



Key features

At a glance

The new configurator supports you with requests for customised process valve units, and supports the engineering department with

Innovative

- The new configurator provides support throughout the entire process, from searching for products to ordering
- Configuration, sizing, documentation, RFQ, ordering and delivery of the process valve unit are combined in a single tool

Possible variants

Butterfly valve type, wafer

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Hand lever



processing these requests. It is now possible to find, select, size and order process valve units without waiting times. Access to

Function

- Direct link to the Festo Online Shop
- User-friendly user interface
- Advice on solutions
- Specific 2D/3D CAD files available for download after configuration
- Configuration-compatible bill of materials available for download
- Delivery date query possible

prices and delivery times is provided immediately after configuration. Configuration-compatible data sheets are also available, as well as 2D -CAD data and 3D -CAD models in many native and neutral formats. The complete units of course also come with certificates.

FESTO

Butterfly valve type, lug



Quarter turn actuator



·O· New

Butterfly valve units KVZA Key features

FESTO

Possible variants Quarter turn actuator, pilot valve



Quarter turn actuator, opto-electronic sensor box



Quarter turn actuator, pilot valve, sensor box



Quarter turn actuator, pilot valve, optical position indicator



Quarter turn actuator, sensor box



Quarter turn actuator, optical position indicator



Quarter turn actuator, pilot valve, opto-electronic sensor box



Quarter turn actuator, positioner



Ordering data – Product options



Configurable product This product and all its product options can be ordered using the configurator.

The configurator can be found under Products on the DVD or → www.festo.com/catalogue/...

Part No. Type code 8073655 KVZA



Butterfly valve units KVZA Peripherals overview using a sample configuration



Butterfly valve units KVZA Peripherals overview using a sample configuration

Syst	em components		
		Brief description	→ Page/ Internet
1	Butterfly valves VZAV	In wafer or lug versions, in nominal widths DN25 DN300, with connection standards DIN EN 1092-1 or ASME B 16.5 Class 150	vzav
2	Butterfly valves VZAF	In wafer or lug versions, in nominal widths DN25 DN300, with connection standards DIN EN 1092-1 or ASME B 16.5 Class 150	vzaf
3	Hand lever VAOH	For manual actuation of butterfly valves, with lock, detenting in 10 positions	vaoh
4	Reducing sleeve squares DARQ-R	For adjustment of butterfly valves	darq
5	Mounting kits DARQ-K	For connecting quarter turn actuators and butterfly valves	darq
6	Quarter turn actuators DFPD	In single-acting or double-acting version, features a rack and pinion combination with a constant torque characteristic across the entire swivel range, connection pattern to VDI/VDE 3845	dfpd
7	Solenoid valves VSNC	Pilot valves with solenoid coils VACF for single-acting and double-acting quarter turn actuators with a connection pattern to VDI/VDE 3845, conversion from 3/2-way to 5/2-way valve simply by turning the seal	vsnc
8	Sensor boxes SRBC	For electrical position feedback and monitoring the position of process valves, with mounting adapter, sturdy, corrosion-resistant design, clearly visible 3D position indicator allows rapid detection of the current position of the quarter turn actuator	srbc
9	Position indicators SASF	The compact solution, direct mounting means that they require minimal space, with four fixed actuating lugs at intervals of 90°	sasf
10	Sensor boxes SRBG	For electrical position feedback and monitoring the position of process valves, mounted directly without other accessories on quarter turn actuators with connection pattern to VDI/VDE 3845, with M12 plug or terminal rail connection	srbg
11	Positioners CMSX	Based on the PID control algorithm, for controlling the position of single-acting and double-acting pneumatic quarter turn actuators, with mechanical interface to VDI/VDE 3845	cmsx



System components



·O· New

Butterfly valve units KVZA System components

System components Butterfly valve type	Description	Technical data
	 Wafer With centring holes for installation between two pipe flanges, extremely lightweight housing Lug With threaded flange holes for installation between two pipe flanges or at the end of a pipeline, one-sided disconnection possible 	 Nominal diameter DN25 DN300 Nominal diameter 1" 12"
Shut-off element material		
	 Ductile cast iron, PA coated Ductile cast iron with polyamide coating is used to refine and protect metallic surfaces, is highly resistant to wear and exhibits excellent insulation properties Stainless steel, PFA coated The perfluoroalkoxy alkane coating is resistant to aggressive organic and inorganic chemicals as well as solvents across a wide temperature range Stainless steel Suitable for extracting almost all organic fluids, 50% caustic soda up to 90 °C, cathodic dip coating, pure phosphoric acid, dry chlorine, liquid sulphur, PSA and many other media 	 Ductile cast iron EN-GJS-400-15, PA coated 250 μ Stainless steel 1.4408, PFA coated Stainless steel 1.4408
Sealing element material		
	 EPDM Resistant to acids and alkalis, water, hot water and vapour, not resistant to oil and grease NBR Can be used for oils, greases, fuel, oil gas, CO2, CO and H2 PTFE/silione Excellent chemical resistance, electrical properties, great resistance to high and low temperatures, and exceptional adhesion and flame resistance, with silicone base layer for standard applications 	
Node of operation		
	 Double-acting The double-acting quarter turn actuator requires compressed air for every direction of movement. In this operating mode, the torque for opening or closing the process valve is generated purely via the compressed air Single-acting In the single-acting quarter turn actuator, the incoming compressed air moves 	
	the piston in one direction. This generates the torque of the actuator. At the same time, the springs installed in the actuator are pretensioned. This spring force generates torque in the opposite direction of rotation when the pressure chambers of the actuator are exhausted. This causes the process valve to move to the required initial position	

Butterfly valve units KVZA System components

System components	Description	Technical data		
Safety function				
	 Closing In the event of a system crash (failure of the operating voltage supply or compressed air), the process valve is closed. Opening In the event of a system crash (failure of the operating voltage supply or compressed air), the process valve is opened. Maintain position In the event of a system crash (failure of the operating voltage supply or compressed air), the process valve is opened. 			
Operating pressure	the quarter turn actuator must be pressurised on both sides.			
	The operating pressure available for actuating the quarter turn actuate	or. • 2 8 bar		
Safety factor				
Closing torque factor	The specification of a safety factor is recommended when configuring a turn actuator because this increases the torque reserve available.Pipeline mediumSafety factorBall valvesButterfly valvesLiquid1.21.35Sticky/viscous1.61.75Gaseous1.51.5			
	 Specification is optional The torque required for actuating the process valve is at its greatest at the start of the movement (breakaway torque). The closing torque of the process valve may be smaller than the breakaway torque under certain conditions. If this difference is known, it can be taken into account by specifying a closing torque factor. 			
High corrosion resistance				
	Higher corrosion resistance through epoxy coating of the pneumatic quarter turn actuator, the drive shaft is stainless steel.			
Nominal operating voltage				
	Configuration-dependent specification required, e.g. when selecting a indicator or a pilot valve.	position • 24 V DC • 250 V AC • 110 V AC/50 60 Hz		

- Butterfly valves nominal diameter DN25 ... DN300 or 1" ... 12"
- Swivel angle 0 ... 90°
- Medium pressure 10 ... 16 bar
- Operating pressure 2 ... 8 bar
- Safety factor 0 ... 2



General technical data					
Product weight	[kg]	1 140			
Operating and environn	nental conditions				

operating and environmental conditions			
Note on materials	Contains paint-wetting impairment substances		
	RoHS-compliant		