

## UNI-DIRECTIONAL « MUA SERIES » KNIFE GATE VALVE



The MUA series knife gate is a Uni-directional tight valve equipped with a seat blockade ring system and a bevel edge gate designed for both, fluids and dry media (%15-25), such as paper pulp, sludge, powders, hot oils (max. 120°C) and different kind of waste. This special shut-off system allows minimal friction and therefore, makes the MUA valve easy to operate.

**GENERAL FEATURES**

- Monoblock one-piece body - wafer type
- Bevel edge gate that effectively cuts through the media
- Seat blockade SS/STEEL held to the body by screws, easily removable without valve disassembly from the line, offering cost efficiency on site maintenance
- Several seat materials available: PTFE, VITON, POLIURETHANE, SILICONE
- Adjustable stuffing box, allowing packing material replacement without valve disassembly from the line
- Short face-to-face dimension
- Easy drive replacement
- Proximity and limit switch mounting points

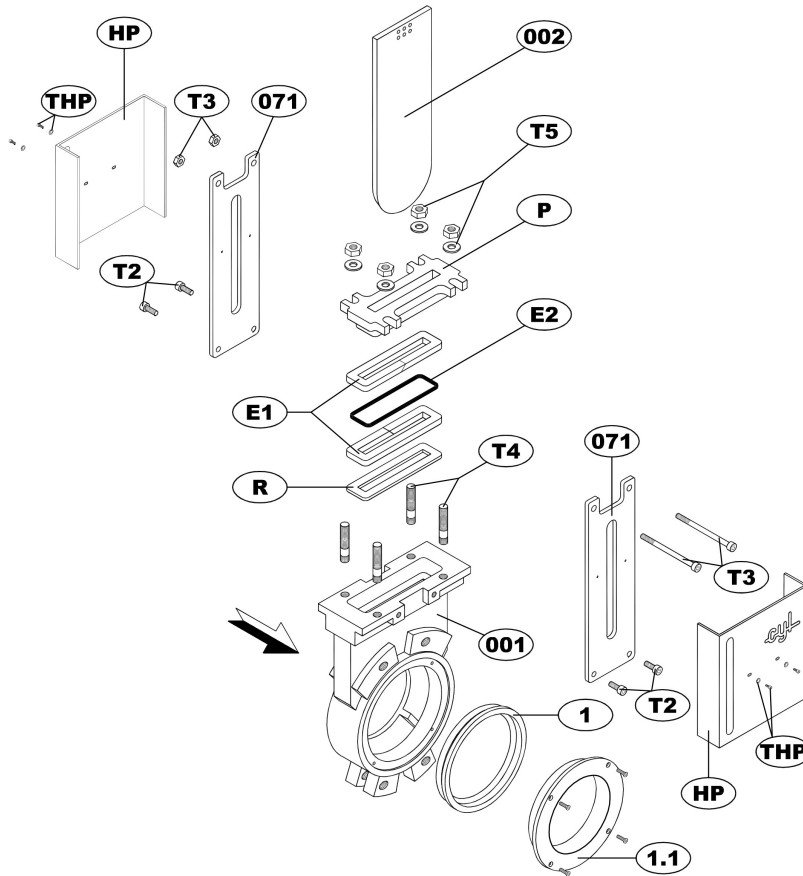
**APPLICATION FIELDS**

- Pulp and paper
- Bulk handling
- Mining
- Chemical process
- Slaughterhouse
- Food and beverage

**TECHNICAL DATA**

- **Size range:**  
DN-50 (2") to DN-600 (72")
- **Working pressure:**  
DN 50 to DN 300: 10 kg/cm<sup>2</sup>  
DN 350 to DN 400: 6 kg/cm<sup>2</sup>  
DN 450 to DN 600: 4 kg/cm<sup>2</sup>
- **Flange ratings:**  
PN10, PN16 and ANSI B16.5 (class 150)  
Note: other flange drillings under request
- **Face to face:**  
According to K1 DIN3202 up to DN-300  
From DN-350 to DN-600 CYL standard
- **Coating:**  
RAL 5017, 150 microns epoxy coated  
Optional – 300microns coating
- **Directives:**  
Pressure equipment directive 97/23/CE  
DIR 2006/42/CE (MACHINES)

