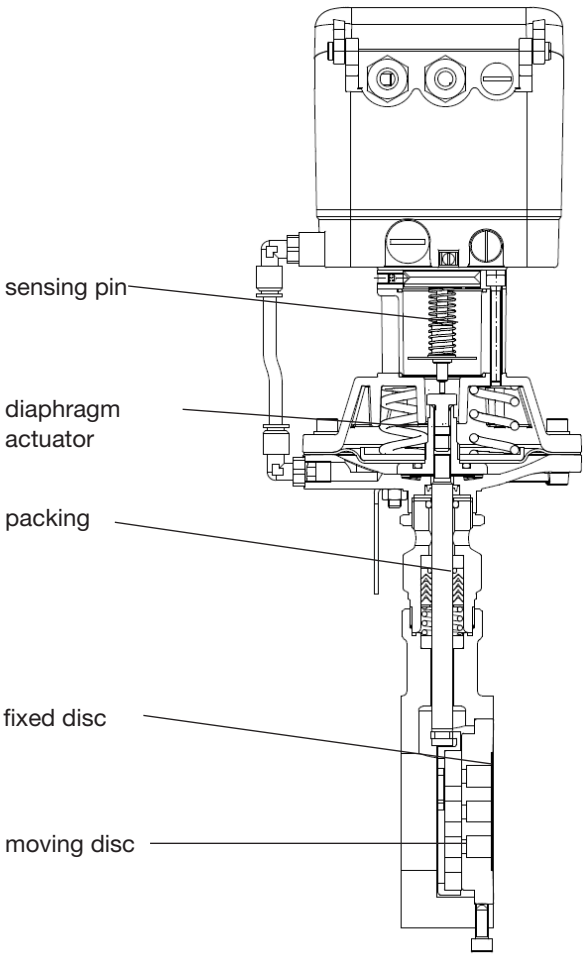
Sliding Gate Valve 8028

GS1 Series - DN15 up to DN150

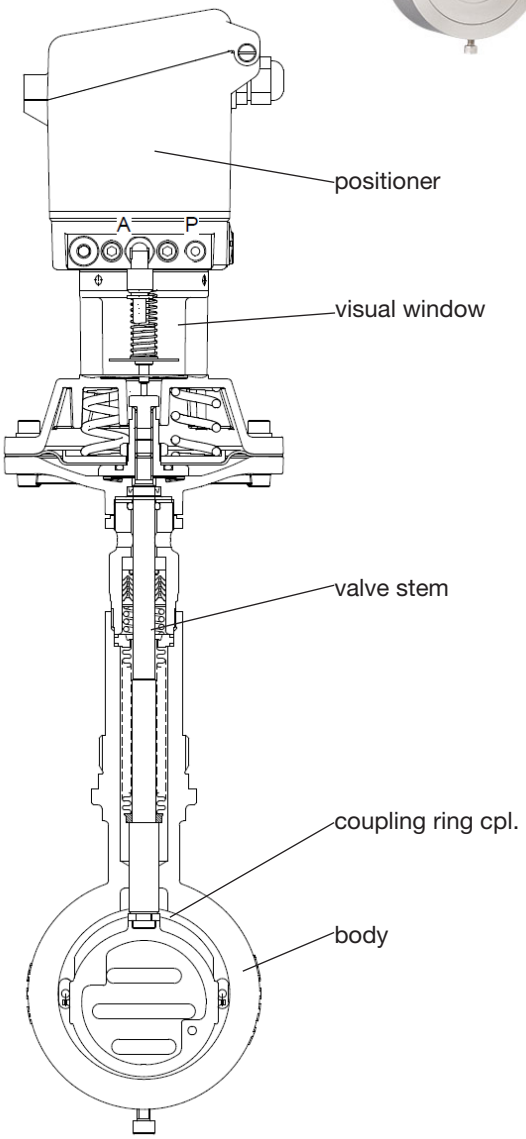
Compact pneumatic sliding gate valve optionally with integrated positioner for regulating or shutting off liquid and gaseous media for industrial applications

- Excellent control precision due to less friction at the actuator
- High rangeability of 40:1 linear / 80:1 equal percentage
- Control of high differential pressures with small actuators
- Without positioner also suitable for on/off applications
- Space saving wafer type construction
- Integrated positioner
- Lowest possible weight
- Quiet operation
- Fast response time
- Greatly reduced energy consumption rates due to short strokes and low actuating forces on the throttle elements
- Meets the requirements of TA-Luft 2021

short version



long version



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Sliding gate valve 8028 - GS1

