

# FIVE WAY PILOT OPERATED SOLENOID VALVE

# D13.D / D15.D 🖉 D17.D / D19.D

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GENERAL DESCRIPTION / APPLICATIONS / DIMENSIONS (millimeters)



Five way solenoid valve, pilot operated, two and three positions, monostabile or bistable.

Suitable for gaseous media. Model for liquid media available upon  $\mathsf{request}_{\scriptscriptstyle\!(\!4\!)}$ 

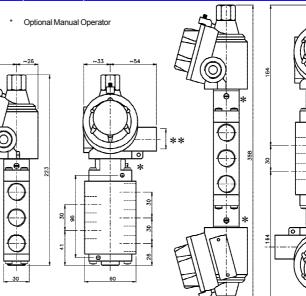
Stainless steel internal parts. Stainless steel spring.

Stainless steel internal parts. Stainless steel springs. 360° degrees orientable solenoid. Mountable in any position.

## ELECTRICAL SPECIFICATIONS

Light alloy explosion-proof "Ex-d" (EN60079-1) solenoid housing. Electrical and rechanical parts certified according to 2014/34/UE ("ATEX") directive, suitable to control the flow of inert and/or flammable gases or liquids. Internaland external anti-twist ground connecting screws. Inside terminal board suitable for cable up to 2,5 mm<sup>2</sup>.

cable entry threaded:	1/2" Gk UNI-6125 (standard)
	1/2" NPT, ISO M20x1.5 (available upon request)
protection class:	IP-67
Ex protection class:	Ex-d II 1G/2GDc (IIB o IIC)
	T6 orT5 (t.amb -20 $\div$ +40 °C)
Temperature class:	· · · · · · · · · · · · · · · · · · ·
	T5 or T4 (t.amb -20 ÷ +60 °C) upon request.
	T5 or T4 (t.amb -60 ÷ +60 °C) upon request <sup>(1)</sup>
Coil insulation class:	F (155°C) - H (180°C) upon request. 2
Winding wire class:	H (180°C).
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Duty:	Continuous (S.I.) 100% ED
Power consumption:	Alternate current 11VA (inrush 28VA).
	Direct current 11W.
Tolleranza tensione:	± 10% (standard) others available upon request
Voltage tolerance:	$\pm$ 10% (standard) states available upon request
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Insulation:	>1000 MOhm
Dielectrical Strength:	>2000 V/1'
Standard voltages	12, 24, 48, 110, 115, 125, 220, 240 Volt
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DC= <sub>(2)</sub> o AC~(50/60Hz):	other voltages available upon request.



**OPERATION** 



D13.D - Sinale	solenoid	Monostable

In<sup>.</sup> Coil de

In:

Coil en

e-energized: nergized:	E from E to U1. from U2 to S2. from E to U2. from U1 to S1.					
- Double solenoid Bistable						

### D15.D

ln:	E
Coil 1 energized:	from E to U1.
	from U2 to S2.
Coil 2 energized:	from E to U2
	from U1 to S1
Coils de-energized:	Latched on the last position.
Colla de-chergized.	Latorica on the last position.

#### D17.D - Double solenoid Bistable, closed centers.

les.	-
ln:	E
Coil 1 energized:	from E to U1.
	from U2 to S2.
Coil 2 energized:	from E to U2
•	from U1 to S1
Coils de-energized:	E, U1, U2, S1, S2 closed

#### D19.D - Double solenoid Bistable, open centers.

, T	In: Coil 1 energized: Coil 2 energized:	E from E to U1. from U2 to S2. from E to U2 from U1 to S1
	0	from U1 to S1
	Coils de-energized:	from U1 to S1 from U2 to S2

#### SPECIFICATIONS AND AVAILABLE OPTIONS

MODEL					ORIFICE		PRESSURES IN BAR		Flow factor kv	WEIGHT Kg.	
mobel				DIAMETER BODY		MIN./MAX. OPERATING DIFFERENTIAL PRESSURE					
a	а	b	С	d e	m	RATING	MIN.	MAX. AC~	MAX. DC=	(liters/min.')	rtg.
D 1 3	1 1				11	10	3	10	10	30	1.8
D 1 5	1 1				11	10	3	10	10	30	2.2
D 1 7	1 1				11	10	3	10	10	30	2.2
D 1 9	1 1				11	10	3	10	10	30	2.2

suffix (options available upon request): (1) "/LT" (low t.amb. certificate ), (2) "/V" (spike suppressor), (3) "/AP" (High pressure version)- (4) "/H2O" (for water).

	a Body material	b Port size	C Seals material	d Protection class	e Optional features
	T Brass. N Nickel-plated brass. I Stainless steel.	F 1/2" GAS G 1/2" NPT	<ul><li>0 Buna N</li><li>1 FPM</li><li>7 HNBR</li></ul>	B Ex-d IIB C Ex-d IIC	X Stable Manual operator.
N.Y					

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Le caratteristiche possono subire variazioni senza preavviso / Characteristics may change without notice.

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