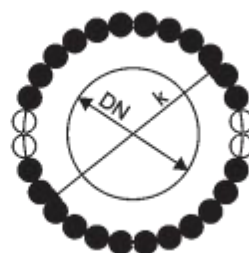
DN 350-400



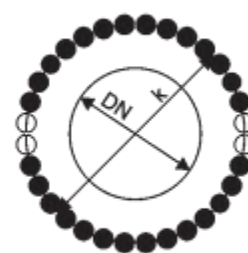
DN 450-600



DN 700-800

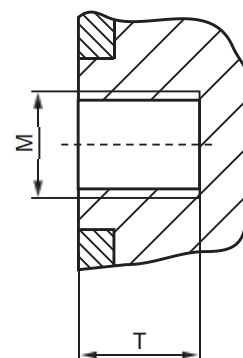


DN 900-1000



DN 1100-1200

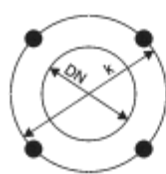
DN [mm]	K [mm]	Z	M	T [mm]	Z1	Z2
50	125	4	M16	12	4	-
65	145	4	M16	12	4	-
80	160	8	M16	12	4	4
100	180	8	M16	12	4	4
125	210	8	M16	12	4	4
150	240	8	M20	16	4	4
200	295	8	M20	16	4	4
250	350	12	M20	20	8	4
300	400	12	M20	20	8	4
350	460	16	M20	20	12	4
400	515	16	M24	23	12	4
450	565	20	M24	30	16	4
500	620	20	M24	30	16	4
600	725	20	M27	35	16	4
700	840	24	M27	40	20	4
800	950	24	M30	45	20	4
900	1050	28	M30	45	24	4
1000	1160	28	M33	45	24	4
1100	1270	32	M33	50	28	4
1200	1380	32	M36	55	28	4



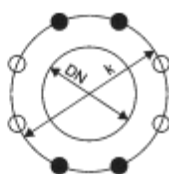
Z = total number of holes
 Z1 = number of joint-holes
 Z2 = number of through-going
 bores
 T = usable depth of thread

Flange bores for SIKAIFU COMPACT-valves

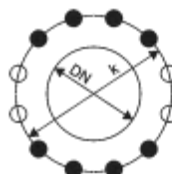
according to ANSI B 16.5 Class 150 (> DN 700: ANSI B 16.47 Class 150)



