Sliding Gate Valve 8043

GS 3 series - 1/2“ up to 10“

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 Cv-values
- Tight shut-off
- Lower cost piston actuator
- Meets the requirements of TA-Luft 2021

Technical Information

Body design	ANSI flange wafer (self-aligning) - for flanges acc. ASME B16.5 RF or DIN EN 1092-1 Form B - with threaded connection (only 580 psi in stainless steel; 1/2“ up to 2“)		
Nominal sizes	1/2“ up to 10“		
Nominal pressure acc. EN 1333	580 psi (fits also to 145 up to 365 psi) 235 psi and 363psi	 1/2“ - 6“ 8“ - 10“	
Nominal pressure acc. ASME B16.34	ANSI 150 ANSI 300	1/2“ - 10“ 1/2“ - 6“	
Nominal pressure acc. JIS for raised face flanges	10K 20K	1/2“ - 2“ 1/2“ - 1 1/2“	
Fluid Temperature	-76°F up to +662°F		
Ambient temperature*	digital positioner +14°F up to +167°F analog positioner +5°F up to +140°F		
Flange gaskets (customer side)	ANSI B16.21 or DIN EN 1514-1 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	II 2G Ex h IIC T6…T1 X Gb II 2D Ex h IIIC 85°C…350°C X Db		
Spezific leakage rate shaft and body sealing	ISO FE-BH-CC3-SSA0-t(-40°C/+350°C)-PN40-ISO 15848-1		

* 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 [°F]	-76	-76	-76	-20	-20	-20
Tmax [°F]	662	662	662	662	662	662
Body material carbon steel with stainless steel body cover						
Tmin [°F]	-76	-76	14	-4	-4	-4
Tmax [°F]	662	662	662	662	662	662

Schubert & Salzer Inc., 4601 Corporate Drive N.W., Suite 100 Concord, NC 28027, Ph.: (704) 789 0169, Fax: (704) 792 9783
info@schubertsalzerinc.com, www.schubertsalzerinc.com

Sliding Gate Valve 8043-GS3

Positioner

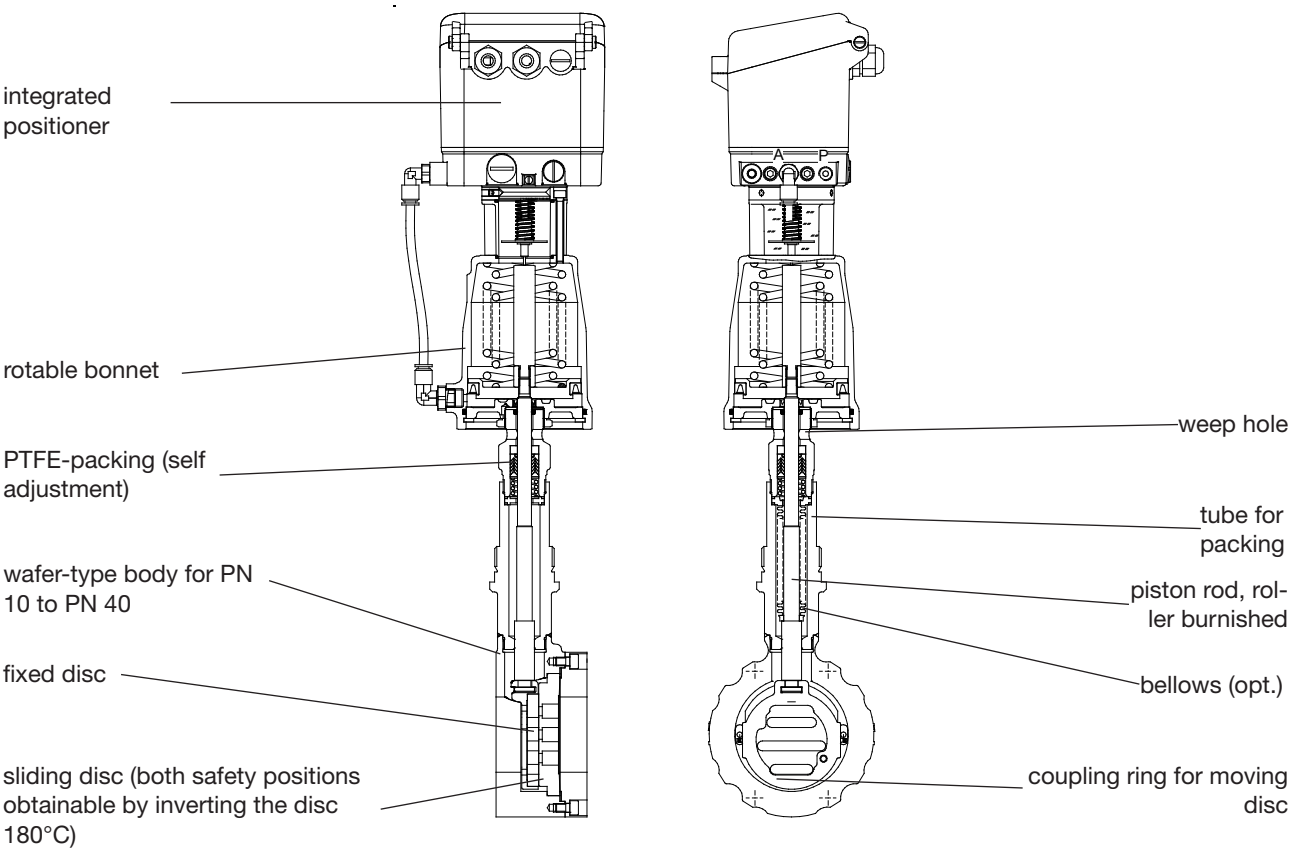
The technical information of the positioners can be found in the corresponding data sheets.

