

SKP

Pneumatic Actuator for Ball Valves

- ready mounted on ball valves
SKG01 or SKG02
- actuator single or double acting
- options: control valves, limit switches



Description:

The pneumatic part-turn actuator mounted on the SKG01 or SKG02 series ball valves enables the remote-controlled opening and closing of the ball valve.

The rotary actuator can optionally be equipped with 3/2-way or 5/2-way magnetic valves for electrical control.

Using the optional limit switches, feedback signals on the switching status of the ball valve can be sent to the control system.

Typical applications:

The ball valves with pneumatic actuator are used wherever pipelines are to be opened or closed automatically.

The short switching times (typical < 1 second) enable a fast reaction to the requirements of the respective process.

In contrast to magnetic valves, however, pressure peaks in the pipeline caused by water hammer are avoided.

Mode of Operation:

Actuator: single-acting
with spring forced closed (standard)
with spring forced open (option)
double-acting

Suitable for:
ball valve with threaded connection: see data sheet SKG01
ball valve with flange connection: see data sheet SKG02

Selection:

Process connection (G)	SKG01, with threaded connection							
	SKG01.1, 2/2-way				SKG01.4-5, 3/2-way			
	single-acting		double-acting		single-acting		double-acting	
	brass	st. st.	brass	st. st.	brass	st. st.	brass	st. st.
1/4	-	-	-	-	43	-	43	-
3/8	-	-	-	-	43	-	43	-
1/2	43	55	43	43	55	55	43	43
3/4	43	55	43	43	63	55	55	43
1	55	55	43	43	63	63	55	55
1 1/4	55	55	43	43	63	70	55	63
1 1/2	63	70	55	55	70	85	63	70
2	63	70	55	55	85	100	63	70
2 1/2	85	-	70	-	-	-	-	-
3	85	-	70	-	-	-	-	-
4	100	-	85	-	-	-	-	-

Process connection (DN)	SKG02, 2/2-way, with flange connection							
	SKG02.1, compact, PN 16				SKG02.4, standard, PN 16			
	single-acting		double-acting		single-acting		double-acting	
	steel	st. st.	steel	st. st.	cast iron	st. st.	cast iron	st. st.
15	55	55	43	43	-	55	-	43
20	55	55	43	43	-	55	-	43
25	63	63	43	43	63	63	43	55
32	63	63	55	55	63	85	55	55
40	70	70	55	55	70	85	55	63
50	70	70	63	63	70	100	63	70
65	85	85	70	70	85	127	70	85
80	100	100	85	85	100	127	85	85
100	127	127	100	100	127	143	100	100
125	127	127	100	100	127	185	100	127
150	163	163	127	127	163	210	127	143
200	210	210	163	163	210	-	163	185

Product Selection:

- select ball valve according to data sheet SKG01 or SKG02
example: SKG01.1.0.1.4.0
- select suitable actuator according to type code
example: SKP.ED.TM5-24.0
- complete order number:
SKG01.1.0.1.4.0.SKP.ED.TM5-24.0

Order Code:

Order number: SKP. ED. TM5-24. 0

Pneumatic actuator for ball valves

Mode of operation:

EE-Z = single-acting,
with spring forced closed (standard)
EE-A = single-acting,
with spring forced open (option)
ED = double-acting

Control valves (attached to part-turn actuator):

0 = without
TM3-24 = 3/2-way magnetic valve, 24 VDC,
(only for single-acting actuators)
TM3-230 = 3/2-way magnetic valve, 230 VAC,
(only for single-acting actuators)
TM5-24 = 5/2-way magnetic valve, 24 VDC,
(only for double-acting actuators)
TM5-230 = 5/2-way magnetic valve, 230 VAC,
(only for single-acting actuators)
S = special version

Options:

0 = without
S1 = 2 switches (for piston diameter 43...143 mm)
S2 = 2 switches (for piston diameter 163...210 mm)
9 = please specify in plain text

Technical Data:

Actuator

housing: aluminium, anodised
control medium: air, filtered, min. according to PNEUROP / ISO KI. 4
control pressure: 2–10 bar, recommended 6–8 bar
angle of rotation: 90°
torque: 5-300 Nm, depending on nominal size of ball valve
ambient temperature: –20...+80 °C (140 °C on request)

Control valves

material: aluminium housing
internal parts: brass, plastic
medium: air, 3–10 bar
air connection: G 1/4
electrical connection: cube plug acc. to DIN 43650
media temperature: –10...+70 °C

Limit switches:

version: electromechanical microswitches in plastic housing
2 x N/O / N/C
switching capacity: max 250 V, max 10 A
electrical connection: cable screw M20 x 1,5
ambient temperature: –20...+100 °C

