

Electrically actuated ball valves

Ball valves with electric rotary actuators (sanitary design)

up to 40 bar

- ✓ **Advantages:**
- 2 additional limit switches
 - Torque cut-off
 - Variable voltage (DC or AC)
 - Manual emergency operation
 - Integrated heating in actuator housing

Ball valve

Materials: Housing: Brass nickel-plated, ball: Brass hard chrome-plated, ball seals: PTFE

Temperature range: -20°C to max. +95°C

Assembly flange conforming to ISO 5211

Operating range: Water, compressed air, vacuum (max. -0.9 bar), oils, fuels, heating oil, solvents, colours, paints, weak acids and alkalis

Rotary actuator

Electric rotary actuator with optical position indicator, manual emergency operation and switch room heating.

Two additional limit switches are installed for further control requirements. An electronic torque limiting unit prevents damage in the event of overload. The manual emergency operation can be done without dismantling the external cladding. Do not use upside down!

Temperature range: -20°C to max. +70°C

Voltage: Type 230: 110 - 240V AC/DC, type 24: 24V AC/DC, (actuators can be operated with AC and DC voltage).

Protection class: IP 65

Max. switchable pressure difference: 16 bar

Power-on time: 75%

Regulating time: Type 24: 19 sec., type 230: 16 sec.



Warning: With high media temperatures the actuator must be protected by a thermal bridge or cooled!

Type 230 110-240V AC/DC	Type 24 24V AC/DC	Thread	DN	Install. length ball valve	PN*	Actuator size**
KH 14 ELS 230	KH 14 ELS 24	G 1/4"	10	65	40 bar	1-F03
KH 38 ELS 230	KH 38 ELS 24	G 3/8"	15	65	40 bar	1-F03
KH 12 ELS 230	KH 12 ELS 24	G 1/2"	15	65	40 bar	1-F03
KH 34 ELS 230	KH 34 ELS 24	G 3/4"	20	75	40 bar	1-F03
KH 10 ELS 230	KH 10 ELS 24	G 1"	25	86	40 bar	1-F05-VK9
KH 114 ELS 230	KH 114 ELS 24	G 1 1/4"	32	95	32 bar	1-F05-VK9
KH 112 ELS 230	KH 112 ELS 24	G 1 1/2"	40	101	30 bar	1-F05-VK11
KH 20 ELS 230	KH 20 ELS 24	G 2"	50	120	30 bar	1-F05-VK11

* max. switchable pressure difference: 16 bar, ** for dimensions and replacement actuators see page 310

Ball valves with electric rotary actuators (industrial design)

up to 40 bar

- ✓ **Advantages:**
- 2 additional limit switches
 - Torque cut-off
 - Variable voltage (DC or AC)
 - Manual emergency operation
 - Integrated heating in actuator housing

Ball valve

Materials: Housing: Brass nickel-plated, ball: Brass hard chrome-plated, seal: PTFE

Length according to DIN 3202-M3 (G 1/2" - G 2"), DVGW approval for G 1/2" - G 2" (PN 5/MOP 5)

Temperature range: -20°C to max. +160°C (G 2 1/2" - G 4": max. +120°C), gas: -20°C to max. +60°C

Operating range: Water, compressed air, vacuum (max. -0.9 bar), oils, fuels, heating oil, solvents, colours, paints, weak acids and alkalis

Rotary actuator

Electric rotary actuator with optical position indicator, manual emergency operation and switch room heating. Two additional limit switches are installed for further control requirements. An electronic torque limiting unit prevents damage in the event of overload. The manual emergency operation can be done without dismantling the external cladding. Do not use upside down!

Materials: Housing: PA 6

Temperature range: -20°C to max. +70°C

Voltage: Type 230: 24 - 240V AC/DC, (actuators can be operated with AC and DC voltage).

Protection class: IP 67

Power-on time: 75%

Regulating time: 10 to 14 sec.

☞ **Optional:** Regulating time 140 sec. (only for actuator size 2) -140, "Battery Safety Return" for emergency closing NC (standard configuration) or emergency opening NO (changeover using jumpers) in case of power failure -BSR



Warning: With high media temperatures the actuator must be protected by a thermal bridge or cooled!

Type 230 24-240V AC/DC	Thread	DN	Install. length ball valve	PN	Actuator size*
KH 14 ELi 230	Rp 1/4"	10	67	40 bar	2-F03
KH 38 ELi 230	Rp 3/8"	15	67	40 bar	2-F03
KH 12 ELi 230	G 1/2"	15	75	40 bar	2-F03
KH 34 ELi 230	G 3/4"	20	80	40 bar	2-F03
KH 10 ELi 230	G 1"	25	90	40 bar	2-F03
KH 114 ELi 230	G 1 1/4"	32	110	40 bar	2-F05-VK11
KH 112 ELi 230	G 1 1/2"	38	120	40 bar	2-F05-VK11
KH 20 ELi 230	G 2"	50	140	40 bar	2-F05
KH 212 ELi 230	G 2 1/2"	65	165	30 bar	4-F05
KH 30 ELi 230	G 3"	76	188	25 bar	4-F07-VK14
KH 40 ELi 230	Rp 4"	90	200	20 bar	4-F07-VK14

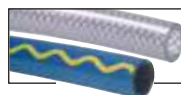
* for dimensions and replacement actuators see page 315

☞ **Order example:** KH 14 ELi 230 **

Standard type

Designation for the options:

Regulating time 140 sec. (only for actuator size 2) . -140
Battery Safety Return-BSR



Compressed air and water hoses from page 208



Threaded nozzles from page 64

All data are considered to be unbinding reference values. We accept no liability for data selection that is not confirmed in writing. Pressure data refer, if not otherwise indicated, to liquids of Group II at +20°C.