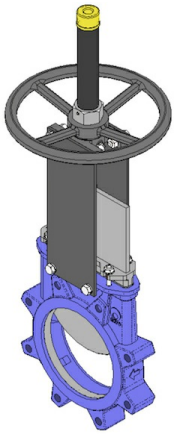
Partnership. With Guarantee.

Gate valve with handwheel
Series T1V2



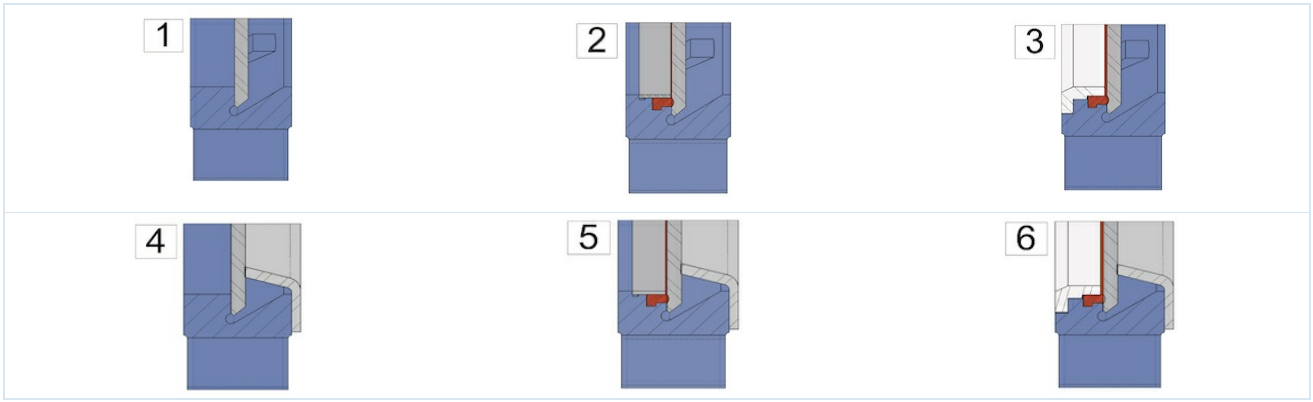
Design type	Knife gate valve with handwheel, Flanged version, single-acting sealing, rising stem, Manually adjustable packing
Connection	Flanges DN50...DN350 according to EN1092 PN10
Operating pressure	up to nominal pressure according to table ATTENTION: Spool can be pressurized against the flow direction with 30% of the maximum operating pressure. This may result in slight leakage in the closed position.
Medium temperature	Housing Cast steel -10...120°C, Housing Stainless steel 1.4408 -30...120°C, additionally also dependent on the packing and sealing material - see table, higher temperatures on request
Actuation	by means of handwheel
Material	see material table
Mounting type	Installation in rigid piping system
Mounting position	vertically upwards, other mounting position on request
Flow direction	Marked by an arrow. For dry media we recommend a flow opposite to the arrow direction. ATTENTION: Spool can be pressurized against the flow direction with 30% of the maximum operating pressure. This may result in slight leakage in the closed position.
Accessories	mounted mechanical limit switches or rather inductive proximity switches
ATEX	suitable for use in potentially explosive atmospheres Zone 2 and 22
other versions	Nominal sizes up to 1200mm, non-rising stem, single-acting or double-acting pneumatic actuator, Electric actuator, Sliding discs slide plate PTFE, Flushing bores, other nominal pressures on request

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Material table:

Type	T1V2A2-5-...	T1V2I2-5-...
Housing	Cast steel epoxy coated	Stainless steel 1.4408
Slide plate	Stainless steel AISI 304	Stainless steel 1.4401
Connection plates	Steel coated	Steel coated
Pack (standard)	PTFE-synthetic/EPDM	PTFE-synthetic/EPDM
Seat seal (standard)	EPDM	EPDM
Spindle	Stainless steel 1.4305	Stainless steel 1.4305
Sliding discs slide plate	RCH-1000(Polyethylene)	RCH-1000(Polyethylene)
Handwheel	Ductile iron EN-GJS-500-7	Ductile iron EN-GJS-500-7

Seat variants single-sided sealing:



1 ...metal-to-metal sealing	2 ...soft-sealing with fixing ring (Standard)	3 ...soft-sealing with reinforced retaining ring or rather Wiper for slide plate
4 ...metal-seated with abrasion protection	5 ...soft-sealing with retaining ring and abrasion protection	6 ...soft-sealing with reinforced retaining ring or rather Wiper for slide plate and abrasion protection

