Sliding Gate Valve 8043

GS3 series - DN 15 up to DN 250

Pneumatic sliding gate valve with integrated positioner for control of liquid and gaseous media for industrial applications

- Integrated positioner
- Lowest possible weight
- Fast response
- High Kvs- (Cv) - values
- Tight shut - off
- Meets the requirements of TA-Luft 2021

Technical Information

Body design	flangeless, wafer-type construction - for flanges acc. DIN EN 1092-1 Form B or ASME B16.5 RF - with threaded connection (only PN40 in stainless steel; DN15 - DN50) further versions see data-sheet 8043/44-GS1		
Nominal sizes	DN 15 - 250, 1/2“ - 10“		
Nominal pressure acc. EN 1333	PN 40 (fits also to PN 10-25) PN 16 and PN25	 DN 15 - DN 150 DN 200 - DN 250	
Nominal pressure acc. ASME B16.34	ANSI 150 ANSI 300	DN 15 - DN 250 DN 15 - DN 150	
nominal pressure acc. JIS for raised face flanges	10K 20K	DN 15 - DN 50 DN 15 - DN 40	
Fluid temperature	Versions from -60°C up to +350°C		
Ambient temperature*	digital positioner -10°C up to +75°C analog positioner -15°C up to +60°C		
Flange gaskets (customer side)	DIN EN 1514-1 or ANSI B16.21 in the respective nominal pressure rating		
Rangeability / Characteristic analog positioner digital positioner	25 : 1 30 : 1 linear / 60 : 1 equal percentage		
Leakage % of Kvs IEC 60534-4 EN 12266-1	Disc pair Carbon-stainless steel < 0,0001 IV-S1 E	Disc pair SFC < 0,0005 IV-S1 F	Disc pair STN 2 < 0,001 IV F
Marking ATEX non electric Spezific leakage rate shaft and body sealing	II 2G Ex h IIC T6…T1 X Gb II 2D Ex h IIIC 85°C…350°C X Db ISO FE-BH-CC3-SSA0-t(-40°C/+350°C)-PN40-ISO 15848-1		
Applications acc. PED 2014/68/EU	stainless steel or carbon steel body stainless steel body with threaded connection		up to category II up to category I

* Please consider the limitation of use of the positioner!

Fluid temperature

Rating	PN16	PN 40	PN 100	ANSI 150	ANSI 300	ANSI 600
Body material cpl. stainless steel						
Tmin [°C]	-60	-60	-60	-29	-29	-29
Tmax [°C]	350	350	350	350	350	350
Body material carbon steel with stainless steel body cover						
Tmin [°C]	-60	-60	-10	-20	-20	-20
Tmax [°C]	350	350	350	350	350	350

Positioner

The technical information of the positioners can be found in the corresponding data sheets.

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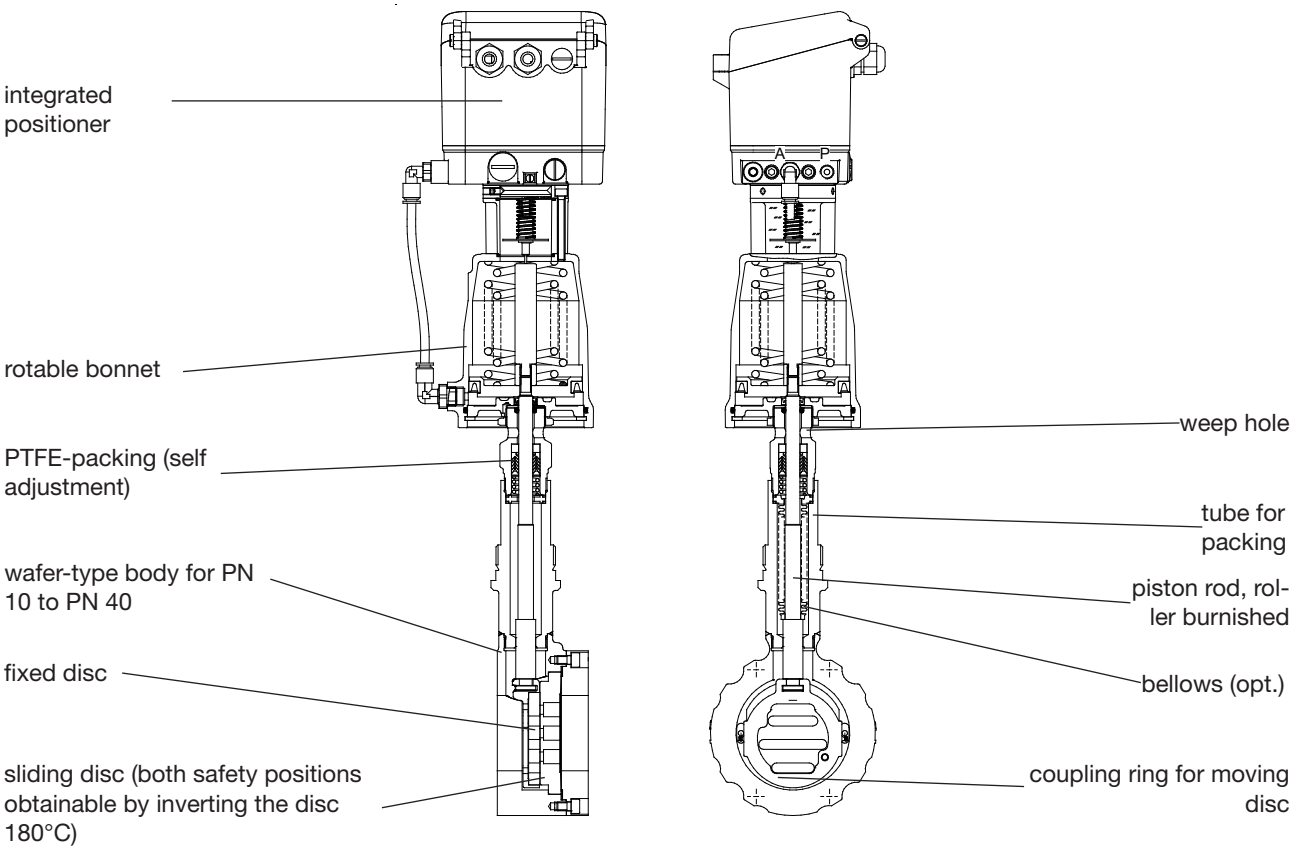
Materials

