

2-WAY STAINLESS STEEL BALL VALVE, AUTOMATABLE (HIGH PRESSURE)



Picture: EKA25

Description:

- 2-pieces body construction
- high pressure application
- full passageway
- female thread acc. to EN 10226
- blow out safe, spindle mounted from inside
- EKA25: stainless steel hand lever
EKA15: for automation with top flange acc. to EN ISO 5211
- any installation position

Range of application:

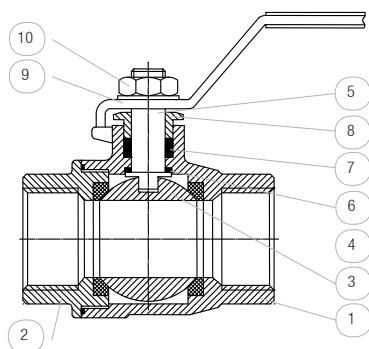
- for high pressure applications up to PN100
- standardized length of body allows easy replacement in existing applications
- working pressure PN100
(see pressure-temperature-diagram)
- temperature range: -10°C up to +200°C
(see pressure temperature diagram)

Comments:

EKA15/EKA25: The EKA25 is the economical type of EKA15 without mounting flange for manual applications. Optionally the EKA15 is available with free spindle.

Better protection against unintended disengagement of the spindle and the sealing by a blow out protection. No accidental damage from outside possible.

Threads according to EN 10226: It describes the threaded connection of a conical male thread (R) with a parallel female thread (Rp).



| pos. | part | standard material | | optional material |
|------|---------------------|-----------------------------|---|-------------------|
| 1 | body | 1.4408 | 0 | - |
| 2 | connector | 1.4408 | | - |
| 3 | ball | 1.4401 | | - |
| 4 | seat sealing | PTFE | G | - |
| 5 | spindle | 1.4401 | 0 | - |
| 6 | thrust ring | PTFE | | - |
| 7 | packing for spindle | PTFE | T | - |
| 8 | gland | 1.4301 | | - |
| 9 | handle | 1.4301 with plastic coating | | - |
| 10 | nut | 1.4301 | | - |

options:

- SV: spindle extension
- EB: relief well
- OF: free of oil and grease
- ZG: certificate 3.1

For pneumatic actuated valves only:

- SD: sound absorber
- AD: exhaust air regulator
- PV: pilot valve For details see data sheet "GMV3197", "GMV3163" (3/2 way) and "MVA01" (5/2 way). Other types on request.
- PS: positioning indicator
For details see data sheet "MCM2" (mechanical), "MCN2" (inductive, with ATEX 94/9/EC) and "MCS2" (inductive). Other types on request.

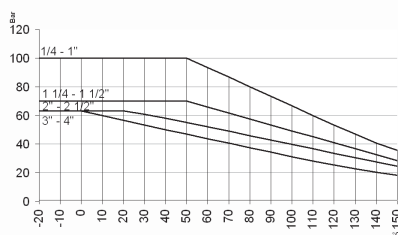
For details about the order code see "Order information". An overview of the complete material code you can find at the beginning of each product section of the product catalogue.

For electric actuated valves only:

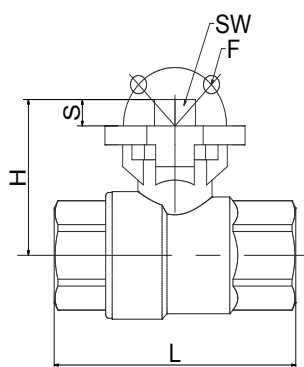
- AP: accumulator security pack
- PT: potentiometer
- PO: positioning system

Pressure temperature diagram

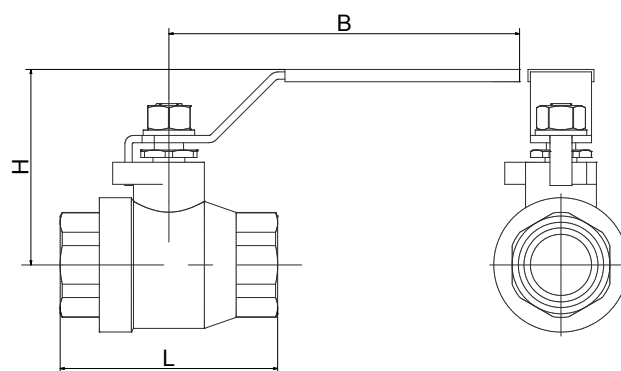
The pressure temperature diagram refers to the ball valve of this type. For the actuated units the actuator limits the permissible pressure range to the operating pressure as indicated above, as long as this is lower than the pressure range of the ball valve. If your application has strong temperature variations, you may need additional options like a relief well, to meet the figures. Please tell us your temperature variations with your order.