MATERIALS PART LIST



Nº	DESCRIPTION	MATERIAL
1	Tight seat	PTFE, VITON, POLIURETHANE
1.1	Blockade ring	STEEL, ST.ST
002	Gate	SS 316 (standard) SS316L, SS316TI, DUPLEX 2205, SMO254(optional)
001	Body	GJS400 or CF8M (standard) DUPLEX 2205, SMO254 and others under request
T4	Screws & nuts	A-4
E1 & E2	Packing material	PTFE, PTFE+VITON, ARAMIDE, GRAPHITE
P	Packing gland	Ductile iron - GJS400 / CF8M (standard) DUPLEX 2205, SMO 254 and others under request
071	Plates	1.0580 (standard) SS 316 (optional)
HP	Hand-protections	1.0580 (standard) SS 316 (optional)
-	Stem	SS 316
-	Bearing	1.0401 (standard) SS 316 (optional)
-	Handwheel	1.0037, GJS400

## DIMENSIONAL DRAWINGS

Figure 1. KGV MU series semi lugged rising stem & handwheel

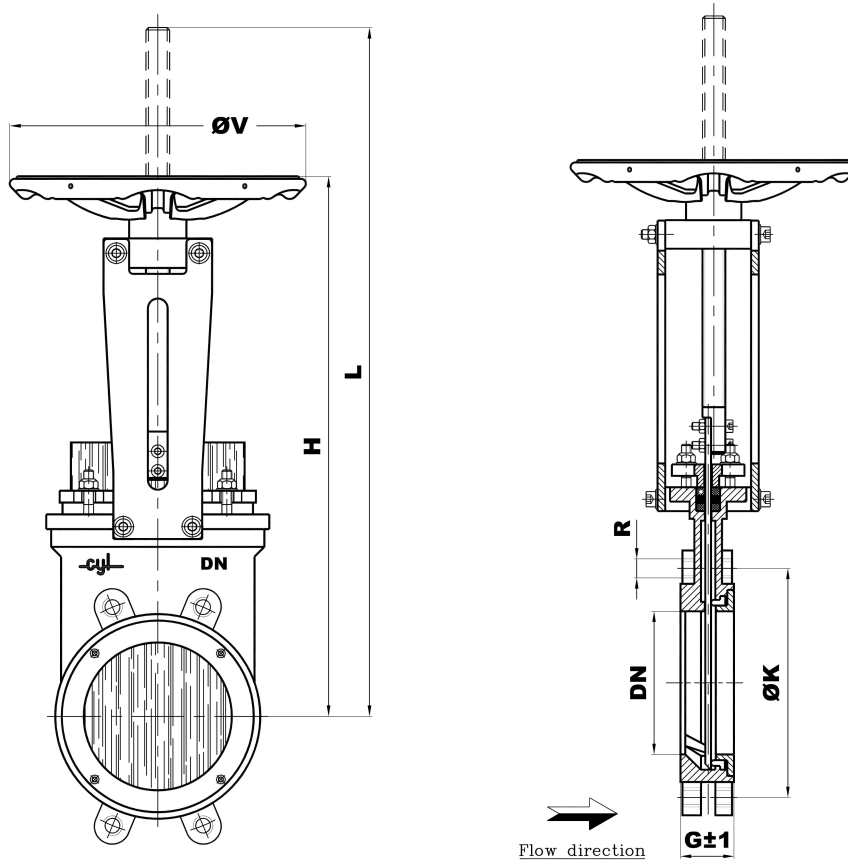
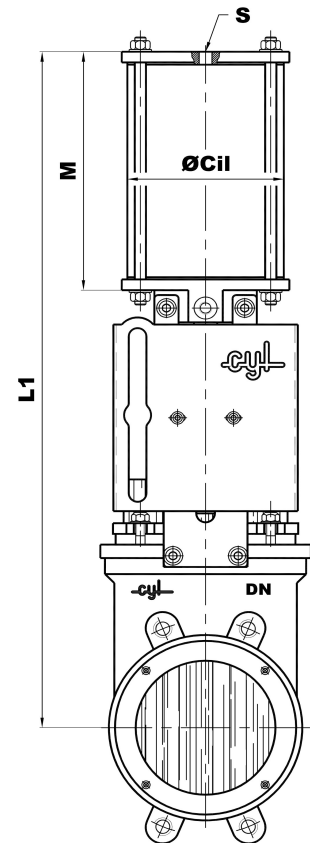


