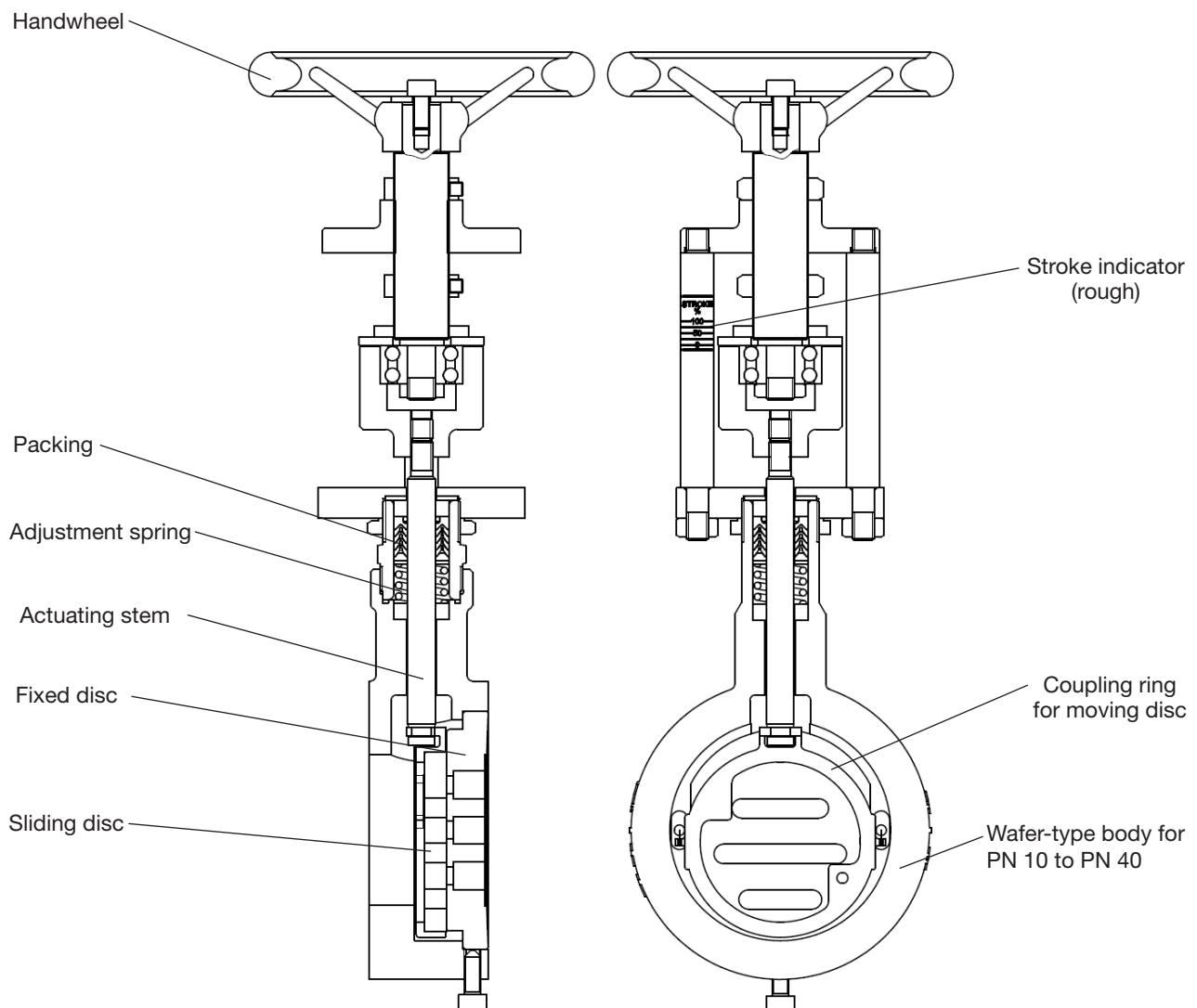


# Sliding Gate Valve 8051

## GS 1 series - DN 15 up to DN 150

**Manually operated sliding gate valve for regulating or shutting off liquid and gaseous media for industrial applications**

- Precise control by hand
- Lowest possible weight (especially in larger sizes)
- High Kvs-values
- Low leakage rate
- Simple handling of high pressure differences
- Meets the requirements of TA-Luft 2021