Technical information

Body design	flangeless, wafer-type construction dimensions acc. DIN EN 558-1 series 20 for flanges acc. DIN EN 1092-1, form B more versions see data-sheet 8028-GS3		
Nominal size	DN 15 to DN 150		
Nominal pressure	PN 40 acc. DIN 2401 (also for flanges PN 10 to PN 25)		
Fluid temperature	carbon steel body stainless steel body body short 1.0619 body short 1.4571	-10°C to +350°C -60°C to +350°C -10°C to +230°C -20°C to +230°C optional -60°C to +230°C	
Flange gaskets (customer side) Ambient temperature*	DIN EN 1514-1 or ANSI B16.21 in the respective nominal pressure rating digital positioner -10°C up to +75°C		
Rangeability / Characteristic digital positioner	40 : 1 linear / 80 : 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 STN2 <0,001 IV F
Specific 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!

Materials

Body	Carbon steel 1.0619	Stainless steel 1.4408	
Diaphragm housing	Aluminium, KTL- coated		
Actuator springs	Stainless steel 1.4310		
Packing	PTFE carbon filled (spring 1.4310)		
Actuating stem	Stainless steel 1.4571, roller burnished		
Bellows (optional)	Stainless steel 1.4571		
Fixed disc	Stainless steel 1.4571 coated		STN2 - disc
Sliding disc	Special carbon material	SFC - disc (max. 300°C)	STN2 - disc
Coupling ring for disc	Stainless steel 1.4581		
Positioner Housing	Aluminium anodized, synthetic		

Admissible Differential Pressure

	Disc pair carbon/SFC-stainless steel coatet			STN2-disc pair	
DN	max. working pressure	required pilot pressure	DN	max. working pressure	required pilot pressure
	(bar)	(bar)		(bar)	(bar)
15	40	3,3	15	40	3,3
20	40	3,3	20	40	3,5
25	40	3,3	25	40	4
32	40	3,4	32	31	4,3
40	40	3,8	40	21	4,6
50	31	4,6	50	13	5,1
65	26	4,7	65	10,5	5,2
80	16,5	5	80	6,4	5,3
100	10,5	5,2	100	4	5,4
125	7,2	5,3	125	2,6	5,4
150	5,3	5,4	150	1,9	5,5

Applications limits for GS1-Valves

PN 40

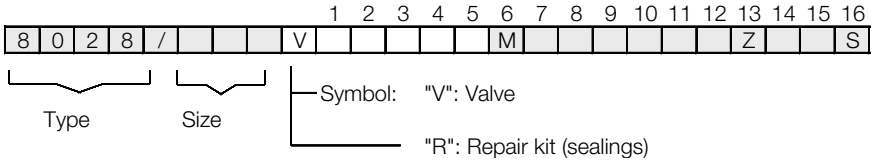
	Sliding unit: carbon/SFC - stainless steel, coated max. admissible pressures for GS1-valves					
DN	100°C	150°C	200°C	250°C	300°C	350°C
15 - 25	40	36	31	28	26	24
32	40	36	31	28	26	24
40	40	36	31	28	26	24
50	40	36	31	28	26	24
65	40	36	31	28	26	24
80	40	36	31	28	26	24
100	25	24	22	19	16	14,5
125	16,5	15,5	15	12,5	10,5	9,5
150	16	16	16	16	13	11,5

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

Limitation for SFC-sliding discs: 300°C

Sliding Gate Valve 8028 - GS1

Ordering Number system



1 - 5 : Please quote all 5 sections.
6 - 12: Quote only if required.

