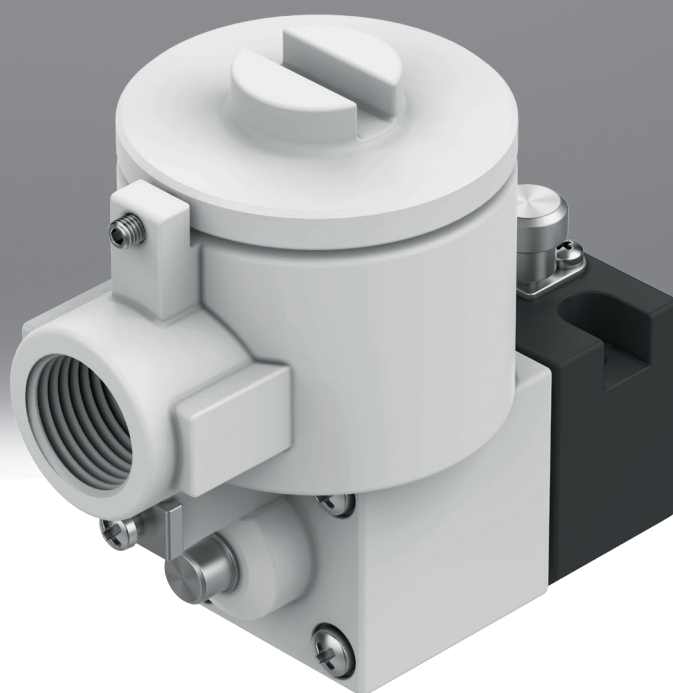


Standards-based valve CNOMO

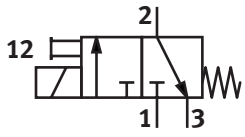
FESTO



Characteristics

Valve function

[32] 3/2-way valve



Datasheet

General technical data, type EX

Valve function	3/2-way, closed, monostable
Type of actuation	Electric
Design	On/off valve
Type of reset	Mechanical spring
Manual override	Detenting
Flow direction	Non-reversible
Type of mounting	CNOMO

Operating and environmental conditions, type EX

Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]
Note on operating and pilot medium	Lubricated operation possible (in which case lubricated operation will always be required)
Operating pressure	-0.09 ... 0.8 MPa
Operating pressure	-0.9 ... 8 bar
Operating pressure	-13.05 ... 116 psi
CE mark (see declaration of conformity) ¹⁾	To EU Explosion Protection Directive (ATEX)
Explosion protection certification outside the EU	EPL Da (CN) EPL Da (IECEX) EPL Db (CN) EPL Db (IEC-EX) EPL Ga (CN) EPL Ga (IEC-EX) EPL Gb (CN) EPL Gb (IECEX)
Certificate issuing authority	ATEX: CML 15 ATEX 1119X ATEX: CML 17 ATEX 2046X CCC-Ex: 2020322307001701 CCC-Ex: 2020322307001726 IEC: IECEX CML 17.0030X IEC: IECEX CML 17.0147X
Degree of protection	IP65 IP66
Insulation material class	H
Corrosion resistance class CRC ²⁾	2 - Moderate corrosion stress
Ambient temperature	-20 ... 80°C
Explosion ambient temperature	-40°C ≤ Ta ≤ 50°C/65°C ATEX: -65°C ≤ Ta ≤ +40°C ATEX: -65°C ≤ Ta ≤ +55°C CCC-Ex: -20°C ≤ Ta ≤ +40°C
ATEX category gas	II 1G II 2G
Explosion ignition protection type for gas	ATEX: Ex db IIC T4 Gb ATEX: Ex db IIC T5 Gb CCC-Ex: Ex d IIC T3/T6 Gb Ex ia IIC T6...T5 Gb
ATEX category dust	II 1D II 2D
Explosion ignition protection type for dust	Ex ia IIIC T135°C Db Ex tb IIIC T100°C Db Ex tb IIIC T135°C Db

1) For information about the area of use, see the EC declaration of conformity at: www.festo.com/catalogue/... -> Support/Downloads.