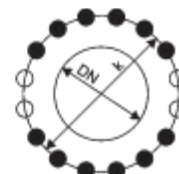
DN 50-80



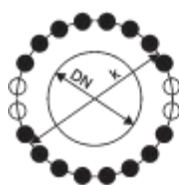
DN 100-200



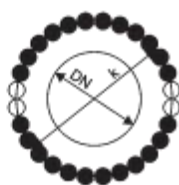
DN 250-350



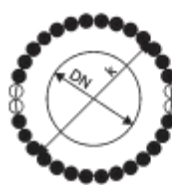
DN 400-450



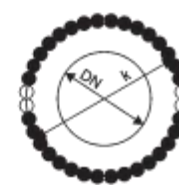
DN 500-600



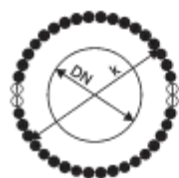
DN 700-800



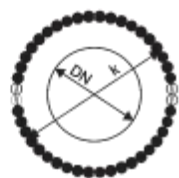
DN 900



DN 1000

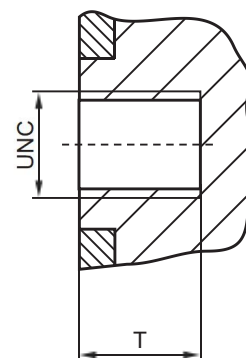


DN 1100



DN 1200

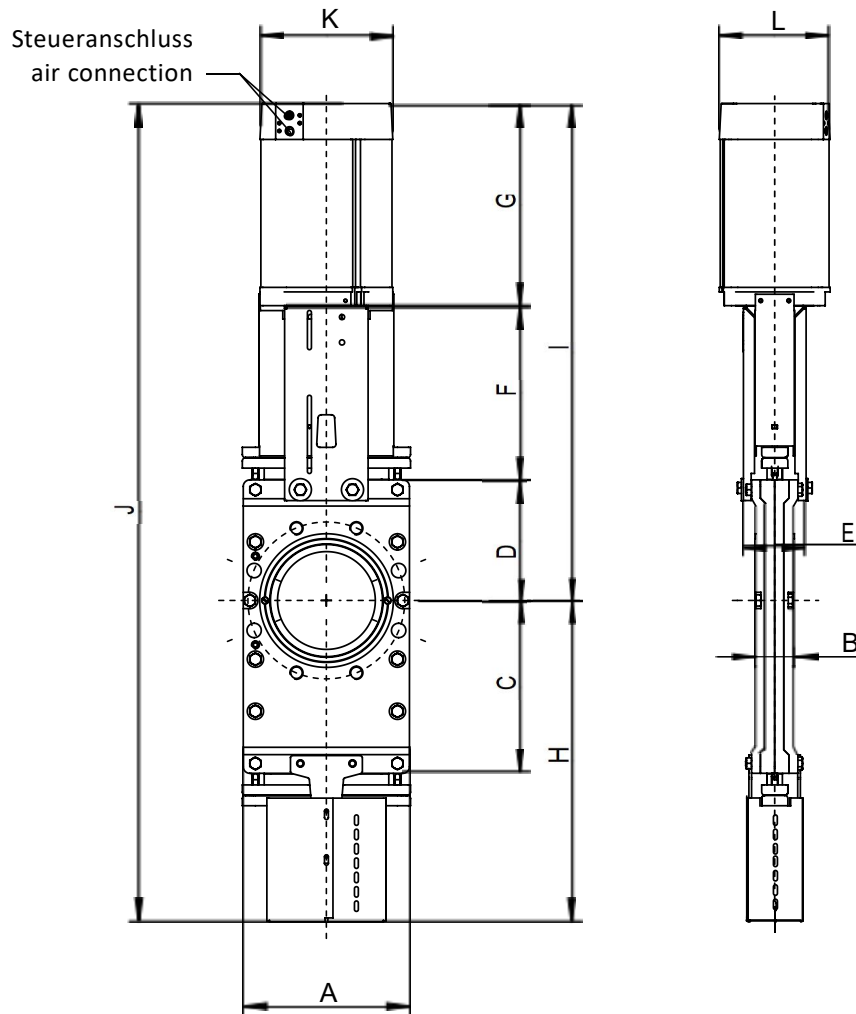
DN [mm]	DN [inch]	K [mm]	K [inch]	Z	UNC	T [mm]	T [inch]	Z1	Z2
50	2	120.6	4 3/4	4	5/8"-11	12	0.472	4	-
65	2.5	139.7	5 1/2	4	5/8"-11	12	0.472	4	-
80	3	152.4	6	4	5/8"-11	12	0.472	4	-
100	4	190.5	7 1/2	8	5/8"-11	12	0.472	4	4
125	5	215.9	8 1/2	8	3/4"-10	12	0.472	4	4
150	6	241.3	9 1/2	8	3/4"-10	16	0.630	4	4
200	8	298.5	11 3/4	8	3/4"-10	16	0.630	4	4
250	10	362	14 1/4	12	7/8"-9	20	0.787	8	4
300	12	431.8	17	12	7/8"-9	20	0.787	8	4
350	14	476.3	18 3/4	12	1"-8	20	0.787	8	4
400	16	539.8	21 1/4	16	1"-8	23	0.910	12	4
450	18	577.9	22 3/4	16	1 1/8"-7	30	1.181	12	4
500	20	635	25	20	1 1/8"-7	30	1.181	16	4
600	24	749.3	29 1/2	20	1 1/4"-7	35	1.378	16	4
700	28	863	34	28	1 1/4"-7	40	1.575	24	4
800	32	978	38 1/2	28	1 1/2"-6	45	1.772	24	4
900	36	1086	42 3/4	32	1 1/2"-6	45	1.772	28	4
1000	40	1200	47 1/4	36	1 1/2"-6	45	1.775	32	4
1100	44	1314	51 3/4	40	1 1/2"-6	50	1.969	36	4
1200	48	1422	56	44	1 1/2"-6	55	2.165	40	4



Z = total number of holes
 Z1 = number of joint-holes
 Z2 = number of through-going bores
 T = usable depth of thread

