

Wey Knife Gate Valve SN



PN 10

Wey Knife Gate Valve SN

The Wey Knife Gate Valve Model SN is built to high quality manufacturing standards and combines robust construction with revolutionary design refinements found in no other knife gate valve. This bi-directional bubble tight and cavity free full bore design assures you best in class performance. The valve is suitable for fluids, sludge and liquids with low solids content such as water, waste water and bio mass.

The Model SN comes with a solid cast iron valve body. Epoxy powder coating provides excellent

corrosion protection. The valve is equipped with a gate in stainless steel, which has a special gate geometry to prevent jamming during closure. The new revolutionary one piece seal is supplied in NBR or EPDM. It is reinforced by a core and provides a bi-directional shutoff and zero leakage to the atmosphere due to its integrated transverse seal.

SISTAG AG designed, manufactured and tested the model SN according to pressure equipment directive 2014/68/EU category I.

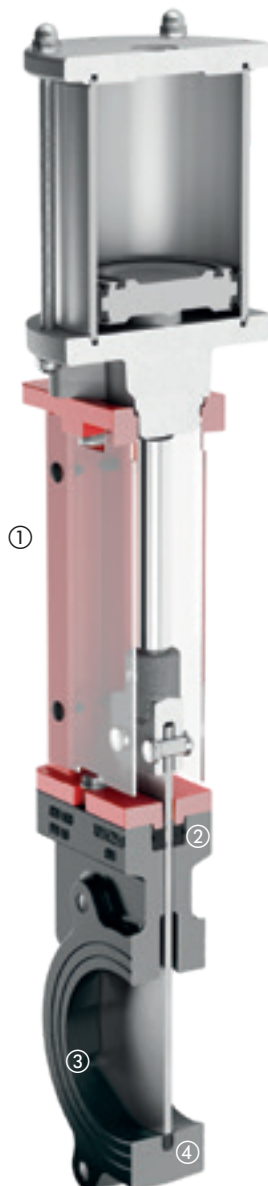
Design Features

① Robust Topwork

Solid steel topwork provides maximum strength to prevent damage due to operator abuse or vibrating conditions. It facilitates easy access to mechanical parts, and facilitates mounting of accessories.

③ Bi-Directional Shut-Off

The design of a resilient seat with metal backup provides for 100% bi-directional bubble-tight shut-off.



② Transverse Seal

Unique Wey transverse seal eliminates stuffing box. A special lip-seal profile insures against leakage to atmosphere. Pre-compressed sealing provides sealing pressure, and compensates for wear.

④ Superior Seat Design

Flush fitted seat with no cavities prevent any build-up of media in the seat area. Contoured body interior with integrated flushing corners initiates flushing action to prevent jamming of gate.

Design Information

Size (DN)	Flange Drilling	Face-to-Face	Corrosion Protection	Leakage Rate
50–200	EN 1092 / ISO 7005 (DIN 2501) DN50-150: PN16 DN200: PN10	EN 558 / ISO 5752 Part 20 (DIN 3202-K1)	Non-corrosive resistant materials are coated with epoxy powder coating acc. requirements in EN ISO 12944 class C3.	Test acc. EN 12266-1/2, rate A

Nominal Pressure Rating

Size (DN)	Pressure
50–200	10 bar

At Temperature of 80°C

Max. Operating Pressure (bar)*

Size (DN)	Handwheel	Pneumatic Cylinder*	Electric Actuator
50	10	10	10
65	10	10	10
80	10	10	10
100	10	8	10
125	10	6	10
150	10	10	10
200	10	8	10

* Higher pressure rating with oversized actuation possible

Model SN Configuration

Standard Configuration

Sizes	50 – 200
Body Material	Cast Iron EN-GJL250
Gate Material	Stainless Steel EN 1.4301
Seal Material	NBR
Topwork	Cast Iron EN-GJL250
Stem/Piston	EN 1.4104
Bolting	Stainless Steel A4
Actuation	Handwheel Pneumatic Cylinder Electric Motor

