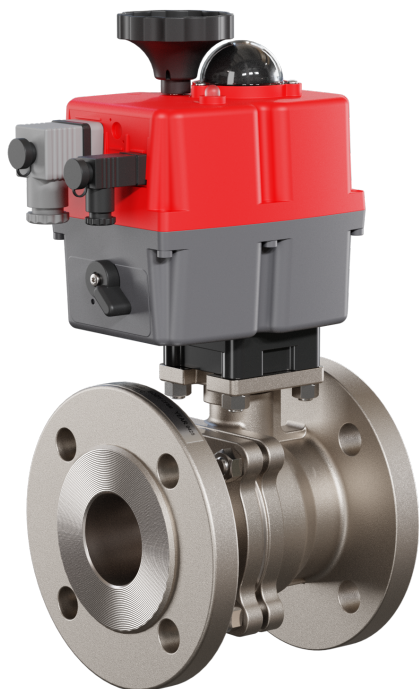


## Flanged ball valve stainless steel with electrical actuator type EK05



### description:

Flanged ball valve made of stainless steel with electrical actuator to shut off pipeline systems.

### features:

- suitable for neutral and not neutral **gaseous & liquid media**
- ETL electronic torque limiting
- AVS automatic voltage sensing
- ATC automatic temperature control
- emergency operating
- visual position indicator
- 4 limit switches (2 for motor adjustment, 2 for response)

### connection:

DN15 – DN100

### construction:

Full port design

### pressure:

0 – 16 bar

### design:

#### body:

flanged ball valve with electrical actuator

#### ball:

stainless steel 1.4408

#### ball seal:

stainless steel 1.4401

#### stem seal:

PTFE (covered) + 15 % GF

#### nominal diameter:

PTFE packing with plate spring suspension

#### temperature:

DIN EN 558-1

ball valve -10°C to +180°C (depending on working pressure), with actuator up to 70°C, more than 70°C coupler bracket must be used

### body actuator:

corrosion resistant synthetic body

### plug connection:

external plug connection acc. to DIN 43650

### mounting pad:

acc. to ISO 5211

### power supply:

#### Actuator L10

24V AC/DC – Low Version

#### Actuator J10H

100-240V AC/DC – High Version

#### Actuator S

24-240V AC/DC

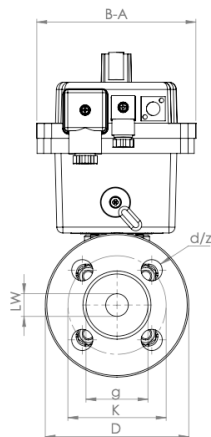
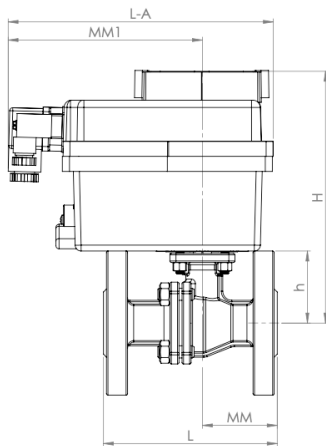
### mounting position:

mounting position free, not upside down

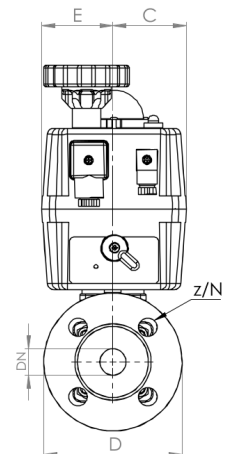
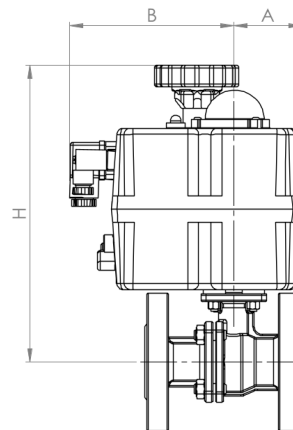
Other voltages and turning angles on request

subscription:

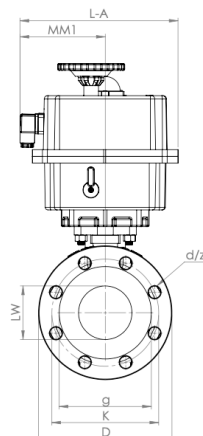
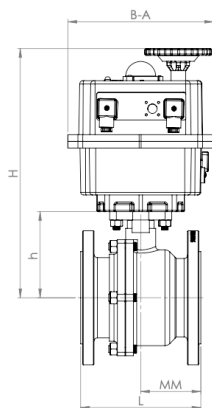
**DN15**



