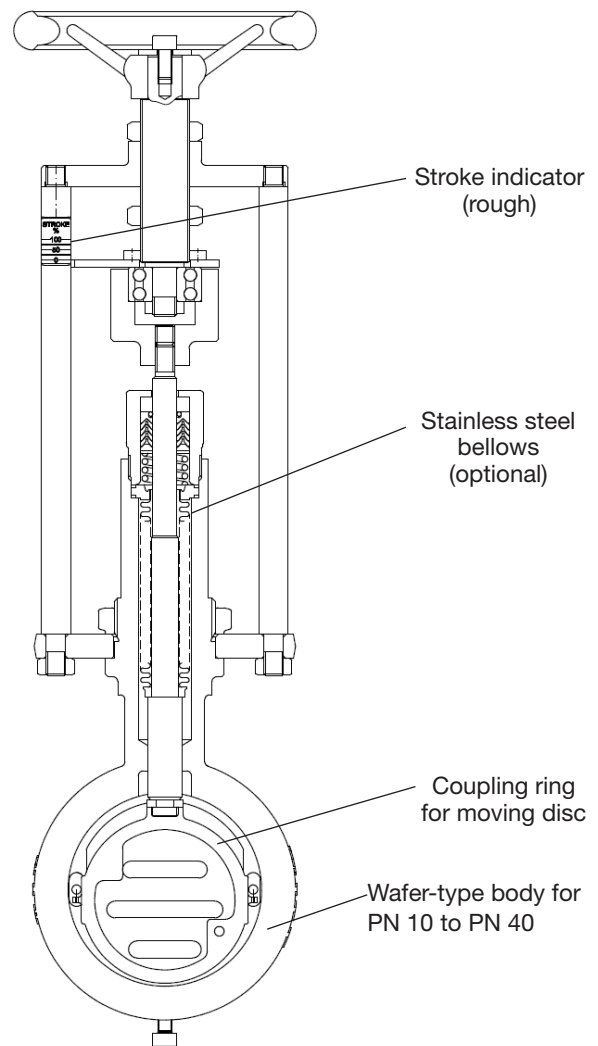
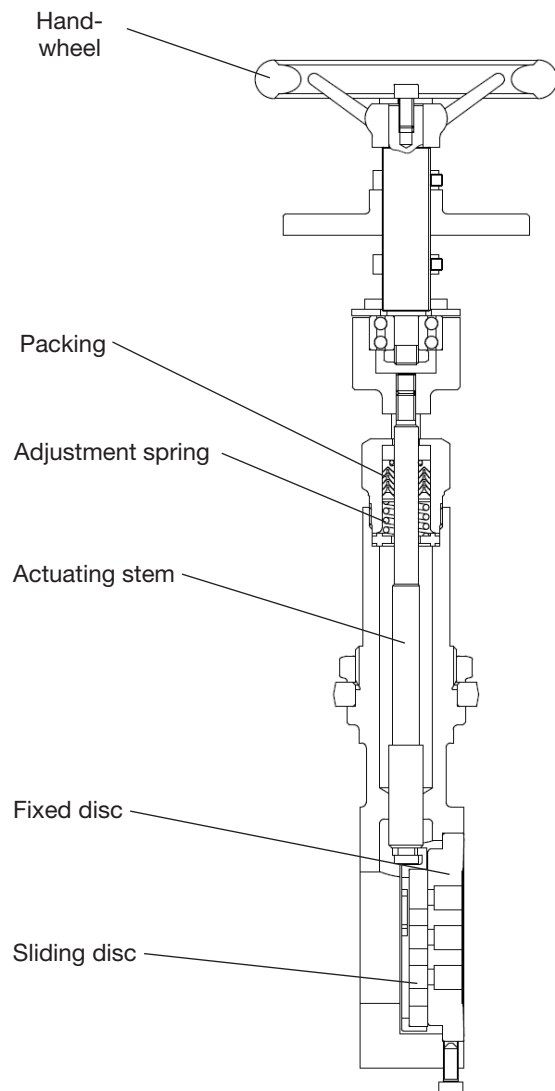


Sliding Gate Valve 8050

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 +350°C	
	Body stainless steel	-60°C up to +350°C (+300°C for SFC)	
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_{vs} -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

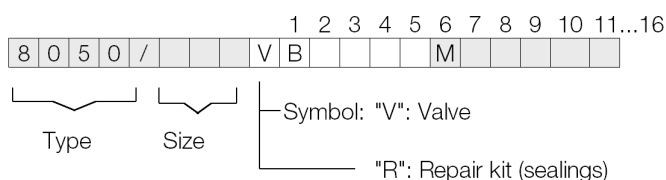
DN	Sliding unit: carbon/SFC - stainless steel, coated						Sliding unit: carbon - STN2					
	max. admissible pressures for GS1-valves						max. admissible pressures for GS1-valves					
	100°C	150°C	200°C	250°C	300°C	350°C	100°C	150°C	200°C	250°C	300°C	350°C
15 - 25	40	36	31	28	26	24	40	36	31	28	26	24
32	40	36	31	28	26	24	40	36	31	28	25	22
40	40	36	31	28	26	24	27	26	24	19,5	16	14
50	40	36	31	28	26	24	40	36	31	28	26	24
65	40	36	31	28	26	24	38	36	31	28	23	19,5
80	40	36	31	28	26	24	22	21	20	16	13	11,5
100	25	24	22	19	16	14,5	13,5	12,5	12,0	9,8	8,1	7,0
125	16,5	15,5	15	12,5	10,5	9,5	8,9	8,4	8,0	6,5	5,3	4,6
150	16	16	16	16	13	11,5	11	10,5	9,8	7,9	6,5	5,6

