

Type LDK butterfly valves

for systems handling air in
accordance with DIN 24154,
Pt. 2, Series 2



General

Our Type LDK butterfly valves are available in both inter-flange and flanged versions.

The valves should always be installed with the spindle in the horizontal position as from DN 200.

Face-to-face lengths: Manufacturer's standard, special designs possible

Spindle seal: Gland packing, O-sealing rings

Special spindle seal type:

Gland packing with sealing-air feed system or self-adjusting versions featuring cup-springs

Operating data:

For clamp-fitting between flanges as per DIN 24154, Pt. 2, Series 2

(Type LDK-1)

or with flanges as per DIN 24154, Pt. 2, Series 2 **(Type LDK-4)**

Suitable for temperatures from -40 °C to + 1,000 °C, depending on materials selected

Temperature gradations, standard:

$t < 100\text{ °C}$, $100\text{ °C} < t < 350\text{ °C}$, $350\text{ °C} < t < 450\text{ °C}$, $t > 450\text{ °C}$

Permissible pressure (abs.) 1.1 bar, please enquire regarding higher pressures

Actuation modes:

Manual:

Standard, with ratchet adjustment, damper can be locked in at least 16 positions

Infinitely adjustable fine positioning (SFD-6) (light-weight type)

Locking by means of wing-bolt, acting on the spindle

Infinitely adjustable fine positioning (RDST-32) (heavy-duty type)

Locking by means of clamping of the adjusting lever

Worm-gear actuation systems

Handwheels (chain-wheels)



Motor operation:

electrically operated control and positioning systems

for all voltages, including those with spring-operated return systems

Pneumatically operated rotary actuator systems and rams

double and single-action

Hydraulically operated actuator systems

also suitable for flameproof designs,

suitable accessories:

*End-position switches, proximity initiators,
positioning actuators, position transducers*

Please state operating pressure, fluid, operating temperature, differential pressure, DN and PN when ordering
Betriebstemperatur, Differenzdruck, DN

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Materials: (Standard)

Type LDK-1 E/E

Body, up to DN 630	GG 25
Body, as from DN 710	St 37
Disk	St 37
Spindle	St 37
Handle, scale	GG 25

Typ: LDK-4 E/E

Gehäuse	St 37
Scheibe	St 37
Welle	St 37
Griff, Skala	GG-25

Typ LDK-1 E/S

Body, up to DN 630	GG-25
Body, as from DN 710	St 37
Disk	St 37
Spindle	1.4021
Handle, scale	GG-25

Typ: LDK-4 E/S

Body	St 37
Disk	St 37
Spindle	1.4021
Handle, scale	GG-25

Typ LDK-1 E/V

Body, up to DN 630	GG-25
Body, as from DN 710	St 37
Disk	1.4301
Spindle	1.4021
Handle, scale	GG-25

Typ: LDK-4 E/V

Body	St 37
Disk	1.4301
Spindle	1.4021
Handle, scale	GG-25

**Other materials
available on request**

Typ LDK-4 V/V

Body	1.4301
Disk	1.4301
Spindle	1.4305

Sealing modes in the valve passage

Valve disk contoured closure type
flat-contact type (LDK-1 only,
up to max. 90 °C and DN 315)
Body seat ring
Body seat ring with flexible sealing
insert sheathed on three sides
(LDK-4 only)

Corresponding leakage rates

approx. 2 % of kv 90°
approx. 0.5 % of kv 90°
approx. 0.5 % of kv 90°
approx. 0.05 % of kv 90°

**Where not specified to the contrary, we supply the LDK-1
annular-body butterfly valves up to DN 315 in flat-contact type
form (max. 90 °C) and in slightly contoured closure form as from
DN 355; Flanged Type LDK-4 in slightly contoured closure form.**

**Please refer to our catalogue for further control and isolating and
shut-off dampers. Special designs with ceramic lining, etc.,
on request.**