



- welded body with square flow and square flanges
- metal or soft seat with tightness from one side
- rising stem
- wide range of material variants of seats
- low control torque

AREAS OF APPLICATION

- transport and storage of bulk materials
- mining industry
- chemical industry

ADVANTAGES OF USE

- low pressure drop
- low weight
- easy installation under hoppers (silos)
- low maintenance costs
- long life

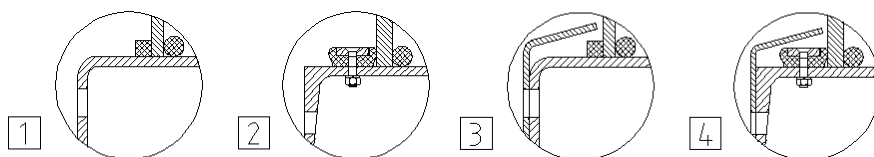


SPECIFICATIONS

Working medium:	dry media (powders, granules) or liquid media with high concentration of solid particles, depending on the construction materials of the knife gate valve
Maximum working pressure:	0.6 kg/cm ²
Maximum temperature range:	depends on the design and construction materials of knife gate valve, working medium and working conditions

Types of seats and their tightness:

Pic. 1



Seat Type

- 1 metal-metal (metal)
- 2 metal-elastomer
- 3 metal-metal with deflector to protect the body from abrasion
- 4 metal-elastomer with deflector to protect the body from abrasion

Tightness (%)

- 98.8
- 100
- 98.8
- 100

Please contact our sales department in order to select the appropriate type of seat and suitable material of body, knife, seat and packing.

Face to face and flange drilling: according to manufacturer - see further in the datasheet

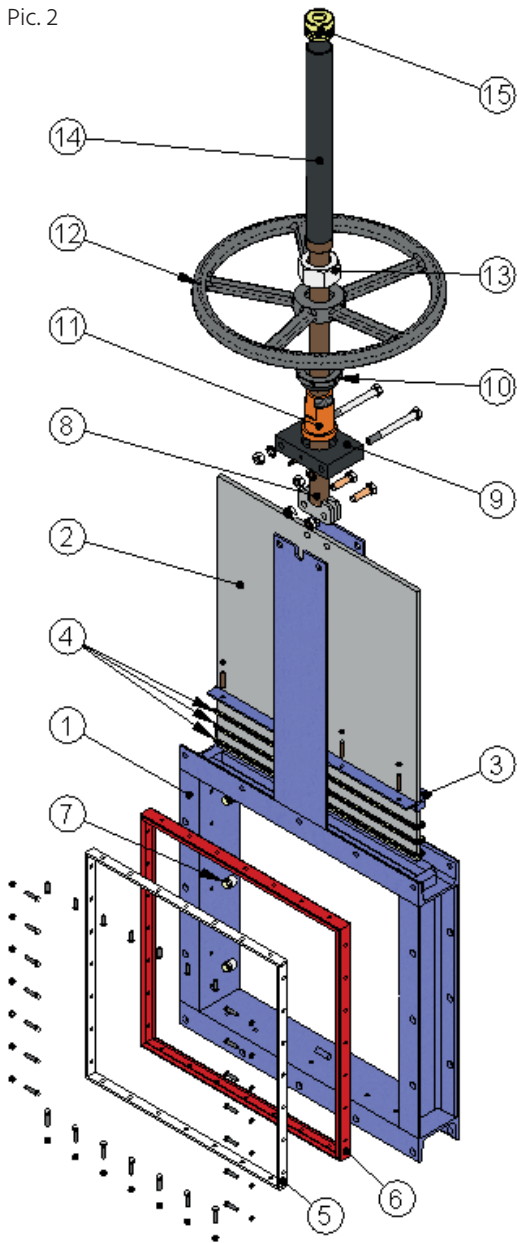
Operating: hand wheel as standard

- Other options:
- gear with handwheel
 - non-rising stem
 - extended stem
 - chain wheel
 - electric, pneumatic or hydraulic actuator
 - limit switches
 - locking device
 - with rectangular cross-section
 - with holes in the body for air or steam cleaning
 - different type and color of the protective coating

Testing: each knife gate valve is tested according to EN 12266-1 and supplied with accompanying documentation according to EN 10204

