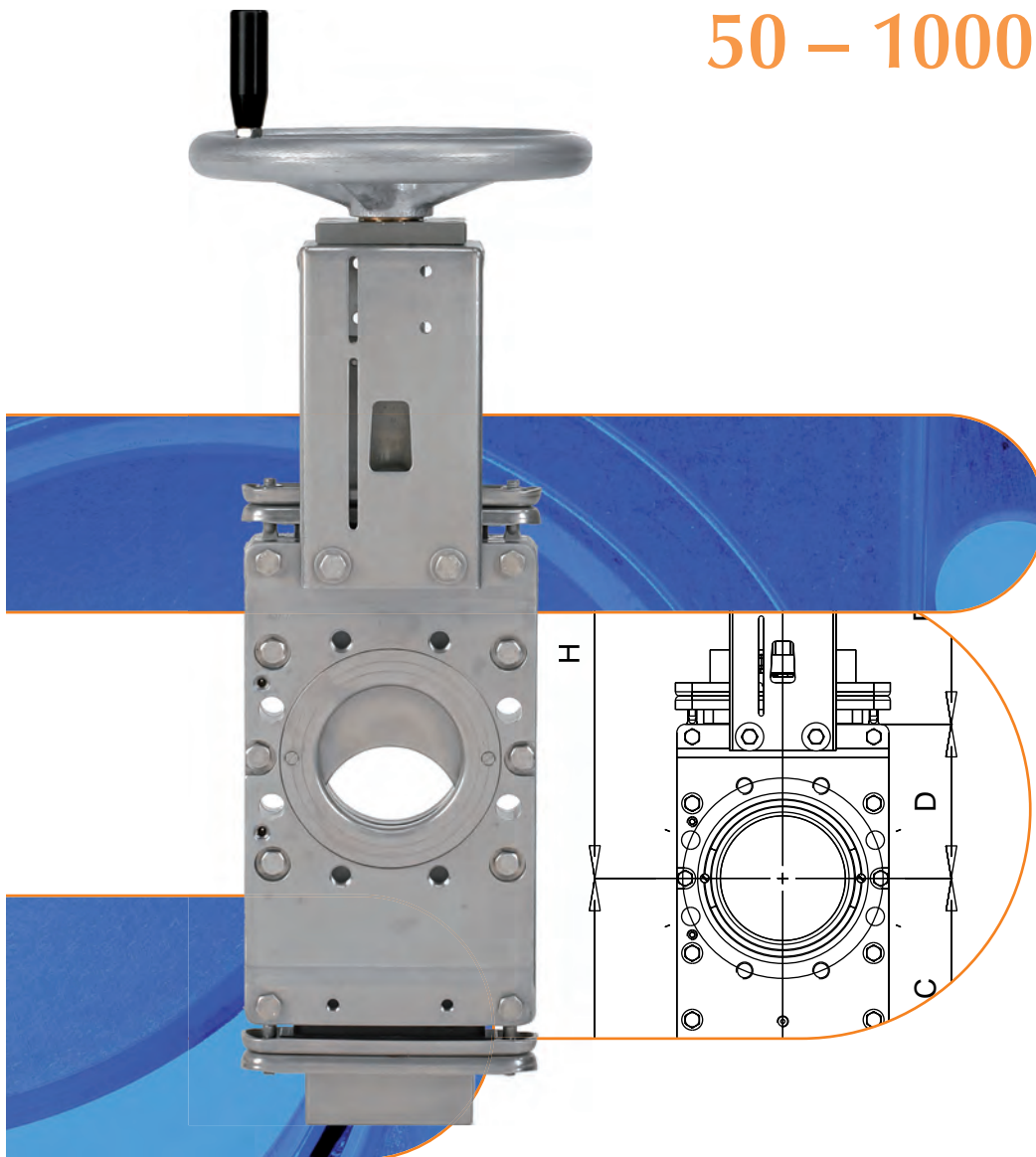


Valves of stainless steel · COMPACT-Program

# Shut-Off-Valves with through-going valve plate

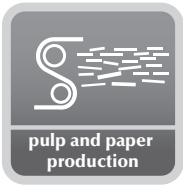
## CDS/CDSV/CDSR

### 50 – 1000 mm



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## Applications



### Paper industry

LOHSE 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

LOHSE 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.



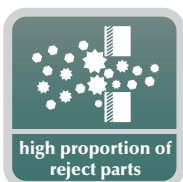
### Waste treatment plants

LOHSE 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

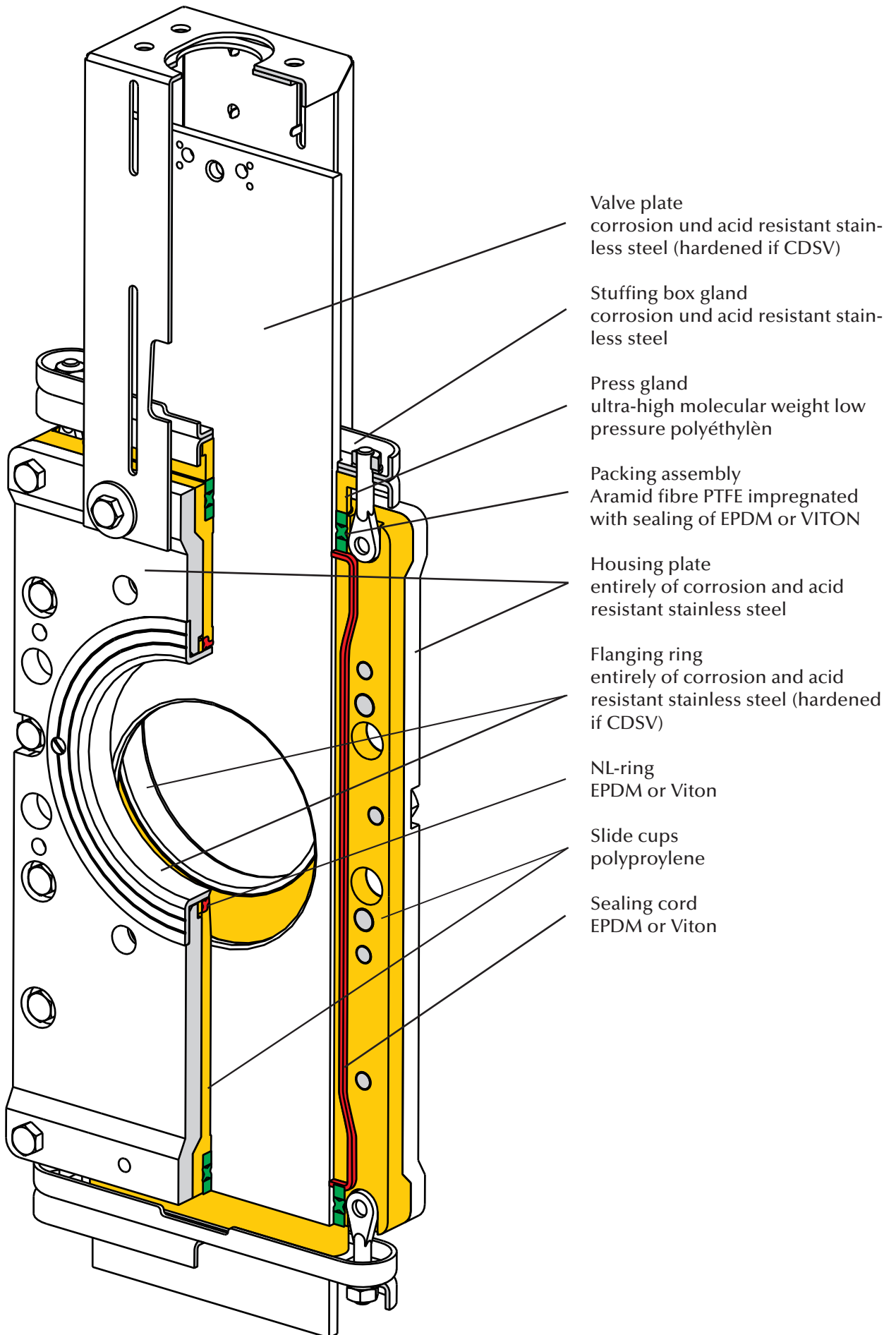
- corrosion and acid resistant – type CDSV has a hardened valve plate
- bare cross section = nominal diameter of piping
- no stringing of fibres is possible
- free of dead space in open position