Materials

Body	stainless steel CF8M	carbon steel ASTM A216 WCB	
Bodycover	stainless steel 316 Ti		
Bonnet	brass plated (actuator ø 2“, ø 3“)		
	aluminium corrosion proof (actuator ø 5“)		
Springs	stainless steel 304 (actuator ø 2“, ø 3“)		
	spring steel wire C, coated (actuator ø 5“)		
Packing	PTFE (carbon filled), spring SST 301		
Actuating stem	stainless steel, roller burnished		
Bellow	stainless steel 316 Ti		
Fixed plate	stainless steel 316 Ti, stellite		STN2-disc
Sliding disc	standard: special carbon material	SFC-disc (max. +572°F)	STN2-disc
Coupling ring for discs	stainless steel 318		
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.



Sliding Gate Valve 8043-GS3

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Admissible Pressures

(For temperatures of up to 100°F for ANSI-classes and up to 250°F for PN-classes)

For temperatures exeeding 100°F (ANSI) or 250°F (PN): consider operation limits

digital positioner, Type 8049

(also on-off valves and valves with other side-mounted positioner)

carbon - stainless steel coated

SFC - stainless steel coated

Size	actuator	max. differential pressure control, on/off (psi)	min. pilot pressure (psi)
1/2“	3“	740	50 - 85
3/4“	3“	740	50 - 85
1“	3“	740	50 - 85
1 1/4“	3“	595	60 - 85
1 1/2“	3“	440	60 - 85
2“	3“	285	65 - 85
2 1/2“	3“	235	65 - 85
3“	3“	150	75 - 85
4“	3“	95	75 - 85
5“	3“	65	75 - 85
6“	3“	50	75 - 85
1/2“	5“	740	45 - 85
3/4“	5“	740	45 - 85
1“	5“	740	45 - 85
1 1/4“	5“	740	45 - 85
1 1/2“	5“	740	45 - 85
2“	5“	650	50 - 85
2 1/2“	5“	545	50 - 85
3“	5“	340	60 - 85
4“	5“	220	60 - 85
5“	5“	145	60 - 85
6“	5“	110	60 - 85
8“	5“	65	60 - 85
10“	5“	40	60 - 85

STN2

Size	actuator	max. differential pressure control, on/off (psi)	min. pilot pressure (psi)
1/2“	3“	720	50 - 85
3/4“	3“	540	60 - 85
1“	3“	395	60 - 85
1 1/4“	3“	290	65 - 85
1 1/2“	3“	195	65 - 85
2“	3“	115	75 - 85
2 1/2“	3“	95	75 - 85
3“	3“	60	75 - 85
4“	3“	35	75 - 85
5“	3“	-	-
6“	3“	-	-
1/2“	5“	740	45 - 85
3/4“	5“	740	45 - 85
1“	5“	740	45 - 85
1 1/4“	5“	670	50 - 85
1 1/2“	5“	455	50 - 85
2“	5“	270	60 - 85
2 1/2“	5“	220	60 - 85
3“	5“	130	60 - 85
4“	5“	80	60 - 85
5“	5“	55	60 - 85
6“	5“	40	60 - 85
8“	5“	20	60 - 85
10“	5“	-	-

	Pressure limits ANSI and DIN in psi			
	ANSI150	ANSI 300	PN16	PN40
P max. carbon steel	284	741	232	580
P max. stainless steel	276	719		

