

# Segmented disk valve 5050

## manual operated

### DN 25 up to DN 200



Manual control valve for the control of liquids and steam.

- suitable for contaminated fluids
- robust design
- tight in both directions
- Space saving wafer type construction
- Quiet operation
- High Kvs-values



#### Technical data

|   |   |  |
|---|---|--|
| Body design                                 | flangeless, wafer-type construction<br>for flanges acc. DIN EN 1092-1, form B |  |
| Nominal size                                | DN 25 to DN 200   |  |
| Nominal pressure                            | DN 25 to DN 150   | PN 25 acc. DIN 2401<br>(also for flanges PN 10 to PN 16) |
|   | DN 200  | PN 25 acc. DIN 2401                                      |
| Fluid temperature                           | carbon steel body   | -10°C to +220°C  |
|   | stainless steel body  | -60°C to +220°C  |
| Ambient temperature                         | -30°C up to +100°   |  |
| Leakage % of Kvs                            | < 0,001   |  |
| Application according to DGRL<br>2014/68/EU | DN25 to DN150   | up to Category I   |
|   | DN200 to DN300  | up to Category II  |

\* Please consider the limitation of use of the positioner!

#### Materials

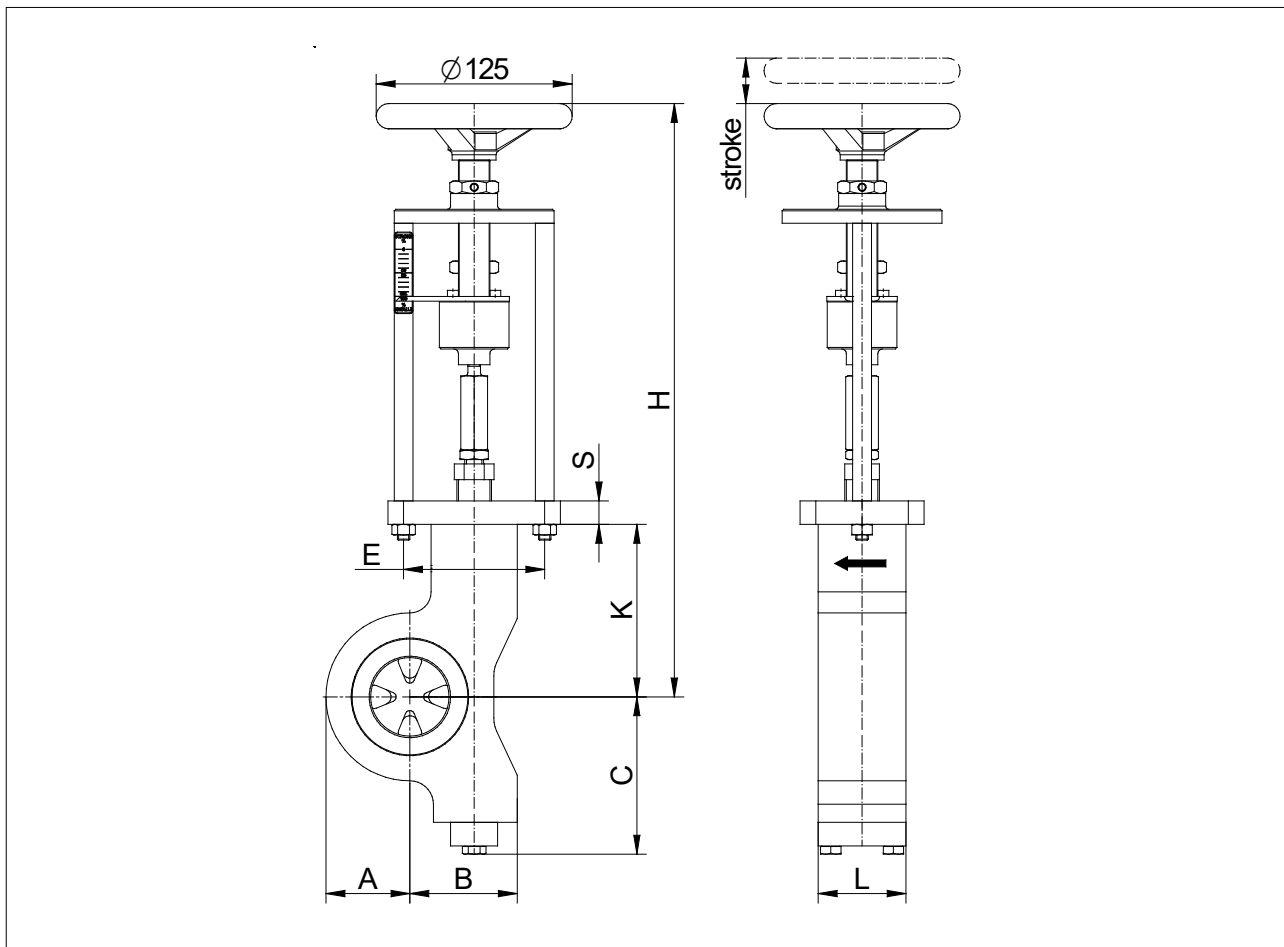
|                   |  |
|-------------------|--|
| body              | Stainless steel 1.4301, 1.4408                       |
| rack              | Stainless steel 1.4112, treated                      |
| pressure spring   | Stainless steel 1.4310                               |
| Fixed valve plate | Stainless steel 1.4112, treated                      |
| Moving valve disc | Stainless steel 1.4112, treated                      |
| slide ring        | Stainless steel 1.4112, treated alternatively bronze |
| spring support    | Stainless steel 1.4301, 1.4408                       |
| wear ring         | Stainless steel 1.4301, 1.4408                       |
| body positioner   | Aluminium anodized, synthetic                        |