### 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 LOHSE modular system

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



Valve plate  
corrosion und acid resistant stain-  
less steel (hardened if CDSV)

Stuffing box gland  
corrosion und acid resistant stain-  
less steel

Press gland  
ultra-high molecular weight low  
pressure polyéthylèn

Packing assembly  
Aramid fibre PTFE impregnated  
with sealing of EPDM or VITON

Housing plate  
entirely of corrosion and acid  
resistant stainless steel

Flanging ring  
entirely of corrosion and acid  
resistant stainless steel (hardened  
if CDSV)

NL-ring  
EPDM or Viton

Slide cups  
polypropylene

Sealing cord  
EPDM or Viton

## 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
- 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
- bracket 1.4301
- screws / nuts A2
- max. operating pressure
  - DN 50 – 250 8 bar
  - DN 300 – 500 6 bar
  - DN 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 LOHSE modular system

All LOHSE 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).

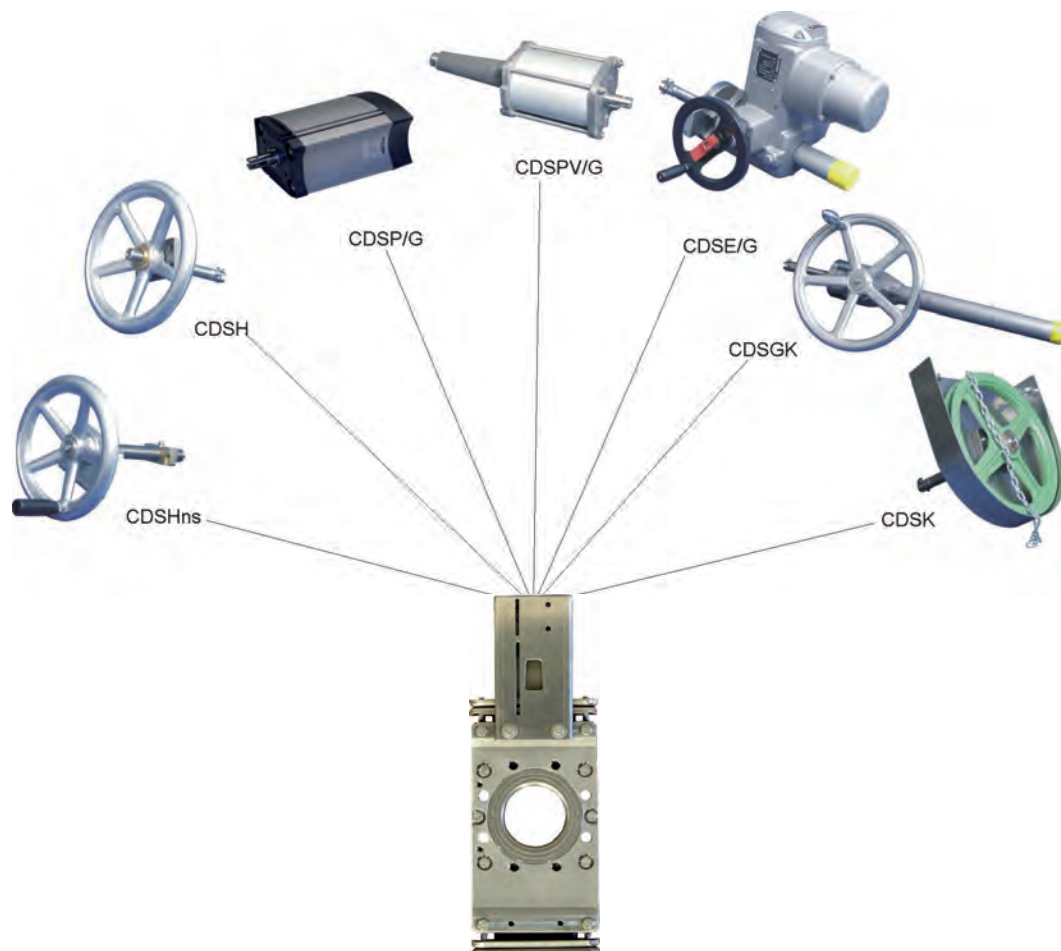
This facility is called the **LOHSE modular system** which offers the following advantages:

- 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

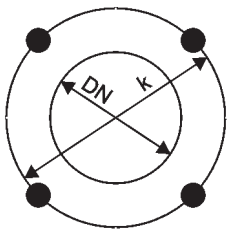
### Protection guards (G)

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

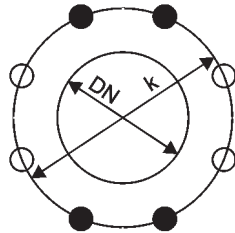
Protection guard of stainless steel.