If the devices are subject to usage restrictions in residential, commercial or light-industrial environments, further measures for the reduction of the emitted interference may be necessary.

2) More information www.festo.com/x/topic/kbk

Datasheet

Electrical data, type EX	
Duty cycle	100%
Characteristic coil data	110 V AC: 50/60 Hz, pick-up power 7.7 VA, holding power 3.8 VA 230 V AC: 50/60 Hz, pick-up power 10.0 VA, holding power 6.0 VA 24 V DC: 1.5 W 24 V DC: 3.0 W
Permissible frequency fluctuations	+/- 10%

Materials, type EX	
LABS (PWIS) conformity	VDMA24364 zone III
Note on materials	RoHS-compliant

General technical data, type -H-T-...-EX	
Valve function	3/2-way, closed, monostable
Type of actuation	Electric
Design	On/off valve
Type of reset	Mechanical spring
Manual override	Non-detenting
Flow direction	Non-reversible
Type of mounting	CNOMO

Datasheet

Operating and environmental conditions, type -H-T-...-EX

Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]
Note on operating and pilot medium	Lubricated operation possible (in which case lubricated operation will always be required)
Operating pressure	-0.09 ... 0.8 MPa
Operating pressure	-0.9 ... 8 bar
Operating pressure	-13.05 ... 116 psi
CE mark (see declaration of conformity) ¹⁾	To EU Explosion Protection Directive (ATEX)
Explosion protection certification outside the EU	EPL Da (CN) EPL Da (IECEx) EPL Db (CN) EPL Db (IEC-EX) EPL Ga (CN) EPL Ga (IEC-EX) EPL Gb (CN) EPL Gb (IECEx)
Certificate issuing authority	ATEX: CML 15 ATEX 1119X ATEX: CML 17 ATEX 2046X IEC: IECEx CML 17.0030X IEC: IECEx CML 17.0147X
Degree of protection	IP65 IP66
Insulation material class	H
Corrosion resistance class CRC ²⁾	2 - Moderate corrosion stress
Ambient temperature	-65 ... 80°C
Explosion ambient temperature	-40°C ≤ Ta ≤ 50°C/65°C -65°C ≤ Ta ≤ +40°C -65°C ≤ Ta ≤ +55°C
ATEX category gas	II 1G II 2G
Explosion ignition protection type for gas	Ex db IIC T4 Gb Ex db IIC T5 Gb Ex ia IIC T6...T5 Gb
ATEX category dust	II 1D II 2D
Explosion ignition protection type for dust	Ex ia IIIC T135°C Db Ex tb IIIC T100°C Db Ex tb IIIC T135°C Db

1) For information about the area of use, see the EC declaration of conformity at: www.festo.com/catalogue/... -> Support/Downloads.

If the devices are subject to usage restrictions in residential, commercial or light-industrial environments, further measures for the reduction of the emitted interference may be necessary.

2) More information www.festo.com/x/topic/kbk

Electrical data, type -H-T-...-EX

Duty cycle	100%
Characteristic coil data	110 V DC: 3.0 W 230 V AC: 50/60 Hz, pick-up power 10.0 VA, holding power 6.0 VA 24 V DC: 1.5 W 24 V DC: 3.0 W
Permissible frequency fluctuations	+/- 10%

Materials, type -H-T-...-EX

LABS (PWIS) conformity	VDMA24364 zone III
Note on materials	RoHS-compliant

Datasheet

General technical data, type KS

Valve function	3/2-way, closed, monostable
Type of actuation	Electric
Design	On/off valve
Type of reset	Mechanical spring
Manual override	Detenting
Flow direction	Non-reversible
Type of mounting	CNOMO