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

carbon - stainless steel coated

SFC - stainless steel coated

Size	actuator	max. differential pressure (psi)	min. pilot pressure (psi)
1/2“	3“	740	45 - 85
3/4“	3“	575	50 - 85
1“	3“	430	50 - 85
1 1/4“	3“	315	60 - 85
1 1/2“	3“	215	60 - 85
2“	3“	130	65 - 85
2 1/2“	3“	105	65 - 85
3“	3“	65	65 - 85
4“	3“	40	65 - 85
1/2“	5“	740	45 - 85
3/4“	5“	740	45 - 85
1“	5“	740	45 - 85
1 1/4“	5“	730	45 - 85
1 1/2“	5“	495	45 - 85
2“	5“	295	50 - 85
2 1/2“	5“	240	50 - 85
3“	5“	145	50 - 85
4“	5“	90	50 - 85
5“	5“	60	50 - 85
6“	5“	45	50 - 85

STN 2

Size	actuator	max. differential pressure (psi)	min. pilot pressure (bar)
1/2“	3“	410	50 - 85
3/4“	3“	280	60 - 85
1“	3“	190	60 - 85
1 1/4“	3“	130	60 - 85
1 1/2“	3“	85	60 - 85
2“	3“	50	65 - 85
2 1/2“	3“	40	65 - 85
3“	3“	-	-
4“	3“	-	-
1/2“	5“	740	45 - 85
3/4“	5“	645	45 - 85
1“	5“	440	45 - 85
1 1/4“	5“	305	45 - 85
1 1/2“	5“	200	45 - 85
2“	5“	115	50 - 85
2 1/2“	5“	90	50 - 85
3“	5“	55	50 - 85
4“	5“	35	50 - 85
5“	5“	-	-
6“	5“	-	-

	Pressure limits ANSI and DIN in psi			
	ANSI150	ANSI 300	PN16	PN40
P max. carbon steel	284	741	232	580
P max. stainless steel	276	719		

Sliding Gate Valve 8043-GS3

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Admissible Pressures

(For temperatures of up to 100°F for ANSI-classes and up to 250°F for PN-classes)

For temperatures exeeding 100°F (ANSI) or 250°F (PN): consider operation limits

Actuator 3“ double acting

without safety position
digital positioner, type 8049-4 wire

Nominal size	Max. differential pressure at actual pilot pressure [psi]															
	Disc pair: carbon/SFC-stainless steel coated								Disc pair: STN							
	37	44	51	58	66	73	80	87	37	44	51	58	66	73	80	87
1/2“	740	740	740	740	740	740	740	740	740	740	740	740	740	740	740	740
3/4“	740	740	740	740	740	740	740	740	671	740	740	740	740	740	740	740
1“	740	740	740	740	740	740	740	740	492	606	719	740	740	740	740	740
1 1/4“	736	740	740	740	740	740	740	740	360	444	527	611	694	740	740	740
1 1/2“	546	672	740	740	740	740	740	740	244	301	358	414	471	527	584	640
2“	350	431	512	593	675	740	740	740	144	177	211	244	278	311	344	378
2 1/2“	293	361	429	496	564	632	700	740	118	145	172	199	227	254	281	309
3“	184	226	269	312	354	397	440	482	71	87	103	120	136	153	169	186
4“	116	143	171	198	225	252	279	306	43	54	64	74	84	94	104	115
5“	79	97	115	133	152	170	188	207	29	36	42	49	56	63	69	76
6“	58	72	85	99	113	126	140	153	21	26	31	36	41	46	51	56
8“	34	41	49	57	65	73	81	89	12	15	17	20	23	26	29	32
10“	20	25	30	35	40	45	49	54	-	-	-	-	-	-	-	-

	Pressure limits ANSI and DIN in psi			
	ANSI150	ANSI 300	PN16	PN40
P max. carbon steel	284	741	232	580
P max. stainless steel	276	719		

Actuator 5“ double acting

without safety position
digital positioner, type 8049-4 wire

Nominal size	Max. differential pressure at actual pilot pressure [psi]															
	Disc pair: carbon/SFC-stainless steel coated								Disc pair: STN							
	37	44	51	58	66	73	80	87	37	44	51	58	66	73	80	87
1/2“	741	741	741	741	741	741	741	741	741	741	741	741	741	741	741	741
3/4“	741	741	741	741	741	741	741	741	741	741	741	741	741	741	741	741
1“	741	741	741	741	741	741	741	741	741	741	741	741	741	741	741	741
1 1/4“	741	741	741	741	741	741	741	741	741	741	741	741	741	741	741	741
1 1/2“	741	741	741	741	741	741	741	741	647	741	741	741	741	741	741	741
2“	741	741	741	741	741	741	741	741	382	464	547	629	711	741	741	741
2 1/2“	741	741	741	741	741	741	741	741	312	380	447	514	582	649	717	741
3“	487	592	696	696	696	696	696	696	188	229	269	310	350	391	431	472
4“	309	376	443	479	479	479	479	479	117	142	167	192	217	242	267	292
5“	209	254	299	334	334	334	334	334	78	95	111	128	145	161	178	195
6“	156	189	223	232	232	232	232	232	58	70	82	95	107	119	132	144
8“	90	110	129	148	168	187	206	226	32	39	46	54	61	68	75	81
10“	56	68	80	92	103	115	127	139	-	-	-	-	-	-	-	-

