

Control valve with motor drive (short design) Series SG08



Design type	Control valve with motor drive, automatic overload protection and End position shut-off, Sandwich mounting version
Overall length	according to EN558-1R20
Connection	Flanges DN15...DN125 according to EN1092-1 Form B, PN10-40
Materials	Housing Galvanized steel or rather Stainless steel 1.4408, PTFE packing with carbon filled, Actuating rod stainless steel 1.4571, Intermediate tube/Packaging tube Steel galvanized or rather Stainless steel 1.4571/1.4581, Actuator Aluminium
Sliding pair	Stainless steel/special carbon: Sealing washer fixed Stainless steel 1.4571 coated and Sealing washer movable Special carbon Stainless steel/SFC: Sealing washer fixed Stainless steel 1.4571 coated and Sealing washer movable SFC STN2: Sealing washer fixed and Sealing washer movable STN2
Leakage rate (% of Kvs)	Stainless steel/special carbon < 0,0001 Stainless steel/SFC < 0,0005 STN2 < 0,001
Mounting type	Installation in rigid piping system
Mounting position	any
Application range	gaseous and liquid media, that do not attack the materials used
Medium temperature	Housing Galvanized steel: -10...+230°C Housing Stainless steel 1.4408: -20...+230°C
Ambient temperature	-10...+60°C
Operating pressure	see table
Control ratio	30:1

Electrical data:

Voltage type	AC and DC voltage
Standard voltage	see table "Motor data"
Electrical Connection	above Cable entry gland M20x1,5 or rather M12x1,5
End position shut-off	via internal electronics
Duty cycle	100% Duty cycle (continuous operation)
Degree of protection	IP65 according to EN 60529 with properly installed cable entry (protection against dust ingress and splash water)
Actuation	3-point control, (0)4...20mA or rather (0)2...10V
Special version	Control actuator with fail-safe position, 2-point control, other switching times
Accessories	Actuator heater, Limit switch, Position feedback, Feedback via potentiometer



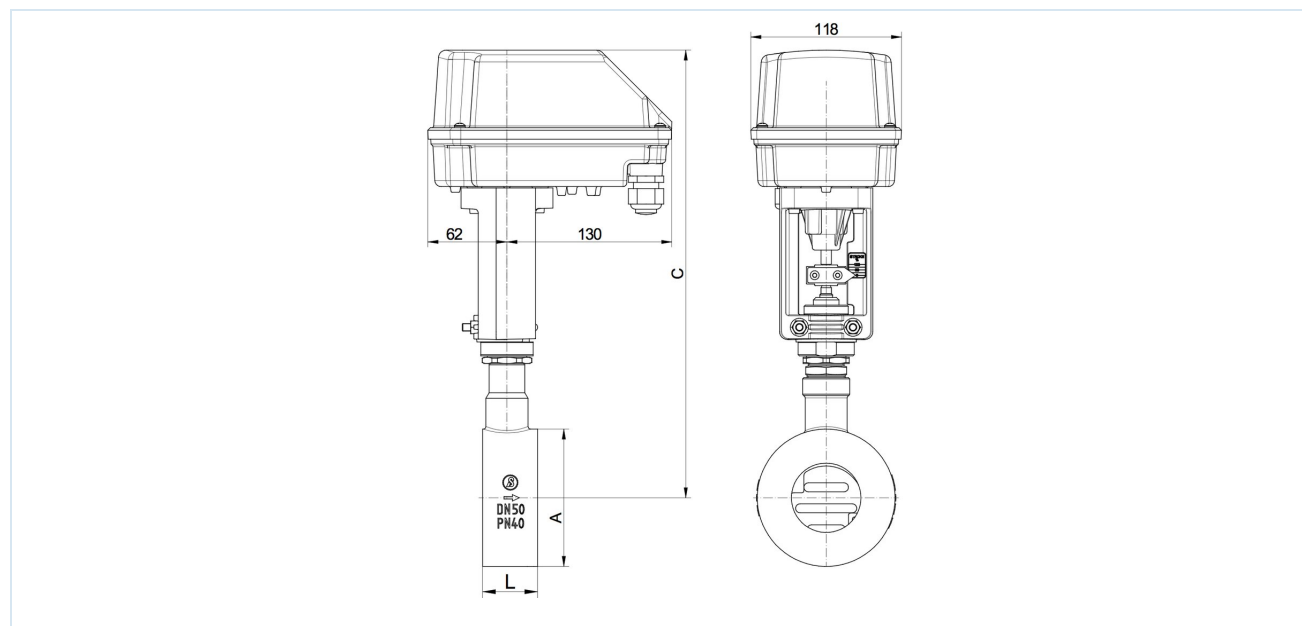


Type code

SG 08 - 15 - W WC E01 - 01									
Type	short design	08							
Connection	DN15	15							
	DN20	20							
	DN25	25							
	DN32	32							
	DN40	40							
	DN50	50							
	DN65	65							
	DN80	80							
	DN100	100							
	DN125	125							
Housing material	Steel galvanized		U						
	Stainless steel 1.4408		W						
Sliding pair	Stainless steel/special carbon			WC					
	Stainless steel/SFC			WF					
	STN2			WN					
Actuator	On-off actuator CA24				E01				
	On-off actuator CA260				E02				
	Control drive CA24C				ECA				
	Control drive CA260C				ECB				
Special version	described in the item text					01,02,03....			
	Kvs values reduced to								
	Characteristic curve linear/equal percentage								
	other actuation times								
	Limit switch								
	Actuator heater								
	Feedback via potentiometer								
	2-point control								
	Position feedback								
	Control actuator with fail-safe position								