Certification: PED 2014/68 / EU
ATEX (II, 2 and 22 GD) 94/9 / EC

Pic. 2



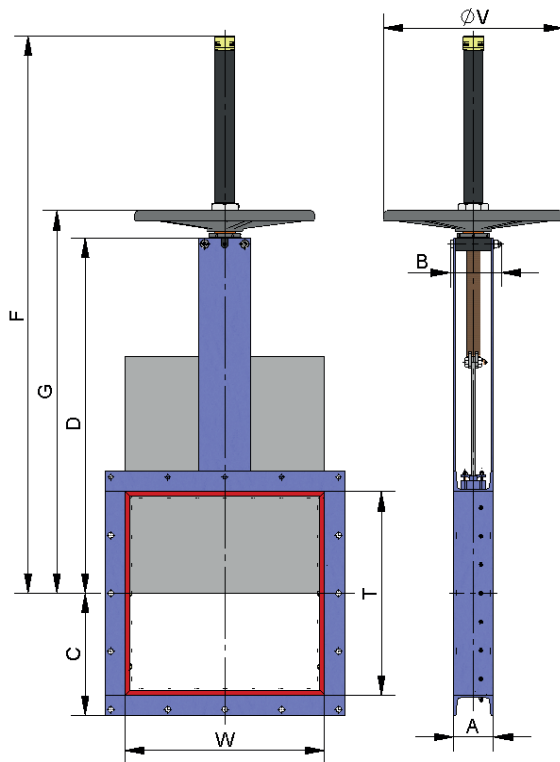
Position	Description	Basic material variants of gate valves with soft seat	
1	Body	S275 JR *)	AISI 304/AISI 316
2	Knife	AISI 304	AISI 304/ AISI 316
3	Packing gland	S275 JR *)	AISI 304/AISI 316
4	Packing	Synt. + PTFE	
5	Gasket	AISI 304	AISI 316
6	Seat	EPDM	
7	Guide	PTFE	
8	Stem	AISI 303	
9	Bracket	Steel	
10	Nut	Steel	
11	Stem nut	bronze	
12	Hand wheel	GJS-500	
13	Nut	5.6 zinc plated	
14	Stem protection	Steel	
15	Top cap	plastic	

*) With epoxy protective coating 80 µm, RAL 5015

DIMENSIONS

Type C with handwheel

Pic. 3

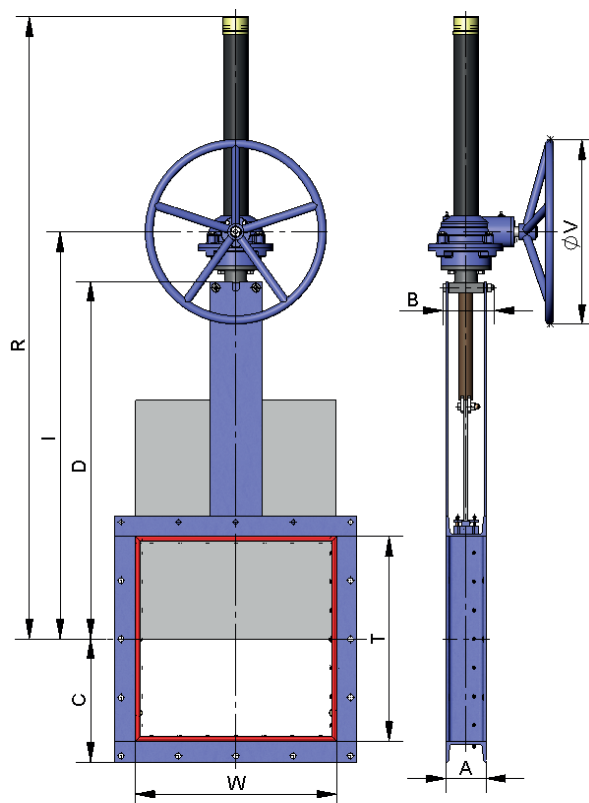


width × height	ΔP (Kg/cm ²)	A	B	C	D	F	G	ØV
125×125	0,6	80	102	107,5	281,5	496	317	225
150×150	0,6	80	102	120	319	534	354	225
200×200	0,6	80	102	145	394	650	429	225
250×250	0,6	80	111	170	471	802	524	225
300×300	0,6	80	111	195	546	935	599	325
350×350	0,6	100	116	225	621	1060	674	325
400×400	0,6	100	116	250	697	1185	749	325
450×450	0,6	100	128	275	785	1338	852	325
500×500	0,6	100	128	300	864	1465	929	450
550×550	0,6	100	128	325	939	1590	1004	450
600×600	0,6	100	128	350	1014	1715	1079	450
650×650	0,6	100	128	375	1089	1840	1154	450
700×700	0,6	120	148	405	1178	1981	1245	450
750×750	0,6	120	148	430	1253	2106	1320	450
800×800	0,6	120	148	455	1328	2231	1395	450
900×900	0,6	140	168	510	1478	2481	1545	450
1200×1200	0,6	160	186	665	1929	3280	2040	-

Note: 1200 × 1200 with gear and handwheel.