Body	stainless steel 1.4408	carbon steel 1.0619	
Bodycover	stainless steel 1.4404 or 316L		
Bonnet	brass plated (actuator ø 50 mm, ø 80 mm) aluminium corrosion proofed (actuator ø 125 mm)		
Springs	stainless steel 1.4301 (actuator ø 50 mm, ø 80 mm) spring steel wire C, coated (actuator ø 125 mm)		
Packing	PTFE carbon filled (spring 1.4310)		
Actuating stem	stainless steel, roller burnished		
Bellow	stainless steel 1.4571		
Fixed plate	Stainless steel 1.4571, plated		STN2-disc
Sliding disc	standard: special carbon material	SFC-disc (max. +300°C)	STN2-disc
Coupling ring for discs	stainless steel 1.4581		
Optical position indicator	PA Trogamid (transparent)		

Limitations

Additionally to the limitations of the pressure rating valves with threaded connections are limited to applications of the category I of the PED 2014/68/EU.



Admissible differential pressures
(For temperatures of up to 120°C with PN-rating up to 38°C with ANSI-rating)

For temperatures of 120°C (PN) or 38°C (ANSI) and above: obey application limits !

digital positioner, Type 8049
(also on-off valves and valves with other side-mounted positioner)

disc-pair: carbon - stainless steel coated
SFC - stainless steel coated

DN	actuator	max. differential pressure control, on/off (bar)	min. pilot pressure (bar)
15	80	51,1	3,0 - 6
20	80	51,1	3,0 - 6
25	80	50,9	3,5 - 6
32	80	40,9	3,5 - 6
40	80	30,4	4,0 - 6
50	80	19,5	4,5 - 6
65	80	16,3	4,5 - 6
80	80	10,2	5,0 - 6
100	80	6,5	5,0 - 6
125	80	4,4	5,0 - 6
150	80	3,3	5,0 - 6
15	125	51,1	2,5 - 6
20	125	51,1	2,5 - 6
25	125	51,1	2,5 - 6
32	125	51,1	3,0 - 6
40	125	51,1	3,0 - 6
50	125	44,9	3,5 - 6
65	125	37,6	3,5 - 6
80	125	23,6	4,0 - 6
100	125	15	4,0 - 6
125	125	10,1	4,0 - 6
150	125	7,5	4,0 - 6
200	125	4,4	4,0 - 6
250	125	2,7	4,0 - 6

disc pair: STN2

DN	actuator	max. differential pressure control, on/off (bar)	min. pilot pressure (bar)
15	80	49,6	3,5 - 6
20	80	37,3	4,0 - 6
25	80	27,4	4,0 - 6
32	80	20,1	4,5 - 6
40	80	13,6	4,5 - 6
50	80	8	5,0 - 6
65	80	6,6	5,0 - 6
80	80	4	5,0 - 6
100	80	2,4	5,0 - 6
125	80	-	-
150	80	-	-
15	125	51,1	2,5 - 6
20	125	51,1	3,0 - 6
25	125	51,1	3,0 - 6
32	125	46,2	3,5 - 6
40	125	31,3	3,5 - 6
50	125	18,5	4,0 - 6
65	125	15,1	4,0 - 6
80	125	9,1	4,0 - 6
100	125	5,6	4,0 - 6
125	125	3,8	4,0 - 6
150	125	2,8	4,0 - 6
200	125	1,5	4,0 - 6
250	125	0,9	4,1 - 6