Dimensions



Nominal size DN [mm]	A	C		L	Stroke	Weight approx. [kg]
		Steel housing	Stainless steel housing			
15	53	334	311	33	6	3
20	62	339	316	33	6	3,1
25	72	344	323	33	6	3,2
32	82	347	325	33	6	3,2
40	92	352	330	33	6	3,4
50	108	353	353	43	8	4,5
65	126	365	365	46	8	5
80	142	375	375	46	8	5,7
100	164	385	385	52	8,5	6,9
125	194	398	398	56	8,5	8,7

Motor data

Function	Rated voltage	Setpoint input	Burden [Ω]	Position feedback	external burden [Ω]	Limit switch	max. Switching capacity	Power [W]	Actuation time [s/mm]	Actuator type
Open/Close	24V AC/DC	3-point	-	optional available	-	optional available	250V AC/DC 1A	13	3	CA24
Open/Close	100-240V AC	3-point	-	optional available	-	optional available	250V AC/DC 1A	12	3	CA260
Control	24V AC/DC	(0)4-20mA (0)2-10V*	500 95k	(0)4-20mA (0)2-10V*	500 >5k	2x	24V AC/DC 200mA	13	2	CA24C
Control	100-240V AC	(0)4-20mA (0)2-10V*	500 95k	(0)4-20mA (0)2-10V*	500 >5k	2x	24V AC/DC 200mA	12	2	CA260C

*(0)2-10V (Switching via a switch on the PCB)

Motor actuation times in Seconds

Nominal size DN [mm]	Settings On-off actuators		Settings Control drives		
	2s/mm	3s/mm*	1,5s/mm	2s/mm*	3s/mm
15 - 40	12,5	19	9,5	12,5	19
50 - 80	16,5	25	12,5	16,5	25
100 - 125	17	26	13	17	26

* Standard version

Version 8

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Open series online

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Electrical connection

On-off actuators	
Actuator CA24	Actuator CA260
Control drives	
Actuator CA24C	Actuator CA260C

Position	Description	Note
S1	Bottom limit switch	Standard for control actuators - optional for open-close actuators
S2	Top limit switch	Standard for control actuators - optional for open-close actuators
S3	Fault message	Standard for control actuators - max. 0,2A/24V AC/DC
Y	Setpoint input	Standard 4-20mA 2-10V (Switching via a switch on the PCB)
Z	Position feedback	Standard 4-20mA 2-10V (Switching via a switch on the PCB)

Permissible differential pressures in bar

Nominal size DN [mm]	Max. Permissible differential pressures in bar									
	15	20	25	32	40	50	65	80	100	125
Sliding pair Stainless steel/special carbon - Stainless steel/SFC	40	40	40	40	30	20	17	11	7	4,5
Sliding pair STN2	40	37	28	20	14	8,5	7	4	2,5	1,5

Application limits - maximum permissible inlet pressures in bar

Nominal size DN [mm]	Stainless steel/special carbon - Stainless steel/SFC				STN2			
	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	24
40	40	36	31	30	26	25	24	15
50	40	36	31	30	40	36	31	26
65	40	36	31	30	37	35	31	21
80	40	36	31	30	22	20	19	12
100	24	23	22	20	13	12	12	7
125	16	15	14	13	8	8	7	4



Kvs values

DN [mm]	Characteristic curve	Kvs value [m³/h]													
		100%	63%	40%	25%	20%	16%	12%	10%	6,3%	2,5%	2%	1%	0,4%	
15	linear	4	2,6	1,7	1,4	-	0,71	0,49	0,44	0,26	0,14	0,08	0,04	0,018	
	equal percentage	1,7	-	1,1	-	0,35	-	-	-	0,1	-	-	-	-	
	linear		-	-	-	-	1	-	-	-	-	0,13	-	-	
	equal percentage	3	-	1,5	-	-	-	-	-	-	-	-	-	-	
	linear		6,4	4	-	-	1,6	-	0,93	0,62	0,26	-	0,14	0,04	
	equal percentage	5	-	2,4	-	1,1	-	-	-	0,35	-	-	-	-	
32	linear	16	10	-	-	-	-	-	-	-	-	-	-	-	
	equal percentage	8	4,7	-	-	-	-	-	-	-	-	-	-	-	
40	linear	26	16	11	7	-	-	-	-	-	-	-	-	-	
	equal percentage	11	8,5	-	2,75	-	-	-	-	-	-	-	-	-	
50	linear	45	28	20	12	10	-	-	-	-	-	-	-	-	
	equal percentage	19	12	-	-	-	3	-	-	-	-	-	-	-	
65	linear	52	35	-	15	-	-	-	-	-	-	-	-	-	
	equal percentage	30	-	-	8	-	-	-	-	-	-	-	-	-	
80	linear	92	58	40	-	-	-	-	-	-	-	-	-	-	
	equal percentage	48	35	-	-	-	-	-	-	-	-	-	-	-	
100	linear	154	95	62	-	-	-	-	-	-	-	-	-	-	
	equal percentage	77	48	-	-		-	-	-	-	-	-	-	-	
125	linear	237	-	95	-	-	-	-	-	-	-	-	-	-	
	equal percentage	116	-	-	-		-	-	-	-	-	-	-	-	

Illustrations non-binding

Design, dimensional and material changes reserved

Armatures / Special armatures / Sliding gate control valves / Sliding gate valve with electrical actuator Series SG08 / [SG08...] Sliding gate valve with electrical actuator SG08...