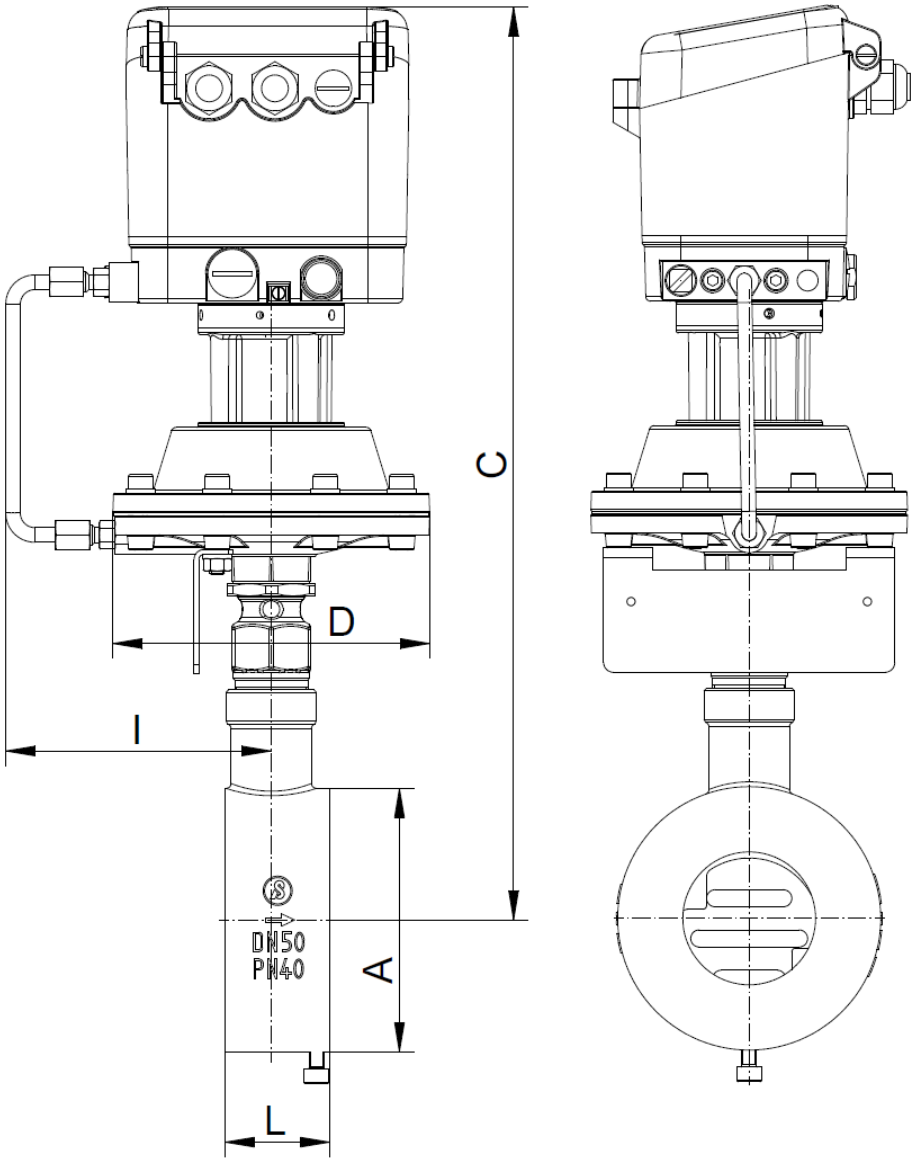
1. Type		2. Connection		3. Body material		4. Safety position		5. Actuator	
C	Sliding gate valve compact 8028, short version	0	GS1-flangeless design PN10-PN40 (for flanges acc. DIN EN 1092-1, form B)	0	carbon steel 1.0619	0	spring closes	1	diaphragm D80
D	Sliding gate valve compact 8028, long version			1	stainless steel 1.4408	1	spring opens	2	diaphragm D80 with NPT-thread

6. Special versions		7. Springs		8. Stem sealing		9. Moving disc		10. Fixed disc	
M	state, if further sections are quoted	-	Standard	-	Standard	-	carbon material	-	standard coating, stainless steel 1.4571
				1	additional metal bellow	S	Stainless steel, SFC	1	STN2
						9	STN2/STN3	3	STN3

11. KVs-values		12. Characteristic		13. Accesories		14. Positioner		15. Signal equipment		16. Special versions	
-	100% (Stand.)	-	linear	Z	see following positions	-	without positioner, prepared for 8049	-	without	S	Quote for further special versions
A	red. to 63%	1	equal%	N	el. position indicator with plug connection; ingress protection of the body IP65	C	digital positioner type 8049, 4-wire	1	1 limit switch (micro switch)		
1	red. to 40%			M	el. position indicator with cable bushing; ingress protection of the body IP65	R	digital positioner type 8049, 2-wire	2	2 limit switch (micro switch)		
B	red. to 25%			F	feedback-unit for proximity switch M12	W	digital positioner type 8049 ExPro, ATEX, IECEX	8	2 Inductive Limit Switches IN 5121 10-36V DC1 limit switch compact		
2	red. to 16%					K	digital positioner type 8049 ExPro-FM with base plate in stainless steel;	P	feedback module RM5 for positioner type 8049 with 2 integrated limit switches		
C	red. to 10%					N	digital positioner type 8049 IO-Link version	Y	Feedback module RM4 for positioner type 8049 with 2 integrated limit switches acc. NAMUR (EN60947-5-6)		
3	red. to 6,3%					A	without positioner, for on/off operation				
4	red. to 2,5%					Y	digital positioner type 8049 ExPro-FM with base plate in stainless steel;				
5	red. to 1%										
6	red. to 20%										
7	red. to 12%										
8	red. to 2%										
9	red. to 0,4%										