2-WAY STAINLESS STEEL BALL VALVE, AUTOMATABLE (HIGH PRESSURE)



EKA15



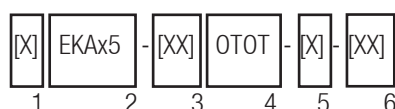
EKA25

| match code | size [inch] | nomi- nal pres- sure | nomi- nal size [mm] | CV* [m³/h] | type EKA25 (manually operated) | | | | type EKA15 (free spindle, automatable) | | | | | | |
|---------------|----------------|-------------------------------|------------------------------|---------------|--------------------------------|-----------|-----------|----------------|--|-----------|-----------|------|------|--------------------------------|----------------|
| | | | | | L [mm] | H [mm] | B [mm] | weight [kg] | L [mm] | H [mm] | F | SW** | S | breakaway torque [Nm]*** | weight [kg] |
| EKAx5-02-OTOT | 1/4 | PN100 | 11.6 | 5.9 | 55 | 50 | 96 | 0.25 | 50 | 33 | F03 | 9 | 7 | 13 | 0.3 |
| EKAx5-03-OTOT | 3/8 | PN100 | 12.7 | 9.4 | 60 | 50 | 96 | 0.25 | 60 | 33 | F03 / F04 | 9 | 7 | 13 | 0.3 |
| EKAx5-04-OTOT | 1/2 | PN100 | 16 | 19.4 | 75 | 53 | 96 | 0.4 | 75 | 35 | F03 / F04 | 9 | 7.5 | 16 | 0.4 |
| EKAx5-05-OTOT | 3/4 | PN100 | 20 | 45.6 | 80 | 64 | 125 | 0.5 | 80 | 41 | F04 / F05 | 11 | 12 | 25 | 0.6 |
| EKAx5-06-OTOT | 1 | PN100 | 25 | 71.5 | 90 | 66 | 125 | 0.9 | 90 | 44 | F04 / F05 | 11 | 12 | 31 | 0.8 |
| EKAx5-07-OTOT | 1 1/4 | PN100 | 32 | 105 | 110 | 79 | 170 | 1.6 | 110 | 51 | F04 / F05 | 11 | 11.5 | 53 | 1.3 |
| EKAx5-08-OTOT | 1 1/2 | PN100 | 38 | 170 | 120 | 83 | 170 | 2.3 | 120 | 58 | F04 / F05 | 11 | 12 | 76 | 1.9 |
| EKAx5-09-OTOT | 2 | PN100 | 50.8 | 275 | 140 | 94 | 190 | 3.6 | 140 | 68 | F05 / F07 | 14 | 15.5 | 99 | 3.4 |

*CV value: The nominal flow rate CVs acc. to VDI/VDE 2173 shows the water quantity in cubic meter per hour with the valve fully opened, $\Delta p=1$ and the water temperature between 5°C and 30°C.

** Spindle as square (standard).

***Breakaway torque: all data is determined with water at max Δp and normal ambient temperature. Multiplier for frictional media is 1.3. If your configuration has special sealing material or your application has critical media consultation is obligatory.

**Order information:****1: automation:**

- no specification:
EKA25: manually operated
EKA15: free spindle
- D: pneumatic double acting
- S: pneumatic single acting
- E: electric actuated

2: type:

- EKA25 (manually operated)
- EKA15 (automated)

3: connection size: 02-09 (see table)**4: materials:**

- 1. digit: body material (stainless steel)
- 2. digit: sealing for spindle (PTFE)
- 3. digit: ball material (stainless steel)
- 4. digit: seat sealing (PTFE)

5: actuator:

- no specification:
EKA25: stainless steel hand lever
EKA15: free spindle
- automated: see column "actuator" (only EKA15)

6: options (see "options")

Please ask for field specifications that are not listed in this data sheet.

Before installation please consider the installation and maintenance manual, especially the safety indications!