	Upper limits for admissible pressures in bar			
	PN16	PN40	ANSI150	ANSI 300
P max. carbon steel	16	40	19,6	51,1
P max. stainless steel			19,0	49,6

p/p- and i/p-positioner, Type 8047

disc-pair: carbon - stainless steel coated
SFC - stainless steel coated

DN	actuator	max. differential pressure (bar)	min. pilot pressure (bar)
15	80	51,1	3,0 - 6
20	80	39,8	3,0 - 6
25	80	29,5	3,5 - 6
32	80	21,8	4,0 - 6
40	80	14,9	4,0 - 6
50	80	8,8	4,5 - 6
65	80	7,2	4,5 - 6
80	80	4,4	4,5 - 6
100	80	2,7	4,5 - 6
15	125	51,1	3,0 - 6
20	125	51,1	3,0 - 6
25	125	51,1	3,0 - 6
32	125	50,2	3,0 - 6
40	125	34,3	3,0 - 6
50	125	20,4	3,5 - 6
65	125	16,7	3,5 - 6
80	125	10,1	3,5 - 6
100	125	6,2	3,5 - 6
125	125	4,2	3,5 - 6
150	125	3,1	3,5 - 6

disc pair: STN2

DN	actuator	max. differential pressure (bar)	min. pilot pressure (bar)
15	80	28,4	3,5 - 6
20	80	19,3	4,0 - 6
25	80	13,1	4,0 - 6
32	80	9,1	4,0 - 6
40	80	5,9	4,0 - 6
50	80	3,4	4,5 - 6
65	80	2,7	4,5 - 6
80	80	-	-
100	80	-	-
15	125	51,1	3,0 - 6
20	125	44,4	3,0 - 6
25	125	30,2	3,0 - 6
32	125	21	3,0 - 6
40	125	13,7	3,0 - 6
50	125	7,8	3,5 - 6
65	125	6,3	3,5 - 6
80	125	3,7	3,5 - 6
100	125	2,3	3,5 - 6
125	125	1,5	3,5 - 6
150	125	1,1	3,5 - 6

	Upper limits for admissible pressures in bar			
	PN16	PN40	ANSI150	ANSI 300
P max. carbon steel	16	40	19,6	51,1
P max. stainless steel			19,0	49,6

Admissible differential pressures (For temperatures of up to 120°C with PN-rating up to 38°C with ANSI-rating)

For temperatures of 120°C (PN) or 38°C (ANSI) and above: obey application limits !

Actuator D80 double acting without safety position digital positioner, type 8049-4 wire

Nominal size	Max. differential pressure at actual pilot pressure [bar]															
	Disc pair: carbon/SFC-stainless steel coated								Disc pair: STN							
	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0
15	51,1	51,1	51,1	51,1	51,1	51,1	51,1	51,1	51,1	51,1	51,1	51,1	51,1	51,1	51,1	51,1
20	51,1	51,1	51,1	51,1	51,1	51,1	51,1	51,1	46,3	51,1	51,1	51,1	51,1	51,1	51,1	51,1
25	51,1	51,1	51,1	51,1	51,1	51,1	51,1	51,1	34,0	41,8	49,6	51,1	51,1	51,1	51,1	51,1
32	50,8	51,1	51,1	51,1	51,1	51,1	51,1	51,1	24,9	30,7	36,4	42,2	47,9	51,1	51,1	51,1
40	37,7	46,4	51,1	51,1	51,1	51,1	51,1	51,1	16,9	20,8	24,7	28,6	32,5	36,4	40,3	44,2
50	24,2	29,8	35,4	41,0	46,6	51,1	51,1	51,1	10,0	12,3	14,6	16,9	19,2	21,5	23,8	26,1
65	20,2	24,9	29,6	34,3	39,0	43,6	48,3	51,1	8,1	10,0	11,9	13,8	15,7	17,6	19,4	21,3
80	12,7	15,7	18,6	21,5	24,5	27,4	30,4	33,3	4,9	6,0	7,2	8,3	9,4	10,6	11,7	12,8
100	8,1	9,9	11,8	13,7	15,5	17,4	19,3	21,1	3,0	3,7	4,4	5,1	5,8	6,5	7,2	7,9
125	5,5	6,7	8,0	9,2	10,5	11,8	13,0	14,3	2,0	2,5	3,0	3,4	3,9	4,4	4,8	5,3
150	4,1	5,0	5,9	6,9	7,8	8,7	9,7	10,6	1,5	1,8	2,2	2,5	2,9	3,2	3,6	3,9
200	2,3	2,9	3,4	4,0	4,5	5,1	5,6	6,1	0,8	1,0	1,2	1,4	1,6	1,8	2,0	2,2
250	1,4	1,8	2,1	2,4	2,8	3,1	3,4	3,8	0,5	0,6	0,7	0,8	1,0	1,1	1,2	1,3