Figure 2. KGV MU series semi lugged with d/a pneumatic actuator



DN	G±1	H	L	ØV	L1	M	S	Ø Cil
50	43	306	366	175	406	147	1/4 " G	80
80	46	366	448	225	490	177	1/4 " G	100
100	52	393	495	225	537	197	1/4 " G	100
125	56	446	573	225	625	232	3/8 " G	125
150	56	548	699	300	757	267	3/8 " G	160
200	60	659	860	300	928	327	1/2 " G	190
250	68	733	984	300	1050	375	1/2 " G	190
300	78	870	1172	400	1229	428	1/2 " G	190
350	96	915	1267	400	1345	499	1/2 " G	250
400	100	1033	1435	400	1513	549	1/2 " G	250
450	106	1149	1582	500	1663	601	1/2 " G	300
500	110	1235	1743	500	1802	656	1/2 " G	300
600	110	1441	2049	500	2111	756	1/2 " G	300

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

FLANGE DRILLINGS

**FLANGE DRILLING - PN10**

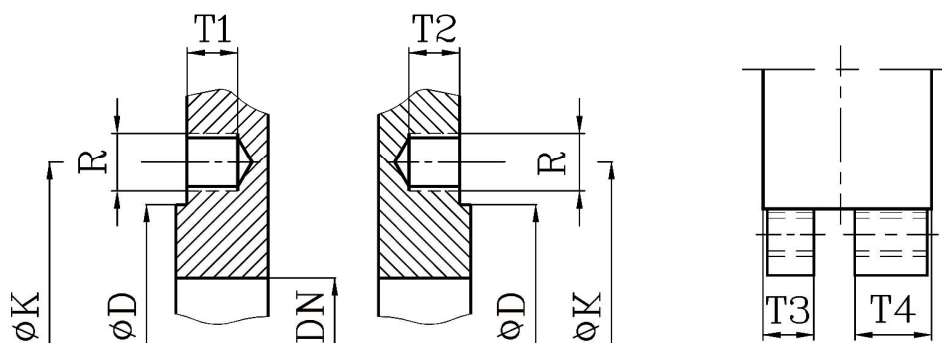
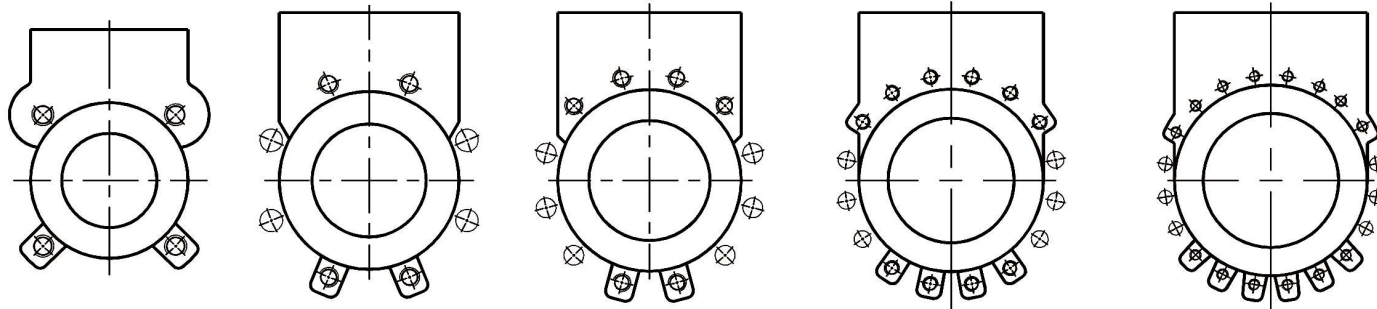
DN 50–65

DN 80–200

DN 250–300

DN 350–400

DN 450–600



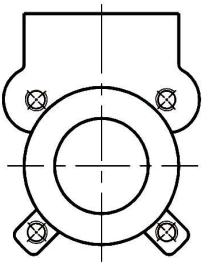
**Bolting Arrangements PN-10 Knife Gate Valve**

