

Pneumatically actuated butterfly valves

Butterfly valves with pneumatic rotary actuators

PN 10/16

Butterfly valve

Materials: See ordering example (material codes)

Temperature range: See ordering example (material codes - sleeve)

Medium pressure: Max. 16 bar (DN 25: max 10 bar)

Media: Liquid and gaseous neutral media (depending on the material combination)

Lengths: DIN 3202 T3 K1, ISO 5752-Series 20, NF EN 558-1-Series 20, BS 5155 Table 6 Column 4, API 609 Table 1

Rotary actuator

Design: ATEX-compliant $\text{Ex II 2GD c 85}^\circ\text{C}$ (Actuators with size 12 or greater: $\text{Ex II 2GD c 110}^\circ\text{C}$)

Materials: Housing: Aluminium anodised, gear rack and piston: Aluminium, cover: Acetal resin, seal: NBR

Temperature range: -20°C to max. $+80^\circ\text{C}$

Control pressure: 6 - 10 bar (lower pressures upon request)

Optional: Manual emergency operation -HN



TIP Wiring diagram acc. to NAMUR with female thread!



Warning: In case of high media temperatures, the actuator must be cooled!

Type $\left\langle \begin{array}{ c c c } \hline \square & \square & \square \\ \hline \end{array} \right\rangle$	Type $\left\langle \begin{array}{ c c c } \hline \square & \square & \square \\ \hline \end{array} \right\rangle$	Type $\left\langle \begin{array}{ c c c } \hline \square & \square & \square \\ \hline \end{array} \right\rangle$	DN	Install. length	Actuator size*	
double acting	spring closing	spring opening			Double act.	Single act.
Intermediate flange						
KLZ 25/10** P ⁹⁾	KLZ 25/10** PFS ⁹⁾	KLZ 25/10** PFO ⁹⁾	25	32	6 (VK11)	6 (VK11)
KLZ 32/16** P ⁹⁾	KLZ 32/16** PFS ⁹⁾	KLZ 32/16** PFO ⁹⁾	32	32	6 (VK11)	6 (VK11)
KLZ 40/16** P ⁹⁾	KLZ 40/16** PFS ⁹⁾	KLZ 40/16** PFO ⁹⁾	40	32	6 (VK11)	6 (VK11)
KLZ 50/16** P	KLZ 50/16** PFS	KLZ 50/16** PFO	50	43	6 (VK11)	12 (VK11)
KLZ 65/16** P	KLZ 65/16** PFS	KLZ 65/16** PFO	65	46	6 (VK11)	12 (VK11)
KLZ 80/16** P	KLZ 80/16** PFS	KLZ 80/16** PFO	80	46	6 (VK11)	12 (VK11)
KLZ 100/16** P	KLZ 100/16** PFS	KLZ 100/16** PFO	100	52	12 (F07VK14)	25 (F07VK14)
KLZ 125/16** P	KLZ 125/16** PFS	KLZ 125/16** PFO	125	56	25 (F07VK14)	50 (VK14)
KLZ 150/16** P	KLZ 150/16** PFS	KLZ 150/16** PFO	150	56	25 (F07VK14)	50 (VK14)
KLZ 200/16** P	KLZ 200/16** PFS	KLZ 200/16** PFO	200	60	50 (VK14)	50 (VK14)
KLZ 250/16** P	KLZ 250/16** PFS	KLZ 250/16** PFO	250	68	90	130
KLZ 300/16** P	KLZ 300/16** PFS	KLZ 300/16** PFO	300	78	90 (F12VK22)	130 (F12VK22)
Mounted flange						
KLA 32/16** P ⁹⁾	KLA 32/16** PFS ⁹⁾	KLA 32/16** PFO ⁹⁾	32	32	6 (VK11)	6 (VK11)
KLA 40/16** P ⁹⁾	KLA 40/16** PFS ⁹⁾	KLA 40/16** PFO ⁹⁾	40	32	6 (VK11)	6 (VK11)
KLA 50/16** P	KLA 50/16** PFS	KLA 50/16** PFO	50	43	6 (VK11)	12 (VK11)
KLA 65/16** P	KLA 65/16** PFS	KLA 65/16** PFO	65	46	6 (VK11)	12 (VK11)
KLA 80/16** P	KLA 80/16** PFS	KLA 80/16** PFO	80	46	6 (VK11)	12 (VK11)
KLA 100/16** P	KLA 100/16** PFS	KLA 100/16** PFO	100	52	12 (F07VK14)	25 (F07VK14)
KLA 125/16** P	KLA 125/16** PFS	KLA 125/16** PFO	125	56	25 (F07VK14)	50 (VK14)
KLA 150/16** P	KLA 150/16** PFS	KLA 150/16** PFO	150	56	25 (F07VK14)	50 (VK14)
KLA 200/16** P ¹⁰⁾	KLA 200/16** PFS ¹⁰⁾	KLA 200/16** PFO ¹⁰⁾	200	60	50 (VK14)	50 (VK14)
KLA 250/16** P ¹⁰⁾	KLA 250/16** PFS ¹⁰⁾	KLA 250/16** PFO ¹⁰⁾	250	68	90	130
KLA 300/16** P ¹⁰⁾	KLA 300/16** PFS ¹⁰⁾	KLA 300/16** PFO ¹⁰⁾	300	78	90 (F12VK22)	130 (F12VK22)

* replacement actuators are found on page 310

** please enter the required material combination by means of the corresponding material codes

⁹⁾ not available in material combination AAA

¹⁰⁾ type KLA as of DN 200 with housing material GG 25 with flange connection PN 10



type KLZ (intermediate flange)



type KLA (mounted flange)



For more flange sizes see page 362.

Order example: KLZ 32/16 ** ** P **

Standard type

Designation for the options:

Manual emergency operation ..-HN

Material code - housing:

GG25 (standard, compressed air up to 4 bar) ..A
GGG40 (higher pressures and temperatures) ..B
Stainless steel (aggressive environment) ..C

Material code - washer:

GGG40 polyamide coated (standard)A
Stainless steel (water, abrasive media, food)B
Aluminium bronze (sea water)C
GG25 epoxy coated (water)D
Stainless steel halar coated (chemicals, pharmaceuticals)E
Stainless steel highly polished (chemicals, pharmaceuticals, food)F

Material code - sleeve:

EPDM (-10°C to max. $+110^\circ\text{C}$)A
NBR ($+5^\circ\text{C}$ to max. $+85^\circ\text{C}$)B
FKM ($+5^\circ\text{C}$ to max. $+180^\circ\text{C}$)C
EPDM white ($+8^\circ\text{C}$ to max. $+80^\circ\text{C}$)D
Hypalon ($+5^\circ\text{C}$ to max. $+90^\circ\text{C}$)E
Silicone (-10°C to max. $+200^\circ\text{C}$)F
NBR containing carboxyl ($+5^\circ\text{C}$ to max. $+110^\circ\text{C}$)G
PTFE/EPDM ($+5^\circ\text{C}$ to max. $+110^\circ\text{C}$)H
PTFE/silicone (-40°C to max. $+200^\circ\text{C}$)I

Technical data of material combinations can be found in the Online Shop

Butterfly valves for pressure levels PN 20/PN 25 can be found in the Online Shop



In our Online Shop you can find the butterfly valves offered here in the optional pressure levels PN 20 to PN 25.

Order example: KLZ */20** P

Standard type

Designation for the options:
PN 20-20
PN 25-25

Many additional products and sizes are available in our **Online Shop!**