	Pressure limits ANSI and DIN in psi			
	ANSI150	ANSI 300	PN16	PN40
P max. carbon steel	284	741	232	580
P max. stainless steel	276	719		

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.

ANSI150

Size	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°F	120°F	210°F	300°F	390°F	480°F	570°F	660°F	100°F	120°F	210°F	300°F	390°F	480°F	570°F	660°F
1/2“ - 5“	275	265	235	215	200	175	150	120	275	265	235	215	200	175	150	120
6“	230	230	230	215	200	175	150	120	235	235	235	215	200	170	140	120
8‘“	230	230	230	215	200	175	150	120	150	145	120	110	100	80	65	55
10“	150	150	150	145	135	120	105	100	85	85	85	80	75	60	50	40

Limitation for SFC-sliding discs: 570°F

ANSI300

Size	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°F	120°F	210°F	300°F	390°F	480°F	570°F	660°F	100°F	120°F	210°F	300°F	390°F	480°F	570°F	660°F
1/2“ - 2 1/2“	720	695	610	560	520	485	460	440	720	695	610	560	520	485	460	440
3“	695	695	610	560	520	485	460	440	530	530	530	505	480	390	320	275
4“	480	480	480	480	480	480	460	440	480	480	480	460	435	355	290	250
5“	335	335	335	335	335	335	335	335	320	320	320	305	290	235	190	165
6“	230	230	230	230	230	230	230	230	230	230	230	225	210	170	140	120
8“	230	230	230	145	135	120	105	100	230	230	220	200	180	155	140	130

Limitation for SFC-sliding discs: 570°F

PN40

Size	Sliding unit: carbon/SFC - stainless steel, coated maximum pressures for GS3-valves in stainless steel						Paarung: STN 2 maximum pressures for GS3-valves in stainless steel					
	210°F	300°F	390°F	480°F	570°F	660°F	210°F	300°F	390°F	480°F	570°F	660°F
1/2“-1 1/4“	580	580	580	580	580	580	580	580	580	580	580	580
1 1/2“	580	580	580	580	580	580	580	580	580	580	580	535
2“	580	580	580	580	580	580	580	580	580	580	580	580
2 1/2“	580	580	580	580	580	580	580	580	580	580	535	465
3“	580	580	580	580	580	580	520	495	480	375	320	275
4“	480	480	480	480	480	480	465	450	435	350	290	245
5“	335	335	335	335	335	335	305	305	275	230	190	160
6“	230	230	230	230	230	230	220	220	205	160	130	115
8‘“ (only PN16)	230	230	220	190	175	160	120	110	100	80	65	55
10‘“ (only PN16)	145	130	130	115	100	85	85	80	75	60	50	40

Limitation for SFC-sliding discs: 570°F

PN100

Size	Sliding unit: carbon/SFC - stainless steel, coated maximum pressures for GS3-valves in stainless steel						Paarung: STN 2 maximum pressures for GS3-valves in stainless steel					
	210°F	300°F	390°F	480°F	570°F	660°F	210°F	300°F	390°F	480°F	570°F	660°F
1/2“	1450	1450	1450	1350	1220	1145	1450	1450	1450	1350	1220	1145
3/4“	1450	1450	1290	1175	1060	985	1450	1450	1290	1175	1060	985
1“	1275	1175	1015	915	825	785	1275	1175	1015	915	825	785
1 1/4“	1450	1350	1160	1060	945	900	1450	1350	1160	1060	945	870
1 1/2“	1275	1175	1015	915	825	785	1045	1000	945	770	625	535
2“	1450	1450	1450	1450	1450	1365	1115	1060	1015	810	665	580
2 1/2“	1160	1160	1160	1145	1030	970	900	855	810	655	535	465
3“	695	695	695	695	695	640	520	495	480	375	320	275

Limitation for SFC-sliding discs: 570°F

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.

