

## Operating instructions for automatic shut-off valves for gaseous fuels as equipment with safety function

### Scope of application:

These operating instructions are a supplement to the "general operating instructions" and also apply to the DIN EN 16678:2024-02 type-tested valves. The general operating instructions can be found on the Internet at www.co-ax.com and must also be observed when installing the valves !

### Manufacturer and service address:

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 Friedrich-Müller-Straße 1      Fax: 07947-828-11  
 D-74670 Forchtenberg      e-mail: info@co-ax.com      Internet: www.co-ax.com

**Product type:** Gas armatures, 2/2-way shut-off valves with electromagnetic actuator, de-energised, closed by spring force

### Type designations / technical and electrical data:

Designation	Certificate Number	Class	Technical data					Electrical data		
			Nominal pressure	Nominal width	Temperature range	Operating pressure	Mounting position	Voltages	Nominal frequency	Protection class
MK 15 NC (E/2E)	Z-IS-TAF-MUC-24-07-	A	PN 40 bar	DN 15	-15 °C to +80 °C	max. 40 bar	any	24, 48, 60, 98, 110, 125, 200, or 220 VDC / 110, 230, 240 VAC	40 - 60 Hz	IP 65
FK 15 NC (E/2E)	2652116-05080516	A	PN 40 bar	DN 15	-15 °C to +80 °C	max. 40 bar	any			
MK 15 NC - Hd (E/2E)	Z-IS-TAF-MUC-24-07-	A	PN 40 bar	DN 15	-15 °C to +80 °C	max. 40 bar	any	24, 48, 60, 98, 110, 125, 200, or 220 VDC / 110, 230, 240 VAC	40 - 60 Hz	IP 65
FK 15 NC - Hd (E/2E)	2652116-05080516	A	PN 40 bar	DN 15	-15 °C to +80 °C	max. 40 bar	any			
MK 20 NC (E/2E)	Z-IS-TAF-MUC-24-07-	A	PN 40 bar	DN 20	-15 °C to +80 °C	max. 40 bar	any	24, 48, 60, 98, 110, 125, 200, or 220 VDC / 110, 230, 240 VAC	40 - 60 Hz	IP 65
FK 20 NC (E/2E)	2652116-05080516	A	PN 40 bar	DN 20	-15 °C to +80 °C	max. 40 bar	any			
MK 20 NC - Hd (E/2E)	Z-IS-TAF-MUC-24-07-	A	PN 40 bar	DN 20	-15 °C to +80 °C	max. 40 bar	any	24, 48, 60, 98, 110, 125, 200, or 220 VDC / 110, 230, 240 VAC	40 - 60 Hz	IP 65
FK 20 NC - Hd (E/2E)	2652116-05080516	A	PN 40 bar	DN 20	-15 °C to +80 °C	max. 40 bar	any			
MK 25 NC (E/2E)	Z-IS-TAF-MUC-24-07-	A	PN 40 bar	DN 25	-15 °C to +80 °C	max. 40 bar	any	24, 48, 60, 98, 110, 125, 200, 210 or 220 VDC, / 110, 230, 240 VAC	40 - 60 Hz	IP 65
FK 25 NC (E/2E)	2652116-05080516	A	PN 40 bar	DN 25	-15 °C to +80 °C	max. 40 bar	any			

### Explanations:

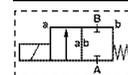
MK: Connections with female thread  
 FK: Connection with flange  
 15: Nominal width, DN 15 mm  
 NC: Valve closed without tension by spring force  
 Hd: manual emergency actuation  
 E: Version with 1 proximity switch  
 2E: Version with 2 proximity switches

### Special conditions:

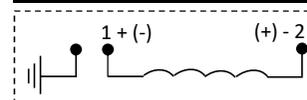
- **Dirt trap:** A dirt trap must be installed at the inlet of the valve, with a mesh size of < 1.0 mm ! From valve type size MK/FK25, the dirt trap must be accessible for cleaning or replacement without having to remove the valve.

- **Electrical connection:** The connection cable used must be suitable for be suitable for a temperature range from -15 °C to +125 °C !

### Fluid symbol:



### Electrical connection assignment:



### Temperature ranges:

- The above-mentioned valves tested in accordance with DIN EN 16678:2024-02 can be operated in the temperature range from -15 °C to +80 °C

### Flow media:

Gaseous fuels, class A, group 2