Options

Gate Material	Stainless Steel EN 1.4404
Seal Material	EPDM

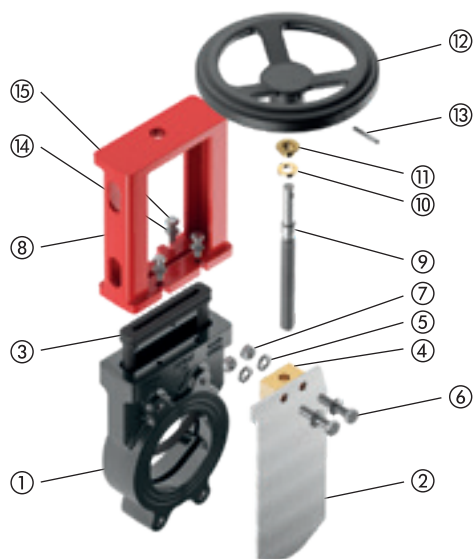
Accessoires

Proximity Sensor
Solenoid Valve
Stainless Steel Tubing
Safety Guard

Rating Chart

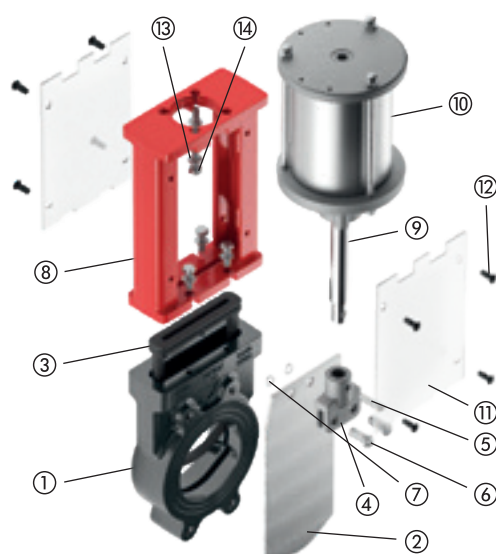
Material	Temperature Range
NBR	-25°C to +100°C
EPDM	-25°C to +140°C

Part List



Handwheel

Item	Part	Material
1	Body	GJL-250
2	Gate	1.4301
3	Seal	NBR
4	Stem nut	Ms 58K
5	Washer	A4
6	Hex screw	A4.70
7	Hex nut	A4
8	Topwork	GJL-250
9	Stem	1.4104
10	Stem ring	Brass
11	Bearing	POM
12	Handwheel	Steel
13	Split Pin	A2.70
14	Washer	A4
15	Hex screw	A4.70



Pneumatic Cylinder

Item	Part	Material
1	Body	GJL-250
2	Gate	1.4301
3	Seal	NBR
4	Clevis	Alu
5	Split Pin	A2.70
6	Bolt	1.4104
7	Circlip	1.4116
8	Topwork	GJL-250
9	Piston Rod	1.4104
10	Cylinder	Alu
11	Safety Guard	PMMA
12	Rivet Fastener	POM
13	Washer	A4
14	Hex screw	A4.70

Wey Knife Gate Valve SNA

DN 50 – 200

Standard Construction

Valve operated by handwheel

Material:

Body EN-GJL-250

Gate 1.4301

Flange drilling:

EN 1092 / ISO 7005 (DIN 2501) ¹⁾

DN 50-150 PN16

DN 200 PN10

Face-to-face dimension:

EN 558 Reihe 20

ISO 5752 Series 20

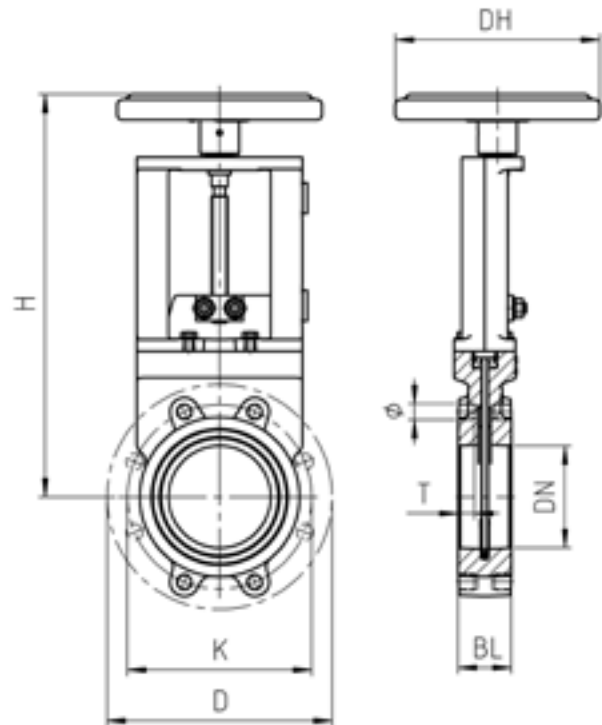
DIN 3202 K1

Nominal Pressure:

DN 50-200 10 bar

Pressure test:

EN 12266-1/2 Leakage rate A



¹⁾ DN 65 with 8 holes

All information for reference only. Technical modifications reserved.

DN	D	K	BL	H	DH ²⁾	ø	T	Qty bolts	Tapped hole	Through hole	Max. operating pressure [bar] ²⁾	Weight [kg]
50	165	125	43	311.5	150	M16	13	4	4	–	10	8
65	185	145	46	341.5	150	M16	13	8	4	4	10	9
80	200	160	46	363.5	200	M16	14	8	4	4	10	10
100	220	180	52	393.5	200	M16	16	8	4	4	10	13
125	250	210	56	436.5	200	M16	16	8	4	4	10	16
150	285	240	56	510.5	300	M20	16	8	4	4	10	23
200	340	295	60	595.5	300	M20	18	8	6	2	10	35

²⁾ Operating pressure: All handwheels are sufficient for specified pressure conditions on unproblematic media

Wey Knife Gate Valve SNC

DN 50 – 200

Standard Construction

Valve operated by Pneumatic cylinder

Material:

Body EN-GJL-250

Gate 1.4301

Flange drilling:

EN 1092 / ISO 7005 (DIN 2501) ¹⁾

DN 50-150 PN16

DN 200 PN10

Face-to-face dimension:

EN 558 Reihe 20

ISO 5752 Series 20

DIN 3202 K1

Nominal Pressure:

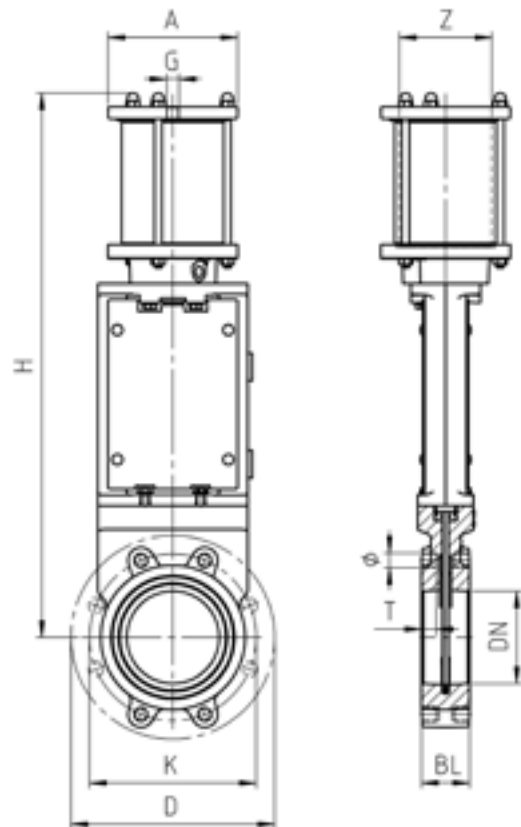
DN 50-200 10 bar

Pressure test:

EN 12266-1/2 Leakage rate A

Air connection:

ISO 228-1 (Dim. "G")



¹⁾ DN 65 with 8 holes

All information for reference only. Technical modifications reserved.