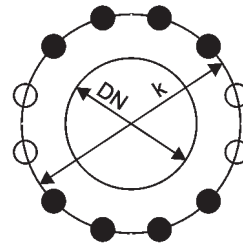
Flange bores for LOHSE COMPACT-valves according to DIN EN 1092-1, PN 10



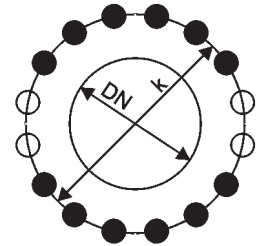
DN 50-65



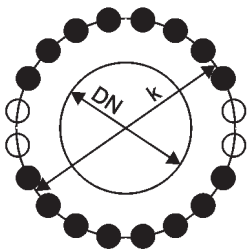
DN 80-200



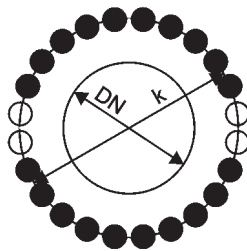
DN 250-300



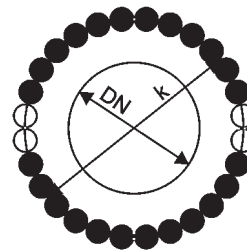
DN 350-400



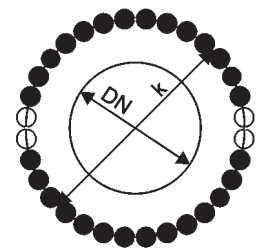
DN 450-600



DN 700-800

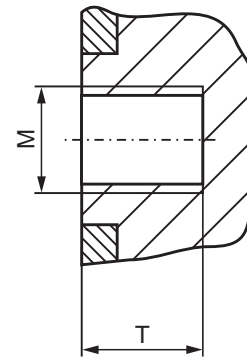


DN 900-1000



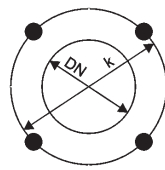
DN 1100-1200

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

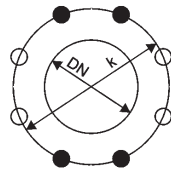


Z = total number of holes  
 Z1 = number of joint-holes  
 Z2 = number of through-going bores  
 T = usable depth of thread

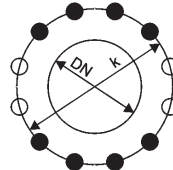
Flange bores for LOHSE COMPACT-valves  
according to ANSI B 16.5 Class 150 (≥ DN 700: ANSI B 16.47 Class 150)



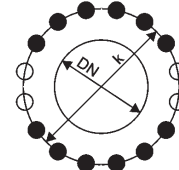
DN 50-80



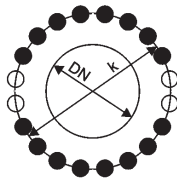
DN 100-200



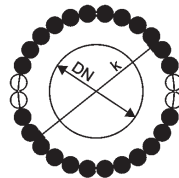
DN 250-350



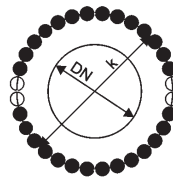
DN 400-450



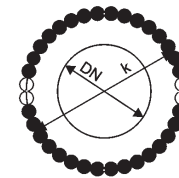
DN 500-600



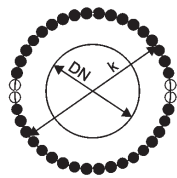
DN 700-800



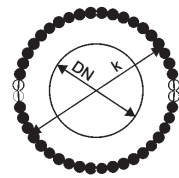
DN 900



DN 1000

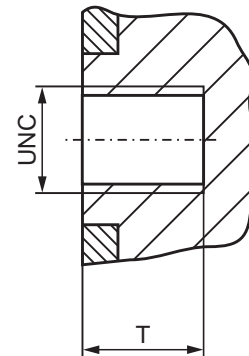


DN 1100



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



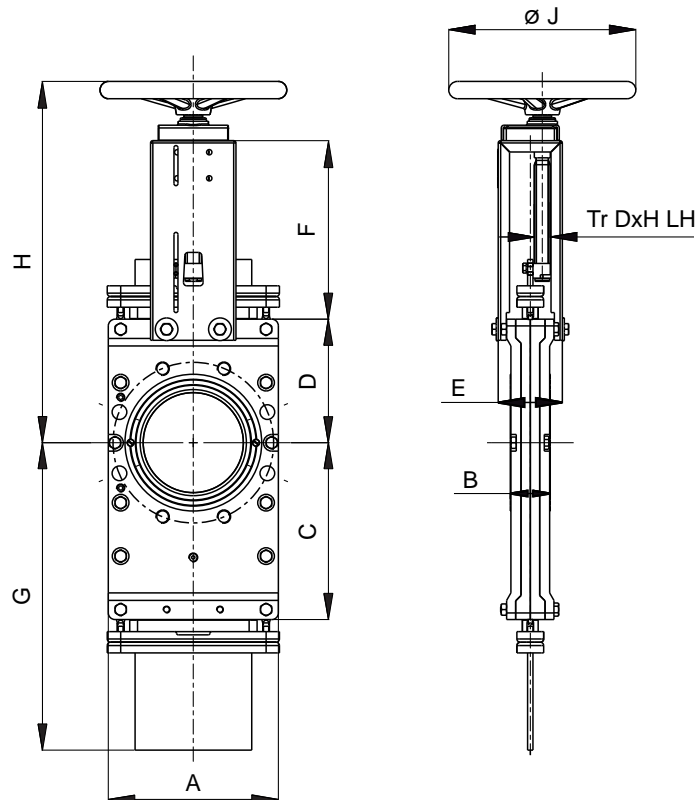
## Pressure ranges

DN	standard		options	
	flange connection *)	operating pressure [bar]	flange connection *)	operating pressure [bar]
50	PN 10	8	PN 16-25-40	40
65				
80				
100			PN 16-25	25
125				
150				
200		PN 16	16	
250				
300				
350				
400		PN 10	10	
450				
500				
600				
700		2.5		
800				

\*) Flange connection acc. to DIN EN 1092-1, PN...  
Other sizes on request.