**DN25 – DN50**



**DN65 – DN100**



dimensions:

| DN  | PN | L   | MM   | h   | LW  | g   | K   | D   | d  | z | B-A | MM1 | L-A | H   | actuator | flange<br>ISO5211 | weight |
|-----|----|-----|------|-----|-----|-----|-----|-----|----|---|-----|-----|-----|-----|----------|-------------------|--------|
| *15 | 16 | 115 | 50   | 46  | 15  | 44  | 65  | 95  | 14 | 4 | 105 | 122 | 175 | 220 | L10/J10H | F04               | 2,75   |
| *20 | 16 | 120 | 52   | 52  | 20  | 58  | 75  | 105 | 14 | 4 | 110 | 126 | 176 | 226 | S 20     | F04               | 4,70   |
| 25  | 16 | 125 | 54,5 | 58  | 25  | 68  | 85  | 115 | 14 | 4 | 110 | 126 | 176 | 229 | S 20     | F05               | 5,80   |
| 32  | 16 | 130 | 57   | 72  | 32  | 78  | 100 | 140 | 18 | 4 | 110 | 126 | 176 | 243 | S 20     | F05               | 7,12   |
| 40  | 16 | 140 | 60   | 76  | 40  | 88  | 110 | 150 | 18 | 4 | 110 | 126 | 176 | 247 | S 35     | F07               | 8,78   |
| 50  | 16 | 150 | 60   | 84  | 50  | 102 | 125 | 165 | 18 | 4 | 110 | 126 | 176 | 280 | S 55     | F07               | 11,50  |
| 65  | 16 | 170 | 69   | 115 | 65  | 122 | 145 | 185 | 18 | 4 | 218 | 128 | 236 | 359 | S 140    | F10               | 19,12  |
| 80  | 16 | 180 | 90   | 128 | 80  | 138 | 160 | 200 | 18 | 8 | 218 | 128 | 236 | 372 | S 140    | F10               | 22,78  |
| 100 | 16 | 190 | 88   | 145 | 100 | 158 | 180 | 220 | 18 | 8 | 218 | 128 | 236 | 389 | S 300    | F10               | 28,78  |

| actuator     | ISO Flange   | octagon mm | protection class | operating factor | power supply   |                |               |                | working torque | starting torque | time for of cycle 90° without strain                |
|--------------|--------------|------------|------------------|------------------|----------------|----------------|---------------|----------------|----------------|-----------------|-----------------------------------------------------|
|              |              |            |                  |                  | 24V AC         | 24V DC         | 110V AC/DC    | 230V AC/DC     |                |                 |                                                     |
| <b>L/H10</b> | F03/F05      | 14         | IP65             | 75%              | 0,4A L<br>9,4W | 0,4A L<br>9,4W | 0,3A H<br>30W | 0,3A H<br>60W  | 10 Nm          | 12 Nm           | L10 = 19 sec. (+/- 10%)<br>J10H = 16 sec. (+/- 10%) |
| <b>S20</b>   | F03/F04 /F05 | 9/11/14    | IP67             | 75%              | 1,3A<br>30,7W  | 1,0A<br>23,4W  | 0,3A<br>32,7W | 0,2A<br>46,0W  | 20 Nm          | 25 Nm           | 9 sec. (+/- 10%)                                    |
| <b>S35</b>   | F03/F04 /F05 | 9/11/14    | IP67             | 75%              | 1,7A<br>40,2W  | 1,4A<br>32,8W  | 0,4A<br>41,9W | 0,2A<br>46,0W  | 35 Nm          | 38 Nm           | 9 sec. (+/- 10%)                                    |
| <b>S55</b>   | F05/F07      | 14/17      | IP67             | 75%              | 2,0A<br>47,5W  | 1,6A<br>39,0W  | 0,4A<br>47,0W | 0,2A<br>46,0W  | 55 Nm          | 60 Nm           | 13 sec. (+/- 10%)                                   |
| <b>S140</b>  | F07/F10      | 22         | IP65             | 75%              | 3,3A<br>79,2W  | 2,5A<br>60,7W  | 0,7A<br>78,7W | 0,4A<br>105,6W | 140 Nm         | 170 Nm          | 34 sec. (+/- 10%)                                   |
| <b>S300</b>  | F07/F10      | 22         | IP65             | 75%              | 3,3A<br>79,2W  | 2,7A<br>64,7W  | 0,8A<br>84,7W | 0,5A<br>113,5W | 300 Nm         | 350 Nm          | 58 sec. (+/- 10%)                                   |

## article number:

| type        | Voltage*                                     | seal                  | size                                                                                                                      |
|-------------|----------------------------------------------|-----------------------|---------------------------------------------------------------------------------------------------------------------------|
| <b>EK05</b> | 00 – 24V AC/DC<br><b>01 – 100-240V AC/DC</b> | <b>00 – PTFE + GF</b> | 03 – DN15<br>04 – DN20<br><b>05 – DN25</b><br>06 – DN32<br>07 – DN40<br>08 – DN50<br>09 – DN65<br>10 – DN80<br>11 – DN100 |

## Example no. EK05010005:

**EK05** | **01** | **00** | **05**

Flange ball valve made of stainless steel with electrical actuator

Voltage: 24-240V AC/DC

Seal: PTFE + GF

Size: DN25

\* dimensions from DN20 and above with actuator 24-240V

Please note:

Actuator must be bigger, if used with non-greasing media (e. g. water). Please contact us for a configuration.

Image similar, subject change without notice.