Operating and environmental conditions, type KS

Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]
Note on operating and pilot medium	Lubricated operation possible (in which case lubricated operation will always be required)
Operating pressure	-0.09 ... 0.8 MPa
Operating pressure	-0.9 ... 8 bar
Operating pressure	-13.05 ... 116 psi
Certificate issuing authority	21-GA4BO-0068X 21-GA4BO-0069X 21-GA4BO-0070X 21-GA4BO-0071X
Degree of protection	IP65 IP66
Insulation material class	H
Corrosion resistance class CRC ²⁾	2 - Moderate corrosion stress
Ambient temperature	-20 ... 80°C
Explosion ambient temperature	-40°C ≤ Ta ≤ 50°C/65°C -65°C ~ +40°C T4 -65°C ~ +40°C T6 -65°C ~ +55°C T3 -65°C ~ +55°C T5 -65°C ~ +60°C T4
Explosion ignition protection type for gas	Ex db IIC T6...T3 Gb Ex ia IIC T6...T5 Gb
Explosion ignition protection type for dust	Ex ia IIIC T135°C Db Ex tb IIIC T85°C Db

2) More information www.festo.com/x/topic/kbk

Electrical data, type KS

Duty cycle	100%
Characteristic coil data	110 V AC: 50/60 Hz, initial power: 79.5 VA, holding power: 3.8 VA 230 V AC: 50/60 Hz, initial power: 9.5 VA, holding power: 6.0 VA 24 V DC: 1.5 W 24 V DC: 3.0 W
Permissible frequency fluctuations	+/- 10%

Materials, type KS

LABS (PWIS) conformity	VDMA24364 zone III
Note on materials	RoHS-compliant

Datasheet

General technical data, MDH-3/2-...

Valve function	3/2-way, closed, monostable
Type of actuation	Electric
Design	Poppet seat
Type of reset	Mechanical spring
Manual override	Non-detenting
Flow direction	Non-reversible
Type of mounting	On sub-base, With through-hole
Construction width	30 mm
Nominal size	1.3 mm
Grid dimension	42 mm
Exhaust-air function	Without flow control option
Sealing principle	Soft
Mounting position	optional
Type of piloting	Direct
lap	Underlap
Based on standard	ISO 15218
Conforms to standard	ISO 15218
Product weight	140 g
Pneumatic connection, port 1	Sub-base
Pneumatic connection, port 2	Sub-base
Pneumatic connection, port 3	Not ducted

Operating and environmental conditions, MDH-3/2-...

Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]
Note on operating and pilot medium	Lubricated operation possible (in which case lubricated operation will always be required)
Operating pressure	0.1 ... 1.6 MPa
Operating pressure	1 ... 16 bar
Operating pressure	14.5 ... 232 psi
CE mark (see declaration of conformity) ¹⁾	To EU Low Voltage Directive
UKCA marking (see declaration of conformity) ²⁾	To UK regulations for electrical equipment
Degree of protection	IP65
Corrosion resistance class CRC ³⁾	2 - Moderate corrosion stress
Ambient temperature	-15 ... 50°C
Media temperature	-15 ... 80°C
Standard nominal flow rate (standardised to DIN 1343)	50 l/min

1) For information about the area of use, see the EC declaration of conformity at: www.festo.com/catalogue/... -> Support/Downloads.

If the devices are subject to usage restrictions in residential, commercial or light-industrial environments, further measures for the reduction of the emitted interference may be necessary.

2) More information www.festo.com/catalogue/... -> Support/Downloads.

3) More information www.festo.com/x/topic/kbk

Switching times, MDH-3/2-...

Switching time on	11 ms
Switching time off	9 ms

Datasheet

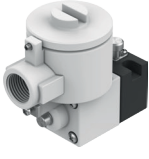
Electrical data, MDH-3/2-...