COMPACT-shut-off valve with through-going valve plate  
handwheel drive with non-rising stem

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



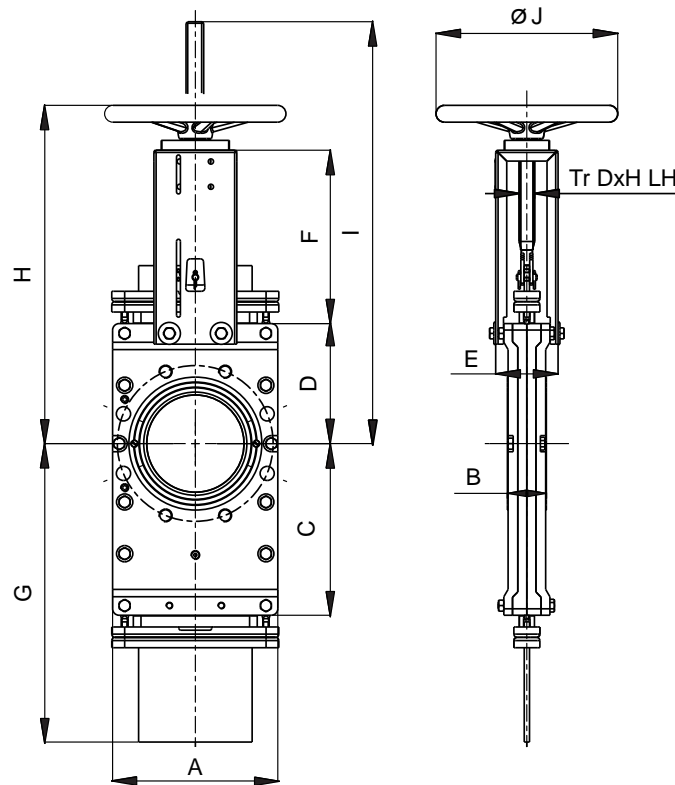
DN	PS [bar]	A	B	C	D	E	F	G	H	Ø J	Tr D x H LH	weight ~[kg]
50	8	160	40	125	125	85	160	212	368	225	20 x 4	13
65	8	160	40	140	140	85	160	238	383	225	20 x 4	13
80	8	185	50	160	145	85	176	282	404	225	20 x 4	16
100	8	205	49	190	155	96	207	331	451	280	24 x 5	24
125	8	235	50	230	170	96	233	401	492	280	24 x 5	31
150	8	255	60	265	185	96	270	461	541	280	24 x 5	39
200	8	325	60	355	222	120	315	614	637	360	30 x 6	67
250	8	400	70	440	263	127	368	753	731	360	30 x 6	115
300	6	430	70	505	300	127	427	873	832	360	30 x 6	143
350	6	490	70	580	340	167	511	1006	942	360	30 x 6	201
400	6	570	90	655	385	189	610	1122	1099	500	30 x 6	266
450	6	630	110	750	435	208	680	1282	1217	500	30 x 6	
500	6	700	110	840	470	228	735	1422	1324	500	36 x 6	
600	4	810	130	1000	545	368	850	1667	1514	500	36 x 6	

\*) Opening DN - 3mm, full opening on request.

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  
handwheel drive with rising stem

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

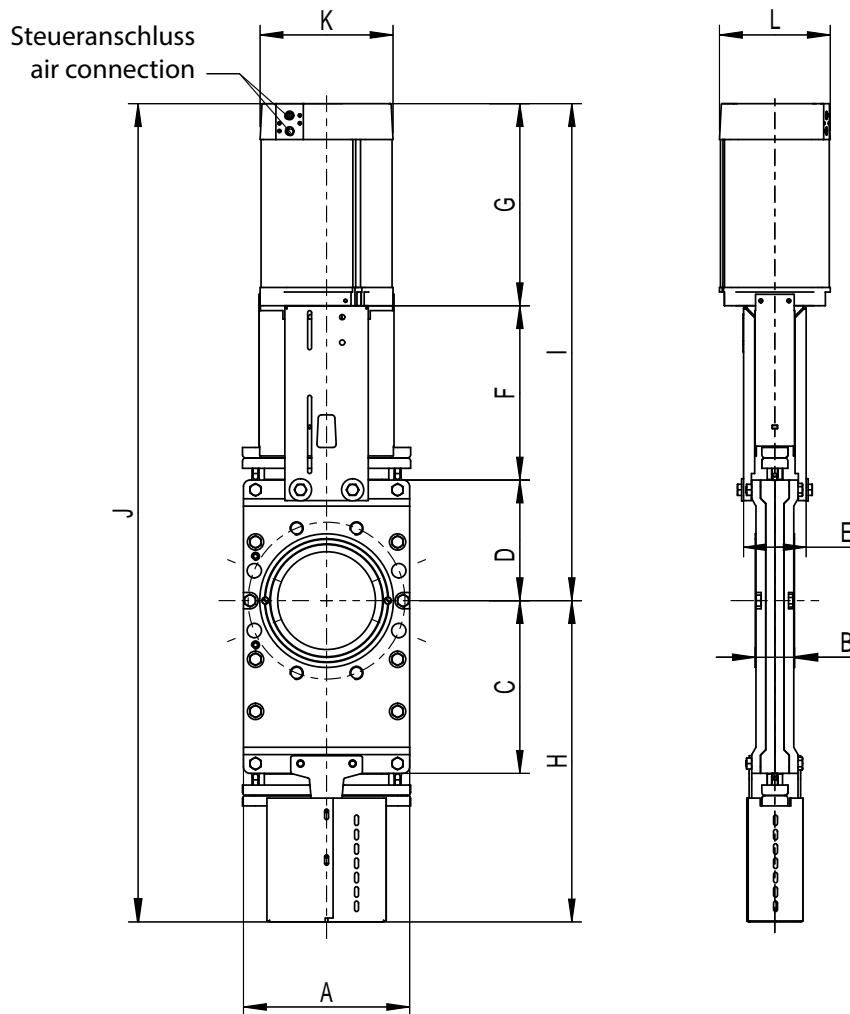


DN	PS [bar]	A	B	C	D	E	F	G	H	I	Ø J	Tr D x H LH	weight ~[kg]
50	8	160	40	125	125	85	160	212	350	395	225	20 x 4	13
65	8	160	40	140	140	85	160	238	365	425	225	20 x 4	13
80	8	185	50	160	145	85	176	282	386	465	225	20 x 4	17
100	8	205	49	190	155	96	207	331	431	530	280	24 x 5	25
125	8	235	50	230	170	96	233	401	472	595	280	24 x 5	31
150	8	255	60	265	185	96	270	461	522	672	280	24 x 5	39
200	8	325	60	355	222	120	315	614	617	820	360	30 x 6	67
250	8	400	70	440	263	127	368	753	711	960	360	30 x 6	116
300	6	430	70	505	300	127	427	873	807	1110	360	30 x 6	143
350	6	490	70	580	340	167	511	1006	947	1300	500	36 x 6	201
400	6	570	90	655	385	189	610	1122	1091	1500	500	36 x 6	266
450	6	630	110	750	435	208	680	1282	1211	1665	500	36 x 6	428
500	6	700	110	840	470	228	735	1422	1301	1805	500	36 x 6	564
600	4	810	130	1000	545	368	850	1667	1491	2105	640	44 x 7	898