ANSI150

Size	Sliding unit: carbon/SFC - stainless steel, coated max. admissible pressures for GS3-valves in carbon steel								Sliding unit: STN2 max. admissible pressures for GS3-valves in carbon steel							
	100°F	120°F	210°F	300°F	390°F	480°F	570°F	660°F	100°F	120°F	210°F	300°F	390°F	480°F	570°F	660°F
1/2“-5“	285	280	255	230	200	175	150	120	285	280	255	230	200	175	150	120
6“	230	230	230	230	200	175	150	120	235	235	235	225	200	170	140	115
8“	230	230	230	230	200	175	150	120	150	145	120	110	100	80	65	55
10“	150	150	150	145	135	120	105	87	85	85	85	80	75	60	50	40

Limitation for SFC-sliding discs: 570°F

ANSI300

Size	Sliding unit: carbon/SFC - stainless steel, coated max. admissible pressures for GS3-valves in carbon steel								Sliding unit: STN2 max. admissible pressures for GS3-valves in carbon steel							
	100°F	120°F	210°F	300°F	390°F	480°F	570°F	660°F	100°F	120°F	210°F	300°F	390°F	480°F	570°F	660°F
1/2“-2“	740	725	675	655	635	610	565	535	740	725	675	655	635	610	565	535
2 1/2“	740	725	675	655	635	610	565	535	605	605	605	575	545	485	550	470
3“	695	695	675	655	635	610	565	535	530	530	530	505	480	390	319	275
4“	480	480	480	480	480	480	475	475	480	480	480	460	435	355	290	245
5“	335	335	335	335	335	335	330	330	320	320	320	305	290	235	191	155
6“	230	230	230	230	230	230	230	230	230	230	230	225	210	170	141	115
8“	230	230	220	200	180	155	140	130	150	145	120	110	100	65	65	55

Limitation for SFC-sliding discs: 570°F

PN40

Size	Sliding unit: carbon/SFC - stainless steel, coated max. admissible pressures for GS3-valves in carbon steel						Sliding unit: STN2 max. admissible pressures for GS3-valves in carbon steel					
	210°F	300°F	390°F	480°F	570°F	660°F	210°F	300°F	390°F	480°F	570°F	660°F
1/2“ - 2“	580	580	580	580	580	580	580	580	580	580	580	580
2 1/2“	580	580	580	580	580	580	580	580	580	580	535	460
3“	580	580	580	580	580	580	520	495	480	375	320	275
4“	480	480	480	480	480	475	480	450	435	350	290	245
5“	335	335	335	335	335	330	320	305	275	230	190	155
6“	230	230	230	230	230	230	230	220	205	160	130	115
8“ (max 365 psi)	230	230	220	190	175	155	120	110	100	80	65	55
10“ (max 365 psi)	145	130	130	115	100	87	85	80	75	60	50	40

Limitation for SFC-sliding discs: 570°F

PN100

Size	Sliding unit: carbon/SFC - stainless steel, coated max. admissible pressures for GS3-valves in carbon steel						Sliding unit: STN2 max. admissible pressures for GS3-valves in carbon steel					
	210°F	300°F	390°F	480°F	570°F	660°F	210°F	300°F	390°F	480°F	570°F	660°F
1/2“ - 3/4“	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450
1“	1450	1450	1450	1450	1365	1260	1450	1450	1450	1450	1365	1260
1 1/4“	1450	1450	1450	1450	1450	1435	1450	1450	1450	1220	1000	870
1 1/2“	1450	1450	1450	1450	1365	1260	1045	1000	945	770	625	535
2“	1450	1450	1450	1450	1450	1360	1115	1060	1015	810	665	580
2 1/2“	1160	1160	1160	1160	1160	1100	900	855	810	655	535	460
3“	695	695	695	695	695	635	520	495	480	375	320	275

Limitation for SFC-sliding discs: 570°F

Sliding Gate Valve 8043-GS3

SCHUBERT SALZER

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: 050

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 actuator long design (Type 8043)	E	GS3 - flangeless design acc. ANSI 150	0	C-steel ASTM A216 WCB	0	Spring to close	8	piston 3“ (NPT)	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 CF8M	1	Spring to open	9	piston 5“ (NPT)			D	double acting, without springs	1	additional bellow 316 Ti
		G	GS3 - flangeless design acc. DIN, 145 - 580 psi			-	without								
		R	GS3 version with inner thread acc. ISO 228-1 (G-thread), pressure rating 580 psi												
		U	GS3 version with inner NPT thread acc. ANSI B 1.20.1, pressure rating 580 psi												

