

Pneumatically actuated ball valves

TIP Connection diagram acc. to NAMUR, with female thread!



for Namur connection and female thread



For more flange dimensions see page 262.

Compact flanged ball valves with pneumatic rotary actuators

PN 16/40

Ball valve

Materials: Housing: Steel, ball: AISI 316, seal: PTFE/FKM

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

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

Rotary actuator

Design: ATEX-compliant II 2GD c 85°C (Actuators with size 12 or greater: II 2GD c 110°C)

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

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

Temperature range: -20°C to max. +80°C

Optional: FKM seals -V



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

| Type | Type | Type | Install. length | | PN | Actuator size* | |
|----------------|-------------------|-------------------|-----------------|---------------|-------|----------------|-------------|
| double acting | spring closing | spring opening | DN | ball valve ±2 | | Double act. | Single act. |
| KHFLK 15/40 P | KHFLK 15/40 P FS | KHFLK 15/40 P FO | 15 | 39 | 16/40 | 2-F03 | 2-F03 |
| KHFLK 20/40 P | KHFLK 20/40 P FS | KHFLK 20/40 P FO | 20 | 44 | 16/40 | 2-F03 | 2-F03 |
| KHFLK 25/40 P | KHFLK 25/40 P FS | KHFLK 25/40 P FO | 25 | 49 | 16/40 | 2 | 6-F04 |
| KHFLK 32/40 P | KHFLK 32/40 P FS | KHFLK 32/40 P FO | 32 | 56 | 16/40 | 6-F04 | 6-F04 |
| KHFLK 40/40 P | KHFLK 40/40 P FS | KHFLK 40/40 P FO | 40 | 65 | 16/40 | 6 | 6 |
| KHFLK 50/40 P | KHFLK 50/40 P FS | KHFLK 50/40 P FO | 50 | 73 | 16/40 | 6 | 12 |
| KHFLK 65/16 P | KHFLK 65/16 P FS | KHFLK 65/16 P FO | 65 | 94 | 16 | 12-F07 | 12-F07 |
| KHFLK 80/16 P | KHFLK 80/16 P FS | KHFLK 80/16 P FO | 80 | 116 | 16 | 25-F07 | 25-F07 |
| KHFLK 100/16 P | KHFLK 100/16 P FS | KHFLK 100/16 P FO | 100 | 140 | 16 | 50-F10 | 50-F10 |

* for dimensions and replacement actuators see page 310

Order example: KHFLK 15/40 P **

Standard type

Designation for the actuator options:
FKM seal-V

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TIP Connection diagram acc. to NAMUR, with female thread!



for Namur connection and female thread



For more flange dimensions see page 262.

Stainless steel compact flanged ball valves with pneumatic rotary actuators PN 16/40

Ball valve

Materials: Housing: AISI 316, ball: AISI 316, seal: PTFE

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

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

Rotary actuator

Design: ATEX-compliant II 2GD c 85°C (Actuators with size 12 or greater: II 2GD c 110°C)

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

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

Temperature range: -20°C to max. +80°C

Optional: FKM seals -V



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

| Type | Type | Type | Install. length | | PN | Actuator size* | |
|-------------------|----------------------|----------------------|-----------------|------------|-------|----------------|-------------|
| double acting | spring closing | spring opening | DN | ball valve | | Double act. | Single act. |
| KHFLK 15/40 P ES | KHFLK 15/40 P FS ES | KHFLK 15/40 P FO ES | 15 | 42 | 16/40 | 2-F03 | 2-F03 |
| KHFLK 20/40 P ES | KHFLK 20/40 P FS ES | KHFLK 20/40 P FO ES | 20 | 44 | 16/40 | 2-F03 | 2-F03 |
| KHFLK 25/40 P ES | KHFLK 25/40 P FS ES | KHFLK 25/40 P FO ES | 25 | 50 | 16/40 | 2 | 6-F04 |
| KHFLK 32/40 P ES | KHFLK 32/40 P FS ES | KHFLK 32/40 P FO ES | 32 | 60 | 16/40 | 6-VK11 | 6-VK11 |
| KHFLK 40/40 P ES | KHFLK 40/40 P FS ES | KHFLK 40/40 P FO ES | 40 | 65 | 16/40 | 6 | 6 |
| KHFLK 50/40 P ES | KHFLK 50/40 P FS ES | KHFLK 50/40 P FO ES | 50 | 80 | 16/40 | 12 | 12 |
| KHFLK 65/16 P ES | KHFLK 65/16 P FS ES | KHFLK 65/16 P FO ES | 65 | 110 | 16 | 12-F07 | 12-F07 |
| KHFLK 80/16 P ES | KHFLK 80/16 P FS ES | KHFLK 80/16 P FO ES | 80 | 120 | 16 | 25-F07 | 25-F07 |
| KHFLK 100/16 P ES | KHFLK 100/16 P FS ES | KHFLK 100/16 P FO ES | 100 | 150 | 16 | 50-F10 | 50-F10 |

* for dimensions and replacement actuators see page 310

Order example: KHFLK 15/40 P ES **

Standard type

Designation for the actuator options:
FKM seal-V



NAMUR valves and NAMUR throttles on page 416



Push-in fittings Ø 3 - 32 mm from page 24



Stainless steel pipe from page 253



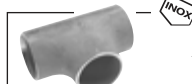
PTFE flat sealing tape on page 265



Flanges and flange seals from page 263



Flanges from page 260



Butt weld fittings from page 254



Compensators from page 264

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.