

Electrically actuated ball valves

3-way ball valves with electric rotary actuators

PN 40



- ✓ **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/NBR

Temperature range: -10°C to max. +100°C

Properties: Pressure inlet is possible from all the three sides.

Operating range: Water, oil, compressed air, 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 monitoring 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 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	Thread	DN	Install. length ball valve	Actuator size*
24-240V AC/DC				
KH 3/14 ** ELi 230	G 1/4"	10	76	2-F03
KH 3/38 ** ELi 230	G 3/8"	10	78	2-F03
KH 3/12 ** ELi 230	G 1/2"	10	82	2-F03
KH 3/34 ** ELi 230	G 3/4"	15	90	2-F03
KH 3/10 ** ELi 230	G 1"	20	106	2-F05-VK11
KH 3/114 ** ELi 230	G 1 1/4"	25	120	2-F05-VK11
KH 3/112 ** ELi 230	G 1 1/2"	32	142	2-F05
KH 3/20 ** ELi 230	G 2"	40	165	3-F05

* for dimensions and replace. actuators see p. 315, ** please indicate switching pos. See table on page below. (Standard position T1 or L)



Stainless steel 3-way ball valves with electric rotary actuators

PN 63

- ✓ **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: AISI 316, ball: AISI 316, seal: PTFE (15% GF)/FKM

Temperature range: -20°C to max. +180°C

Properties: Pressure inlet is possible from all the three sides.

Operating ranges: Water, oil, compressed air, vacuum (max. -0.9 bar), fuels, solvents, aggressive media

☞ **Optional:** Certificate 3.1

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 monitoring 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 sec.

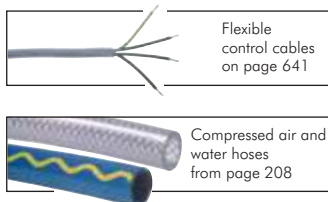
☞ **Optional:** Regulating time 140 sec. (only for actuator size 2) -140, "Battery Safety Return" for emergency closing NC (standard configuration) or emergency opening NO (changeover using jumpers) in case of power failure -BSR



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

Type 230	Thread	DN	Install. length ball valve	Actuator size*
24-240V AC/DC				
KH 3/14 ** ELi 230 ES	G 1/4"	11	79	2-F03
KH 3/38 ** ELi 230 ES	G 3/8"	11	79	2-F03
KH 3/12 ** ELi 230 ES	G 1/2"	12	79	2-F03
KH 3/34 ** ELi 230 ES	G 3/4"	15	88	2-F03
KH 3/10 ** ELi 230 ES	G 1"	20	108	2-F05-VK11
KH 3/114 ** ELi 230 ES	G 1 1/4"	25	124	2-F05-VK11
KH 3/112 ** ELi 230 ES	G 1 1/2"	32	135	2-F05
KH 3/20 ** ELi 230 ES	G 2"	40	164	3-F05

* for dimensions and replace. actuators see page 315, ** please indicate switching position. See table below. (Standard position T1 or L)



Position	Standard	Option -FO	L borehole	T borehole				
	activated	non activated						
activated								
non activated								
Switching position			L	T1	T2	T3	T4	T5

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.