





MANUAL LEVER
Our ergonomic thermal protection handle in the plastic black/red design. Other colours are available on request. A stainless steel handle is also available.

Content

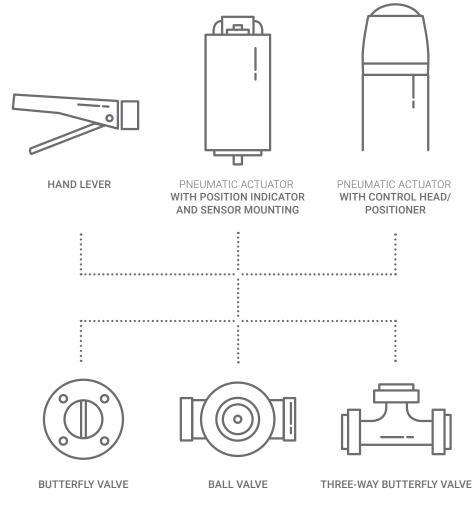
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KIESELMANN stainless steel valves:

Highest quality in dimensional accuracy and surface finish. All sealing elements used have the necessary approvals for the food industry. The modular design of our valves allows quick and easy switching from a manual lever to a pneumatic actuator with sensors or control head.





BUTTERFLY VALVES

The space-saving solution

KIESELMANN butterfly valves are the space-saving solution for shutting off product flows in process systems such as on panels and tanks in a hygienic and inexpensive way. They are also available as intermediate flange butterfly valves as well as numerous other connection variants, such as welding and threaded ends. We manufacture all valves at our headquarters in Knittlingen.



The sealing elements used all have suitability certifications for use in the food industry.

The ergonomic thermal protection handle of our butterfly valves is available with a 90° lock or optionally with shift limit. Alternatively, these valves are also available with a stainless steel handle.

Automatically cost-effective

Automation is also possible with this cost-effective valve solution. Our modular system makes it possible to quickly and inexpensively convert the manual lever to a pneumatic actuator without disconnecting any pipeline connections to the pipeline. The actuators are available with sensors or control head KI-TOP.

DOCUMENTATION

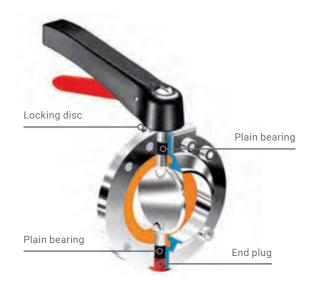
Here you can download all important data, information and certificates about our products as PDF files.

TECHNICAL DATA				
Sizes butterfly valve	DN 10-150/1"-4"			
Sizes intermediate flange butterfly valve	DN 15-200/1"-4"			
Materials in product contact	1.4301/AISI 304 1.4307/AISI 304L 1.4404/AISI 316L			
Seals	EPDM (SIP 140 °C, 30 min) HNBR (SIP 100 °C, 30 min) VMQ (SIP 100 °C, 30 min) FKM (SIP 90 °C, 30 min)			
Surfaces in product contact	Ra ≤ 0,8 µm			
Operating pressure DN 10-65/1"-2½" DN 80-100/3"-4" DN 125 DN 150 DN 200**	16 bar* 10 bar 6 bar 6 bar 6 bar 6 bar			
Operating temperature	EPDM (95 °C) HNBR (90 °C) VMQ (40 °C) FKM (90 °C)			
Control air	5.5-8 bar Lower control air pressures possible			
Connection variant	Welded, threaded, flange, clamp and conical socket/ nut connection			

- * Valves with flanged connection PN10 may only be operated with an operating pressure of up to 10 bar.
- ** Nominal size only available as intermediate flange butterfly valves.

ADVANTAGES

- > Ergonomic thermal protection handle, 90° lock or optional shift limit
- Standard or shortened handle design, fiberglass (reinforced plastic material), available in your choice of colours or stainless steel
- > Vacuum insert suitable
- > Easy installation, many connection options
- > Three-way butterfly valves with switching combinations
- > Service-friendly intermediate flange design
- > Tailor-made and long-term spare parts supply





LEAKAGE BUTTERFLY VALVES

Secure and adaptive

KIESELMANN leakage butterfly valves provide increased process security. Mix-proof separation of different media is ensured via the dual-sealing, one-piece valve disc. Runoff-drains allow direct detection of any leaks. Identified, eliminated: Thanks to our maintenance-friendly valve design. The drains can also function as rinse connections, ideal for Cleaning-in-Place (CIP) processes.

KIESELMANN leakage butterfly valves are generally available in intermediate flange version.

This design and the split housing allow the seals to be easily and quickly replaced.

Functional principle

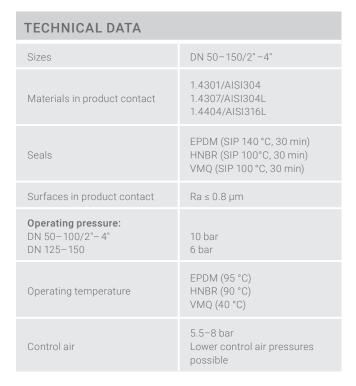
When closed, the butterfly valve with a tandem seal ensures that different media remain separated without leaking.

Any leaks at the butterfly valve seal flow without pressure through the leakage drain port at the leakage outlets.