Type C with gear

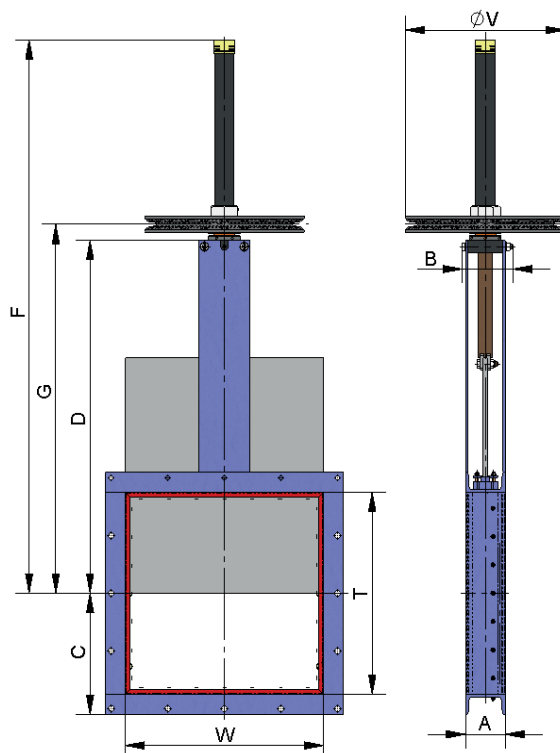
Pic. 4



width × height	ΔP (Kg/cm ²)	A	B	C	D	I	R	ØV
125×125	0,6	80	102	107,5	281,5	401	556	300
150×150	0,6	80	102	120	319	439	619	300
200×200	0,6	80	102	145	394	514	744	300
250×250	0,6	80	111	170	471	589	869	300
300×300	0,6	80	111	195	546	667	994	300
350×350	0,6	100	116	225	621	744	1124	300
400×400	0,6	100	116	250	697	819	1249	300
450×450	0,6	100	128	275	785	904	1384	450
500×500	0,6	100	128	300	864	981	1511	450
550×550	0,6	100	128	325	939	1056	1636	450
600×600	0,6	100	128	350	1014	1131	1761	450
650×650	0,6	100	128	375	1089	1206	1886	450
700×700	0,6	120	148	405	1178	1297	2027	450
750×750	0,6	120	148	430	1253	1372	2152	450
800×800	0,6	120	148	455	1328	1447	2277	450
900×900	0,6	140	168	510	1478	1597	2527	450
1000×1000	0,6	140	168	665	1628	1747	2777	450
1200×1200	0,6	160	186	613	1929	2011	3251	650
1400×1400	0,6	160	218	670	2229	2311	3751	650