**COMPACT-shut-off valve with through-going valve plate
pneumatic cylinder and protection guard**

Type ZCT similar, but with hardened valve plate and flanging rings

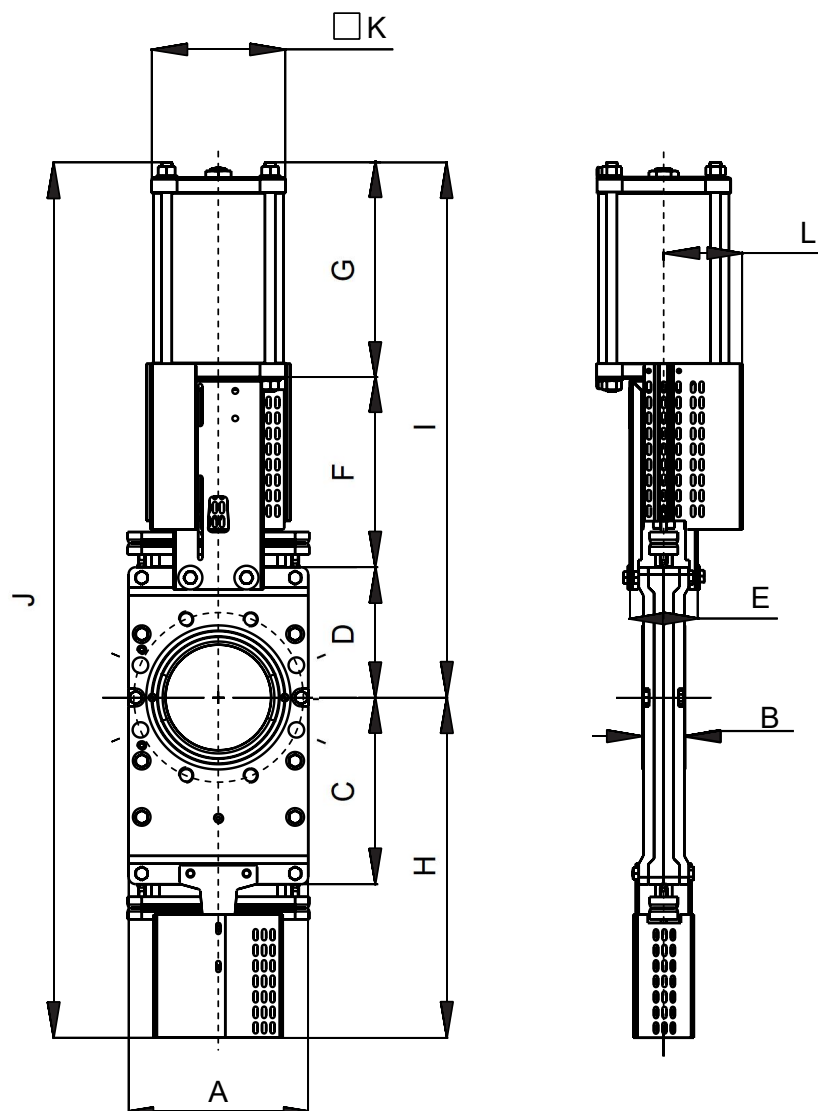


DN	BD [bar]	A	B	C	D	E	F	G	H	I	J	K	L	cyl Ø	air connec- tion	weigh ~[kg]
50	8	160	40	125	125	85	160	182	245	467	712	139	109	100	G 1/4"	15.3
65	8	160	40	140	140	85	160	197	260	497	757	139	109	100	G 1/4"	15.4
80	8	185	50	160	145	85	176	210	301	531	832	139	109	100	G 1/4"	15.5
100	8	205	49	190	155	96	207	253	358	615	973	165	135	125	G 1/4"	31.9
125	8	235	50	230	170	96	233	279	431	682	1113	165	135	125	G 1/4"	36.1
150	8	255	60	265	185	96	268	310	493	763	1256	204	170	160	G 1/4"	49.4
200	8	325	60	355	222	118	315	388	651	925	1576	244	215	200	G 1/2"	84.4
250	8	400	70	440	263	127	368	433	805	1064	1869	244	215	200	G 1/2"	134
300	6	430	70	505	300	127	427	515	915	1242	2157	283	242	230	G 1/2"	163

Dimensions in mm, flange dimensions to DIN EN 1092-1, PN 10 or ANSI B 16.5 Class 150 (> DN 700: ANSI B 16.47 Class 150);
air connection acc. VDI/VDE 3845 (NAMUR).
Further sizes on request.