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  
pneumatic cylinder and protection guard

Type CDSVP/G similar, but with hardened valve plate and flanging rings

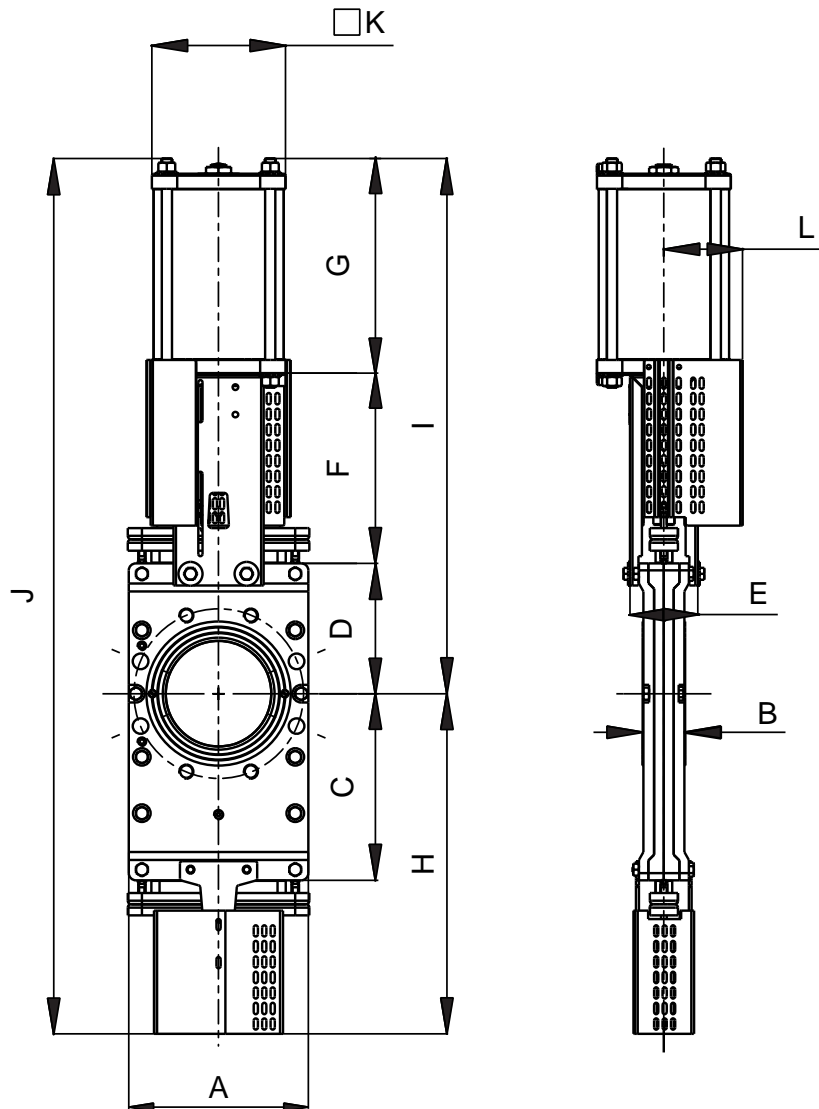


DN	PS [bar]	A	B	C	D	E	F	G	H	I	J	K	L	cyl Ø	air connection	weigh ~[kg]
50	8	160	40	125	125	85	160	182	245	467	712	139	118	100	G 1/4"	15.3
65	8	160	40	140	140	85	160	197	260	497	757	139	118	100	G 1/4"	15.4
80	8	185	50	160	145	85	176	210	301	531	832	139	118	100	G 1/4"	15.5
100	8	205	49	190	155	96	207	253	358	615	973	165	145	125	G 1/4"	31.9
125	8	235	50	230	170	96	233	279	431	682	1113	165	145	125	G 1/4"	36.1
150	8	255	60	265	185	96	268	310	493	763	1256	204	178	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 CDSVP/G similar, but with hardened valve plate and flanging rings

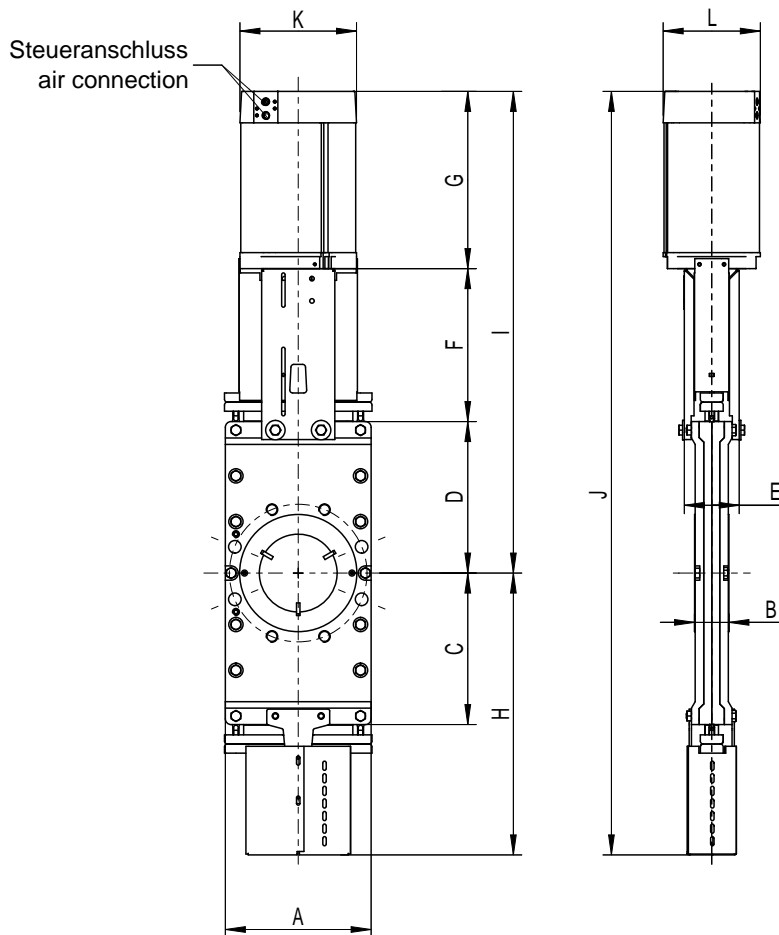


DN	PS [bar]	A	B	C	D	E	F	G	H	I	J	K	L	cyl Ø	air connection	weight ~[kg]
350	6	490	70	580	340	167	511	571	1011	1422	2433	318	159	300	G 1/2"	235
400	6	570	90	655	385	189	610	621	1132	1616	2748	318	159	300	G 1/2"	320
450	6	630	110	750	435	208	680	666	1367	1781	3148	318	159	300	G 1/2"	519
500	6	700	110	840	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

