

BI-DIRECTIONAL KNIFE GATE VALVE



The SK-CYL model knife gate is a Bi-directional valve, equipped with automatic or manual driver, that by its double seated design ensures a bubble-tight shut off in both directions of the flow, making it suitable for abrasive mediums.

GENERAL FEATURES

- Bi-directional shut off
- One body valve with independent packing gland
- Two heavy duty rubber sleeves
- Semi lugged body style (wafer)
- Elastomeric sleeves can easily be replaced, without disassembling the valve.
- Full bore reduces pressure drop and cavities, minimizing wear
- Easy drive replacement
- Self cleaning design
- Proximity and limit switch mounting points as standard

APPLICATION FIELDS

- Mining and mineral processing
- Mine Dewatering
- Cement industry
- Pipeline transport
- General industry
- Etc.

TECHNICAL DATA

Size range: DN-50 (2") to DN-600 (24")

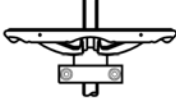
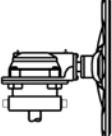




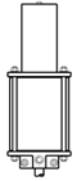
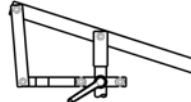
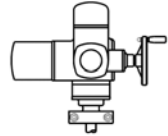
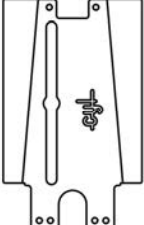

Flange ratings: PN-10 / ASA 150
(Other flange drillings under customer's request)

Pressure class: variable according to size
(refer to dimensions table)

Temperature range: variable according to the sealing material.

Coating: internally and externally fusion bonded epoxy coated. RAL 5017, 80-150 microns, as standard
(Other RAL and thicknesses under request)

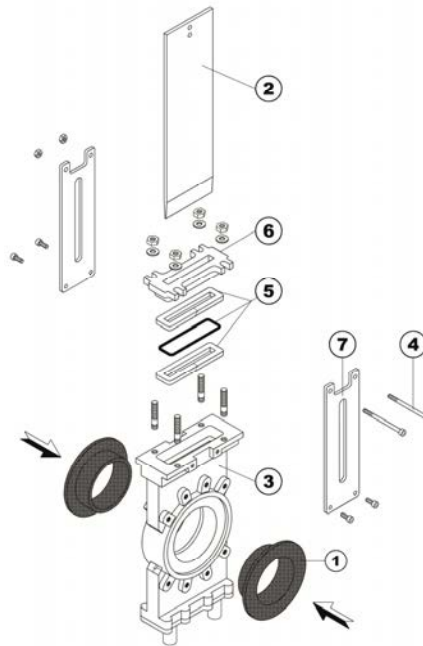
ASSEMBLY CONFIGURATION

	STANDARD	OPTIONAL			
OPERATION	 <p>Rising stem handwheel</p>  <p>Gearbox</p>	 <p>Rising stem coupling A</p>  <p>Oil hydraulic actuator</p>	 <p>Double acting pneumatic actuator</p>  <p>Chain Wheel</p>	 <p>Spring-return pneumatic actuator</p>  <p>Quick closing lever</p>	 <p>Electric actuator</p>
SHROUD (PLATES)	 <p>Open shroud</p>				
BODY	 <p>Semi lugged (wafer)</p>				
ACCESORIES	<ul style="list-style-type: none"> - Revolving handle - Locking device - Overriding actuator - Mechanical limit switches - Proximity limit switches - Solenoid valve - Extended guided plates - Scraper - Etc. 				

MATERIAL SPECIFICATION & PART LIST

No.	DESCRIPTION	MATERIAL
1	Tight seat	NATURAL RUBBER
2	Gate	SS 316 (standard) DUPLEX 2205, SMO 254, SS 316Ti, SS 316L (optional)
3	Body	GJS400 Iron
4	Screw and nut	A-4
5	Packing material	ARAMIDE, GRAPHITE
6	Packing gland	GJS400 Iron
7	Open shroud	1.0580
-	Stem	SS 316
-	Bearing	1.0401
-	Handwheel	1.0037
-	Pneumatic act.	Aluminium
-	Hand-protections	1.0580

Figure 1. Exploded view of KGV-SK semi lugged with open shroud



APPLICATION AND TEMPERATURE RANGE OF SEALING MATERIALS

RESILIENT SEATS			
Material	Min. temperature (°C)	Max. temperature (°C)	APPLICATIONS
NATURAL RUBBER	-10	+70	Tear and abrasion resistant