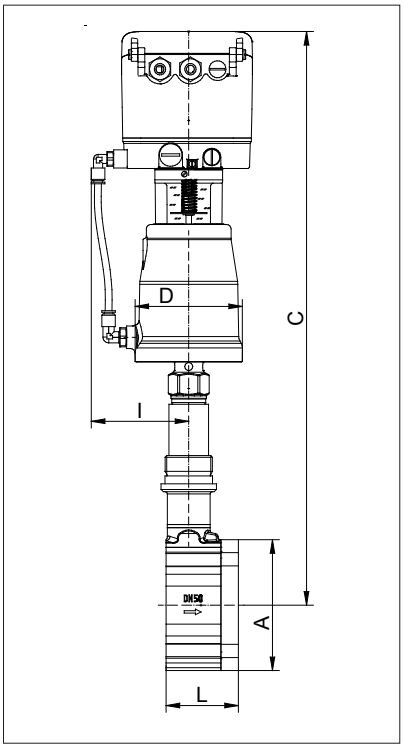
9. Sliding disc		10. Fixed disc		11. KVs-Values		12. Characteristic		13. Accessories		14. Positioner		15. Special versions		16. Special version	
-	carbon material	-	stainless steel/stellite	-	100 %(Stand.)	-	linear	Z	to state, if in sections 14 and 15 accessories are quoted	2	p/p-positioner Type 8047 +pos.indicator	1	air-tube-connection actuator positioner in plastic (PA)	S	please quote further special versions in clear text
9	STN2/ STN3	1	STN2-plate (only in combination with the positon „9“)	A	red. auf 63 %	1	equal percentage			3	i/p positioner Type 8047 +pos.indicator				
S	SFC	3	STN3-plate (only in combination with the positon „9“)	1	red. auf 40 %					5	i/p positioner Type 8047 +pos.indicator Eex ib II CT6, plug conn. M12x1				
				B	red. auf 25 %					8	i/p positioner Type 8047 plug conn. M12x1,pos. indicator				
				2	red. auf 16 %					C	dig. positioner, Type 8049, 4-wire				
				C	red. auf 10 %					R	dig. positioner, Type 8049, 2-wire				
				3	red. auf 6,3 %					W	dig. positioner, Type 8049 ExPro, ATEX, IECEX				
				4	red. auf 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. auf 1 %					Y	dig. positioner, Type 8049 ExPro-FM base plate in stainless steel; NI Cl. I Div. 2				
				6	red. auf 20 %					N	dig. positioner, Type 8049 IO-Link version				
				7	red. auf 12 %										
				8	red. auf 2 %										
				9	red. auf 0,4 %										

Ordering example: 8043/050VFE101M-1--2-Z8
sliding gate valve with piston actuator, long design, 2“, ANSI#150, body material stainless steel, NC, actuator Ø 3“, bellow, disc pair: carbon material - stainless steel 316 Ti coated, fixed disc stainless steel 316 Ti coated, Cv-value 16 % (red.), linear characteristics, integrated i/p-positioner with position indicator

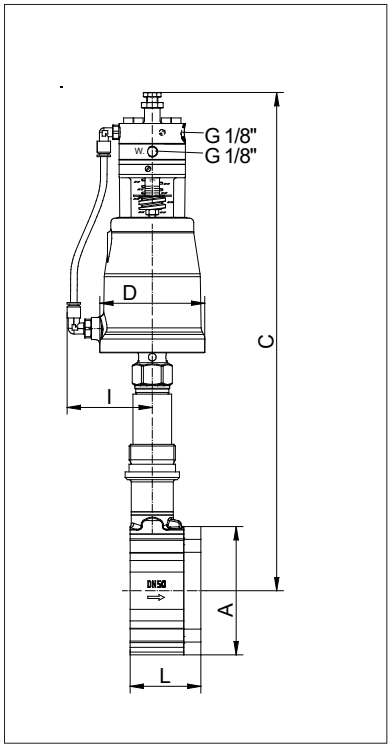
Sliding Gate Valve 8043-GS3

SCHUBERT SALZER

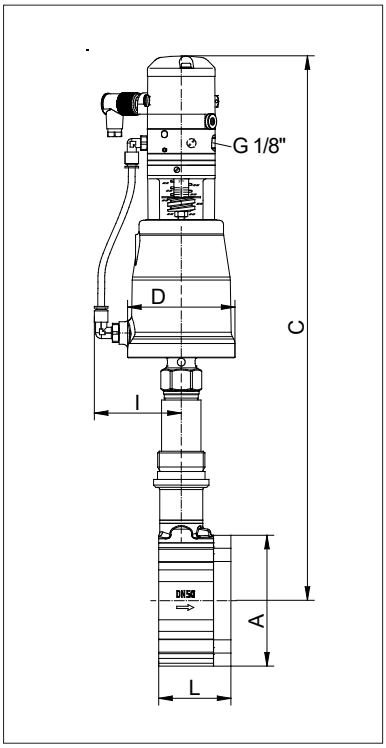
Dimensions and Weights wafer-type construction



