

3009 Ex m

Amisco has completed the EVI7 S9 Solenoid System with a special coil for pneumatic applications in potentially explosive ambient (group II), that fulfills the requirements of EN 60079-0, EN 60079-18 and EN 60079-31.

The type **3009M Ex m** coil is supplied with different length of cable up to 10m.

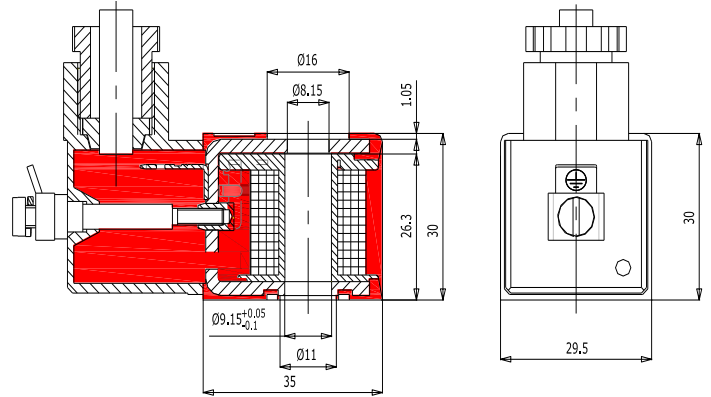
The coil is certified by TÜV in thermal class T5 (with coil surface temperature max 100°C) or T4 (with coil surface temperature max 135°C).

Ec-Type Examination Certificate number: TÜV 13 ATEX XXX.

The protection is assured by a thermal fuse that, in case of damage, disconnects the coil from power.



94/9/CE ATEX




The product is developed to be used in ambients with temperature range from -50°C to +50°C, and it has a power consumption of 3.8W for type T4 and 3W for type T5.

The coil fits all Amisco standard operators 3/2 or 2/2 way NC or NO, threaded or flange types.

All main voltages are available.

For other technical specifications see below and next page.

Please contact Amisco S.p.A for use with other media. All given information are subjected to changes without notice.

	Specific marking of explosion protection.
II	Group II – Electrical apparatus for places with a potentially explosive atmosphere, other than mines susceptible to fire dump.
2	Category 2 – see the board below.
G	Explosive gas atmospheres.
D	Explosive atmosphere in the presence of combustible dust.
Ex	The symbol Ex which indicates that the electrical apparatus corresponds to one of the protection type (EN 60079-0).
mb	Type of protection for gas – encapsulation “m”, level “mb”.
tb	Type of protection for explosive dust atmospheres – protection by enclosure.
IIC	Electrical equipment of Group II is subdivided according to the nature of the explosive gas atmospheres – IIC, a typical gas is hydrogen.
IIIC	Electrical equipment of Group III is subdivided according to the nature of the explosive dust atmospheres – IIIC, conductive dust.
T5 or T4	Temperature Class. T5 or T4.
Gb	Equipment protection level [EPL] for explosive gas atmospheres.
Db	Equipment protection level [EPL] for explosive dust atmospheres.
IP66	The degrees of protection provided by an enclosure against ingress of solid foreign objects, dust (first number) and water (second number).

Zone	Category	Description
1 and 2	2G	Equipment in this category is intended for use in areas in which explosive atmospheres caused by air/gas mixtures are likely to occur.
21 and 22	2D	Equipment in this category is intended for use in areas in which explosive atmospheres caused by air/dust mixtures are likely to occur.

SOLENOID SYSTEM Ex m

for 2/2 and 3/2 way Normally Closed and Normally Open valves

Coil 3009 M

Code		Characteristics	DC	AC (50 Hz)	AC (60 Hz)	
II2G Ex mb IIC T5 Gb II2D Ex tb IIIC T5 Db	3009M...	Rated power DC	W	3		
		Inrush power AC	VA		4,8	4
		Rated power AC	VA		3,2	2,7
		Coil temperature rise	°C	35	15	10
		Copper temperature rise	°C	40	30	25
II2G Ex mb IIC T4 Gb II2D Ex tb IIIC T4 Db	3009M...	Rated power DC	W	3,8		
		Inrush power AC	VA			
		Rated power AC	VA			
		Coil temperature rise	°C	50		
		Copper temperature rise	°C	55		

Operator S9

3/2 way NC flange	09L...	Inlet orifice Ø	mm	1,2	1,5	1,5	1,5
3/2 way NC thread	09F...	Exhaust orifice Ø	mm	1,45	1,45	1,45	1,45
		Working pressure	bar	0-10	0-10	0-10	0-10
2/2 way NC flange	09L...	Inlet orifice Ø	mm	1,2	1,5	1,5	1,5
2/2 way NC thread	09F...	Working pressure	bar	0-10	0-10	0-10	0-10
3/2 way NO flange (Top Inlet)	09L...	Inlet orifice Ø	mm	1,45	1,45	1,45	1,45
3/2 way NO thread (Top Inlet)	09F...	Working pressure	bar	0-7	0-10	0-10	0-10

Note:

Voltage tolerance:	± 10%	Standard voltages:	12 to 240 VAC - 50/60 Hz
Temperature range:	-50°C - +50°C		6 to 48 VDC
Duty cycle:	100%	For different orifice sizes and pressures contact AMISCO S.p.A.	

Performances