## Technical Information

|  |  |   |                    |
|--|--|---|--------------------|
| Body design                                  | Flangeless, wafer-type construction dimensions to DIN EN 558-1 series 20 for flanges acc. DIN EN 1092-1 form B |   |                    |
| Nominal sizes                                | DN 15 up to DN 150   |   |                    |
| Nominal pressure                             | PN 40 acc. DIN 2401 also for flanges<br>PN 10 up to PN 25  |   |                    |
| Media temperature                            | Body carbon steel  | -10°C up to +230°C                                |                    |
|  | Body stainless steel   | -20°C up to +230°C<br>optional -60°C up to +230°C |                    |
| Ambient temperature                          | -30°C up to +100°C   |   |                    |
| Flange gaskets (customer side)               | DIN EN 1514-1 or ANSI B16.21 in the respective nominal pressure rating   |   |                    |
| Leakage                                      | Disc pair<br>Carbon-stainless steel  | Disc pair<br>SFC                                  | Disc pair<br>STN 2 |
| % of Kvs                                     | < 0,0001   | < 0,0005  | < 0,001            |
| IEC 60534-4                                  | IV-S1  | IV-S1   | IV                 |
| EN 12266-1                                   | E  | F   | F                  |
| Marking ATEX non electric                    | II 2G Ex h IIC T6...T1 X Gb<br>II 2D Ex h IIIC 85°C...530°C X Db   |   |                    |
| Specific leakage rate shaft and body sealing | ISO FE-BH-CC3-SSA0-t(-40°C/+350°C)-PN40-ISO 15848-1  |   |                    |

\* With DN15 with reduction of less than 25%, different leakage rates possible.  
K<sub>vs</sub>-values see data sheet 8001.

## Admissible Differential Pressure (For temperatures of up to 120°C)

**For temperatures of 120°C and above:  
obey application limits !**

| DN  | carbon/SFC-stainless steel  | STN2 |
|-----|-----------------------------|------|
|     | max. differential pressures |      |
|     | bar                         | bar  |
| 15  | 40                          | 40   |
| 20  | 40                          | 40   |
| 25  | 40                          | 40   |
| 32  | 40                          | 40   |
| 40  | 40                          | 27   |
| 50  | 40                          | 40   |
| 65  | 40                          | 38   |
| 80  | 40                          | 22   |
| 100 | 25                          | 13,5 |
| 125 | 16,5                        | 8,9  |
| 150 | 16                          | 11   |