The leakage chamber can be integrated into a CIP circuit via the rinsing connections. For demanding products, we generally recommend cleaning the leakage chamber.

3			
Leakage drain ring-groove		Pla	in bearing
Leakage drain	1		

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ADVANTAGES

- > Cost-effective leakage protection
- > Sealing materials EPDM, HNBR
- > Hygienically safe due to easy cleaning of the leakage chamber, CIP appropriate
- > Easy-to-maintain design with just one sealing element



PRODUCT VIDEO

Visit us on YouTube. Get to know the functions of our leakage butterfly valves.



BALL VALVES

A nice piece of work

KIESELMANN straight-way ball valves provide pipe-level, piggable passages for liquid, viscous and particulate media. Your solution for almost all applications in the beverage and food industry.





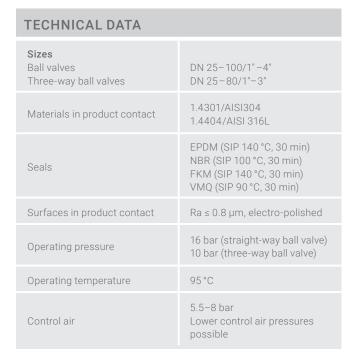
Safe, robust and flexible: Three-way ball valves from KIESELMANN offer additional options for process control.

The best solution for every requirement

KIESELMANN three-way ball valves have been used successfully in the beverage and food industry for many years.

KIESELMANN ball valves are easily adaptable: Our intelligent modular system makes it easy to switch from a manual lever to an automated, pneumatic actuator at any time. The actuators of the ball valves can be equipped with a sensor or control head.







ADVANTAGES

- > Robust, designed to be easy to install
- > Spring preloaded shaft seal
- > Piggable

Optional:

- > Full PTFE cavity fillers with minimal clearance volume
- > Rinsing connections for cleaning
- > Heating jacket



Automate valves easily. The modular design of the KIESELMANN valves makes it possible to convert from a manual lever to a pneumatic actuator at any time. Our actuators are equipped with mechanical position indicator, sensor mounting and compressed air connection.

Power & brains: Actuators with KI-TOP control heads.

Our control heads already contain control electronics and pilot valves. They support all common communication interfaces, such as PLC, AS-i and IO-Link, and can be connected via various ways, such as cable entry or M12 connectors.

The connection to the supply air is made by compressed air quick connector on the control head.

The control board can be fitted with an LED all-round display. For optimal visual control.

Extra safe in Ex-zones

In areas with highly flammable and explosive substances, such as spirits, our TÜV tested control heads ensure maximum safety. Two versions are available: Zones 1 and 21 as well as 2 and 22, which comply with Directive 2014/34/EU.





OPERATION

Manual lever

The handy way.

The KIESELMANN thermal protection handles fit well in your hand and are easy and safe to operate. The handles are available with a 90° lock or with shift limit. Optional also as stainless steel hand lever.



ADVANTAGES

- > Ergonomic thermal protection handle (also in colour of choice)
- > Different sizes depending on nominal diameter

PNEUMATIC ACTUATOR

in three sizes

The actuators PDA 75, PDA 100 and PDA 125

provide the perfect performance for your processes. The flexibility of our modular valves is also continued with our actuators. They are compatible with all KIESELMANN rotary valves and can be exchanged in a few simple steps.

PNEUMATIC ACTUATOR

with position indicator and sensor mounting

The actuator has the position indicator with sensor mounting. The installation of inductive sensors with M12x1 thread can be used to query the "open" and "closed" positions. By screwing the sensor to the limit position the required switching gap for the signal transmission is established.





When the valve is closed, the position indicator is at 90° angle from the valve passage, and when the valve is open it is even to the valve passage.

ADVANTAGES

- > Three actuator sizes PDA 75/100/125
- > Five year warranty
- > Three functions can be chosen
 - · air-opening air closing
 - · air-opening spring closing
 - spring opening air closing

ADVANTAGES

- > Standard delivery: Actuator with position indicator and sensor mounting
- > Precise positioning of the sensors, no adjustment required
- > Clearly visible optical position indicator

PNEUMATIC ACTUATOR

with control head KI-TOP

The alternative to the central control cabinet: The digital control head KI-TOP with automation components. The integrated electronics controls the solenoid valve, detects status and returns it. The control heads consist of a bottom part with bayonet lock and a plastic or stainless steel cover (protection class IP 65).

PNEUMATIC ACTUATOR

with positioner

Positioners offer the highest flexibility in metering and flow reduction. They are the intelligent solution for cost-effectively implementing simple control tasks with butterfly valves. For high control accuracy, the control valve series is the right choice.



Visual control of the valve position e. g. green = open, red = closed, flashing = shift.





Control head KI-TOP, ASi ES with selective emergency stop (optional) and two freely assignable control inputs.







For precise, safe process control: our control valves with digital, electropneumatic positioner.

Electro-pneumatical positioner 8615.

ADVANTAGES

- > Precise position monitoring, optionally with automatic learn mode
- Control and indication of up to four valve positions
- > Fully automatic
- > Optional: LED all-round display











ADVANTAGES

- > Regulation of volume flows
- > Space-saving
- > Cost-effective
- > Can be used for simple regulation



KIESELMANN WORKSHOP

In this video we show you the simple installation of a positioner on a KIESELMANN actuator.



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