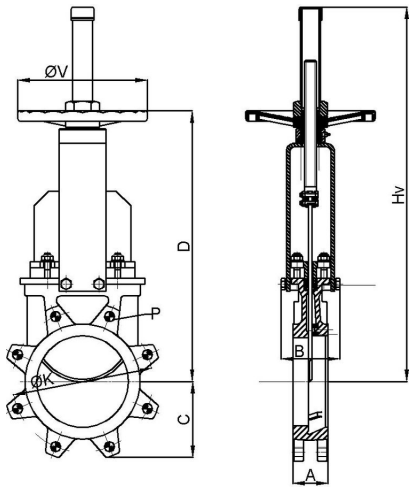
Possible packages:

Package	Medium temperature [°C]	Application examples
PTFE-synthetic/EPDM	-15 ...+90	neutral fluids, Liquids with 5% solid content, Granules, Slurries
PTFE-synthetic/FKM	-15 ...+180	Liquids, Liquids with 5% solid content, Granules, Slurries
PTFE	-30 ...+200	for almost all liquids

Possible seat seals:

Seal	Medium temperature [°C]	Leakage [in % of the flow rate]	Application examples
EPDM	-5...+90	0	neutral fluids, Liquids with 5% solid content, Granules, Slurries
metallic	-20...+650	1,5	dry media and liquids with 5% solid content, Granules, Slurries
PTFE	-20 ...+180	0,5	Alkalis and acids
FKM	0...+180	0	Acids, Fuels and oil-containing liquids
NBR	-20...+90	0	Oils and oil-containing fluids
Silicone	-25...+200	0	Food and pharmaceutical products

Dimensions:

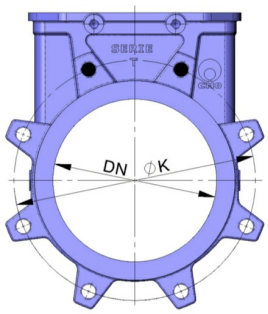


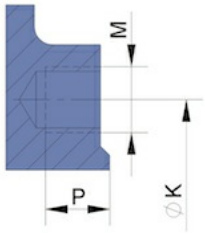
Nominal size DN[mm]	max. operating pressure [bar]	A	B	C	D	Hv	ØK	Depth P	ØV	Kv value [m 3 /h]	Weight [kg]
50	10	47,6	91	61	280	410	125	8	225	206	
65	10	47,6	91	68	308	437	145	8	225	305	
80	10	50,8	91	91	333	463	160	9	225	485	
100	10	50,8	91	104	373	503	180	9	225	895	
125	10	57,2	101	118	407	586	210	9	225	1550	
150	10	57,2	101	130	458	638	240	10	225	2095	
200	10	69,9	118	159	578	816	295	10	325	3834	
250	10	69,9	118	196	679	1017	350	12	325	5375	
300	10	76,2	118	231	779	1117	400	12	380	8083	
350	10	76,2	290	257	906	1337	460	14	450	10700	

Limit switch

Type	MSU01A	MSU02	MSU03	MS04
				
Manufacturer/type	Siemens 3SE5122	Telemecanique XS618B1MAL2	IFM IGS208	IFM NG501A
Description	N/O / N/C	M18, 24-240VAC/DC, NO, 2-wire, Cable 2m	M18, 10-30VDC, NO, 2-wire or 3-wire, Cable 2m	M18, ATEX EEx i, Cable 2m
Ambient temperature	-25 ...+85°C	-25 ...+70°C	-25 ...+70°C	-20 ...+70°C
Degree of protection	IP66	IP67	IP67	IP67
maximum switching capacity	230VAC/6A 24VDC/0,27A	AC 300mA, DC 200mA	DC 100mA	-

Flange information:





● 1
○ 2

1...Blind tapped hole thread, 2...Female thread through hole

Nominal size DN[mm]	Number of blind tapped holes	Number of female threads	ØK	M	Depth Blind tapped hole thread P
50	2	2	125	M16	8
65	2	2	145	M16	8
80	2	6	160	M16	9
100	2	6	180	M16	9
125	2	6	210	M16	9
150	2	6	240	M20	10
200	2	6	295	M20	10
250	4	8	350	M20	12
300	4	8	400	M20	12
350	6	10	460	M20	14

Illustrations non-binding
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