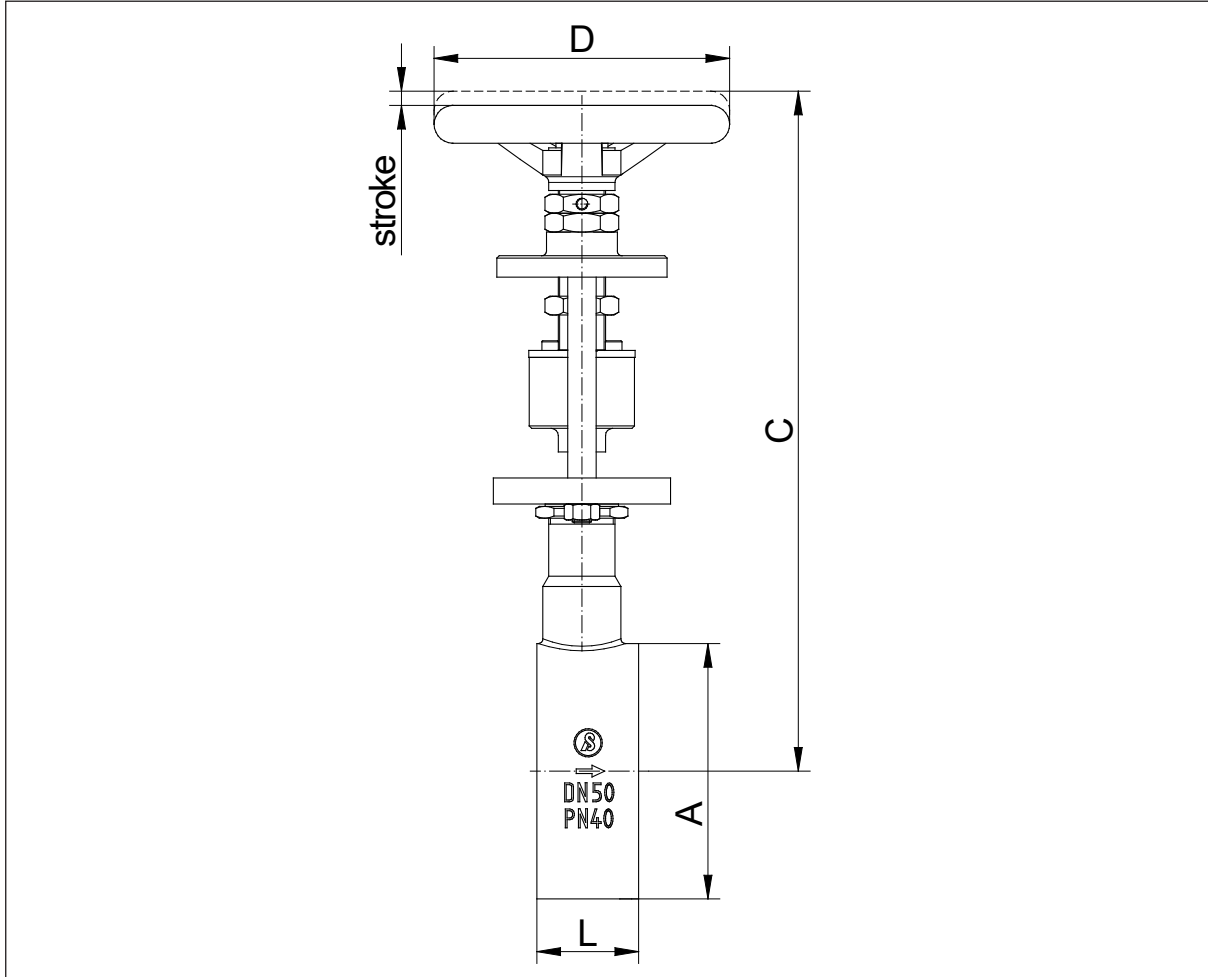
## Applications limits for GS1-Valves

### PN 40

| DN      | Sliding unit: carbon/SFC - stainless steel, coated |       |       |       | Sliding unit: STN2                       |       |       |       |
|---------|--|-------|-------|-------|--|-------|-------|-------|
|         | max. adm. diff. pressures for GS1-valves           |       |       |       | max. adm. diff. pressures for GS1-valves |       |       |       |
|         | 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    | 30    |
| 40      | 40   | 36    | 31    | 30    | 27                                       | 26    | 24    | 21    |
| 50      | 40   | 36    | 31    | 30    | 40                                       | 36    | 31    | 30    |
| 65      | 40   | 36    | 31    | 30    | 38                                       | 36    | 31    | 30    |
| 80      | 40   | 36    | 31    | 30    | 22                                       | 21    | 20    | 17,5  |
| 100     | 25   | 24    | 22    | 20    | 13,5                                     | 12,5  | 12,0  | 10,5  |
| 125     | 16,5   | 15,5  | 15    | 13,5  | 8,9                                      | 8,4   | 8,0   | 7,0   |
| 150     | 16   | 16    | 16    | 16    | 11                                       | 10,5  | 9,8   | 8,6   |



## Dimensions and Weights



| DN  | A   | C max | D   | L  | Weight (kg) | Stroke |
|-----|-----|-------|-----|----|-------------|--------|
| 15  | 53  | 240   | 125 | 33 | 2,8         | 6      |
| 20  | 62  | 245   | 125 | 33 | 2,9         | 6      |
| 25  | 72  | 250   | 125 | 33 | 3           | 6      |
| 32  | 82  | 255   | 125 | 33 | 3,1         | 6      |
| 40  | 92  | 260   | 125 | 33 | 3,2         | 6      |
| 50  | 108 | 285   | 125 | 43 | 4,3         | 8      |
| 65  | 127 | 295   | 125 | 46 | 4,8         | 8      |
| 80  | 142 | 300   | 125 | 46 | 5,5         | 8      |
| 100 | 164 | 315   | 125 | 52 | 6,7         | 8,5    |
| 125 | 194 | 330   | 200 | 56 | 8,7         | 8,5    |
| 150 | 219 | 351   | 200 | 56 | 10,6        | 8,5    |

Dimensions in mm