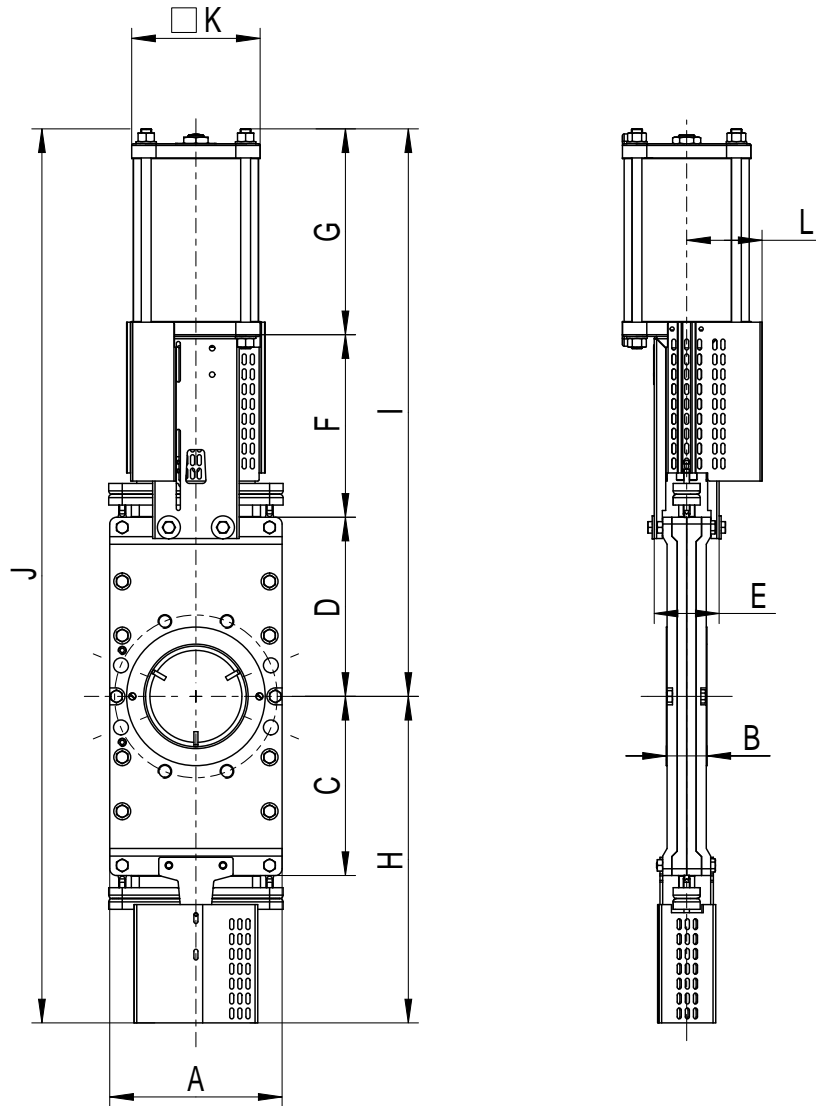


DN	PS [bar]	A	B	C	D	E	F	G	H	I	J	K	L	cyl Ø	air connection
50	8	160	40	125	125	85	160	200	242	485	727	139	118	125	G 1/4"
65	8	160	40	140	140	85	160	206	257	506	763	139	118	125	G 1/4"
80	8	185	50	160	160	85	176	221	298	557	855	139	118	125	G 1/4"
100	8	205	49	190	190	96	207	243	350	640	990	165	145	145	G 1/4"
125	8	235	50	230	230	96	233	272	412	735	1147	165	145	145	G 1/4"
150	8	255	60	265	265	96	270	305	483	840	1323	204	178	175	G 1/2"
200	8	325	60	355	355	120	315	352	626	1022	1648	204	178	200	G 1/2"
250	8	400	70	440	440	127	368	401	762	1209	1971	244	215	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

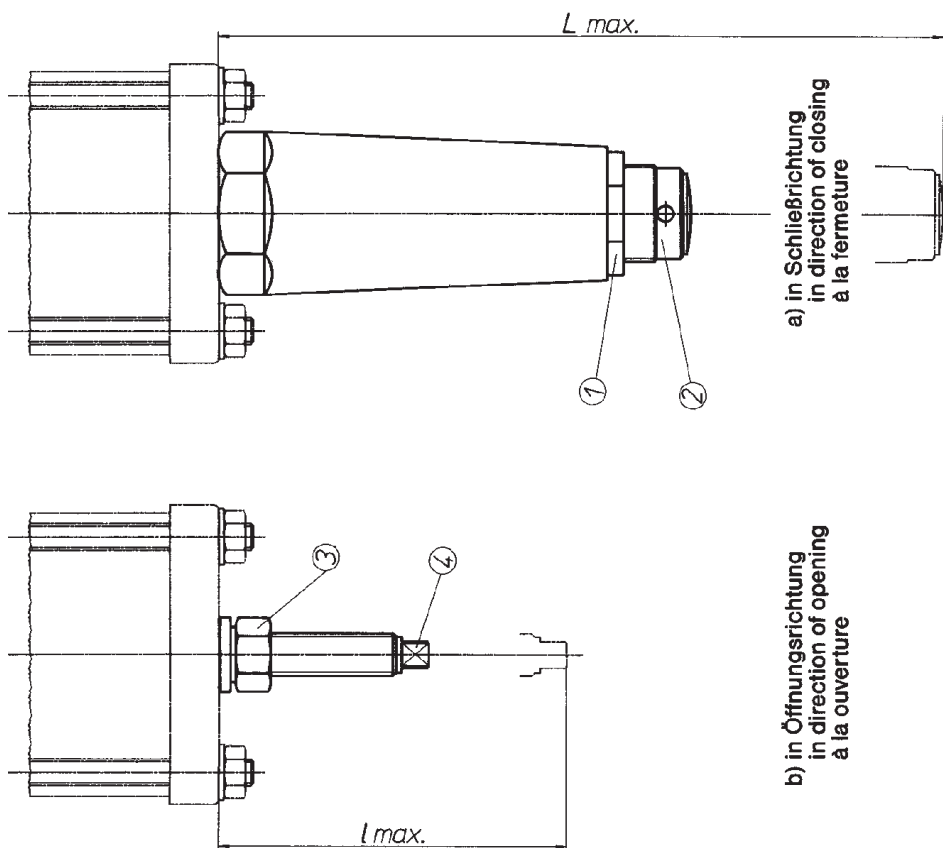
with through-going valve plate, extended housing, valve plate and flanging rings hardened, conical inlet with turbulence interrupter (ribs), with pneumatic cylinder and protection guard