Type C with chain wheel

Pic. 5

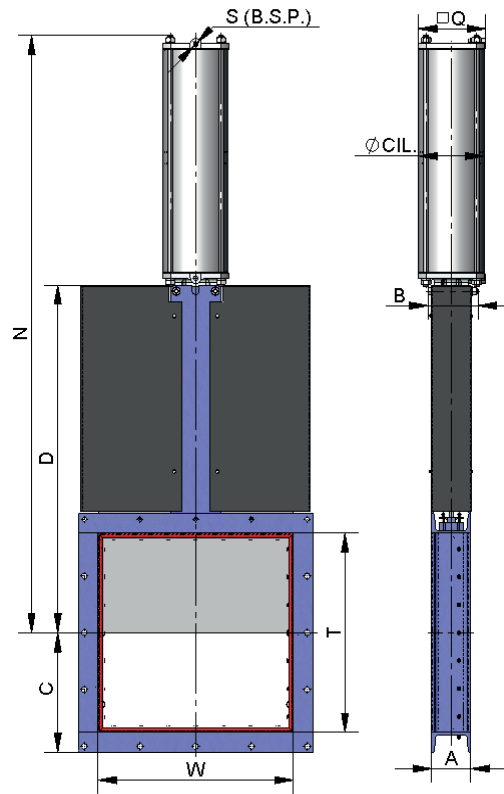


width × height	ΔP (Kg/cm ²)	A	B	C	D	F	G	ØV
125×125	0,6	80	102	107,5	281,5	496	317	225
150×150	0,6	80	102	120	319	534	354	225
200×200	0,6	80	102	145	394	650	429	225
250×250	0,6	80	111	170	471	802	524	300
300×300	0,6	80	111	195	546	935	599	300
350×350	0,6	100	116	225	621	1060	674	300
400×400	0,6	100	116	250	697	1185	749	300
450×450	0,6	100	128	275	785	1338	852	402
500×500	0,6	100	128	300	864	1465	929	402
550×550	0,6	100	128	325	939	1590	1004	402
600×600	0,6	100	128	350	1014	1715	1079	402
650×650	0,6	100	128	375	1089	1840	1154	402
700×700	0,6	120	148	405	1178	1981	1245	402
750×750	0,6	120	148	430	1253	2106	1320	402
800×800	0,6	120	148	455	1328	2231	1395	402
900×900	0,6	140	168	510	1478	2481	1545	402
1000×1000	0,6	140	168	560	1628	2746	1695	402
1200×1200	0,6	160	186	665	1929	3280	2040	402
1400×1400	0,6	160	218	765	2229	3760	2340	402

Note: 1000 × 1000 to 1400 × 1400 with gear and chain wheel

Type C with double-acting pneumatic actuator

Pic. 6

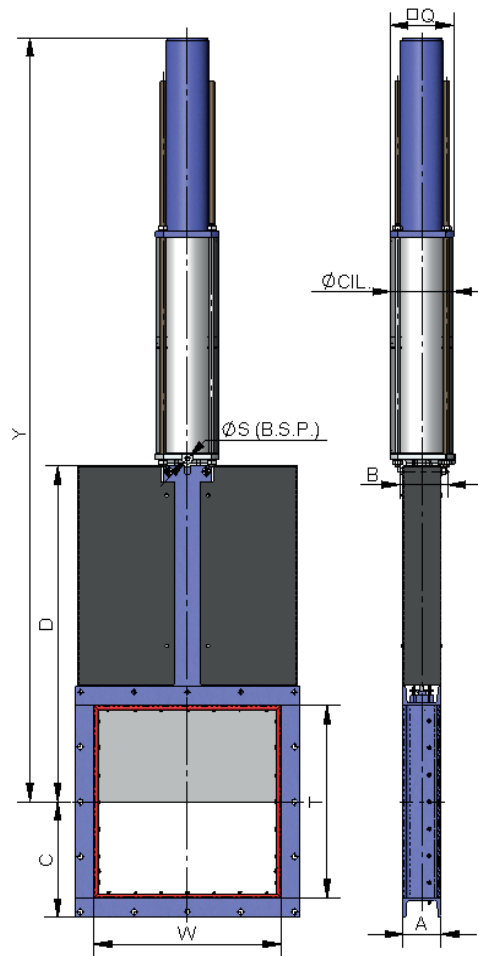


width × height	ΔP (Kg/cm ²)	axial force (N)	A	B	C	D	N	Q	Ø cylinder	Ø piston rods	S (B.S.P.)
125×125	0,6	471	80	102	107,5	281,5	511	90	80	20	1/4"
150×150	0,6	656	80	102	120	319	574	90	80	20	1/4"
200×200	0,6	1115	80	102	145	394	699	90	80	20	1/4"
250×250	0,6	1694	80	111	170	471	824	90	80	20	1/4"
300×300	0,6	2394	80	111	195	546	949	90	80	20	1/4"
350×350	0,6	3340	100	116	225	621	1074	110	100	20	1/4"
400×400	0,6	4319	100	116	250	697	1215	135	125	25	1/4"
450×450	0,6	5424	100	128	275	785	1351	135	125	25	1/4"
500×500	0,6	6654	100	128	300	864	1486	170	160	30	1/4"
550×550	0,6	8010	100	128	325	939	1611	170	160	30	1/4"
600×600	0,6	9491	100	128	350	1014	1736	170	160	30	1/4"
650×650	0,6	11098	100	128	375	1089	1861	170	160	30	1/4"
700×700	0,6	12830	120	148	405	1178	2014	215	200	30	3/8"
750×750	0,6	14688	120	148	430	1253	2182	270	250	40	3/8"
800×800	0,6	17005	120	148	455	1328	2307	270	250	40	3/8"
900×900	0,6	21436	140	168	510	1478	2560	270	250	40	3/8"
1000×1000	0,6	27160	140	168	560	1628	2815	382	300	45	1/2"
1200×1200	0,6	38928	160	186	665	1929	3310	426	350	45	1/2"
1400×1400	0,6	52808	160	218	765	2229	3877	508	400	50	1/2"

Note: control air pressure of a standard pneumatic actuator is in the range of 6–10 kg / cm². Contact our sales department to design a suitable pneumatic actuator if the control air pressure is less than 6 bar.

