

ASCO™ Solenoid Valves

For Vacuum Service

Direct Operated, 1/4" Tapped

2/2 NC
Series
262

Features and Benefits

- Special materials and handling procedures are used in the high vacuum valves to avoid molecular contamination
- The high vacuum valves are mass spectrometer tested
- Valves do not require a minimum operating pressure and are suitable for low, high vacuum
- Valve operation is not affected by mounting position
- Compliance with UL and CSA standards
- The solenoid valves satisfy all relevant EU directives

General

Differential pressure

See «SPECIFICATIONS» [1 bar = 100 kPa]

Maximum viscosity

65 cSt (mm²/s)

Response time

5 - 25 ms

Fluids (*)	Temperature range (TS)	Seal materials (*)
air, inert gas	-25°C to +80°C	NBR (nitrile)
	-15°C to +80°C	FPM (fluoroelastomer)

Materials of components in contact with fluid

(*) Ensure that compatibility of materials in contact with fluids is verified.

Body	Brass
Shading coil	Copper
Core tube	Stainless steel, AISI 305
Core and plugnut	Stainless steel, AISI 430F
Springs	Stainless steel, AISI 302
Seal	NBR or FPM
Disc	NBR or FPM

Electrical characteristics

Coil insulation class

F (AC) or H (DC)

Connector

Spade plug (cable Ø 6-10 mm)

Connector specification

ISO 4400 / EN 175301-803, form A

Electrical safety

IEC 335

Electrical enclosure protection

Moulded IP65 (EN 60529)

Standard voltages

DC (=) : 24V - 48V

(Other voltages and 60 Hz on request)

AC (~) : 24V - 48V - 115V - 230V/50 Hz

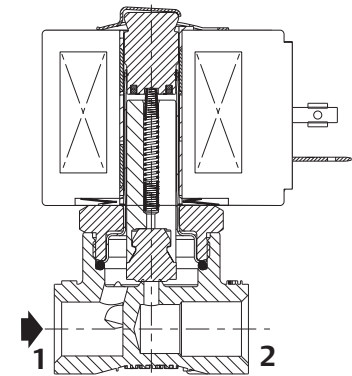
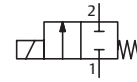
Operator ambient temperature range (TS)	Power ratings				Replacement coil ⁽¹⁾	
	Inrush	Holding		Hot/cold	~	=
	~	~	=			
(°C)	(VA)	(VA)	(W)	(W)	230 V/50 Hz	24 V DC
-25 to +55	30	16	8.1	7.7/ 10.6	238213-059	238513-006

⁽¹⁾ All 238 basic numbers are UL & CSA approved and marked with the UR (recognised component) & CSA logos.

Options

- Seals and disc (*) ⁽²⁾
(fluid temperature range)
FPM (fluoroelastomer):
-15°C to +100°C (coil class F)
-15°C to +120°C (coil class H)
- Connector with visual indication and peak voltage suppression or with cable length of 2 m
- Explosionproof enclosures for use in zones 1/21-2/22, categories 2-3 to ATEX Directive 2014/34/EU (See page 2)

⁽²⁾ The minimum ambient temperature of the solenoid valve is determined by the limitations of minimum temperature indicated.