	Upper limits for admissible pressures in bar			
	PN16	PN40	ANSI150	ANSI 300
P max. carbon steel	16	40	19,6	51,1
P max. stainless steel			19,0	49,6

Actuator D125 double acting without safety position digital positioner, type 8049-4 wire

Nominal size	Max. differential pressure at actual pilot pressure [bar]															
	Disc pair: carbon/SFC-stainless steel coated								Disc pair: STN							
	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0
15	51,1	51,1	51,1	51,1	51,1	51,1	51,1	51,1	51,1	51,1	51,1	51,1	51,1	51,1	51,1	51,1
20	51,1	51,1	51,1	51,1	51,1	51,1	51,1	51,1	51,1	51,1	51,1	51,1	51,1	51,1	51,1	51,1
25	51,1	51,1	51,1	51,1	51,1	51,1	51,1	51,1	51,1	51,1	51,1	51,1	51,1	51,1	51,1	51,1
32	51,1	51,1	51,1	51,1	51,1	51,1	51,1	51,1	51,1	51,1	51,1	51,1	51,1	51,1	51,1	51,1
40	51,1	51,1	51,1	51,1	51,1	51,1	51,1	51,1	44,6	51,1	51,1	51,1	51,1	51,1	51,1	51,1
50	51,1	51,1	51,1	51,1	51,1	51,1	51,1	51,1	26,3	32,0	37,7	43,4	49,0	51,1	51,1	51,1
65	51,1	51,1	51,1	51,1	51,1	51,1	51,1	51,1	21,5	26,2	30,8	35,4	40,1	44,7	49,4	51,1
80	33,6	40,8	48,0	48,0	48,0	48,0	48,0	48,0	12,9	15,7	18,5	21,3	24,1	26,9	29,7	32,5
100	21,3	25,9	30,5	33,0	33,0	33,0	33,0	33,0	8,0	9,7	11,5	13,2	14,9	16,6	18,4	20,1
125	14,4	17,5	20,6	23,0	23,0	23,0	23,0	23,0	5,3	6,5	7,6	8,8	9,9	11,1	12,2	13,4
150	10,7	13,0	15,3	16,0	16,0	16,0	16,0	16,0	3,9	4,8	5,6	6,5	7,3	8,2	9,0	9,9
200	6,2	7,5	8,9	10,2	11,5	12,9	14,2	15,5	2,2	2,7	3,2	3,7	4,2	4,7	5,2	5,6
250	3,8	4,6	5,5	6,3	7,1	7,9	8,7	9,6	1,3	1,6	1,9	2,2	2,5	2,8	3,1	3,4

	Upper limits for admissible pressures in bar			
	PN16	PN40	ANSI150	ANSI 300
P max. carbon steel	16	40	19,6	51,1
P max. stainless steel			19,0	49,6

Sliding Gate Valve 8043-GS3

Ordering Number System

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
8	0	4	3	/				V	F				M							Z			S

Type: 8043

Size: /

Symbol: "V": Valve

"R": Repair kit (sealings)

1 - 5 : Please quote all 5 sections

6 - 12: Quote only if required

1. Function		2. Body design		3. Body material		4. Pilot function		5. Actuator		6. Special versions		7. Springs		8. Stem sealing	
F	sliding gate valve with piston actu. long design (Type 8043)	E	GS3 - flangeless design acc. ANSI 150	0	C-steel 1.0619	0	spring to close	1	piston 80 mm	M	to state if some sections 7-16 are quoted!	-	standard	-	PTFE-V-shaped sealing rings, self-adjusting
		F	GS3 - flangeless design acc. ANSI 300	1	stainless steel 1.4408	1	spring to open	2	piston 125 mm	A	groove and groove acc. DIN EN1092-1	D	double acting, without springs	1	additional bellow 1.4571
		G	GS3 - flangeless design acc. DIN, PN10-PN40			-	without			C	groove and tongue acc. DIN EN1092-1				
		R	GS3 version with inner thread acc. ISO 228-1 (G-thread), pressure rating PN40							E	2x lowered face acc. DIN EN1092-1				
		U	GS3 version with inner NPT thread acc. ANSI B 1.20.1, pressure rating PN40							H	lowered and raised face acc. DIN EN1092-1				