**COMPACT-shut-off valve with through-going valve plate
pneumatic cylinder and protection guard**

Type ZCT similar, but with hardened valve plate and flanging rings

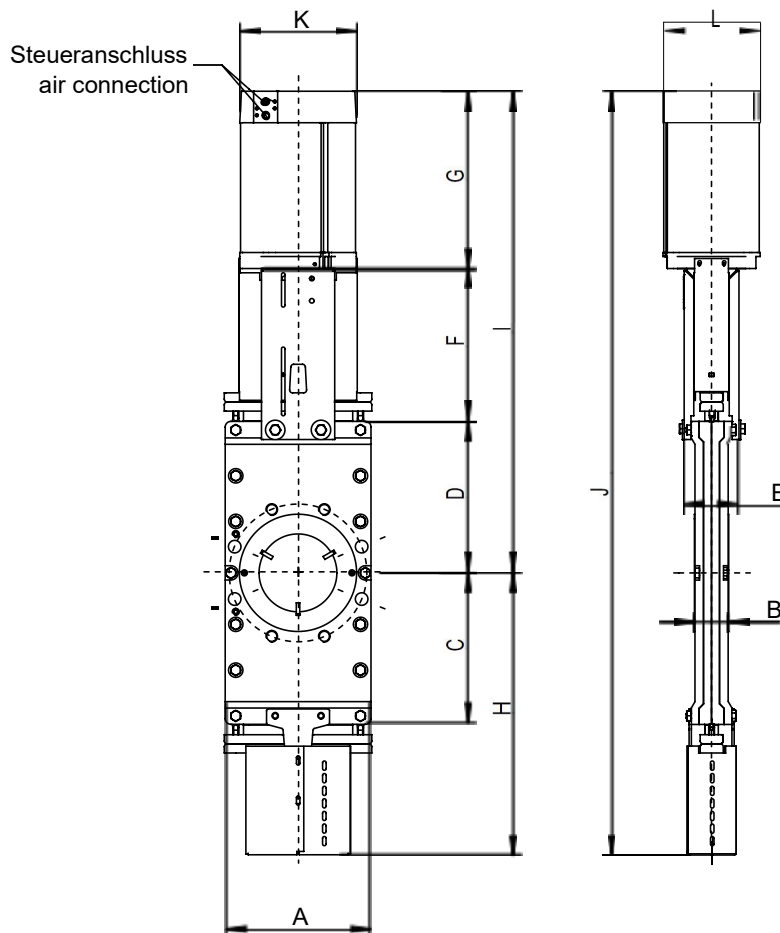


DN	BD [bar]	A	B	C	D	E	F	G	H	I	J	K	L	cyl Ø	air connec- tion	weigh ~[kg]
350	6	490	70	580	340	167	511	571	1011	1422	2433	318	159	300	G 1/2"	235
400	6	570	90	655	385	189	610	621	1132	1616	2748	318	159	300	G 1/2"	320
450	4	630	110	750	435	208	680	666	1367	1781	3148	318	159	300	G 1/2"	519
500	4	700	110	840	470	228	735	789	1457	1994	3451	425	425	400	G 3/4"	718
600	4	810	130	1000	545	368	850	889	1720	2284	4004	425	425	400	G 3/4"	1046
700	2.5	960	150	1155	645	306	996	986	1995	2627	4622	645	645	500	G 3/4"	
800	2.5	1060	150	1310	710	306	1136	1086	2226	2932	5158	645	645	500	G 3/4"	

Dimensions in mm, flange dimensions to DIN EN 1092-1, PN 10 or ANSI B 16.5 Class 150 (> DN 700: ANSI B 16.47 Class 150).
Further sizes on request.

COMPACT-shut-off-valve

with through-going valve plate, extended housing, valve plate and flanging rings hardened, conical inlet with turbulence interrupter (ribs),
with pneumatic cylinder and protection guard