DN	PS [bar]	A	B	C	D	E	F	G	H	I	J	□ K	L	cyl Ø	air connecion
400	6	570	90	655	655	189	610	621	1132	1886	3018	318	146	300	G 1/2"
450	6	630	110	750	750	208	680	666	1367	2096	3463	318	151	300	G 1/2"
500	6	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.

COMPACT-shut-off-valve with through-going valve plate  
 pneumatic-cylinder with variable stroke limiter and protection guard  
 Type CDSVPV/G similar, but with hardened valve plate and flanging rings



### Variable stroke limiter

- in direction of closing:  
loosen the nut (1), adjust the adjustable pipe (2), tighten the nut (1)
- in direction of opening:  
loosen the nut (3), adjust the adjustable screw (4) tighten the nut

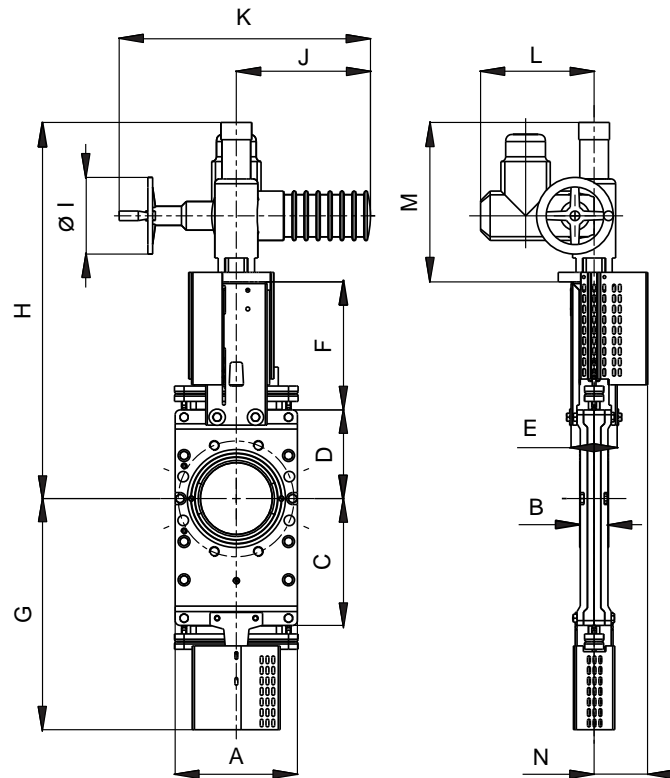
DN	cyl.Ø	in direction of opening		in direction of closing	
		L max ~	L max ~	L max ~	L max ~
50	125	140		283	
65	125	140		283	
80	125	140		283	
100	145	190		439	
125	145	190		439	
150	175	202		439	
200	200	252		554	

Further sizes on request.



COMPACT-shut-off-valve with through-going valve plate  
electric drive and protection guard

