Stainless steel ball valves with electric rotary actuators — PN 63

TA LUFT

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, length according to DIN 3202-M3
Temperature range: -20°C to max. +180°C
Operating range: Water, oil, compressed air, vacuum (max. -0.9 bar), fuels, solvents, aggressive media
☞ **Optional:** Welding ends **-AS**, 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 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 (actuator size 6: 85 - 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. (actuator size 6: 34 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**

Type **230** 24-240V AC/DC (INOX)	Thread	DN	Install. length ball valve	Actuator size*
KH 14 ELi 230 ES	G 1/4"	10	60	2-F03
KH 38 ELi 230 ES	G 3/8"	12	60	2-F03
KH 12 ELi 230 ES	G 1/2"	15	75	2-F03
KH 34 ELi 230 ES	G 3/4"	20	80	2-F03
KH 10 ELi 230 ES	G 1"	25	90	2-F05-VK11
KH 114 ELi 230 ES	G 1 1/4"	32	110	2-F05-VK11
KH 112 ELi 230 ES	G 1 1/2"	38	120	2-F05
KH 20 ELi 230 ES	G 2"	50	140	3-F05
KH 212 ELi 230 ES	G 2 1/2"	65	185	4-F07
KH 30 ELi 230 ES	G 3"	80	205	4-F07
KH 40 ELi 230 ES	G 4"	100	240	6-F10

* for dimensions and replacement actuators see page 315

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

☞ **Order example:** KH 10 ELi 230 ES ** **
Standard type
Designation for the actuator options:
Regulating time 140 sec. . . . . **-140**
Battery Safety Return . . . . . **-BSR**
Designation for the ball valve options:
Welding ends . . . . . **-AS**

High pressure ball valves with electric rotary actuators — up to 500 bar

Ball valve
Materials: Housing: Zinc-plated steel, ball: Steel hard chrome-plated, ball seal: POM, selector shaft seal: NBR
Temperature range: -20°C to max. +100°C (G 1 1/4" - G 2": -10°C to max. +80°C)
Operating range: Hydraulic oil, heating oil (water only after release by us)
☞ **Optional:** Ball valve made of stainless steel AISI 316Ti **-ES**

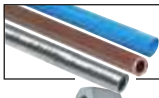
Rotary actuator
Electric rotary actuator with optical position indicator, manual emergency operation and switch room heating. Two additional limit switches are installed for further control requirements. An electronic torque limiting unit prevents damage in the event of overload. The manual emergency 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**

Type **230** 24-240V AC/DC	Thread	DN	Install. length ball valve	PN	Actuator size*
KH 14 HD ELi 230	G 1/4"	6	69	500 bar	2-F03
KH 38 HD ELi 230	G 3/8"	10	72	500 bar	2-F03
KH 12 HD ELi 230	G 1/2"	13	83	500 bar	2-F03
KH 34 HD ELi 230	G 3/4"	20	95	420 bar	2-F05
KH 10 HD ELi 230	G 1"	25	113	315 bar	3-F05
KH 114 HD ELi 230	G 1 1/4"	32	110	420 bar	4-F05
KH 112 HD ELi 230	G 1 1/2"	40	130	420 bar	4-F05
KH 20 HD ELi 230	G 2"	50	140	420 bar	4-F05-VK 17

* for dimensions and replacement actuators see page 315

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

☞ **Order example:** KH 14 HD ELi 230 ** **
Standard type
Designation for the actuator options:
Regulating time 140 sec. . . . . **-140**
Battery Safety Return . . . . . **-BSR**
Designation for the ball valve options:
Ball valve made of stainless steel . . . **-ES**


Aluminium, copper and steel pipes from page 250


Cutting ring fittings from page 77