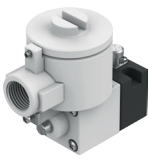
Duty cycle	100%
Characteristic coil data	110 V AC: 50 Hz, pick-up power 14.5 VA, holding power 10.5 VA 110 V AC: 60 Hz, pick-up power 12.0 VA, holding power 7.6 VA 110 V DC: 6.3 W 230 V AC: 50 Hz, pick-up power 14.5 VA, holding power 10.5 VA 230 V AC: 60 Hz, pick-up power 12.0 VA, holding power 7.6 VA 24 V DC: 8.4 W 24 V DC: 6.8 W 42 V AC: 50 Hz, pick-up power 14.0 VA, holding power 10.0 VA 42 V AC: 60 Hz, pick-up power 12.0 VA, holding power 7.0 VA 48 V AC: 50 Hz, pick-up power 14.5 VA, holding power 9.9 VA 53 V AC: 60 Hz, pick-up power 15.0 VA, holding power 9.3 VA
Permissible frequency fluctuations	+/- 10%
Permissible voltage fluctuations	+/- 10%
Electrical connection	Type A, To DIN EN 175301-803

Materials, MDH-3/2-...

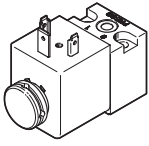
LABS (PWIS) conformity	VDMA24364-B2-L
Material seals	FPM
Note on materials	RoHS-compliant

Ordering data

Type EX	Characteristic coil data	Part no.	Type
	110 V AC: 50/60 Hz, pick-up power 7.7 VA, holding power 3.8 VA	535616	MGXDH-3/2-1.2-110AC-EX
	230 V AC: 50/60 Hz, pick-up power 10.0 VA, holding power 6.0 VA	535617	MGXDH-3/2-1.2-230AC-EX
	24 V DC: 1.5 W	535614	MGXIAH-3/2-0.8-24DC-EX
	24 V DC: 3.0 W	535615	MGXDH-3/2-1.2-24DC-EX

Type -H-T-...-EX	Characteristic coil data	Part no.	Type
	110 V DC: 3.0 W	8118346	MGXDH-3/2-H-T-1.2-110DC-EX
	230 V AC: 50/60 Hz, pick-up power 10.0 VA, holding power 6.0 VA	8157305	MGXDH-3/2-H-T-1.2-230AC-EX
	24 V DC: 1.5 W	8118347	MGXIAH-3/2-H-T-0.8-24DC-EX
	24 V DC: 3.0 W	8118345	MGXDH-3/2-H-T-1.2-24DC-EX

Type KS	Characteristic coil data	Part no.	Type
	110 V AC: 50/60 Hz, initial power: 79.5 VA, holding power: 3.8 VA	8118343	MGXDH-3/2-1.2-110AC-KS
	230 V AC: 50/60 Hz, initial power: 9.5 VA, holding power: 6.0 VA	8118344	MGXDH-3/2-1.2-230AC-KS
	24 V DC: 1.5 W	8118341	MGXIAH-3/2-0.8-24DC-KS
	24 V DC: 3.0 W	8118342	MGXDH-3/2-1.2-24DC-KS

	Characteristic coil data	Part no.	Type
	110 V AC: 50 Hz, pick-up power 14.5 VA, holding power 10.5 VA, 110 V AC: 60 Hz, pick-up power 12.0 VA, holding power 7.6 VA	119601	MDH-3/2-110VAC
	110 V DC: 6.3 W, 230 V AC: 50 Hz, pick-up power 14.5 VA, holding power 10.5 VA, 230 V AC: 60 Hz, pick-up power 12.0 VA, holding power 7.6 VA	119602	MDH-3/2-230VAC
	24 V DC: 8.4 W, 42 V AC: 50 Hz, pick-up power 14.0 VA, holding power 10.0 VA, 42 V AC: 60 Hz, pick-up power 12.0 VA, holding power 7.0 VA	119603	MDH-3/2-24VDC/42VAC
	24 V DC: 6.8 W, 48 V AC: 50 Hz, pick-up power 14.5 VA, holding power 9.9 VA, 53 V AC: 60 Hz, pick-up power 15.0 VA, holding power 9.3 VA	119600	MDH-3/2-24DC