9. Sliding disc		10. Fixed disc		11. Kvs-values		12. Characteristic		13. Accessories		14. Positioner		15. Special versions		16. Further special versions	
-	carbon material	-	stainless steel 1.4581, hard chrome-plated	-	100 %(Stand.)	-	linear	Z	to state, if in sections 14 and 15 accessories are quoted	2	p/p-positioner Type 8047 + pos.indicator	1	air-tube-connection actuator-positioner in plastic (PA)	S	please quote further special versions in clear text
9	STN2	1	STN2 (only in combination with the position „9“ STN2-disc)	A	red. to 63 %	1	equal percentage			3	i/p positioner Type 8047+ pos.indicator				
S	SFC			1	red. to 40 %					5	i/p positioner Type 8047 + pos.indicator Eex ib II CT6, plug conn. M12x1				
				B	red. to 25 %					8	i/p positioner Type 8047 + plug conn. M12x1, pos.indicator				
				2	red. to 16 %					C	dig positioner, Type 8049, 4-wire				
				C	red. to 10 %					R	dig. positioner, Type 8049, 2-wire				
				3	red. to 6,3 %					W	dig. positioner, Type 8049 ExPro, ATEX, IECEX				
				4	red. to 2,5 %					K	dig. positioner, Type 8049 ExPro-FM base plate in stainless steel; IS Cl. I Div. 1, Cl. I Zone 0 AEx ia				
				5	red. to 1 %					Y	dig. positioner, Type 8049 ExPro-FM, base plate in stainless stell; NI Cl. I Div. 2				
				6	red. to 20 %					N	dig. positioner, Type 8049 IO-Link version				
				7	red. to 12 %										
				8	red. to 2 %										
				9	red. to 0,4 %										

Ordering example: 8043/050VFG0101M - - - - - 1Z3
sliding gate valve type 8043, long design, DN 50, PN 10/40, stainless steel 1.4581, spring closes, actuator 80 mm, PTFE-V-shaped sealing rings, carbon material, stainless steel, seat characteristic equal percentage, i/p positioner

Application limitations for GS3 valves in stainless steel

These pressure must not be exceeded for GS-valves from the GS3-series made of stainless steel, even though the actuator power might allow it.

PN40

DN	Sliding unit: carbon/SFC - stainless steel, coated max. admissible pressures for GS3-valves in stainless steel						Sliding unit: STN2 max. admissible pressures for GS3-valves in stainless steel					
	100°C	150°C	200°C	250°C	300°C	350°C	100°C	150°C	200°C	250°C	300°C	350°C
15-32	40	40	40	40	40	40	40	40	40	40	40	40
40	40	40	40	40	40	40	40	40	40	40	40	37
50	40	40	40	40	40	40	40	40	40	40	40	40
65	40	40	40	40	40	40	40	40	40	40	37	32
80	40	40	40	40	40	40	36	34	33	26	22	19
100	33	33	33	33	33	33	32	31	30	24	20	17
125	23	23	23	23	23	23	21	21	19	16	13	11
150	16	16	16	16	16	16	15	15	14	11	9	8
200 (max. PN25)	16	16	15	13	12	11	8	7	6	5	4	3
250 (max. PN25)	10	9	9	8	7	6	5,7	5,4	5,1	4,1	3,4	2,9

Limitation for SFC-sliding discs: 300°C

PN100

DN	Sliding unit: carbon/SFC - stainless steel, coated max. admissible pressures for GS3-valves in stainless steel						Sliding unit: STN2 max. admissible pressures for GS3-valves in stainless steel					
	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	100	100	100	93	84	79	100	100	100	93	84	79
20	100	100	89	81	73	68	100	100	89	81	73	68
25	88	81	70	63	57	54	88	81	70	63	57	54
32	100	93	80	73	65	62	100	93	80	73	65	60
40	88	81	70	63	57	54	72	69	65	53	43	37
50	100	100	100	100	100	94	77	73	70	56	46	40
65	80	80	80	79	71	67	62	59	56	45	37	32
80	48	48	48	48	48	44	36	34	33	26	22	19

Limitation for SFC-sliding discs: 300°C

ANSI150

DN	Sliding unit: carbon/SFC - stainless steel, coated max. admissible pressures for GS3-valves in stainless steel								Sliding unit: STN2 max. admissible pressures for GS3-valves in stainless steel							
	38°C	50°C	100°C	150°C	200°C	250°C	300°C	350°C	38°C	50°C	100°C	150°C	200°C	250°C	300°C	350°C
15-125	19,0	18,4	16,2	14,8	13,7	12,1	10,2	8,4	19,0	18,4	16,2	14,8	13,7	12,1	10,2	8,4
150	16,0	16,0	16,0	14,8	13,7	12,1	10,2	8,4	16,2	16,2	16,2	14,8	13,7	11,8	9,7	8,4
200	16,0	16,0	16,0	14,8	13,7	12,1	10,2	8,4	10,5	10,0	8,3	7,6	6,9	5,5	4,5	3,9
250	10,4	10,4	10,4	9,9	9,4	8,4	7,4	6,8	5,7	5,7	5,7	5,4	5,1	4,1	3,4	2,6