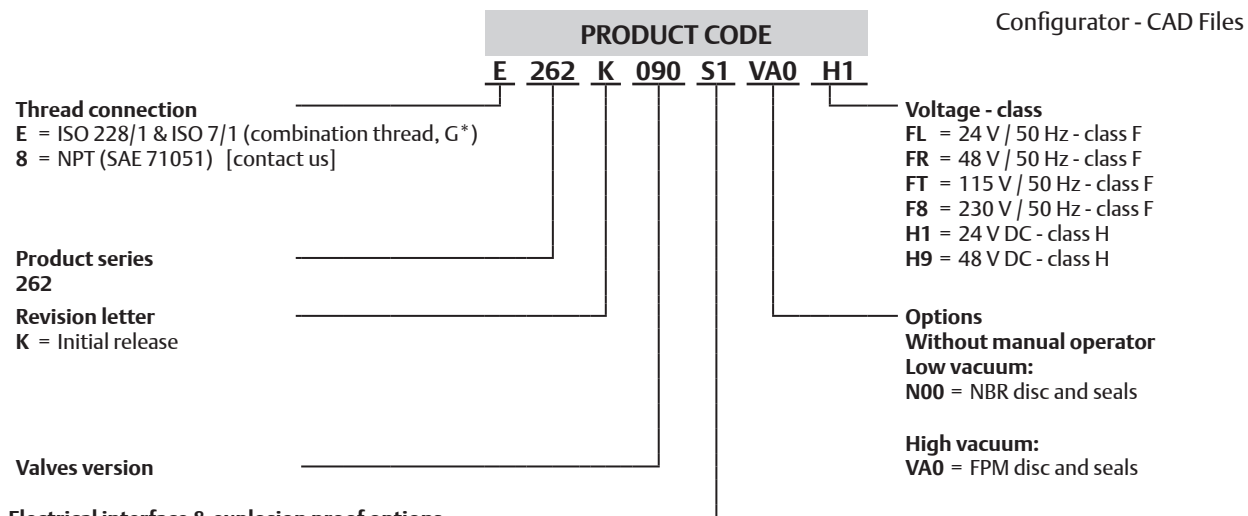


NC function

Specifications

Specifications											PRODUCT CODE											
Pipe size	Orifice size	Flow coefficient Kv		Minimum absolute vacuum pressure (PS)		Power coil (W)		Thread type	Dimensions / type ⁽¹⁾	Brass	Voltage code											
											24 V/50 Hz	48 V/50 Hz	115 V/50 Hz	230 V/50 Hz	24 V/DC	48 V/DC						
				Min.	Max. (PS)	Air (★)																
	(mm)	(m³/h)	(l/min)		mbar (Torr)	~	=															
Without manual operator																						
NC - Normally closed, low vacuum range to 25 Torr, NBR seals																						
1/4"	7.1	0.76	12.7	0	33.3 (25)		8.1	10.6	G*	01	E262K090S1N00											
NC - Normally closed, high vacuum range to 10 ⁻⁶ Torr, FPM seals																						
1/4"	7.1	0.76	12.7	0	1.33.10 ⁻⁶ (10 ⁻⁶)		8.1	10.6	G*	01	E262K090S1VA0											

(*) Ensure that compatibility of materials in contact with fluids is verified.

⁽¹⁾ For dimensions, see drawing(s) for each construction type on the following page(s).**Electrical interface & explosion proof options**

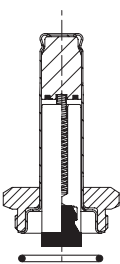
- S1** = With spade plug connector
- FN** = Aluminium enclosure, 1/2 NPT conduit, IECEx/ATEX
II 2G Ex db IIC Gb / II 2D Ex tb IIIC Db, zone 1-21 (equivalent to NF prefix)⁽²⁾
- FT** = Aluminium enclosure, 20 mm conduit, IECEx/ATEX
II 2G Ex db IIC Gb / II 2D Ex tb IIIC Db, zone 1-21 (equivalent to NFET prefix)⁽²⁾
- FS** = AISI 316L enclosure, 1/2 NPT conduit, IECEx/ATEX
II 2G Ex db IIC Gb / II 2D Ex tb IIIC Db, zone 1-21 (equivalent to WSNF prefix)⁽²⁾
- FU** = AISI 316L enclosure, 20 mm conduit, IECEx/ATEX
II 2G Ex db IIC Gb / II 2D Ex tb IIIC Db, zone 1-21 (equivalent to WSNFET prefix)⁽²⁾
- MV** = Steel enclosure, M20 cable gland, IECEx/ATEX
II 2G Ex eb mb IIC Gb / II 2D Ex tb IIIC Db, zone 1-21 (equivalent to EM prefix)⁽²⁾
- MT** = Steel enclosure, 20 mm conduit, IECEx/ATEX
II 2G Ex eb mb IIC Gb / II 2D Ex tb IIIC Db, zone 1-21 (equivalent to EMET prefix)⁽²⁾
- MN** = Steel enclosure, 1/2 NPT conduit, IECEx/ATEX
II 2G Ex eb mb IIC Gb / II 2D Ex tb IIIC Db, zone 1-21 (equivalent to EMT prefix)⁽²⁾
- MW** = AISI 316L enclosure, M20 cable gland, IECEx/ATEX
II 2G Ex eb mb IIC Gb / II 2D Ex tb IIIC Db, zone 1-21 (equivalent to WSEM prefix)⁽²⁾
- MU** = AISI 316L enclosure, 20 mm conduit, IECEx/ATEX
II 2G Ex eb mb IIC Gb / II 2D Ex tb IIIC Db, zone 1-21 (equivalent to WSEMET prefix)⁽²⁾
- MS** = AISI 316L enclosure, 1/2 NPT conduit, IECEx/ATEX
II 2G Ex eb mb IIC Gb / II 2D Ex tb IIIC Db, zone 1-21 (equivalent to WSEMT prefix)⁽²⁾
- A7** = Moulded enclosure, epoxy encapsulated, integrated cable, IECEx/ATEX
II 2G Ex mb IIC Gb / II 2D Ex mb IIIC Db, zone 1-21 (equivalent to PV prefix)⁽²⁾
- SG** = Moulded coil with connector, epoxy encapsulated, ATEX
II 3GD Ex ec IIC Gc / II 3GD Ex tc IIIC Dc, zone 22 (equivalent to SG prefix)⁽²⁾⁽³⁾

