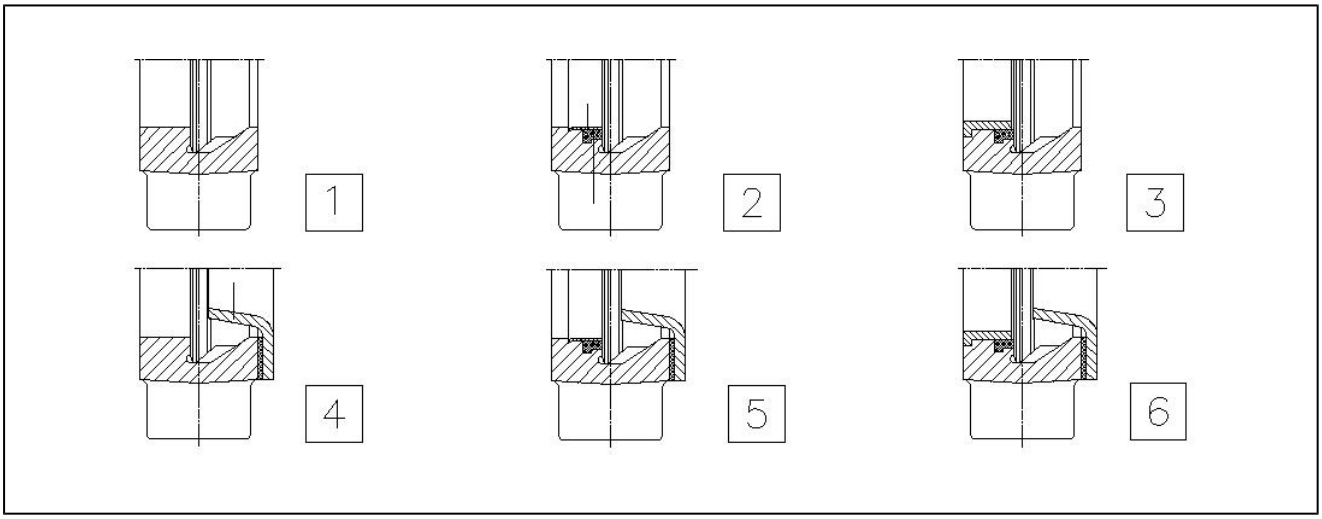
gate valve with handwheel
series A1V2

design	gate valve, 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, vacuum range on request warning: gate valve can be pressurized against direction of flow with max. 30% of nominal pressure.
medium temperature	body cast iron EN-JL1040 -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.
accessories	mounted mechanical limit switches respectively inductive proximity switches
ATEX	applicable in explosion proof area Zone 2 and 22
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 epoxy coated	AISI 316
gate	AISI 304	AISI 316
packing (standard)	PTFE-synthetic/EPDM	PTFE-synthetic/EPDM
seat seal (standard)	EPDM	EPDM
sliding guides gate	RCH-1000(polyethylene)	RCH-1000(polyethylene)
stem	AISI 303	AISI 303
handwheel	ductile iron EN-JS1050	ductile iron EN-JS1050

options of seat for unidirectional sealed valve:



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

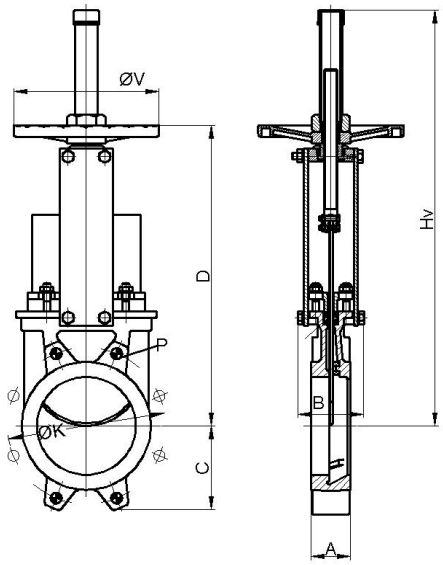
available packings:

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	mostly water but liquids with solids content of 5%, granulate material, slurry
metallic	-20 ...+650	1,5	for dry media and liquids with solids content of 5%, granulate material, slurry
PTFE	-20 ...+180	0,5	for bases and acids
FKM	0 ...+180	0	for acids, fuel and oil emulsive liquids
NBR	-20 ...+90	0	oils and oil emulsive liquids
silicone	-25 ...+200	0	for food and pharmaceutical products

dimensions:



nominal diameter DN[mm]	max. nominal pressure [bar]	A	B	C	D	Hv	ØK	depth P	ØV	weight [kg]
50	10	40	91	61	280	410	125	8	225	7
65	10	40	91	68	308	437	145	8	225	8
80	10	50	91	91	333	463	160	9	225	9
100	10	50	91	104	373	503	180	9	225	11
125	10	50	101	118	407	586	210	9	225	13
150	10	60	101	130	458	638	240	10	225	17
200	8	60	118	159	578	816	295	10	325	28
250	6	70	118	196	679	1017	350	12	325	40
300	6	70	118	230	779	1117	400	12	380	56
350	5	96	290	254	906	1337	460	21	450	94
400	5	100	290	287	1012	1443	515	21	450	116
450	3	106	290	304	1098	1629	565	22	450	162
500	3	110	290	340	1210	1741	620	22	450	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	-

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