Limitation for SFC-sliding discs: 300°C

ANSI300

DN	Sliding unit: carbon/SFC - stainless steel, coated max. admissible pressures for GS3-valves in stainless steel								Sliding unit: STN2 max. admissible pressures for GS3-valves in stainless steel							
	38°C	50°C	100°C	150°C	200°C	250°C	300°C	350°C	38°C	50°C	100°C	150°C	200°C	250°C	300°C	350°C
15-65	49,6	48,1	42,2	38,5	35,7	33,4	31,6	30,3	49,6	48,1	42,2	38,5	35,7	33,4	31,6	30,3
80	48,0	48,0	42,2	38,5	35,7	33,4	31,6	30,3	36,6	36,6	36,6	34,8	33,0	26,8	22,0	19,0
100	33,0	33,0	33,0	33,0	33,0	33,0	31,6	30,3	33,0	33,0	33,0	31,7	30,1	24,4	20,1	17,3
125	23,0	23,0	23,0	23,0	23,0	23,0	23,0	23,0	22,0	22,0	22,0	21,0	19,9	16,1	13,2	11,5
150	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	15,4	14,6	11,8	9,7	8,4
200	16,0	16,0	16,0	14,8	13,7	12,1	10,2	8,4	10,5	10,0	8,3	7,6	6,9	5,5	4,5	3,9

Limitation for SFC-sliding discs: 300°C

Application limitations for GS3 valves in carbon steel

These pressure must not be exceeded for GS-valves from the GS3-series made of carbon steel, even though the actuator power might allow it.

PN40

DN	Sliding unit: carbon/SFC - stainless steel, coated max. admissible pressures for GS3-valves in carbon steel					
	100°C	150°C	200°C	250°C	300°C	350°C
15-50	40	40	40	40	40	40
65	40	40	40	40	40	40
80	40	40	40	40	40	40
100	33	33	33	33	33	33
125	23	23	23	23	23	23
150	16	16	16	16	16	16
200 (max PN 25)	16	16	15	13	12	11
250 (max PN 25)	10	9	9	8	7	6

Sliding unit: STN2 max. admissible pressures for GS3-valves in carbon steel					
100°C	150°C	200°C	250°C	300°C	350°C
40	40	40	40	40	40
40	40	40	40	37	32
36	34	33	26	22	19
33	31	30	24	20	17
22	21	19	16	13	11
16	15	14	11	9	8
8	7	6	5	4	3
5,7	5,4	5,1	4,1	3,4	2,9

Limitation for SFC-sliding discs: 300°C

PN100

DN	Sliding unit: carbon/SFC - stainless steel, coated max. admissible pressures for GS3-valves in carbon steel					
	100°C	150°C	200°C	250°C	300°C	350°C
15 - 20	100	100	100	100	100	100
25	100	100	100	100	94	87
32	100	100	100	100	100	99
40	100	100	100	100	94	87
50	100	100	100	100	100	94
65	80	80	80	80	80	76
80	48	48	48	48	48	44

Sliding unit: STN2 max. admissible pressures for GS3-valves in carbon steel					
100°C	150°C	200°C	250°C	300°C	350°C
100	100	100	100	100	100
100	100	100	100	94	87
100	100	100	84	69	60
72	69	65	53	43	37
77	73	70	56	46	40
62	59	56	45	37	32
36	34	33	26	22	19

Limitation for SFC-sliding discs: 300°C

ANSI150

DN	Sliding unit: carbon/SFC - stainless steel, coated max. admissible pressures for GS3-valves in carbon steel							
	38°C	50°C	100°C	150°C	200°C	250°C	300°C	350°C
15-125	19,6	19,2	17,7	15,8	13,8	12,1	10,2	8,4
150	16,0	16,0	16,0	15,8	13,8	12,1	10,2	8,4
200	16,0	16,0	16,0	15,8	13,8	12,1	10,2	8,4
250	10,5	10,5	10,5	9,9	9,4	8,4	7,4	6,0

Sliding unit: STN2 max. admissible pressures for GS3-valves in carbon steel							
38°C	50°C	100°C	150°C	200°C	250°C	300°C	350°C
19,6	19,2	17,7	15,8	13,8	12,1	10,2	8,4
16,2	16,2	16,2	15,4	13,8	11,8	9,7	8,0
10,5	10,0	8,3	7,6	6,9	5,5	4,5	3,9
5,7	5,7	5,7	5,4	5,1	4,1	3,4	2,6