***More details and other dimensions and sealing materials under request.**

DIMENSIONAL DRAWINGS

Figure 2. KGV-SK semi lugged rising stem & handwheel

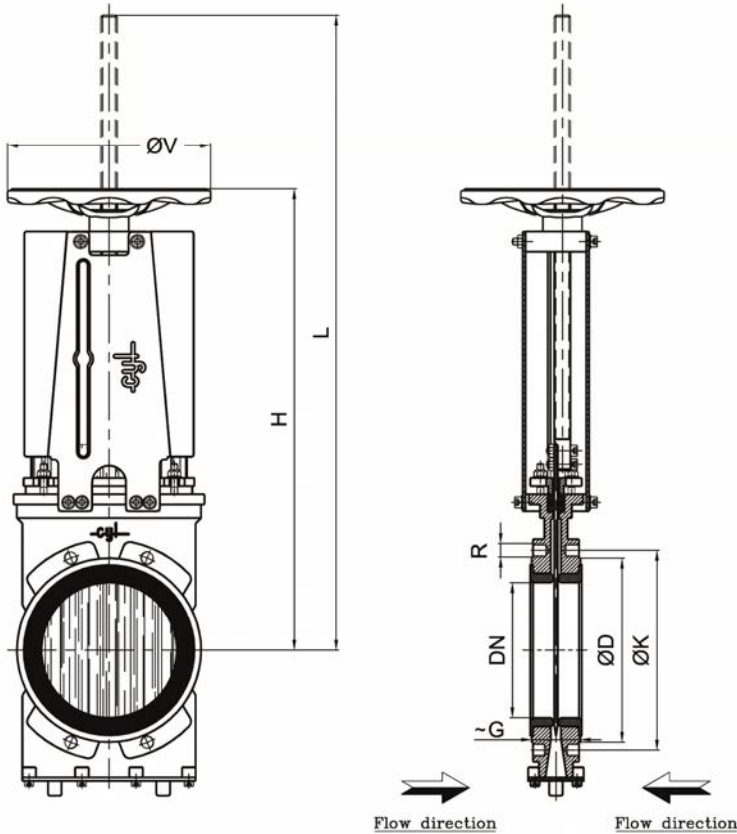
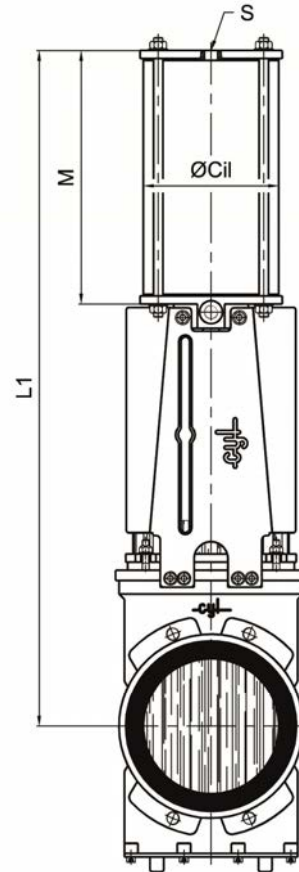


