Automatic N.C. Solenoid Valves MD21 - MD23



G04= G 1/2 **C4**= N.O.

015

MD21G04C4B015

MD21G05C4B020

MD21G06C4B025

MD21G07C4B032

MD21G08C4B040

MD21G04C4B050

MD22G04C4B015

MD22G05C4B020

MD22G06C4B025

MD22G07C4B032

MD22G08C4B040

MD22G09C4B050

MD23G07C4B032

MD23G08C4B040

MD23G09C4B050

С

C*

D

D

D

C*

C**

D

D

D

D

D

C*

D

С

(See table)

(See table)

B= NBR

200

200

200

200

200

200

360

360

360

360

360

360

500

500

500

rmally Closed in Aluminium

lormally Closed in Aluminium

rmally Closed in Aluminiur

15

20

25

32

40

50

15

20

25

32

40

50

32

40

50

G 1/2

G 3/4

G 1

G 1 1/4

G 1 1/2

G 1/2

G 3/4

G 1

G 1 1/4

G 1 1/2

G 2

G 1 1/4

G 1 1/2

G 2

G 2

N.C. solenoid operated valves. In standard conditions the valve is closed and the fluid cannot pass. When the coil is energized the valve opens allowing flow passaging. These valves can be supplied with a flow rate regulation. Closing time <1 sec.

TECHNICAL SPECIFICATIONS

- ▶ Body material: Aluminium
- ▶ Protection class: IP 65
- Power supply voltage tolerance: -15% +10%

A - C - D

E-F-G-M

A - C - D

70

70

70

160

160

160

70

70

70

160

160

160

160 213

160 213

136

136

187

187

213

136

136

136

213

213

213

160 213 -

103

103

105

105

105

-

1

2

2

2

- ▶ Coil housing: class F (155°C)
- Ambient temperature: -20°C + 60°C
- Max superficial temperature for: MD21-MD22: 85°C
- MD23: 90°C

DESCRIPTION

- Approval certificate IMQ CE-0051
- EC Certified according EN 161+A3:2013
- Escluse from application to Directive 2014/68/EU (PED) according to art.1 paragraph 1.

According to Dir	ective 2014/30/EU
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- (Electromagnetic Compatibility)
- According to Directive 2014/35/EU (Low Voltage)
- According to Regulation (EU) 2016/426 (GAR)

AVAILABLE ON REQUEST

- NPT version
- Flanged connections version
- Other options like position indicator switches on the safety shut off.

SIL LEVEL

Level of SIL of solenoid valve stand-alone is SIL 2, when are insalled tow solenoid valves in series level reached is SIL 3, like indicated on standard EN 676:2008. The solenoid valve has level PL d. For futher data see the SIL LEVEL table.

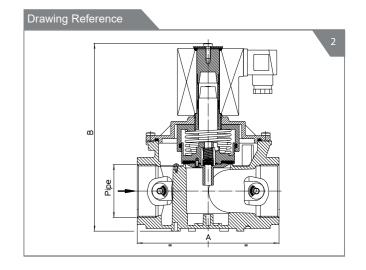
REPAIR KIT

These articles cannot be suppliees as spare part. Note

In the column "Power" (see below table, when there are two values, these refer to:

- higer value to the inrush power
- lower value less than power of maintaining

SIL LEVEL		
Parameter	Value	
Hardware Failure Tolerance - HFT	0	
Common Cause Failure - CCF in points	75	
Safe Failure Fraction - SFF in %	65%	
Expected Lifetime Cycles - B _{10d}	251278	
Expected Lifetime - T _{10d} [years]	87	
Probability of Dangerous Failures - PFH _D [1/h]	1,33E-07	
PL - Performance Level	d	
Safety Integrity Level - SIL	2	
Mean Time To Dangerous Failure MTTF _D [years]	860	



	Coil	type	Voltage [V]	Frequency [DC/Hz]	Power [W/VA]	Connector options
С		04	12	DC	16	Α
		14	12 ~	50/60	12	С
	0	24	24	DC	17	Α
	C	34	24 ~	50/60	14	С
		64	110 ~	50/60	17	D
		75	230 ~	50/60	18	D
		05	12	DC	23/6	Е
		15	12 ~	50/60	20/6	F
	C*	25	24	DC	27/7	Е
	3	35	24 ~	50/60	24/7	F
		65	110 ~	50/60	29/9	M
		76	230 ~	50/60	30/9	G
		06	12	DC	56/16	E
		16	12 ~	50/60	56/16	F
	C**	26	24	DC	56/16	E
	C	36	24 ~	50/60	56/16	F
		66	110 ~	50/60	63/20	M
	77	230 ~	50/60	54/18	G	
		27	24	DC	68/18	E
	D	37	24 ~	50/60	68/18	F
		67	110 ~	50/60	77/23	M
		78	230 ~	50/60	89/25	G

Drawing Reference	

Conne	ctor options
Α	Standard
С	Rectified (12V 50/60 Hz - 24V 50/60 Hz)
D	Rectified (110V 50/60Hz - 230V 50/60Hz)
E	Normal + energy saving (12V DC - 24V DC)
F	Rectified + energy saving (12V 50/60Hz - 24V 50/60Hz)
G	Rectified + energy saving (230V 50/60Hz)
M	Rectified + energy saving (110V 50/60Hz)

WARNING

For the solenoid valves installation and maintenance is recommended to consult the instruction sheet supplied with each product.

"ODE" reserves the right to a	arry out technical and aestheti	c modifications without prior notice.