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

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

| DN  | max. admissible differential pressure<br>[bar] |
|-----|--|
| 25  | 25   |
| 32  | 25   |
| 40  | 25   |
| 50  | 25   |
| 65  | 25   |
| 80  | 25   |
| 100 | 25   |
| 125 | 25   |
| 150 | 25   |
| 200 | 25   |

## Installation dimensions

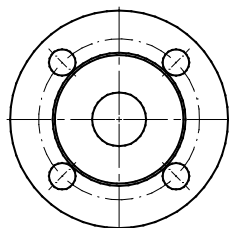


| DN  | A  | B  | C   | K   | L  | S  | H   | E  | Course | KVS [m <sup>3</sup> /h] |
|-----|----|----|-----|-----|----|----|-----|----|--------|-------------------------|
| 25  | 35 | 49 | 70  | 85  | 39 | 15 | 323 | 90 | 24     | 7                       |
| 32  | 41 | 54 | 78  | 97  | 39 | 15 | 336 | 90 | 28     | 15                      |
| 40  | 46 | 59 | 82  | 88  | 45 | 15 | 327 | 90 | 32     | 24                      |
| 50  | 54 | 69 | 100 | 110 | 56 | 15 | 379 | 90 | 29     | 38                      |
| 65  | 64 | 77 | 96  | 133 | 63 | 15 | 401 | 90 | 23     | 52                      |
| 80  | 71 | 85 | 120 | 140 | 69 | 15 | 409 | 90 | 26     | 87                      |
| 100 | 83 | 95 | 112 | 160 | 79 | 15 | 429 | 90 | 31     | 171                     |

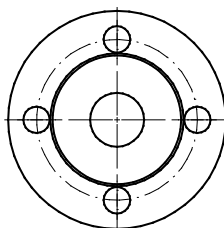
dimensions in mm

### Notice:

The flanges from DN25 to DN50 have to be rotated by 45°, if the valve is to be installed vertically or horizontally.



Standard



rotated 45°

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