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

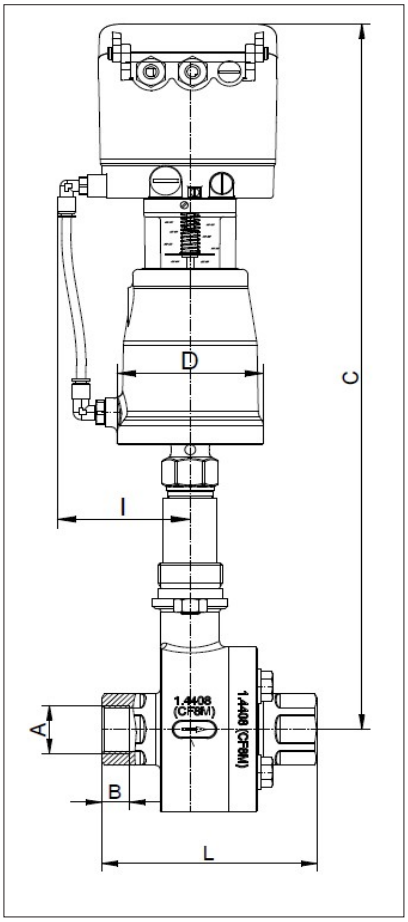
Size	Actuator Ø	A	L	D	I	C p/p positioner	C i/p positioner	C digital positioner	Stroke H	Weight (lbs)
1/2“	3“	2.52	2.2	3.78	3.15	16.77	18.03	19.06	0.24	13.5
1/2“	5“	2.52	2.2	5.75	4.13	17.56	18.82	19.84	0.24	17.5
3/4“	3“	2.83	2.2	3.78	3.15	16.93	18.19	19.21	0.24	14.5
3/4“	5“	2.83	2.2	5.75	4.13	17.72	18.98	20	0.24	18.5
1“	3“	3.23	2.2	3.78	3.15	17.13	18.39	19.41	0.24	14.5
1“	5“	3.23	2.2	5.75	4.13	17.91	19.17	20.2	0.24	18.5
1 1/4“	3“	3.5	2.2	3.78	3.15	17.2	18.46	19.49	0.24	15
1 1/4“	5“	3.5	2.2	5.75	4.13	17.99	19.25	20.28	0.24	19
1 1/2“	3“	3.9	2.2	3.78	3.15	17.44	18.7	19.72	0.24	16
1 1/2“	5“	3.9	2.2	5.75	4.13	18.23	19.49	20.51	0.24	20
2“	3“	4.57	2.52	3.78	3.15	17.76	19.02	20.04	0.31	19
2“	5“	4.57	2.52	5.75	4.13	18.54	19.8	20.83	0.31	23
2 1/2“	3“	5.43	2.68	3.78	3.15	18.11	19.37	20.39	0.31	22.5
2 1/2“	5“	5.43	2.68	5.75	4.13	18.9	16.22	21.18	0.31	26.5
3“	3“	6.02	2.76	3.78	3.15	18.46	19.72	20.75	0.31	25
3“	5“	6.02	2.76	5.75	4.13	19.25	20.51	21.54	0.31	29
4“	3“	7.24	2.95	3.78	3.15	18.98	20.24	21.26	0.33	32.5
4“	5“	7.24	2.95	5.75	4.13	19.76	21.02	22.05	0.33	36
5“	3“	8.35	3.15	3.78	3.15	19.57	20.83	21.85	0.33	41.5
5“	5“	8.35	3.15	5.75	4.13	20.35	21.61	22.64	0.33	45.5
6“	3“	9.53	3.15	3.78	3.15	20.16	21.42	22.44	0.33	49.5
6“	5“	9.53	3.15	5.75	4.13	20.94	22.2	23.23	0.33	53.5
8“	3“	11.89	3.66	3.78	3.15	-	-	23.62	0.33	87
8“	5“	11.89	3.66	5.75	4.13	-	-	24.41	0.33	90.5
10“	3“	14.17	3.78	3.78	3.15	-	-	24.61	0.33	98.5
10“	5“	14.17	3.78	5.75	4.13	-	-	25.39	0.33	102