DN	K	D	N (1)	N (2)	N (3)	T1	T2	T3	T4	R
50	125	95	4	-	4	9	10	37		M-16
65	145	105	4	-	4	10	10	38		M-16
80	160	135	4	4	8	7	9	16	19	M-16
100	180	158	4	4	8	7	11	17	23	M-16
125	210	188	4	4	8	7	17	15	27	M-16
150	240	212	4	4	8	11	12	20	22	M-20
200	295	268	4	4	8	13	15	21	24	M-20
250	350	320	6	6	12	13	16	28	29	M-20
300	400	370	6	6	12	16	23	29	38	M-20
350	460	410	10	6	16	21	21	24	24	M-20
400	515	465	10	6	16	21	21	26	26	M-24
450	565	520	14	6	20	22	22	26	26	M-24
500	620	566	14	6	20	22	22	28	28	M-24
600	725	672	14	6	20	22	22	28	28	M-27

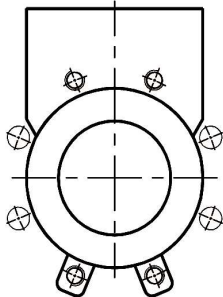
N (1)- N° of tapped holes    N (2)- N° of through holes    N (3)- N° of flange holes

## FLANGE DRILLING - PN16

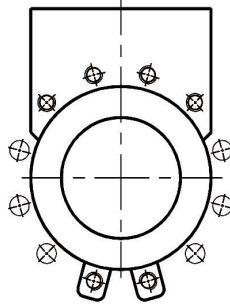
DN 50-65



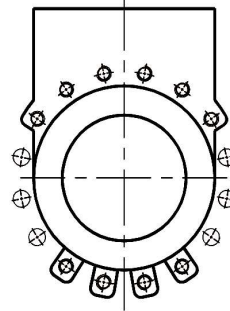
DN 80-150



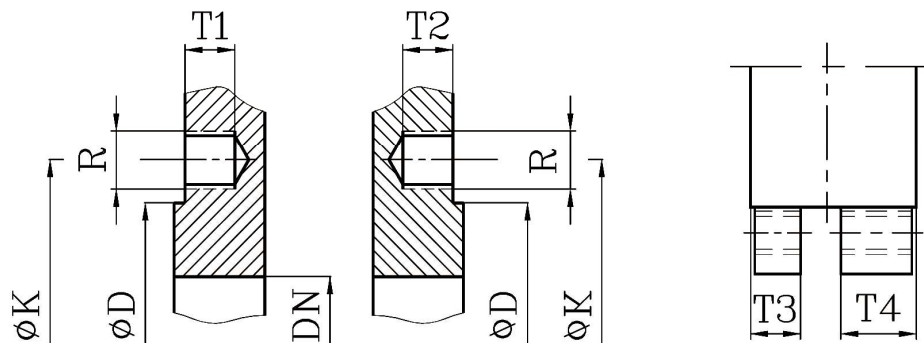
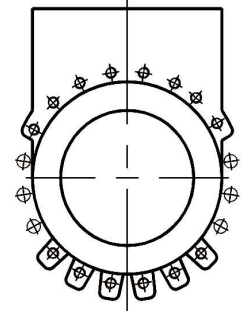
DN 200-300



DN 350-400



DN 450-600



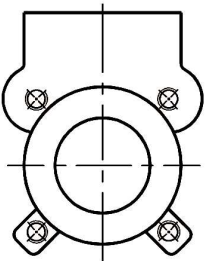
## Bolting Arrangements PN-16 Knife Gate Valve

DN	K	D	N (1)	N (2)	N (3)	T1	T2	T3	T4	R
50	125	95	4	-	4	9	10	37		M-16
65	145	105	4	-	4	10	10	38		M-16
80	160	135	4	4	8	7	9	16	19	M-16
100	180	158	4	4	8	7	11	17	23	M-16
125	210	188	4	4	8	7	17	15	27	M-16
150	240	212	4	4	8	11	12	20	22	M-20
200	295	268	6	6	12	13	15	21	24	M-20
250	355	320	6	6	12	13	16	28	29	M-24
300	410	370	6	6	12	16	23	29	38	M-24
350	470	410	10	6	16	21	21	24	24	M-24
400	525	465	10	6	16	21	21	26	26	M-27
450	585	520	14	6	20	22	22	26	26	M-27
500	650	566	14	6	20	22	22	28	28	M-30
600	770	672	14	6	20	22	22	28	28	M-33

