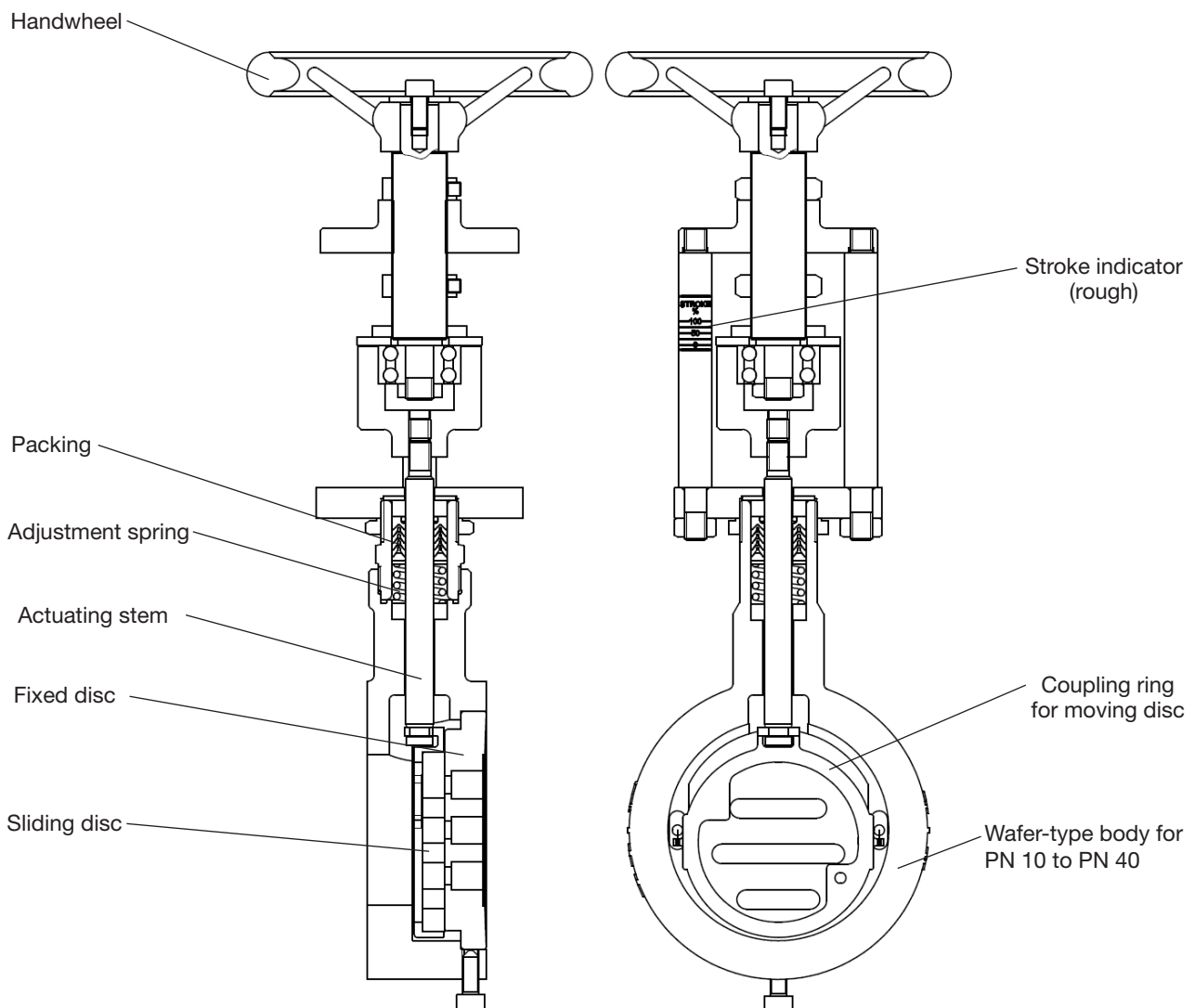


# Sliding Gate Valve 8051

## GS 1 series - DN 15 up to DN 150

**Manually operated sliding gate valve for regulating or shutting off liquid and gaseous media for industrial applications**

- Precise control by hand
- Lowest possible weight (especially in larger sizes)
- High Kvs-values
- Low leakage rate
- Simple handling of high pressure differences
- Meets the requirements of TA-Luft 2021



## Technical Information

Body design	Flangeless, wafer-type construction dimensions to DIN EN 558-1 series 20 for flanges acc. DIN EN 1092-1 form B		
Nominal sizes	DN 15 up to DN 150		
Nominal pressure	PN 40 acc. DIN 2401 also for flanges PN 10 up to PN 25		
Media temperature	Body carbon steel	-10°C up to +230°C	
	Body stainless steel	-20°C up to +230°C optional -60°C up to +230°C	
Ambient temperature	-30°C up to +100°C		
Flange gaskets (customer side)	DIN EN 1514-1 or ANSI B16.21 in the respective nominal pressure rating		
Leakage	Disc pair Carbon-stainless steel	Disc pair SFC	Disc pair STN 2
% of Kvs	< 0,0001	< 0,0005	< 0,001
IEC 60534-4	IV-S1	IV-S1	IV
EN 12266-1	E	F	F
Marking ATEX non electric	II 2G Ex h IIC T6...T1 X Gb II 2D Ex h IIIC 85°C...530°C X Db		
Specific leakage rate shaft and body sealing	ISO FE-BH-CC3-SSA0-t(-40°C/+350°C)-PN40-ISO 15848-1		

\* With DN15 with reduction of less than 25%, different leakage rates possible.  
K<sub>vs</sub>-values see data sheet 8001.

