

knife gate valve with handwheel series A1V2

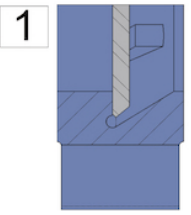
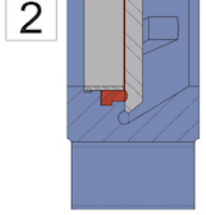
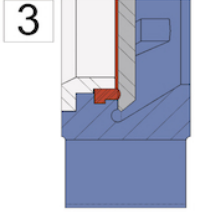
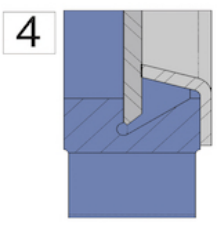
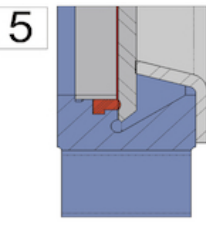
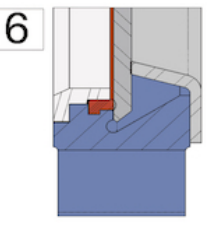


design	knife gate valve with handwheel, wafer type, unidirectional sealed, rising stem, packing manually adjustable
connection	flange DN50...DN500 according to EN1092-2 PN10
operating pressure	until nominal pressure acc. to table warning: gate valve can be pressurized against direction of flow with max. 30% of nominal pressure. this can cause a slight leakage in the closed position.
medium temperature	body cast iron EN-GJL-250 respectively ductile iron EN-GJS-500-7 -10...120°C, body stainless steel AISI 316 -30...120°C, additionally dependent on material of packing and seal - see table, higher temperature on request
actuation	with handwheel
material	see material table
type of fixing	installed into rigid pipework
mounting position	vertical up, other mounting position on request
flow direction	is marked by an arrow. at dry media we suggest discharge against direction of arrow. warning: gate valve can be pressurized against direction of flow with max. 30% of nominal pressure. this can cause a slight leakage in the closed position.
accessories	mounted mechanical limit switches respectively inductive proximity switches
ATEX	applicable in explosion proof area Zone 2 and 22 (ATEX zone 1 and 21 on request)
further types	diameter until 1200mm, non rising stem, single or double acting pneumatic actuator, electrical actuator, sliding guides gate PTFE, flushing holes, other nominal pressure on request

material table:

type	A1V2H2-5-...-B	A1V2I2-5-...
body	cast iron EN-GJL-250 respectively ductile iron EN-GJS-500-7 epoxy coated RAL5015, coating 80µm	stainless steel AISI 316
gate	stainless steel AISI 304	stainless steel AISI 316
support plates	steel coated	steel coated
packing (standard)	PTFE-synthetic/EPDM	PTFE-synthetic/EPDM
seat seal (standard)	EPDM	EPDM
sliding guides gate	RCH-1000(polyethylene)	RCH-1000(polyethylene)
stem	stainless steel AISI 303	stainless steel AISI 303
handwheel	ductile iron EN-GJS-500-7	ductile iron EN-GJS-500-7

options of seat for unidirectional sealed valve:

		
		
1...metal sealing	2...soft sealing with fixing ring (standard)	3...soft sealing with reinforced fixing ring respectively scraper for gate
4...metal seal with abrasion protection	5...soft sealing with fixing ring and abrasion protection	6...soft sealing with reinforced fixing ring respectively scraper for gate and abrasion protection

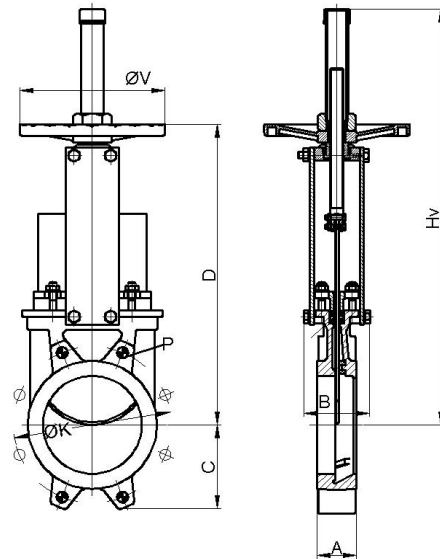
available packings:

packing	medium temperature [°C]	examples of use
PTFE-synthetic/EPDM	-15 ...+90	neutral liquids, liquids with solids content of 5%, granulate material, slurry
PTFE-synthetic/FKM	-15 ...+180	liquids, liquids with solids content of 5%, granulate material, slurry
PTFE	-30 ...+200	for almost all liquids

available seat seals:

seal	medium temperature [°C]	leakage [in % of flow rate]	examples of use
EPDM	-5...+90	0	neutral liquids, liquids with solids content of 5%, granulate material, slurry
metallic	-20...+650	1,5	dry media and liquids with solids content of 5%, granulate material, slurry
PTFE	-20 ...+180	0,5	bases and acids
FKM	0...+180	0	acids, fuel and oil emulsive liquids
NBR	-20...+90	0	oils and oil emulsive liquids
silicone	-25...+200	0	food and pharmaceutical products

