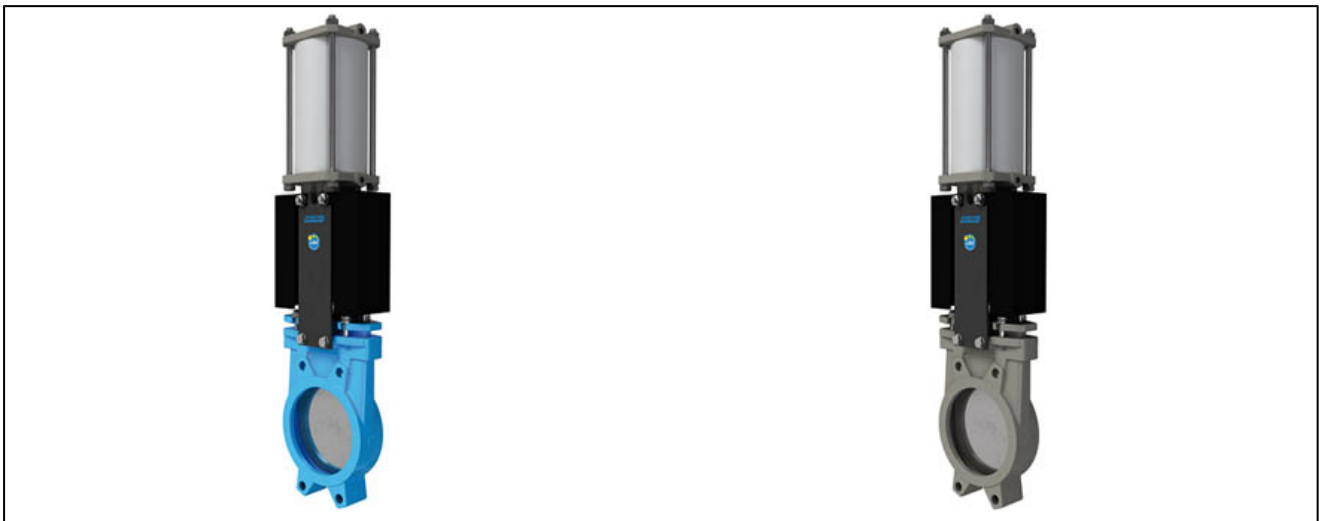


## gate valve with double acting pneumatic actuator series A1N2

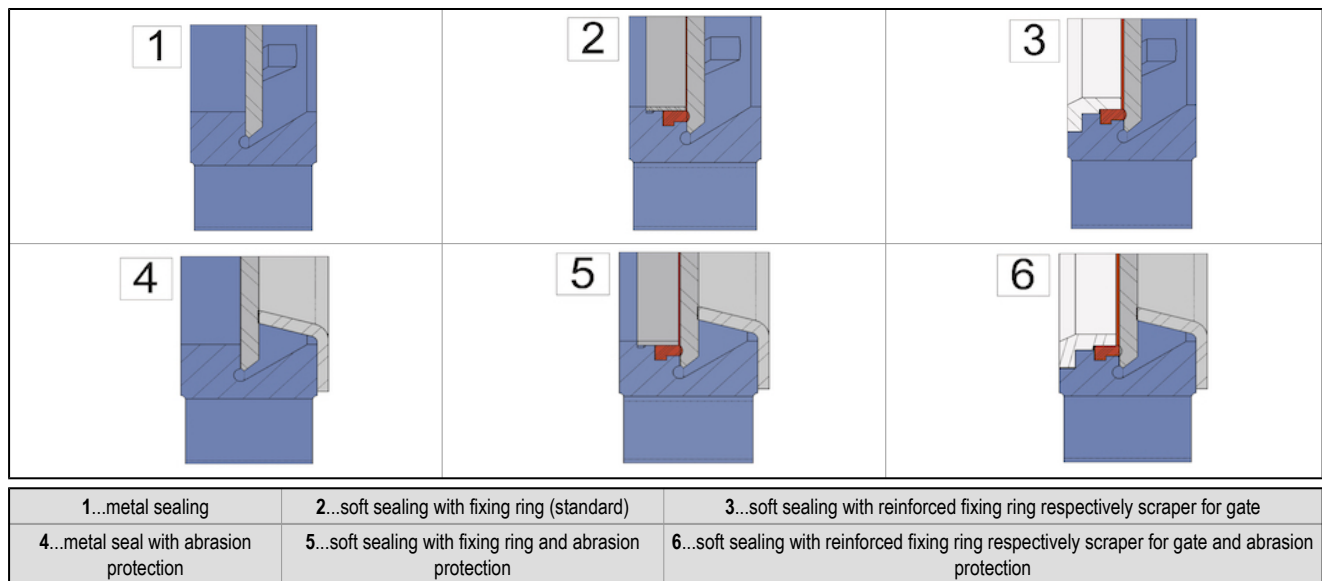


design	gate valve, wafer type, unidirectional sealed, rising stem, packing manually adjustable
connection	flange DN50...DN500 according to EN1092-2 PN10
operating pressure	until nominal pressure acc. to table warning: gate valve can be pressurized against direction of flow with max. 30% of nominal pressure. 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
ambient temperature	-10...80°C
actuation	pneumatically double acting
control pressure range	5,5...8bar, less control pressure on request
control medium	filtered, lubricated and water-free compressed air solid particle class 2, water content class 4 and oil content class 3 according to ISO 8573-1
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 5/2-way control valve, 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, single acting pneumatic actuator, pneumatic cylinder made of stainless steel, electrical actuator, with manual emergency override, sliding guides gate PTFE, flushing holes, other nominal pressure on request

**material table:**

type	A1N2H2-5...-B	A1N2I2-5-...
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/protection 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)
piston-rod	stainless steel AISI 304	stainless steel AISI 304
cylinder tube	aluminum	aluminum
cylinder rear- and front cap	diameter of cylinder 80...200 aluminum, above ductile iron	diameter of cylinder 80...200 aluminum, above ductile iron
tie-rod	zinc plated steel	zinc plated steel

