

Operating instructions for series of safety shut-off valves for liquid fuels as equipment with safety function

Scope:

This operating instructions for approved valves are a supplement to the "general operating instructions". The general operating instructions can be found on the Internet at www.co-ax.com and must be observed when installing the valves !

Manufacturer and service address:

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Product type: Series of safety shut-off valves for liquid fuels as equipment with safety function - Type: MK/FK (test basis DIN EN ISO 23553-1: 2022-12 and E DIN 32725:1993-03)

Type designations / technical and electrical data:

Designation	Certificate number	Technical data							Electrical data		
		Connections	Fluid	Nominal pressure	Nominal width	Temperature range	Operating pressure	Mounting position	Voltages	Nominal frequency	Protection class
MK 10 NC MK 10 NO	Z-IS-TAF-MUC-24-07- 2652116-05074305	G 1/4, G 3/8 G 1/2, G 3/4	Heating oil EL, M, S and liquid gas	40 bar	DN 10	max. + 140 °C	max. 40 bar	any	24 VDC and 230 VAC	40 - 60 Hz	IP 65
MK 15 NC MK 15 NO	Z-IS-TAF-MUC-24-07- 2652116-05074305	G 3/8, G 1/2 G 3/4, G 1	Heating oil EL, M, S and liquid gas	40 bar	DN 15	max. + 140 °C	max. 40 bar	any	24 VDC and 230 VAC with separate rectifier	40 - 60 Hz	IP 65
FK 15 NC FK 15 NO	Z-IS-TAF-MUC-24-07- 2652116-05074305	Flange connection	Heating oil EL, M, S and liquid gas	40 bar	DN 15	max. + 140 °C	max. 40 bar	any	24 VDC and 230 VAC with separate rectifier	40 - 60 Hz	IP 65
MK 15 DR FK 15 DR	Z-IS-TAF-MUC-24-07- 2652116-05074305	G 3/8, G 1/2, G 3/4, G 1 Flanschanschluss	Heating oil EL, M, S and liquid gas	40 bar	DN 15	max. + 140 °C	max. 40 bar	any	24 VDC and 230 VAC with separate rectifier	40 - 60 Hz	IP 65
MK 20 NC MK 20 NO	Z-IS-TAF-MUC-24-07- 2652116-05074305	G 3/4, G 1 G 1 1/4	Heating oil EL, M, S and liquid gas	40 bar	DN 20	max. + 140 °C	max. 40 bar	any	24 VDC and 230 VAC with separate rectifier	40 - 60 Hz	IP 65
FK 20 NC FK 20 NO	Z-IS-TAF-MUC-24-07- 2652116-05074305	Flange connection	Heating oil EL, M, S and liquid gas	40 bar	DN 20	max. + 140 °C	max. 40 bar	any	24 VDC and 230 VAC with separate rectifier	40 - 60 Hz	IP 65
MK 20 DR FK 20 DR	Z-IS-TAF-MUC-24-07- 2652116-05074305	G 3/4, G 1, G 1 1/4 Flanschanschluss	Heating oil EL, M, S and liquid gas	40 bar	DN 20	max. + 140 °C	max. 40 bar	any	24 VDC and 230 VAC with separate rectifier	40 - 60 Hz	IP 65
FK 25 NC	Z-IS-TAF-MUC-24-07- 2652116-05074305	Flange connection	Heating oil EL, M, S and liquid gas	40 bar	DN 25	max. + 140 °C	max. 40 bar	any	24 VDC and 230 VAC with separate rectifier	40 - 60 Hz	IP 65
FK 25 DR	Z-IS-TAF-MUC-24-07- 2652116-05074305	Flange connection	Heating oil EL, M, S and liquid gas	40 bar	DN 25	max. + 140 °C	max. 40 bar	any	24 VDC and 230 VAC with separate rectifier	40 - 60 Hz	IP 65

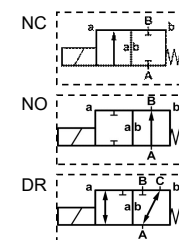
Explanations:

MK: Connections with female thread
 FK: Connection with flange
 15: Nominal width in mm e.g. DN 15 mm
 NC: Valve closed without current by spring force
 NO: Valve open without current by spring force
 DR: 3/2 Directional valve

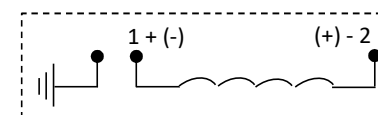
Special Conditions:

- Strainer: A strainer must be installed at the inlet of the valve, whose mesh size is max. 0.5 mm !
 From valve type MK/FK25, MK/FK25 DR onwards, the strainer must be accessible for cleaning or replacement without removing the valve.

Fluid symbol:



Electrical connection assignment:



Permissible viscosities of the above oil grades at room temperature:

1 bis 82.000 mm²/s (cSt)

Nominal flow rate at pressure difference 1 bar, at room temperature:

MK10: 2,5 m³/h MK15 / FK15: 4,8 m³/h MK15 DR / FK15 DR: 4,3 m³/h MK20 / FK20: 7,4 m³/h MK20 DR / FK20 DR: 6,7 m³/h FK25: 11,2 m³/h FK25 DR: 11,2 m³/h