Limitation for SFC-sliding discs: 300°C

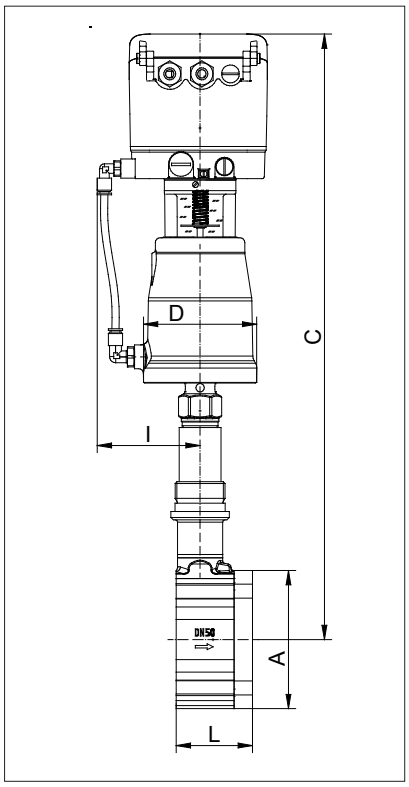
ANSI300

DN	Sliding unit: carbon/SFC - stainless steel, coated max. admissible pressures for GS3-valves in carbon steel							
	38°C	50°C	100°C	150°C	200°C	250°C	300°C	350°C
15-50	51,1	50,1	46,6	45,1	43,8	41,9	39,8	37,6
65	51,1	50,1	46,6	45,1	43,8	41,9	39,8	37,6
80	48,0	48,0	46,6	45,1	43,8	41,9	39,8	37,6
100	33,0	33,0	33,0	33,0	33,0	33,0	33,0	33,0
125	23,0	23,0	23,0	23,0	23,0	23,0	23,0	23,0
150	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0
200	16,0	16,0	16,0	14,8	13,7	12,1	10,2	8,4

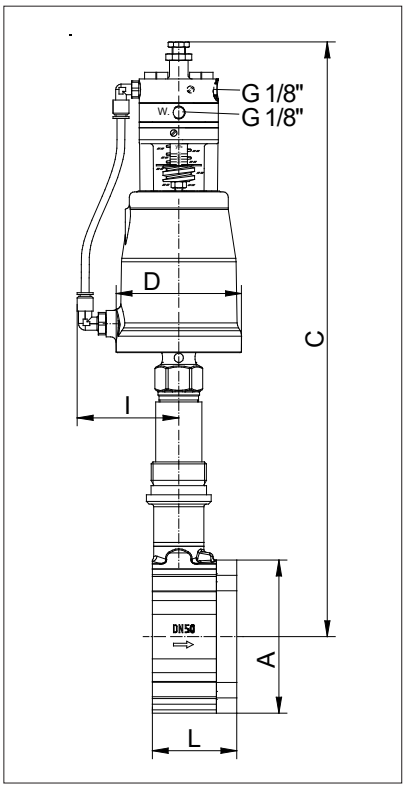
Sliding unit: STN2 max. admissible pressures for GS3-valves in carbon steel							
38°C	50°C	100°C	150°C	200°C	250°C	300°C	350°C
51,1	50,1	46,6	45,1	43,8	41,9	39,8	37,6
41,7	41,7	41,7	39,7	37,6	33,5	37,6	33,0
36,6	36,6	36,6	34,8	33,0	26,8	22,0	19,0
33,0	33,0	33,0	31,7	30,1	24,4	20,0	17,5
22,1	22,1	22,1	21,0	19,9	16,1	13,2	11,5
16,0	16,0	16,0	15,4	14,6	11,8	9,7	8,4
10,5	10,0	8,3	7,6	6,9	5,5	4,5	3,9

Limitation for SFC-sliding discs: 300°C

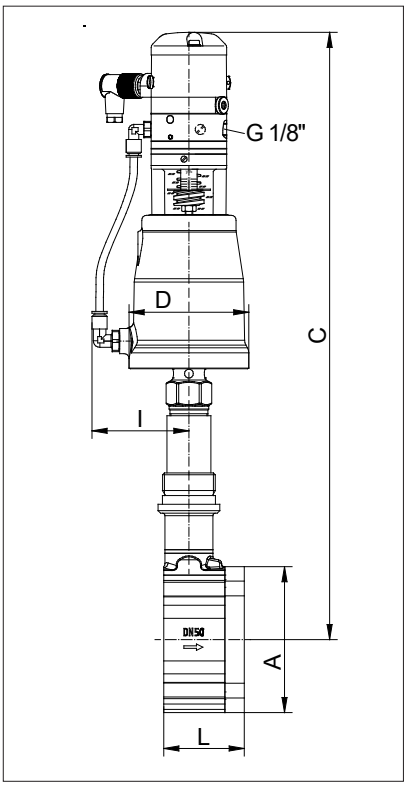
Dimensions and Weights wafer-type construction



Type 8043 with digital positioner
Type 8049
with position indicator



Type 8043 with p/p-positioner
Type 8047
with position indicator



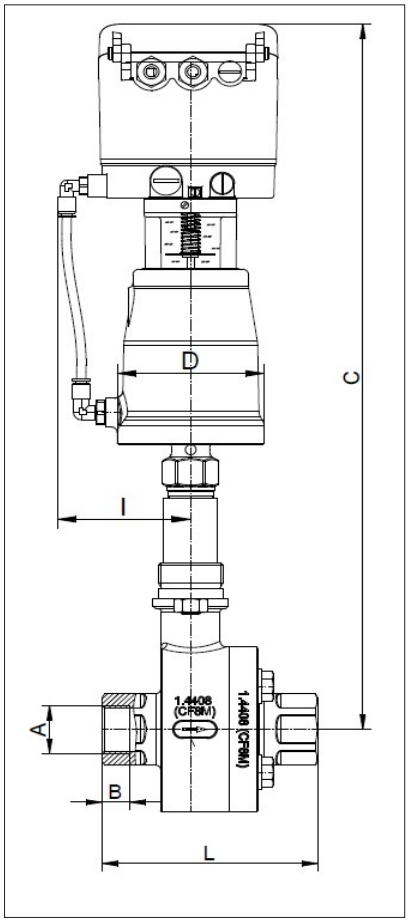
Type 8043 with i/p- positioner
Type 8047
with position indicator