Ordering example: 8028/015VC0001M----A-ZCP
Sliding gate valve compact type 8028, DN 15 (Kvs 2,6; Cv 3), short version, GS1-flangeless design acc. DIN EN 1092-1 (PN10-PN40), body material carbon steell, safety position spring closes, diaphragm D80, moving disc carbon steel, fixed disc stainless steel 1.4571, coated, Kvs-/Cv-values red. to 63%, characteristic linear, digital positioner type 8049 4-wire, feedback modul RM5 for positioner type 8049-4 with two integrated limit switches

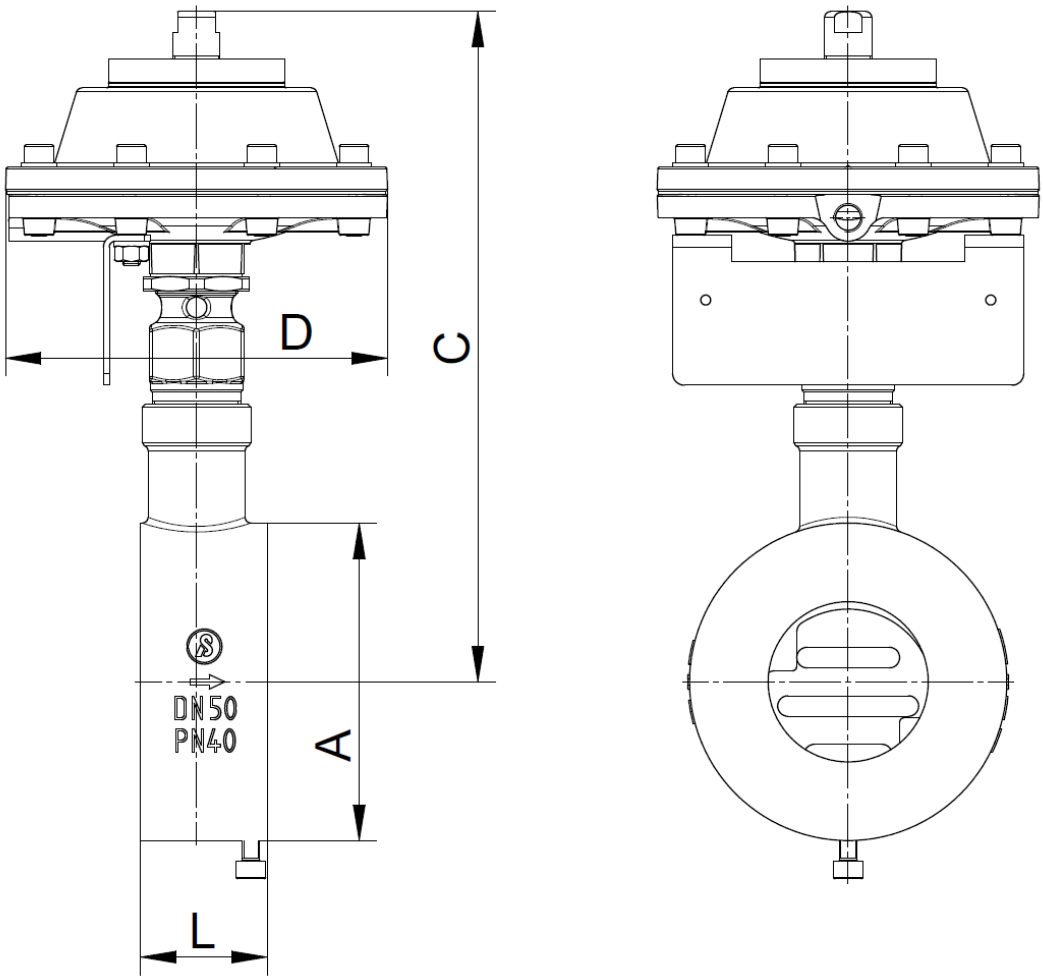
Dimensions and weight - short version with digital positioner 8049