Type C with single-acting pneumatic actuator

Pic. 7



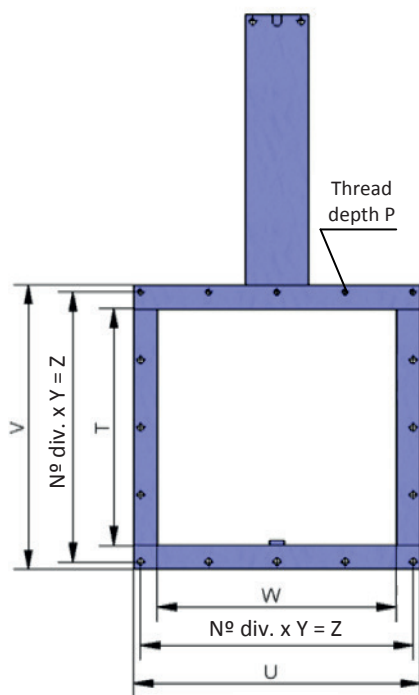
width × height	ΔP (Kg/cm ²)	axial force (N)	A	B	C	D	Y	Ø J	Ø cylinder	Ø piston rods	S (B.S.P.)
125×125	0,6	471	80	102	107,5	281,5	816	135	125	25	1/4"
150×150	0,6	656	80	102	120	319	861	135	125	25	1/4"
200×200	0,6	1115	80	102	145	394	939	135	125	25	1/4"
250×250	0,6	1694	80	111	170	471	1130	135	125	25	1/4"
300×300	0,6	2394	80	111	195	546	1255	135	160	30	1/4"

Note: control air pressure of a standard pneumatic actuator is in the range of 6–10 kg/cm². Contact our sales department to design a suitable pneumatic actuator if the control air pressure is less than 6 bar.

DIMENSIONS FOR INSTALLATION BETWEEN FLANGES

width × height	ΔP (Kg/cm ²)	Flange drilling						
		○	●	M screw	P	Ød	U×V	N° div. × Y = Z
125×125	0,6	5	3	M 10	8	12	215×215	2 × 92,5 = 185
150×150	0,6	5	3	M 10	8	12	240×240	2 × 105 = 210
200×200	0,6	5	3	M 10	8	12	290×290	2 × 130 = 260
250×250	0,6	5	3	M 10	8	12	340×340	2 × 155 = 310
300×300	0,6	8	4	M 10	8	12	390×390	3 × 120 = 360
350×350	0,6	8	4	M 12	8,5	14	450×450	3 × 140 = 420
400×400	0,6	11	5	M 12	8,5	14	500×500	4 × 117,5 = 470
450×450	0,6	11	5	M 12	8,5	14	550×550	4 × 130 = 520
500×500	0,6	11	5	M 12	8,5	14	600×600	4 × 142,5 = 570
550×550	0,6	11	5	M 12	8,5	14	650×650	4 × 155 = 620
600×600	0,6	11	5	M 12	8,5	14	700×700	4 × 167,5 = 670
650×650	0,6	11	5	M 12	8,5	14	750×750	4 × 180 = 720
700×700	0,6	14	6	M 12	9	14	810×810	5 × 155 = 775
750×750	0,6	14	6	M 12	9	14	860×860	5 × 166 = 830
800×800	0,6	14	6	M 12	9	14	910×910	5 × 175 = 875
900×900	0,6	17	7	M 12	10	14	1020×1020	6 × 162,5 = 975
1000×1000	0,6	20	8	M 12	10	14	1120×1120	7 × 155 = 1085
1200×1200	0,6	20	8	M 12	10,5	14	1320×1320	7 × 184,5 = 1291,5
1400×1400	0,6	20	8	M 12	10,5	14	1520×1520	7 × 213 = 1491

Pic. 8



- through holes
- blind holes

The information given in the catalog is informative and the supplier reserves the right to make technical changes.