

## 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<br>Stainless steel/SFC: Sealing washer fixed Stainless steel 1.4571 coated and Sealing washer movable SFC<br>STN2: Sealing washer fixed and Sealing washer movable STN2 |
| Leakage rate (% of Kvs) | Stainless steel/special carbon < 0,0001<br>Stainless steel/SFC < 0,0005<br>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<br>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                                      |



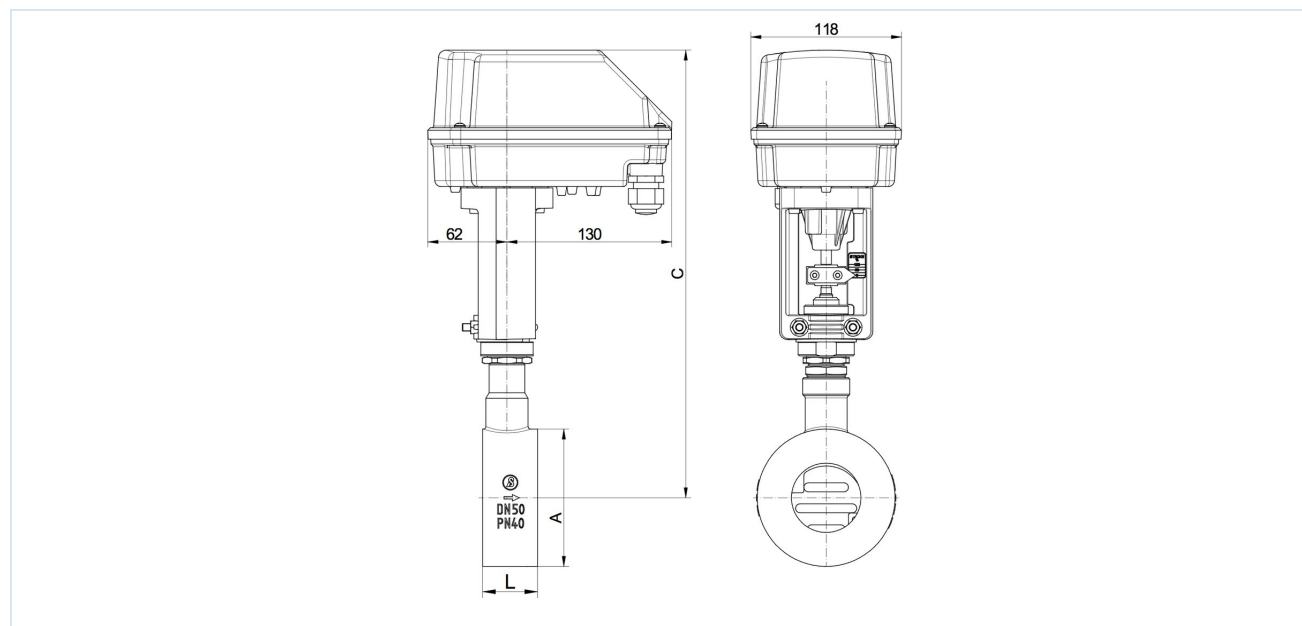


## Type code

| SG 08 - 15 - W WC E01 - 01 |                                              |     |   |    |     |              |  |  |  |
|----------------------------|----------------------------------------------|-----|---|----|-----|--------------|--|--|--|
| <b>Type</b>                | short design                                 | 08  |   |    |     |              |  |  |  |
| <b>Connection</b>          | DN15                                         | 15  |   |    |     |              |  |  |  |
|                            | DN20                                         | 20  |   |    |     |              |  |  |  |
|                            | DN25                                         | 25  |   |    |     |              |  |  |  |
|                            | DN32                                         | 32  |   |    |     |              |  |  |  |
|                            | DN40                                         | 40  |   |    |     |              |  |  |  |
|                            | DN50                                         | 50  |   |    |     |              |  |  |  |
|                            | DN65                                         | 65  |   |    |     |              |  |  |  |
|                            | DN80                                         | 80  |   |    |     |              |  |  |  |
|                            | DN100                                        | 100 |   |    |     |              |  |  |  |
|                            | DN125                                        | 125 |   |    |     |              |  |  |  |
| <b>Housing material</b>    | Steel galvanized                             |     | U |    |     |              |  |  |  |
|                            | Stainless steel 1.4408                       |     | W |    |     |              |  |  |  |
| <b>Sliding pair</b>        | Stainless steel/special carbon               |     |   | WC |     |              |  |  |  |
|                            | Stainless steel/SFC                          |     |   | WF |     |              |  |  |  |
|                            | STN2                                         |     |   | WN |     |              |  |  |  |
| <b>Actuator</b>            | On-off actuator CA24                         |     |   |    | E01 |              |  |  |  |
|                            | On-off actuator CA260                        |     |   |    | E02 |              |  |  |  |
|                            | Control drive CA24C                          |     |   |    | ECA |              |  |  |  |
|                            | Control drive CA260C                         |     |   |    | ECB |              |  |  |  |
| <b>Special version</b>     | 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<br>(0)2-10V* | 500<br>95k | (0)4-20mA<br>(0)2-10V* | 500<br>>5k          | 2x                 | 24V AC/DC 200mA         | 13        | 2                     | CA24C         |
| Control    | 100-240V AC   | (0)4-20mA<br>(0)2-10V* | 500<br>95k | (0)4-20mA<br>(0)2-10V* | 500<br>>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 6

148233 / Generated 2026/33 EN

MADE IN EUROPE

+43 512 52076

austria@stasto.eu

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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<br>2-10V (Switching via a switch on the PCB)       |
| Z        | Position feedback   | Standard 4-20mA<br>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...