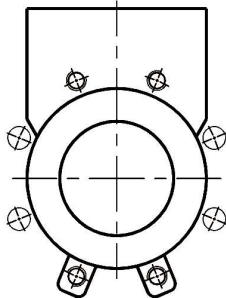
N (1)- N° of tapped holes    N (2)- N° of through holes    N (3)- N° of flange holes

## FLANGE DRILLING - ASA 150

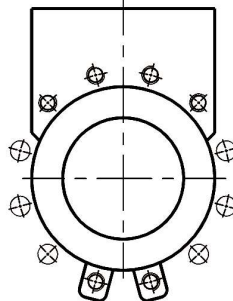
DN 50-80



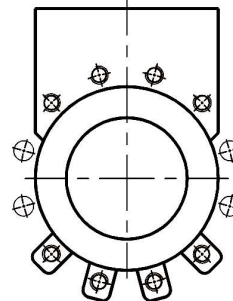
DN 100-200



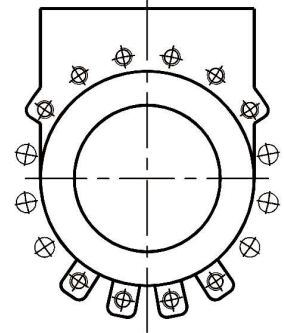
DN 250-300



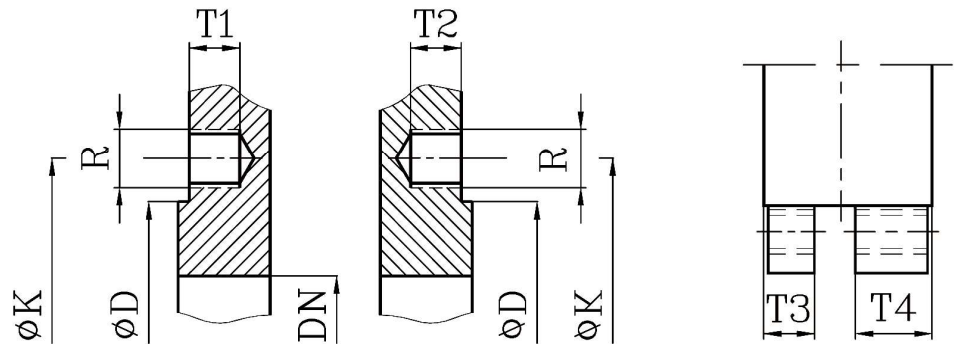
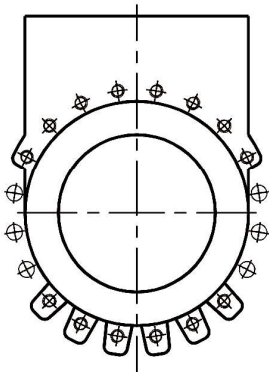
DN 350



DN 400-450



DN 500-600



### Bolting Arrangements ASA-150 Knife Gate Valve

DN	K	D	N (1)	N (2)	N (3)	T1	T2	T3	T4	R
50	120,6	95	4	-	4	9	10	37		5/8 "
65	139,7	105	4	-	4	10	10	38		5/8 "
80	152,4	135	4	4	8	7	9	16	19	5/8 "
100	190,5	158	4	4	8	7	11	17	23	5/8 "
125	215,9	188	4	4	8	7	17	15	27	3/4 "
150	241,3	212	4	4	8	11	12	20	22	3/4 "
200	298,4	268	4	4	8	13	15	21	24	3/4 "
250	361,9	320	6	6	12	13	16	28	29	7/8 "
300	431,8	370	6	6	12	16	23	29	38	7/8 "
350	476,2	410	8	4	12	21	21	24	24	1 "
400	539,7	465	10	6	16	21	21	26	26	1 "
450	577,8	520	10	6	16	22	22	26	26	1 1/8 "
500	635	566	14	6	20	22	22	28	28	1 1/8 "
600	749,3	672	14	6	20	22	22	28	28	1 1/8 "

N (1)- Nº of tapped holes    N (2)- Nº of through holes    N (3)- Nº of flange holes