

# 3009 Ex dm

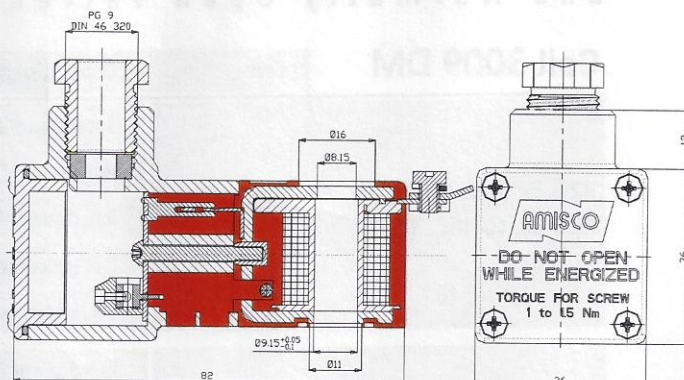
Amisco has completed the EVI7 S9 Solenoid System with a special coil for pneumatic applications in potentially explosive ambient (group II), that fulfills the requirements of EN 60079-0, EN 60079-1, EN 60079-18 and EN 60079-31.

**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).
d	Type of protection for gas – enclosure “d”.
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 dm

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

### Coil 3009 DM

Code	Characteristics	DC	AC (50 Hz)	AC (60 Hz)
II2G Ex dmb IIC T5 Gb II2D Ex tb IIIC T5 Db <b>30XDM...</b>	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 dmb IIC T4 Gb II2D Ex tb IIIC T4 Db <b>30XDM...</b>	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 3/2 way NC thread	09L... 09F...	Inlet orifice Ø mm	1,2	1,5	1,5	1,5
		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 2/2 way NC thread	09L... 09F...	Inlet orifice Ø mm	1,2	1,5	1,5	1,5
		Working pressure bar	0-10	0-10	0-10	0-10
3/2 way NO flange (Top Inlet) 3/2 way NO thread (Top Inlet)	09L... 09F...	Inlet orifice Ø mm	1,45	1,45	1,45	1,45
		Working pressure bar	0-7	0-10	0-10	0-10

#### Note:

Voltage tolerance:	± 10%
Temperature range:	-50°C - +50°C
Duty cycle:	100%

Standard voltages:	12 to 240 VAC - 50/60 Hz
	6 to 48 VDC

For different orifice sizes and pressures contact AMISCO S.p.A.

### Performances

