

SKP

Pneumatic Actuator for Ball Valves

- **Pneumatic actuator ready to use on ball valve SKG01 or SKG02**
- **Actuation single acting or double acting**
- **Options: control valve, limit switch**



Description:

The pneumatic actuator built on the ball valves of the model series SKG01 or SKG02 enables remote controlled opening and closing of the ball valve.

Optionally the actuator can be equipped with 3/2 way or 5/2 way magnetic valves for electric control.

By the use of an optional limit switch a feedback about the switching status of the ball valve can be given to the control system.

Applications:

The ball valves with pneumatic actuator are used in all situations, where pipelines should be opened or closed automatically.

The fast switching time (typically < 1 second) enable a fast reaction to the reactions of the specific process.

In contrast to solenoid valves the hydraulic shock in the pipeline will be avoided.

Mode of operation:

Actuator: Single acting
spring closed (standard)
spring opened (optionally)
double acting

Suitable for:
Ball valve with See data sheet
Threaded connection: SKG01

Ball valve with See data sheet
Flange connection: SKG02

Selection:

Process-connection	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. steel	Brass	St. steel	Brass	St. steel	Brass	St. steel
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, PN16				SKG02.4, standard, PN16			
	Single acting		Double acting		Single acting		Double acting	
	Steel	St. steel	Steel	St. steel	C. iron	St. steel	C. iron	St. steel
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:

1. Select ball valve acc. to data sheet SKG01 or SKG02
example: SKG01.1.0.1.4.0
2. Select suitable actuator acc. to ordering code
example: SKP.ED.TM5-24.0
3. Complete type reference:
SKG01.1.0.1.4.0.SKP.ED.TM5-24.0

Model Code:

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

Pneumatic actuator for ball valve

Mode of operation:

EE-Z = Single acting,
spring closed (standard)
EE-A = Single acting,
spring opened (optionally)
ED = Double acting

Control valve (built on actuator):

0 = Without
TM3-24 = 3/2 way solenoid valve, 24 VDC,
(only for single acting actuators)
TM3-230 = 3/2 way solenoid valve, 230 VAC
(only for single acting actuators)
TM5-24 = 5/2 way solenoid valve, 24 VDC,
(only for double acting actuators)
TM5-230 = 5/2 way solenoid valve, 230 VAC,
(only for double 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

Technical details:

Actuator:

Housing: Aluminium anodised
Control medium: Air filtered, min acc. to PNEUROP / ISO class 4
Control pressure: 2-10 bar,
recommended 6-8 bar
Rotation angle: 90°
Torque: 5-300 Nm depending on DN of the ball valve
Ambient temp.: - 20...+ 95 °C

Control valves:

Materials: Housing aluminium
Inner parts: Brass, plastic
Medium: Air, 3- 10 bar
Air connection: G 1/4
Elect. connection: Plug acc. to DIN 43650
Medium temp.: - 10...+ 70 °C

Limit switch:

Design: Electro mechanical micro switch in plastic housing
2 x N/O, N/C
Contact rating: Max. 250 V, max 10 A
Elect. connection: Cable screw M20 x 1,5
Medium temp.: - 20...+ 100 °C