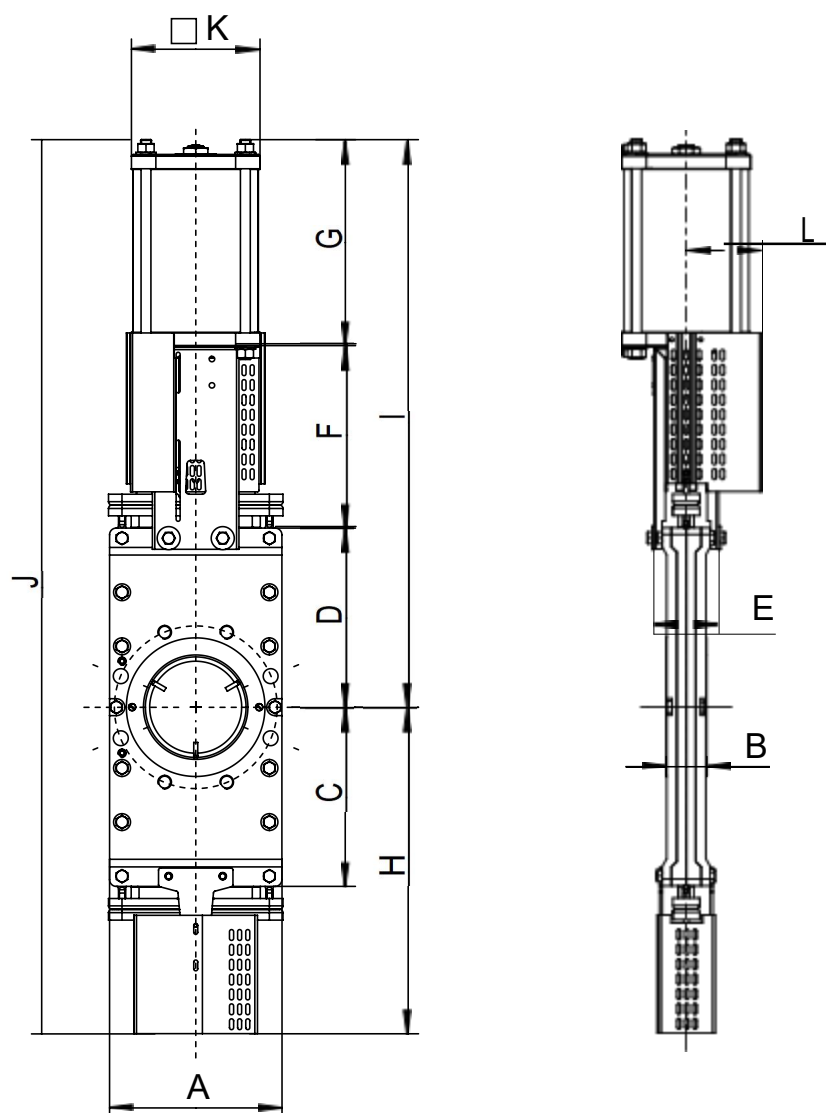


DN	BD [bar]	A	B	C	D	E	F	G	H	I	J	□ K	L	cyl Ø	air connecion
50	8	160	40	125	125	85	160	200	242	485	727	138	108	125	G 1/4"
65	8	160	40	140	140	85	160	206	257	506	763	138	108	125	G 1/4"
80	8	185	50	160	160	85	176	221	298	557	855	138	108	125	G 1/4"
100	8	205	49	190	190	96	207	243	350	640	990	158	114	145	G 1/4"
125	8	235	50	230	230	96	233	272	412	735	1147	158	114	145	G 1/4"
150	8	255	60	265	265	96	270	305	483	840	1323	190	112	175	G 1/2"
200	8	325	60	355	355	120	315	352	626	1022	1648	215	125	200	G 1/2"
250	8	400	70	440	440	127	368	401	762	1209	1971	215	126	200	G 1/2"
300	6	430	70	505	505	127	427	670	883	1602	2485	283	242	230	G 1/2"
350	6	490	70	580	580	167	511	720	1011	1811	2822	283	242	230	G 1/2"

Dimensions in mm, flange dimensions to DIN EN 1092-1, PN 10 or ANSI B 16.5 Class 150 (> DN 700: ANSI B 16.47 Class 150);
air connection acc. VDI/VDE 3845 (NAMUR).
Further sizes on request.

COMPACT-shut-off-valve

with through-going valve plate, extended housing, valve plate and flanging rings hardened, conical inlet with turbulence interrupter (ribs),
with pneumatic cylinder and protection guard



DN	BD [bar]	A	B	C	D	E	F	G	H	I	J	□ K	L	cyl Ø	air connecon
400	6	570	90	655	655	189	610	621	1132	1886	3018	318	146	300	G 1/2"
450	4	630	110	750	750	208	680	666	1367	2096	3463	318	151	300	G 1/2"
500	4	700	110	840	840	228	735	789	1457	2364	3821	425	151	400	G 3/4"
600	4	810	130	1000	1000	368	850	889	1720	2739	4459	425	161	400	G 3/4"
700	2.5	960	150	1155	1155	306	996	986	1995	3137	5132	645	-	500	G 3/4"
800	2.5	1060	150	1310	1310	306	1136	1086	2226	3532	5758	645	-	500	G 3/4"

Dimensions in mm, flange dimensions to DIN EN 1092-1, PN 10 or ANSI B 16.5 Class 150 (> DN 700: ANSI B 16.47 Class 150).
Further sizes on request.