Type CDSVE/G similar, but with hardened valve plate and flanging rings

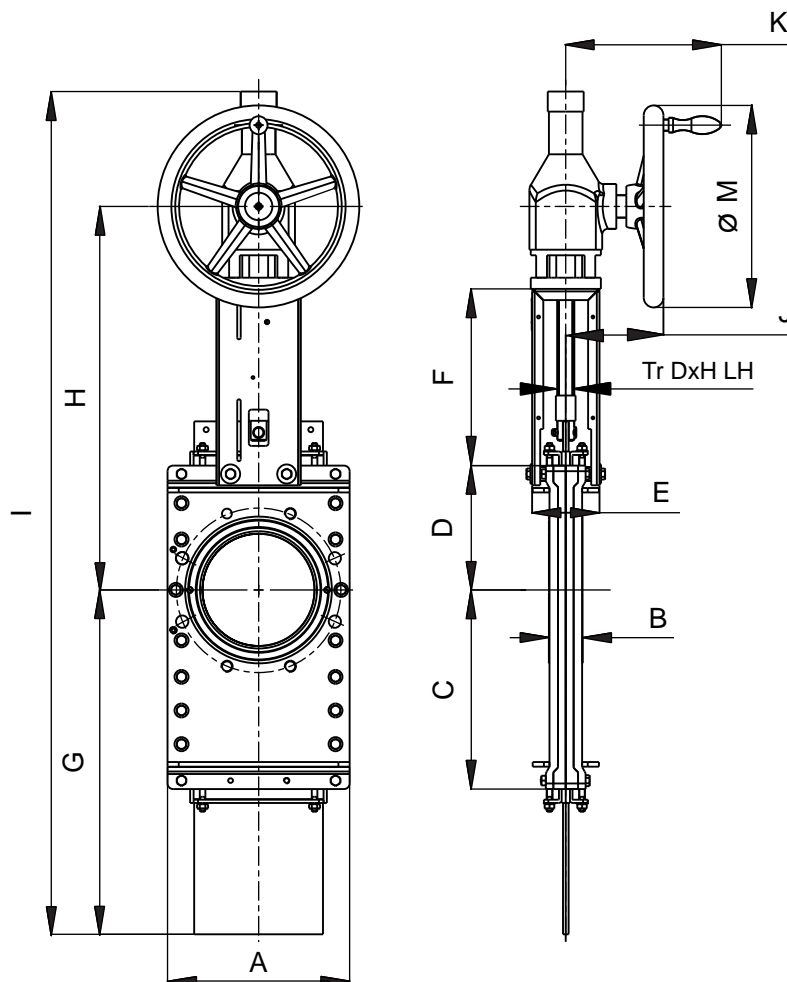


DN	PS [bar]	A	B	C	D	E	F	G	H	ØI	J	K	L	M	N	stem Tr DxH	closing time [s]	weight ~[kg]
50	8	160	40	125	125	85	160	242	618	140	280	509	237	333	108	20 x 4	19.3	36
65	8	160	40	140	140	85	160	257	633	140	280	509	237	333	108	20 x 4	24.3	36
80	8	185	50	160	145	85	176	298	654	140	280	509	237	333	108	20 x 4	29.3	40
100	8	205	49	190	155	96	207	350	695	160	280	525	237	333	114	24 x 5	29.1	47
125	8	235	50	230	170	96	233	412	736	160	280	525	237	333	114	24 x 5	35.7	54
150	8	255	60	265	185	96	270	483	786	160	280	525	237	333	112	24 x 5	42.4	62
200	8	325	60	355	222	120	315	626	882	200	355	603	247	345	126	30 x 6	45.0	96
250	8	400	70	440	263	127	368	762	976	200	355	603	247	345	126	30 x 6	56.4	145
300	6	430	70	505	300	127	427	883	1165	200	355	603	247	438	126	30 x 6	68.9	172
350	6	490	70	580	340	167	511	1011	1294	200	355	603	247	443	142	36 x 6	78.4	230
400	6	570	90	655	385	189	610	1132	1503	315	380	695	285	508	146	36 x 6	89.8	295
450	6	630	110	750	435	208	680	1367	1723	315	380	695	285	608	151	36 x 6	100.9	500
500	6	700	110	840	470	228	735	1475	1813	315	380	695	285	608	151	36 x 6	112.2	645
600	4	810	130	1000	545	368	850	1720	2103	315	380	695	285	708	161	44 x 7	83.0	989

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  
bevel gear box and handwheel

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

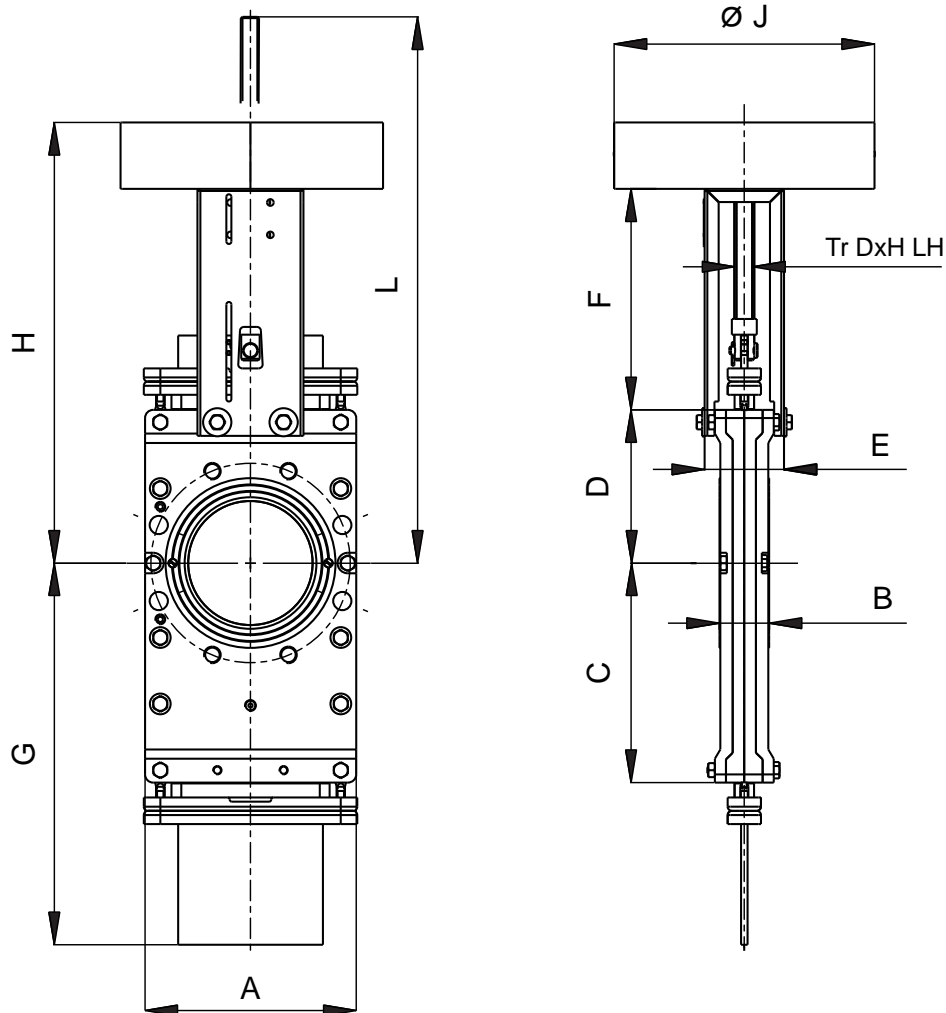


DN	PS [bar]	A	B	C	D	E	F	G	H	I	J	L	ØM	Tr DxH	weight ~[kg]
200	8	325	60	355	222	120	315	614	684	1503	174	155	360	30 x 6	87
250	8	400	70	440	263	127	368	753	778	1786	174	155	360	30 x 6	134
300	6	430	70	505	300	127	427	873	874	2052	174	155	360	30 x 6	164
350	6	490	70	580	340	167	511	1006	1003	2364	185	178	400	36 x 6	215
400	6	570	90	655	385	189	610	1122	1147	2669	185	178	400	36 x 6	279
450	6	630	110	750	435	208	680	1285	1267	2999	185	178	400	36 x 6	431
500	6	700	110	840	470	228	735	1422	1395	3309	222	205	400	36 x 6	592
600	4	810	130	1000	545	368	850	1667	1585	3817	222	205	500	44 x 7	903
700	2.5	960	150	1155	645	306	996	1948	1831	4445	222	205	500	44 x 7	
800	2.5	1060	150	1310	710	306	1136	2178	2036	4978	222	205	500	44 x 7	

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  
sprocket drive

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



DN	PS [bar]	A	B	C	D	E	F	G	H	L	Ø J	Tr D x H LH	weight ~[kg]
50	8	160	40	125	125	85	160	212	366	395	274	20 x 4	18
65	8	160	40	140	140	85	160	238	381	425	274	20 x 4	19
80	8	185	50	160	145	85	176	282	402	460	274	20 x 4	23
100	8	205	49	190	155	96	207	331	441	530	314	24 x 5	31
125	8	235	50	230	170	96	233	401	482	595	314	24 x 5	37
150	8	255	60	265	185	96	270	461	532	667	314	24 x 5	47
200	8	325	60	355	222	120	315	614	616	815	394	30 x 6	79
250	8	400	70	440	263	127	368	753	710	955	394	30 x 6	127
300	6	430	70	505	300	127	427	873	806	1106	394	30 x 6	150

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.

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