**options of seat for unidirectional sealed valve:**



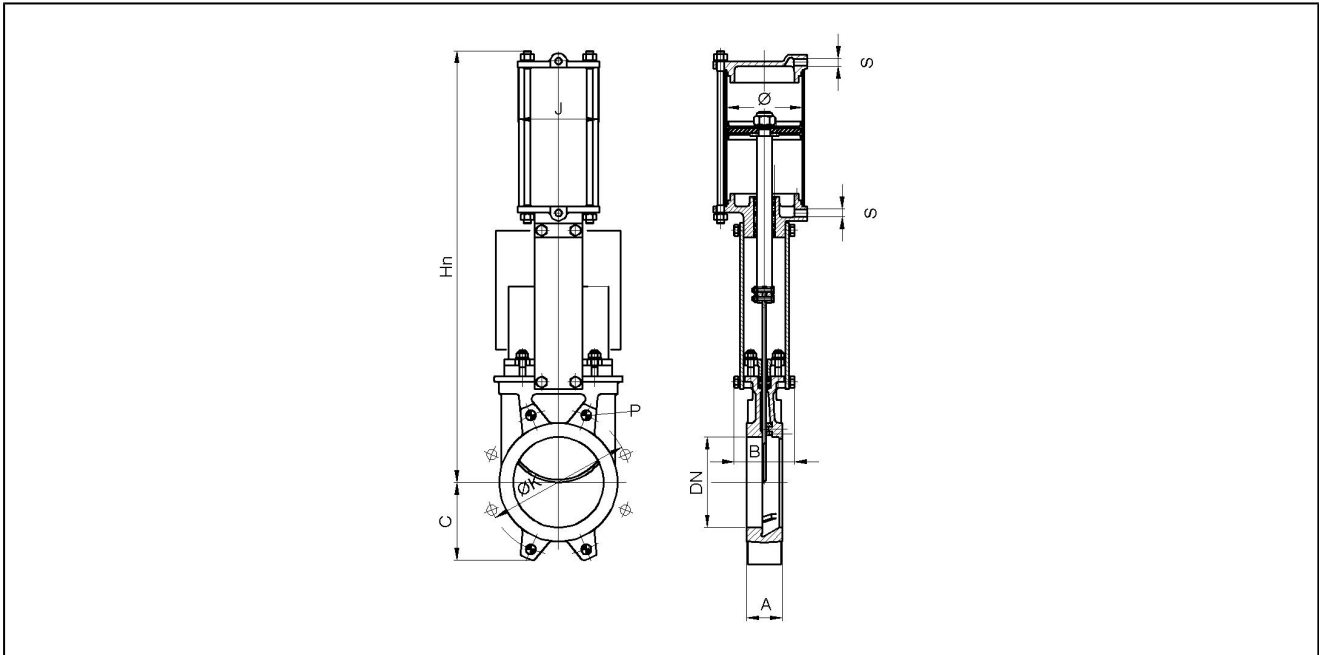
**available packings:**

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:**



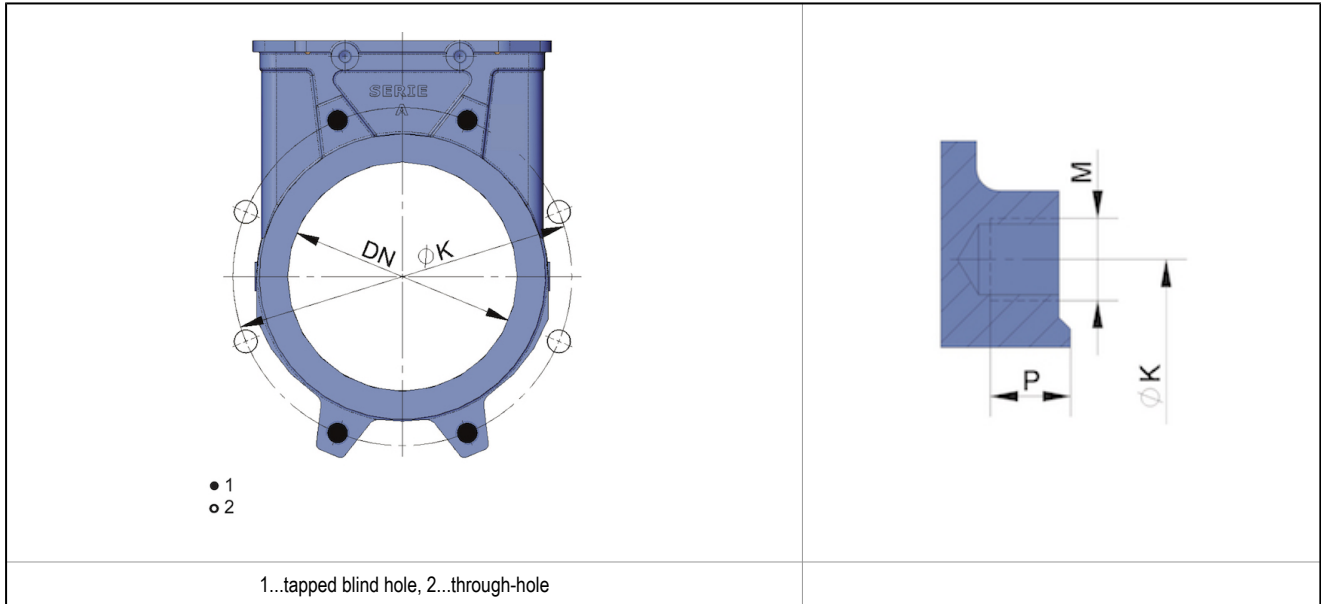
nominal diameter DN[mm]	max. nominal pressure [bar]	A	B	C	Hn	ØK	depth* P	J	Ø cylinder	S	kv value [m <sup>3</sup> /h]	weight [kg]
50	10	40	92	63	400	125	8	96	80	G1/4"	206	7
65	10	40	92	70	442	145	8	96	80	G1/4"	305	8
80	10	50	92	92	484	160	9	96	80	G1/4"	485	9
100	10	50	92	105	546	180	9	115	100	G1/4"	895	12
125	10	50	102	120	630	210	9	138	125	G1/4"	1550	18
150	10	60	102	130	692	240	10	138	125	G1/4"	2095	22
200	10	60	119	160	869	295	10	175	160	G1/4"	3834	37
250	10	70	119	198	1032	350	12	218	200	G3/8"	5375	58
300	6	70	119	234	1181	400	12	218	200	G3/8"	8083	72
350	6	96	194	256	1379	460	21	270	250	G3/8"	10700	130
400	6	100	194	292	1535	515	21	270	250	G3/8"	14200	155
450	5	106	290	308	1677	565	22	382	300	G1/2"	18405	225
500	4	110	290	340	1839	620	22	382	300	G1/2"	23215	257

\*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°C...+85°C	-25°C...+70°C	-25°C...+70°C	-20°C...+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