Limitation for SFC-sliding discs: 300°C

Materials

Body	Carbon steel 1.0619	Stainless steel 1.4408	
Packing	PTFE (Carbon filled), spring 1.4310		
Actuating stem	Stainless steel 1.4571, roller burnished		
Bellows	Stainless steel 1.4571		
Fixed disc	Stainless steel 1.4581, coated	STN2-disc	
Sliding disc	Special carbon material	SFC-disc	STN2-disc
Coupling ring for disc	Stainless steel 1.4581		
Handwheel	Aluminium		

Ordering Number System

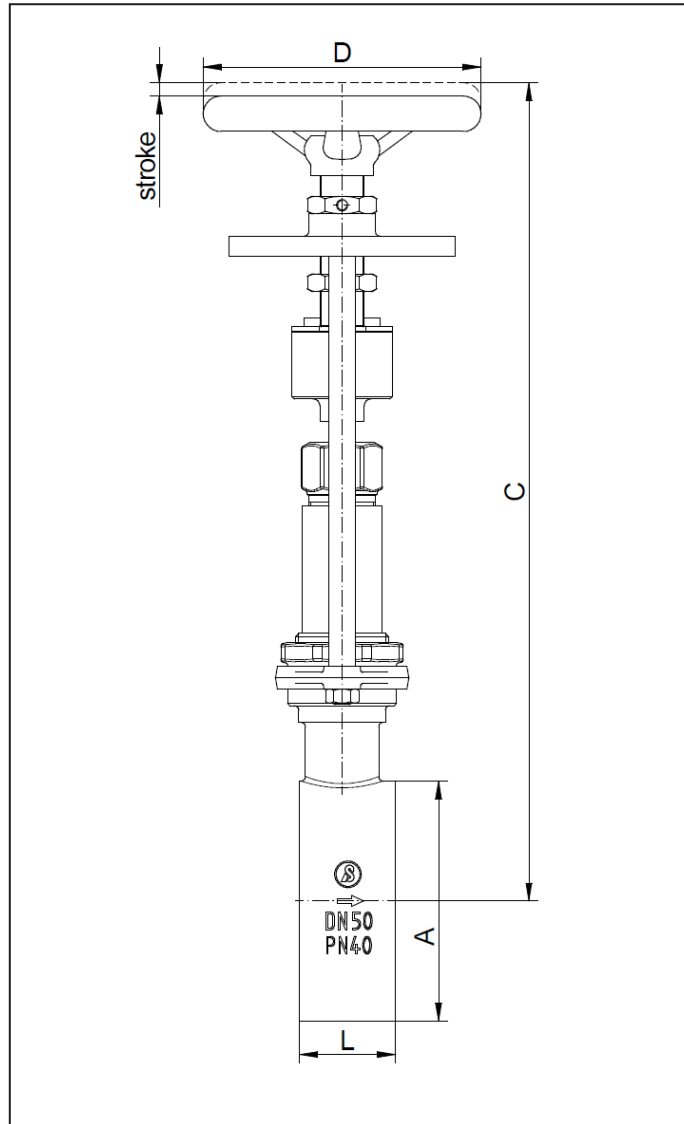


1 - 5 : Please quote all 5 sections.
 6 - 16: Quote only if required.

1. Type		2. Connection		3. Body material		4.		5. Actuator		6. Special versions	
B	Sliding gate valve, long design (type 8050)	0	Flangeless design acc. DIN 2632-2635 (PN10-PN40)	0	Carbon steel 1.0619	-	without significance	5	manually operated	M	Special versions
		1		1	stainless steel 1.4408						
7.		8. Stem sealing		9. Moving disc		10. Fixed disc		11. Kvs-values		12. Characteristic	
-	without significance	-	PTFE-packing self adjusting (standard)	-	Carbon material	-	Stainless steel 1.4571, coated	-	100% (Stand.)	-	linear
		1	additional bellows 1.4571	9	STN2-disc	1	STN2-disc	A	red. to 63%	1	equal
				S	SFC-disc			1	red. to 40%		percentage
								2	red. to 25%		
								3	red. to 16%		
								4	red. to 10%		
								5	red. to 6,3%		
								6	red. to 2,5%		
								7	red. to 1%		
								8	red. to 20%		
								9	red. to 12%		
									red. to 2%		
									red. to 0,4%		

Ordering Example: 8050/125VB00-5M-1:
 sliding gate valve (long design), DN 125, PN 10/40, carbon steel, actuator manual operating, additional stainless steel bellows 1.4571

Dimensions and Weights



DN	A	C max	D	L	Weight (kg)	Stroke
15	53	332	125	33	3,5	6
20	62	337	125	33	3,6	6
25	72	342	125	33	3,7	6
32	82	344	125	33	3,8	6
40	92	347	125	33	3,9	6
50	108	362	125	43	5	8
65	127	372	125	46	5,5	8
80	142	377	125	46	6,2	8
100	164	392	125	52	7,4	8,5
125	194	407	200	56	9,4	8,5
150	219	422	200	56	11,2	8,5

Dimensions in mm