Figure 3. KGV-SK semi lugged with d/a pneumatic actuator

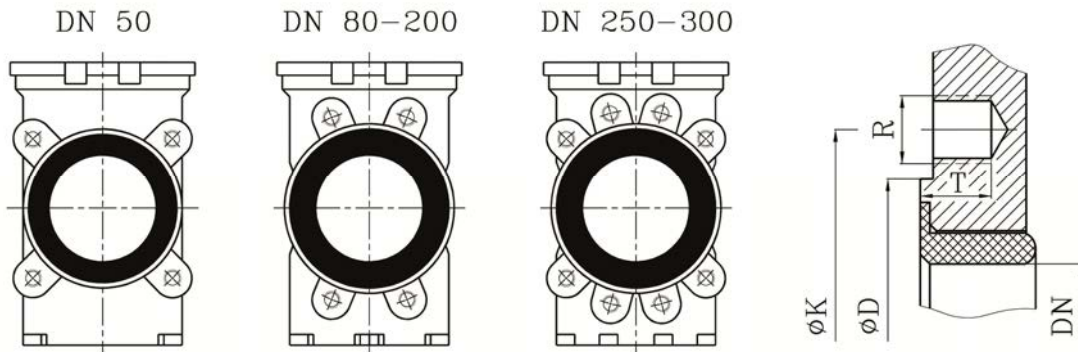


DN	G±1	H	L	ØV	L1	M	ØCi1	S	Spindle thread	Max. Working Pressure (bar)
50	52	350	462	225	487	187	100	1/4 " G	Tr20x4i	10
80	52	436	518	225	576	219	125	3/8 " G	Tr20x4i	10
100	52	427	569	225	616	239	125	3/8 " G	Tr20x4i	10
125	58	510	665	300	719	267	160	3/8 " G	Tr24x5i	10
150	64	588	795	300	857	327	190	1/2 " G	Tr24x5i	8
200	72	681	939	300	998	375	190	1/2 " G	Tr24x5i	5
250	76	786	1088	400	1145	428	190	1/2 " G	Tr28x5i	5
300	82	862	1208	400	1292	499	250	1/2 " G	Tr28x5i	5
350										
400										
500										
600										

* Data sheet for ØK & ØD stated in "flange drillings chapter".

FLANGE DRILLINGS

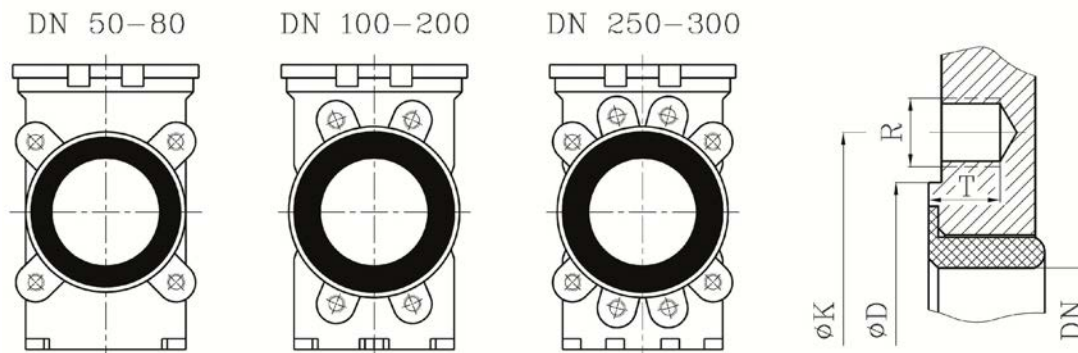
FLANGE DRILLING- PN10



Bolting Arrangements PN-10 Knife Gate Valve

DN	K	D	N	T	R
50	125	95	4	10	M-16
80	160	135	8	12	M-16
100	180	158	8	12	M-16
125	210	188	8	14	M-16
150	240	212	8	16	M-20
200	295	268	8	20	M-20
250	350	320	12	22	M-20
300	400	370	12	24	M-20

FLANGE DRILLING- ASA 150



Bolting Arrangements ASA 150 Knife Gate Valve

DN	K	D	N	T	R
50	120,60	95	4	9	5/8 "
80	152,40	135	4	13	5/8 "
100	190,50	158	8	13	5/8 "
125	215,90	188	8	13	3/4 "
150	241,30	212	8	12	3/4 "
200	298,40	268	8	12	3/4 "
250	361,90	320	12	16	7/8 "
300	431,80	370	12	16	7/8 "

ORDERING GUIDE

SERIES	OPERATIONS	MATERIAL	DN	SEAT	BODY TYPE	FLANGE
Example: SK	V	12		NR	W	PN-10
SK	V → Handwheel r.s	12 → Ductil iron		NR → NATURAL RUBBER	W → Semi Lugged (WAFER)	PN-10
	VR → Handwheel r.s + Bevel Gearbox					ASA 150
	B → Iso top flange r.s.					AS-2129 Table C/D
	BR → Iso top flange r.s. + Bevel Gearbox					
	M → Electric actuator r.s.					
	MR → Electric actuator r.s. + Bevel Gearbox					
	P → Quick closing lever					
	N → D/A penumatic actuator					
	SE → S/A penumatic actuator					
	H → Oil hydraulic actuator					
	VCH → Chain wheel r.s.					
	VCHR → Chain wheel r.s. + Bevel Gearbox					