DN	A	C carbon steel body	C stainless steel body	D	I	L	Stroke H	Weight (kg)
15	53	356	335	130	114	33	6	3,7
20	62	361	340	130	114	33	6	3,8
25	72	366	345	130	114	33	6	3,9
32	82	369	349	130	114	33	6	3,9
40	92	374	354	130	114	33	6	4,1
50	108	375	377	130	114	43	8	5,2
65	126	384	386	130	114	46	8	5,7
80	142	392	394	130	114	46	8	6,4
100	164	405	407	130	114	52	8,5	7,6
125	194	426	428	130	114	56	8,5	11,3
150	219	472	474	130	114	56	8,5	13,2

dimensions in mm

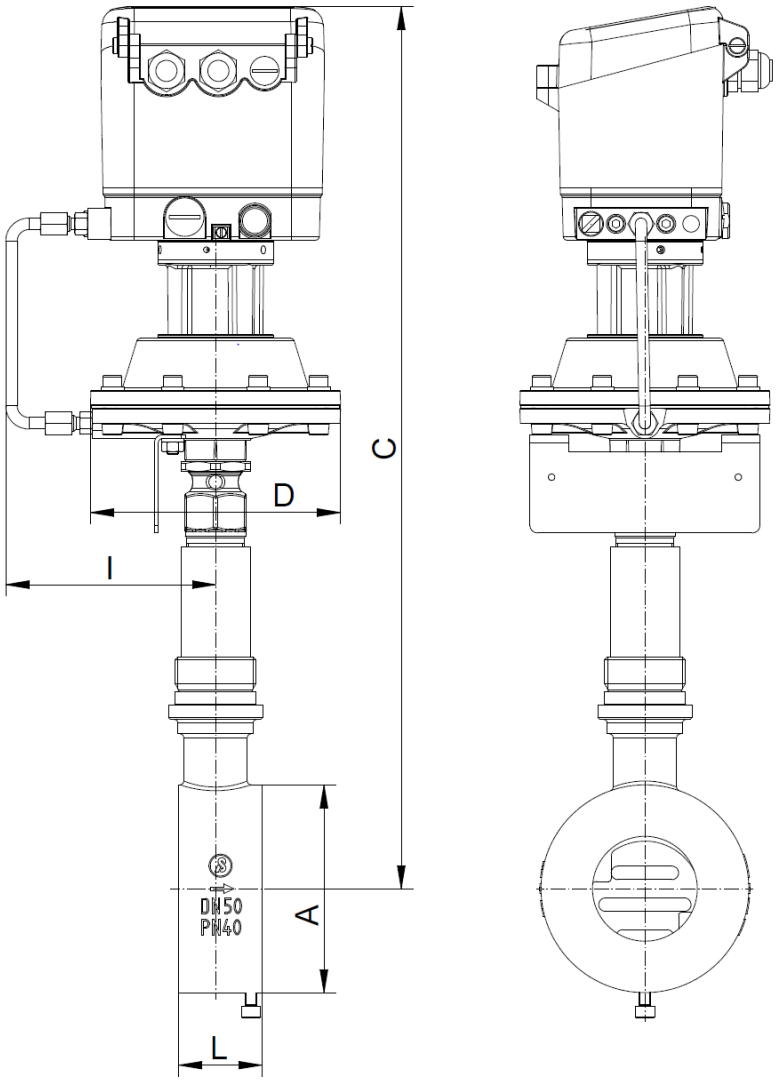
Dimensions and weight - short version, On- / Off- Valve



DN	A	C carbon steel body	C stainless steel body	D	L	Stroke H	Weight (kg)
15	53	209	188	130	33	6	3,7
20	62	214	193	130	33	6	3,8
25	72	219	198	130	33	6	3,9
32	82	222	202	130	33	6	3,9
40	92	227	207	130	33	6	4,1
50	108	228	230	130	43	8	5,2
65	126	237	239	130	46	8	5,7
80	142	245	247	130	46	8	6,4
100	164	258	260	130	52	8,5	7,6
125	194	278,85	281	130	56	8,5	11,3
150	219	324,85	327	130	56	8,5	13,2