Dimension C „reduced design“ shortened by 1“

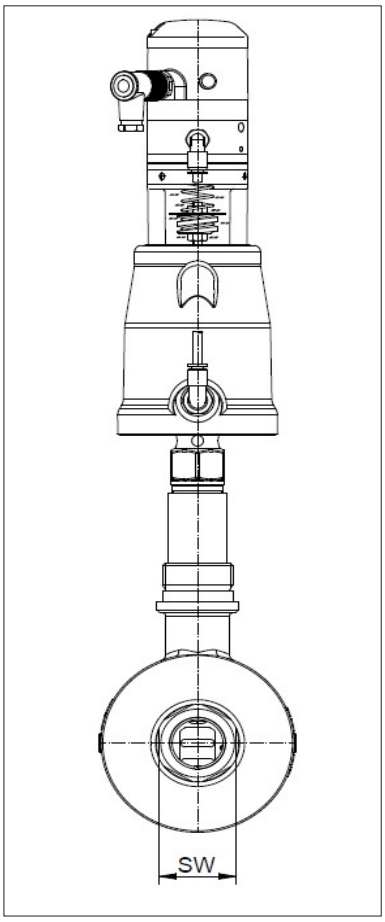
Dimensions in inch

Sliding Gate Valve 8043-GS3

Dimensions and Weights with threaded connection



Type 8043 with digital positioner
Type 8049
with position indicator



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

Size	A (G/ NPT)	B		D actuator		I actuator		C						L	SW	Stroke H	Weight (lbs)	
								p/p positioner actuator		i/p positioner actuator		digital positioner actuator						
		G	NPT	3“	5“	3“	5“	3“	5“	3“	5“	3“	5“				3“	5“
1/2“	1/2“	0,6	0,54	3,78	5,75	3,15	4,13	16,77	17,56	18,03	18,82	19,06	19,84	5	1,2	0,25	18,7	22,3
3/4“	3/4“	0,6	0,56	3,78	5,75	3,15	4,13	16,93	17,72	18,19	18,98	19,21	20	5	1,5	0,25	20,9	24,9
1“	1“	0,7	0,66	3,78	5,75	3,15	4,13	17,13	17,91	18,39	19,17	19,41	20,2	5,5	1,8	0,25	26,2	30,2
1 1/4“	1 1/4“	0,7	0,68	3,78	5,75	3,15	4,13	17,2	17,99	18,46	19,25	19,49	20,28	5,5	2,2	0,25	27,8	31,7
1 1/2“	1 1/2“	0,7	0,68	3,78	5,75	3,15	4,13	17,44	18,23	18,7	19,49	19,72	20,51	6	2,5	0,25	30,6	34,6
2“	2“	0,7	0,7	3,78	5,75	3,15	4,13	17,76	18,54	19,02	19,8	20,04	20,93	6	2,9	0,3	36,4	40,3

Dimension C „reduced design“ shortened by 1“

Dimensions in inch

Sliding Gate Valve 8043-GS3

Flow Coefficients - Cv-values

Ordering code		-	A	1	B	6	2	7	C	3	4	8	5	9
Size	Charact.	100 %	63 %	40 %	25 %	20%	16 %	12 %	10 %	6,3 %	2,5 %	2 %	1 %	0,4%
1/2“	(mod.) linear	4.6	3	2	1.6	-	0.82	0.57	0.51	0.3	0.16	0.09	0.05	0.021
	eq. perc.	2	-	1.3	-	0.4	-	-	-	0.12	-	-	-	-
3/4“	(mod.) lin.	7.4	-	-	-	-	1.16	-	-	-	-	0.15	-	-
	eq. perc.	3.5	-	1.7	-	-	-	-	-	-	-	-	-	-
1“	(mod.) linear	13	7.4	4.6	-	-	1.9	-	1.08	0.72	0.3	-	0.16	0.05
	eq. perc.	5.8	-	2.8	-	1.3	-	-	-	0.41	-	-	-	-
1 1/4“	(mod.) linear	19	12	-	-	-	-							
	eq. perc.	9.3	5.45	-	-	-	-							
1 1/2“	(mod.) lin.	30	19	13	8.1	-	-							
	eq. perc.	13	9.9	-	3.2	-	-							
2“	(mod.) linear	52	32	23	14	12	-							
	eq. perc.	22	14	-	-	-	3.5							
2 1/2“	(mod.) linear	60	41	-	17									
	eq. perc.	35	-	-	9.3									
3“	(mod.) linear	107	67	46										
	eq.perc.	56	41	-										
4“	(mod.) linear	179	110	72										
	eq.perc.	89	56	-										
5“	(mod.) linear	275	-	110										
	eq.perc.	135	-	-										
6“	(mod.) linear	392	246	-										
	eq.perc.	171	104	-										
8“	(mod.) linear	650	408	-										
	eq.perc.	329	-	-										
10“	(mod.) linear	1056	667											
	eq.perc.	-												

Text and pictures are not binding. We reserve the right, to alter the equipment.