## Admissible Differential Pressure (For temperatures of up to 120°C)

**For temperatures of 120°C and above:  
obey application limits !**

DN	carbon/SFC-stainless steel	STN2
	max. differential pressures	
	bar	bar
15	40	40
20	40	40
25	40	40
32	40	40
40	40	27
50	40	40
65	40	38
80	40	22
100	25	13,5
125	16,5	8,9
150	16	11

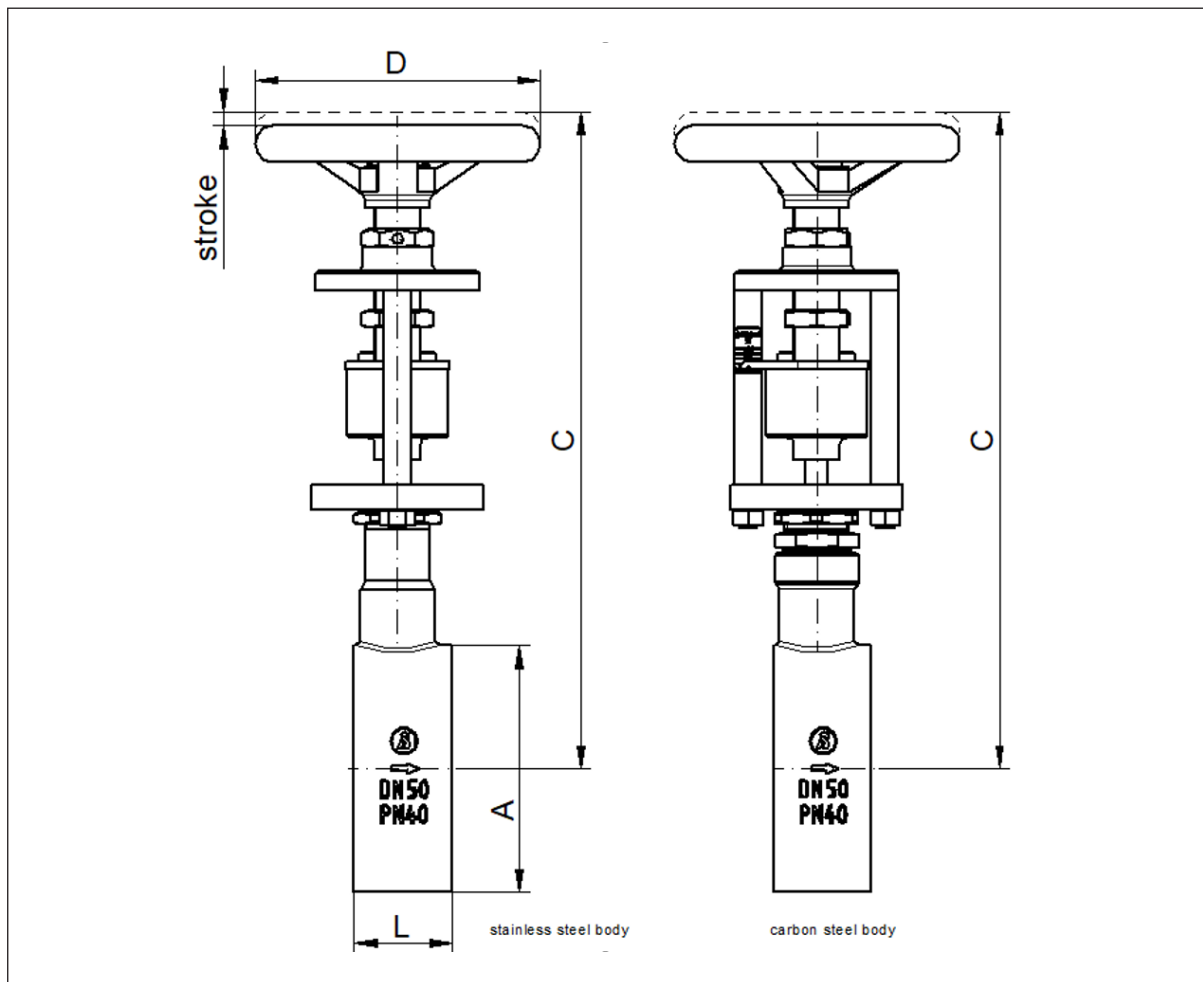
## Applications limits for GS1-Valves

### PN 40

DN	Sliding unit: carbon/SFC - stainless steel, coated				Sliding unit: STN2			
	max. adm. diff. pressures for GS1-valves				max. adm. diff. pressures for GS1-valves			
	100°C	150°C	200°C	230°C	100°C	150°C	200°C	230°C
15 - 25	40	36	31	30	40	36	31	30
32	40	36	31	30	40	36	31	30
40	40	36	31	30	27	26	24	21
50	40	36	31	30	40	36	31	30
65	40	36	31	30	38	36	31	30
80	40	36	31	30	22	21	20	17,5
100	25	24	22	20	13,5	12,5	12,0	10,5
125	16,5	15,5	15	13,5	8,9	8,4	8,0	7,0
150	16	16	16	16	11	10,5	9,8	8,6



## Dimensions and Weights



DN	A	C max.		D	L	Stroke
		for stain- less steel	for carbon steel			
15	53	245	268	62	33	6
20	62	250	273	62	33	6
25	72	255	278	62	33	6
32	82	260	283	62	33	6
40	92	265	288	62	33	6
50	108	290	290	62	43	8
65	126	300	300	62	46	8
80	142	305	305	62	46	8
100	164	320	320	62	52	8,5
125	194	335	335	62	56	8,5

Dimensions in mm