DN	Actuator Ø	A	L	D	I	C			Stroke H	Weight (kg)
						p/p positioner	i/p positioner	digital positi-oner		
15	80	64	56	96	80	426	458	484	6	6,2
15	125	64	56	146	105	446	478	504	6	8
20	80	72	56	96	80	430	462	488	6	6,5
20	125	72	56	146	105	450	482	508	6	8,3
25	80	82	56	96	80	435	467	493	6	6,7
25	125	82	56	146	105	455	487	513	6	8,5
32	80	89	56	96	80	437	469	495	6	6,8
32	125	89	56	146	105	457	489	515	6	8,6
40	80	99	56	96	80	443	475	501	6	7,2
40	125	99	56	146	105	463	495	521	6	9
50	80	116	64	96	80	451	483	509	8	8,7
50	125	116	64	146	105	471	503	529	8	10,5
65	80	138	68	96	80	460	492	518	8	10,2
65	125	138	68	146	105	480	412	538	8	12
80	80	153	70	96	80	469	501	527	8	11,4
80	125	153	70	146	105	489	521	547	8	13,2
100	80	184	75	96	80	482	514	540	8,5	14,7
100	125	184	75	146	105	502	534	560	8,5	16,4
125	80	212	80	96	80	497	529	555	8,5	18,9
125	125	212	80	146	105	517	549	575	8,5	20,6
150	80	242	80	96	80	512	544	570	8,5	22,6
150	125	242	80	146	105	532	564	590	8,5	24,3
200	80	302	93	96	80	-	-	600	8,5	39,5
200	125	302	93	146	105	-	-	620	8,5	41,2
250	80	360	96	96	80	-	-	625	8,5	44,7
250	125	360	96	146	105	-	-	645	8,5	46,4

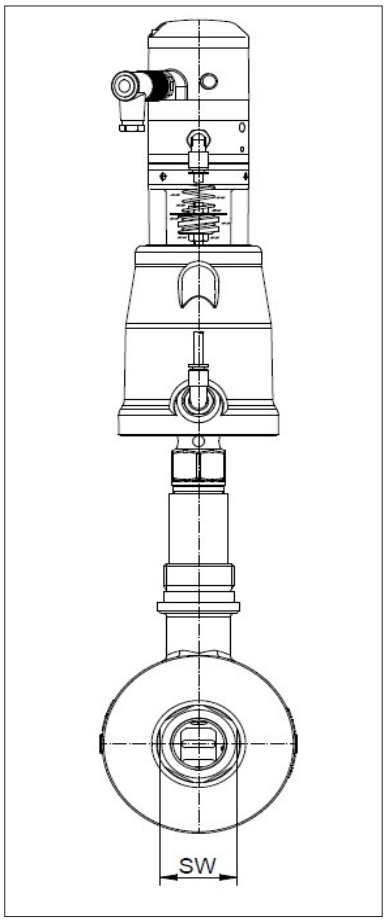
Dimension C „reduced design“ shortened by 25,4 mm

Dimensions in mm

Dimensions and Weights with threaded connections



Type 8043 with digital positioner
Type 8049
with position indicator



Type 8043 with i/p- positioner
Type 8047
with position indicator

DN	A (G/NPT)	B		D actuator		I actuator		C						L	SW	Stroke H	Weight (kg)	
								p/p positioner actuator		i/p positioner actuator		digital positioner actuator						
		G	NPT	D 80	D 125	D 80	D 125	D 80	D 125	D 80	D 125	D 80	D 125				D 80	D 125
15	1/2“	15	13,6	96	146	80	105	426	446	458	478	484	504	127	30	6	8,5	10,3
20	3/4“	15	14,1	96	146	80	105	430	450	462	482	488	508	127	38	6	9,5	11,3
25	1“	18	16,8	96	146	80	105	435	455	467	487	493	513	140	46	6	11,9	13,7
32	1 1/4“	18	17,3	96	146	80	105	437	457	469	489	495	515	140	56	6	12,6	14,4
40	1 1/2“	18	17,3	96	146	80	105	443	463	475	495	501	521	152	64	6	13,9	15,7
50	2“	18	17,7	96	146	80	105	451	471	483	503	509	529	152	74	8	16,5	18,3

Dimension C „reduced design“ shortened by 25,4 mm

Dimensions in mm