**DEKA15 / SEKA15**

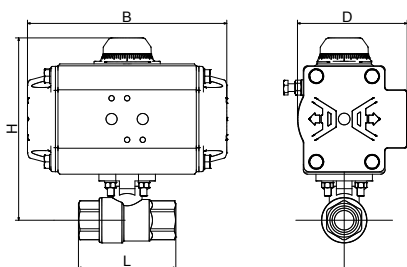
High quality pneumatic actuator made of alloy with air connection according to NAMUR and positioning indicator. The actuator works with the rack/bevel method. For further details see the technical data sheet "DR/SC".

Types double acting (the actuator opens and closes with compressed air) and single acting (the actuator opens with compressed air and closes with spring pressure).

The actuators are configured for use with fluid, gas and antifriction medium. **For critical media it is strictly recommended to inform us!**

Description:

- working pressure: 0 - 100 bar
- pilot pressure: 6 - 8 bar
- medium temperature: -20°C up to +100°C (at max. ambient temperature 40°C)



Attention! To avoid corrosion inside the spring chamber for single acting actuators caused by aggressive ambient air we recommend pilot valves with integrated air recirculation.

| match code | double acting: DEKA25 | | | | | single acting: SEKA25 | | | | |
|----------------|-----------------------|--------|--------|--------|-------------|-----------------------|--------|--------|--------|-------------|
| | actuator | H [mm] | B [mm] | D [mm] | weight [kg] | actuator | H [mm] | B [mm] | D [mm] | weight [kg] |
| xEKA15-020T0T- | DR015 | 122 | 136 | 72 | 1.3 | SC030-K | 138 | 153.5 | 84.5 | 2.0 |
| xEKA15-030T0T- | DR015 | 122 | 136 | 72 | 1.3 | SC030-K | 138 | 153.5 | 84.5 | 2.0 |
| xEKA15-040T0T- | DR015 | 124 | 136 | 72 | 1.4 | SC060-G | 157 | 203.5 | 93 | 3.5 |
| xEKA15-050T0T- | DR030 | 146 | 153.5 | 84.5 | 2.2 | SC060-J | 163 | 203.5 | 93 | 3.7 |
| xEKA15-060T0T- | DR060 | 166 | 203.5 | 93 | 3.5 | SC100-G | 179 | 241 | 106 | 5.1 |
| xEKA15-070T0T- | DR060 | 173 | 203.5 | 93 | 4.0 | SC150-I | 198 | 259 | 118 | 7.4 |
| xEKA15-080T0T- | DR100 | 193 | 241 | 106 | 5.6 | SC220-H | 233 | 304 | 136 | 11.2 |
| xEKA15-090T0T- | DR150 | 215 | 259 | 118 | 8.6 | SC220-K | 243 | 304 | 136 | 12.7 |

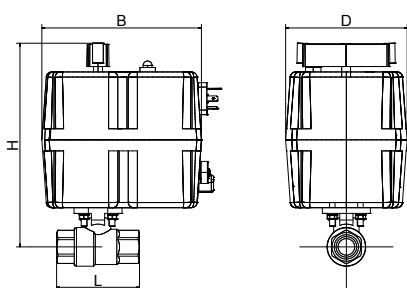
EEKA15

High-quality electric actuator in compact design with a body made of high-strength plastics. It has a high-performance motor and a gear drive made of metal. A central control room heater and an electronic torque limiter are equipped as standard. For further details see the technical data sheet "J".

The actuators are configured for use with fluid, gas and antifriction medium. **For critical media it is strictly recommended to inform us!**

Description:

- working pressure: 0 - 100 bar
- medium temperature: -20°C up to +70°C (at max. ambient temperature of 40°C)



| match code | actuator | A [mm] | B [mm] | D [mm] | weight [kg] |
|----------------|----------|--------|--------|--------|-------------|
| EEKA15-020T0T- | J320 | 182 | 177 | 110 | 1.7 |
| EEKA15-030T0T- | J320 | 182 | 177 | 110 | 1.7 |
| EEKA15-040T0T- | J320 | 184 | 177 | 110 | 1.8 |
| EEKA15-050T0T- | J335 | 212 | 177 | 110 | 2.3 |
| EEKA15-060T0T- | J335 | 215 | 177 | 110 | 2.5 |
| EEKA15-070T0T- | J355 | 247 | 177 | 110 | 3.6 |
| EEKA15-080T0T- | J385 | 254 | 177 | 110 | 4.7 |
| EEKA15-090T0T- | J2140 | 332 | 235 | 214 | 8.6 |

connection voltage type:

- 19: 24V AC/DC up to 240V AC/ DC
- other voltages on request

AC/DC Beschaltung
(3 Draht):