dimensions in mm

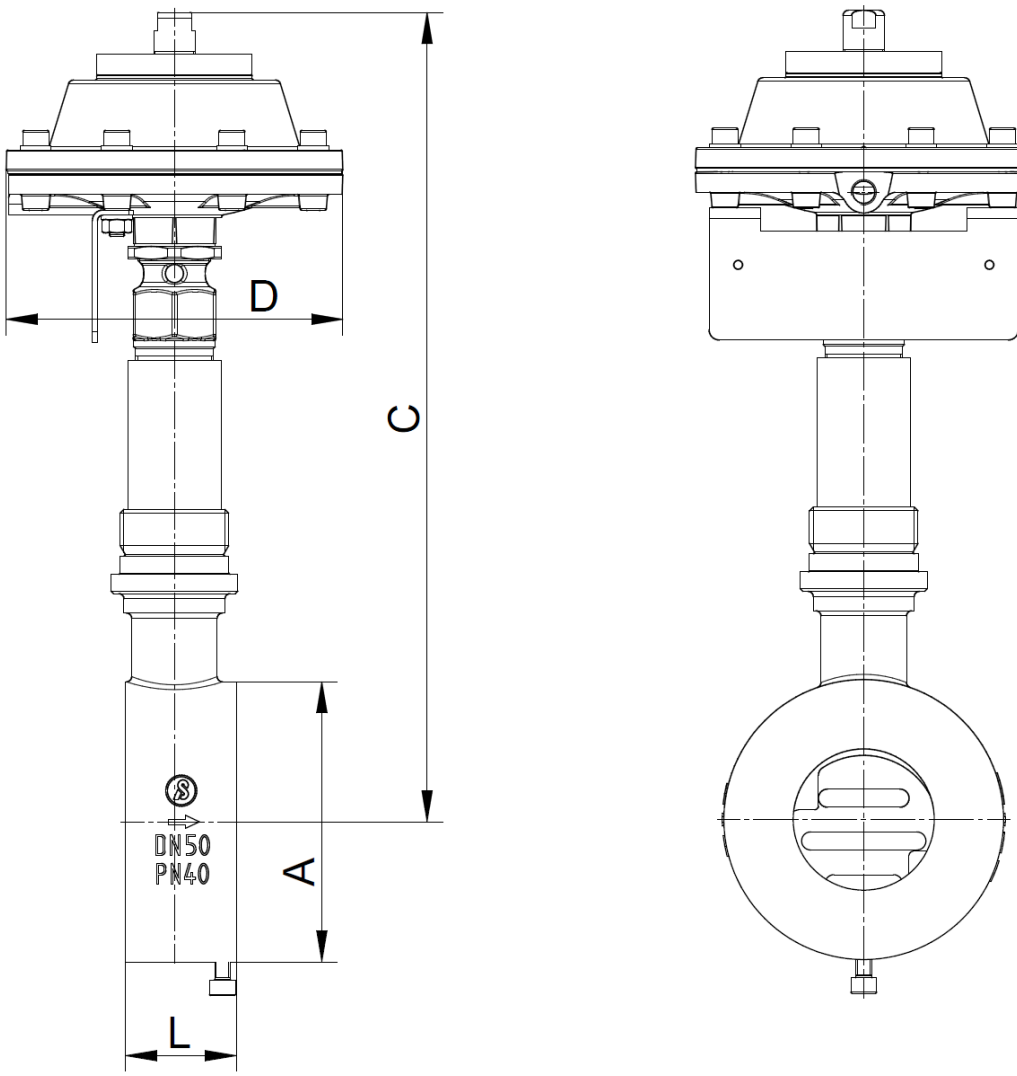
Dimensions and weight - long version with digital positioner 8049



DN	A	C	D	I	L	Stroke H	Weight (kg)
15	53	430	130	114	33	6	3,7
20	62	437	130	114	33	6	3,8
25	72	440	130	114	33	6	3,9
32	82	445	130	114	33	6	3,9
40	92	450	130	114	33	6	4,1
50	108	459	130	114	43	8	5,2
65	126	468	130	114	46	8	5,7
80	142	477	130	114	46	8	6,4
100	164	490	130	114	52	8,5	7,6
125	194	502	130	114	56	8,5	11,3
150	219	520	130	114	56	8,5	13,2

dimensions in mm

Dimensions and weight - long version, On- / Off- Valve



DN	A	C	D	L	Stroke H	Weight (kg)
15	53	283	130	33	6	2,7
20	62	290	130	33	6	2,8
25	72	293	130	33	6	2,9
32	82	298	130	33	6	2,9
40	92	303	130	33	6	3,1
50	108	312	130	43	8	4,2
65	126	321	130	46	8	4,7
80	142	330	130	46	8	5,4
100	164	343	130	52	8,5	6,6
125	194	355	130	56	8,5	10,3
150	219	373	130	56	8,5	12,2

dimensions in mm