

AMISCO has completed the EVI7 S9 solenoid system with a special coil for pneumatic applications in potentially explosive ambient (group II), that fullfills the requirements of EN 60079-0, EN 60079-18, EN 61241-0, EN 61241-18, for protection mode "m".

The type **3009M Ex m** coil is supplied with 1.2m cable connection, other lenghts (from 1.5m to 10m) are available on request.

**The coil** is certified by CESI 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: CESI 02 ATEX 142 X and extension N° 02/07. Notification number: CESI 03 ATEX 075 Q.

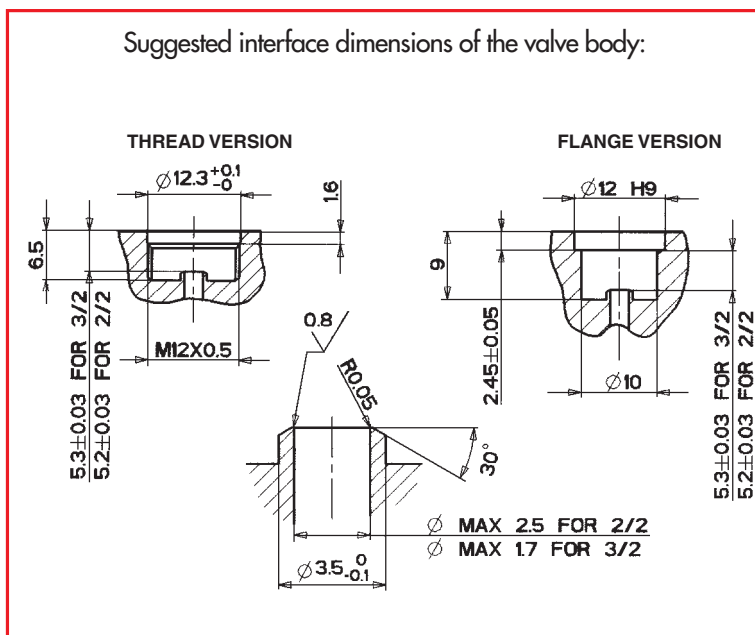
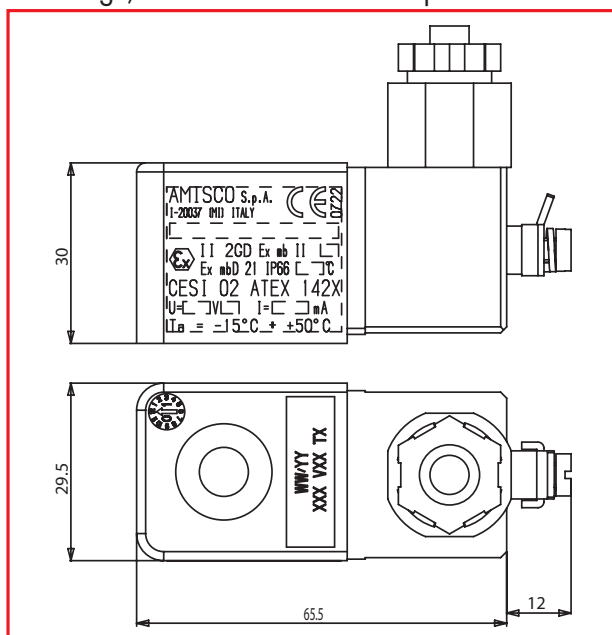
**The protection** is assured by a thermal fuse that, in case of damage, disconnects the coil from power.

**The product** is developed to be used in ambients with temperature range from -15°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 backwards.





- II** Specific marking of explosion protection
- II** Group II - Electrical apparatus for places with a potentially explosive atmosphere, other than mines susceptible to fire damp.
- 2** Category 2 - see the board below.
- G** Explosive gas atmospheres.
- D** Explosive atmospheres in the presence of combustible dusts.
- 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.
- mbD** Type of protection for dust (D) - encapsulation m, level mbD.
- T5 or T4** Temperature class for gas.
- T95 or T130** Maximum surface temperature for dust.
- 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	2G	Equipment in this category is intended for use in areas in witch explosive atmospheres caused by air/gas mixture are likely to occur.
21	2D	Equipment in this category is intended for use in areas in witch explosive atmospheres caused by air/dust mixture are likely to occur.