DN	D	K	BL	H	Z ²⁾	A	G	ø	T	Qty bolts	Tapped hole	Through hole	Max. operating pressure [bar] ²⁾	Weight [kg]
50	165	125	43	446	100	140	G1/4	M16	13	4	4	–	10	10
65	185	145	46	491	100	140	G1/4	M16	13	8	4	4	10	11
80	200	160	46	528	100	140	G1/4	M16	14	8	4	4	10	12
100	220	180	52	588	100	140	G1/4	M16	16	8	4	4	8	15
125	250	210	56	656	100	140	G1/4	M16	16	8	4	4	6	19
150	285	240	56	748	160	180	G1/4	M20	16	8	4	4	10	30
200	340	295	60	888	160	180	G1/4	M20	18	8	6	2	8	43

²⁾ Operating pressure: Valid at minimum air supply 6 bar on unproblematic media

Wey Knife Gate Valve SNE

DN 50 – 200

Standard Construction

Valve operated by Auma Actuator SA

Material:

Body EN-GJL-250

Gate 1.4301

Flange drilling:

EN 1092 / ISO 7005 (DIN 2501) ¹⁾

DN 50-150 PN16

DN 200 PN10

Face-to-face dimension:

EN 558 Reihe 20

ISO 5752 Series 20

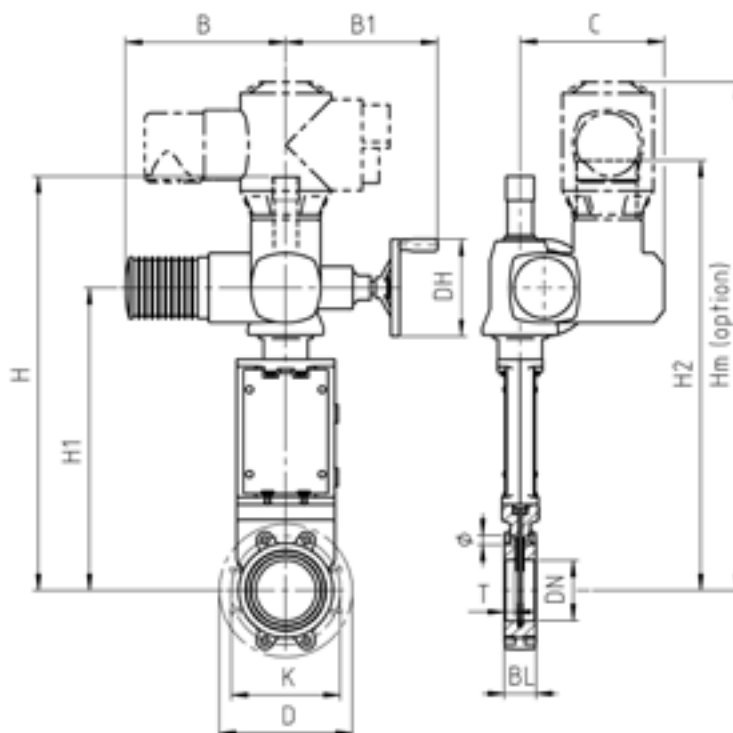
DIN 3202 K1

Nominal Pressure:

DN 50-200 10 bar

Pressure test:

EN 12266-1/2 Leakage rate A



¹⁾ DN 65 with 8 holes

All information for reference only. Technical modifications reserved.

DN	D	K	BL	H	H1	H2	Hm (option)	DH	B	B1	C	ø	T	Qty bolts	Tapped hole	Through hole	Max. operating pressure [bar] ³⁾	AUMA SA ³⁾	Weight [kg]
50	165	125	43	²⁾	408	618	748	160	265	249	238	M16	13	4	4	–	10	07.2	29
65	185	145	46	²⁾	438	648	778	160	265	249	238	M16	13	8	4	4	10	07.2	30
80	200	160	46	²⁾	460	670	800	160	265	249	238	M16	14	8	4	4	10	07.2	31
100	220	180	52	²⁾	500	710	840	160	265	249	238	M16	16	8	4	4	10	07.2	34
125	250	210	56	²⁾	545	755	885	160	265	249	238	M16	16	8	4	4	10	07.2	38
150	285	240	56	777	593	803	933	160	265	249	238	M20	16	8	4	4	10	07.6	47
200	340	295	60	867	683	893	1023	160	265	249	238	M20	18	8	6	2	10	07.6	60

²⁾ Without protection tube

³⁾ Operating pressure: All actuators are sufficient for specified pressure conditions on unproblematic media