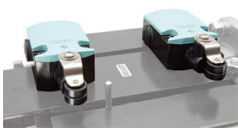
dimensions:



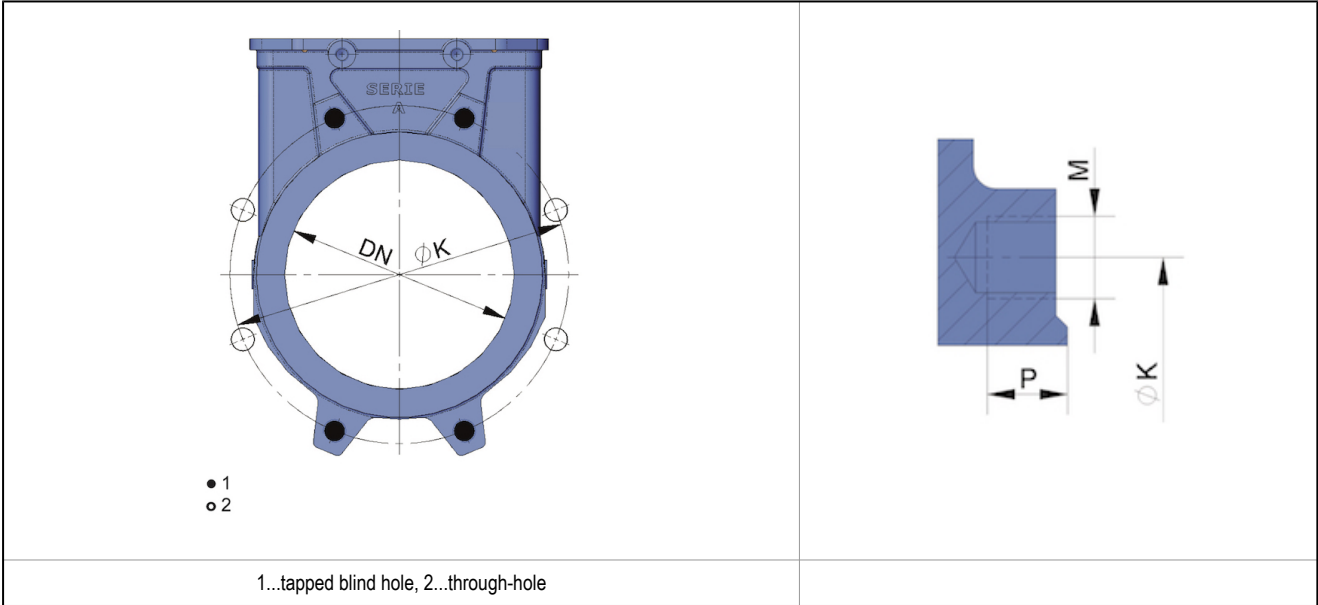
nominal diameter DN[mm]	max. nominal pressure [bar]	A	B	C	D	Hv	$\varnothing K$	depth* P	$\varnothing V$	kv value [m ³ /h]	weight [kg]
50	10	40	92	63	280	409	125	8	225	206	7
65	10	40	92	70	308	436	145	8	225	305	8
80	10	50	92	92	333	469	160	9	225	485	9
100	10	50	92	105	373	502	180	9	225	895	11
125	10	50	102	120	406	585	210	9	225	1550	13
150	10	60	102	130	458	644	240	10	225	2095	17
200	10	60	119	160	578	815	295	10	325	3834	28
250	10	70	119	198	679	1016	350	12	325	5375	40
300	6	70	119	234	779	1116	400	12	380	8083	56
350	6	96	290	256	906	1336	460	21	450	10700	94
400	6	100	290	292	1012	1442	515	21	450	14200	116
450	5	106	290	308	1098	1628	565	22	450	18405	162
500	4	110	290	340S	1210	1738	620	22	450	23215	191

*depth of thread, DN600 ...DN1200 on request

limit switch

type	MSU01A	MSU02	MSU03	MS04
				
manufacturer/type	Siemens 3SE5122	Telemecanique XS618B1MAL2	IFM IGS208	IFM NG501A
description	NC/NO contact	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
protection class	IP66	IP67	IP67	IP67
max. switching capacity	230VAC/6A 24VDC/0,27A	AC 300mA, DC 200mA	DC 100mA	-

flange informations:



nominal diameter DN[mm]	number of tapped blind holes	number of through-holes	ØK	M	depth tapped blind hole P
50	4	-	125	M16	8
65	4	-	145	M16	8
80	4	4	160	M16	9
100	4	4	180	M16	9
125	4	4	210	M16	9
150	4	4	240	M20	10
200	4	4	295	M20	10
250	6	6	350	M20	12
300	6	6	400	M20	12
350	10	6	460	M20	21
400	10	6	515	M24	21
450	14	6	565	M24	22
500	14	6	620	M24	22

DN600 ...DN1200 on request

illustrations are non-binding
all designs, configurations, measurements and materials are subject to change without prior notice