# SOLENOID SYSTEMS Ex m

for 2/2 and 3/2 way normally closed and normally open valves

## Characteristics

Code			DC		AC	AC
					50 Hz	60 Hz
 3009M...W.	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
 3009M...W.	Rated power DC	W		3.8		
	Inrush power AC	VA				
	Rated power AC	VA				
	Coil temperature rise	°C		50		
	Copper temperature rise	°C		55		
3/2 way NC	Inlet orifice Ø	mm	1.3	1.5	1.5	1.5
	Exhaust orifice Ø	mm	1.4	1.4	1.4	1.4
	Working pressure	bar	0-10	0-10	0-10	0-10
2/2 way NC	Inlet orifice Ø	mm	1.3	1.5	1.5	1.5
	Working pressure	bar	0-10	0-10	0-10	0-10
3/2 way NO	Inlet orifice Ø	mm	1.4	1.4	1.4	1.4
	Working pressure	bar	0-7	0-10	0-10	0-10

Notes:  
 Temperature range: -15°C ÷ +50°C  
 Duty cycle: 100%  
 Voltage tolerance: ±10%

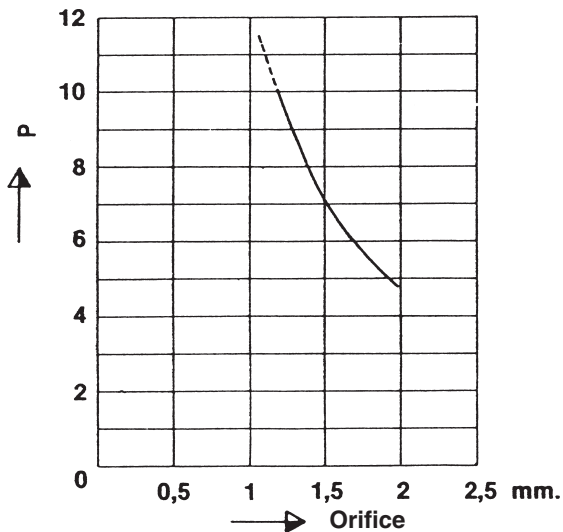
Standard voltages: 12 to 240 VAC - 50/60 Hz  
 6 to 48 VDC

For different orifice sizes and pressures contact AMISCO

## PERFORMANCES

3 W Coil - DC

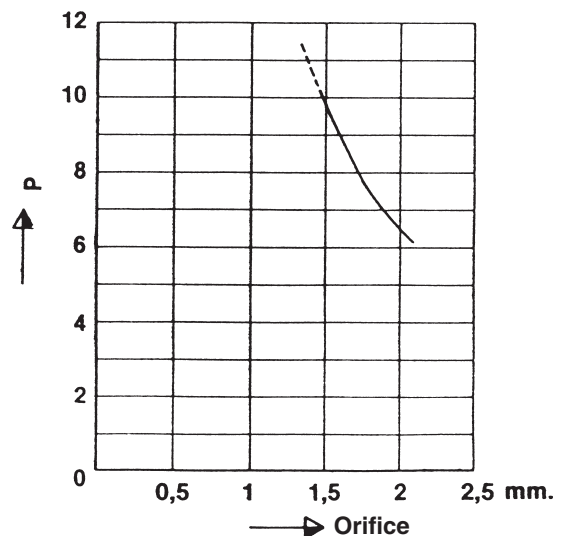
bar



3,2 VA Coil - AC

3,8 W Coil - DC

bar



Above-mentioned characteristics have to be intended only as indicative. They may change according to the tube design solutions