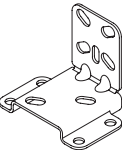
⁽²⁾ Search prefix in Emerson.com/ASCO to get detailed technical information.

Please note that the valve pressure ratings with some of the ATEX enclosures will be reduced.

To obtain the correct pressure rating please check the landing pages of the "2-Way Solenoid Valve DIN Configurator".

⁽³⁾ Coils class F only.

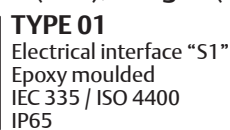
		Spare parts kits no. (*)					
		AC (~)			DC (=)		
			NBR	FPM		NBR	FPM
	E262K090S1N00	M200001	N00	-	M200005	N00	-
	E262K090S1VA0	M200001	-	VA0	M200005	-	VA0

		Accessories code
	Mounting bracket Steel version (AISI 1010 / 1.1121)	M200094A00
	Mounting bracket Stainless steel version (AISI 304 / 1.4301)	M200095A00

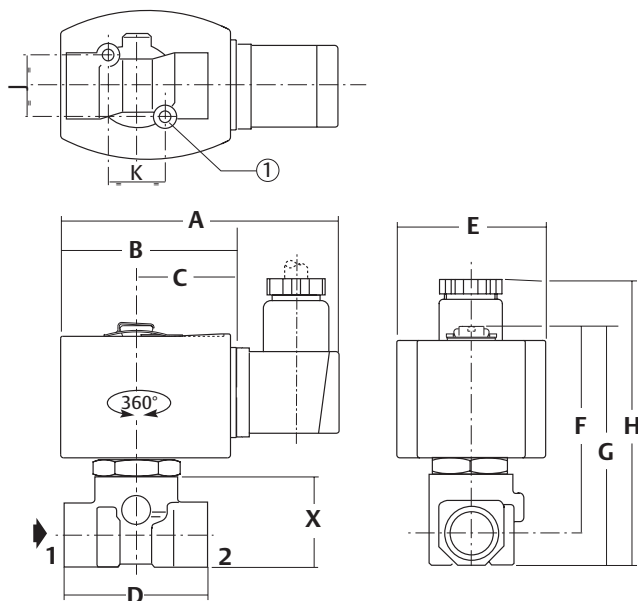
Installation

- The solenoid valves can be mounted in any position without affecting operation
- Solenoid valves have 2 mounting holes in body
- Thread connection “E” have standard thread according to ISO 228/1 and ISO 7/1
- Thread connection “8” have standard thread = NPT (SAE 71051)
- Installation/maintenance instructions are included with each valve

Configurator - CAD Files



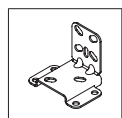
1/4", power coil 8.1 W / 10.6 W



Type	Pipe size	A	B	C	D	E	F	G	H	X	Weight ⁽¹⁾
01	1/4"	88	51	30	40	43	65	75	92	30	0.42

(1) Incl. coil(s) and connector(s).

① 2 mounting holes:
M5 dia., depth 7.5 mm (1/4")



Mounting brackets
Steel or stainless steel

M200094A00 / M200095A00

