

Valve type AD.3.E.. variant XD with explosion proof solenoids and encapsulated coils in accordance with EEx "d" standards. This type of valve is equipped with EEx d IIC type explosion proof solenoids; these solenoids are constructed and type approved in accordance with standards CEI 31-1 and 31-8, European standards (EN 50 014 - EN 50 018). The definition of the reference standard in accordance with which these solenoids are certified is given. Explosion proof casing "symbol d": protection method whereby the parts which could ignite in an explosive atmosphere are enclosed in a casing which is capable of resisting the pressure which develops from an internal explosion of an explosive mixture and of preventing the transmission of the

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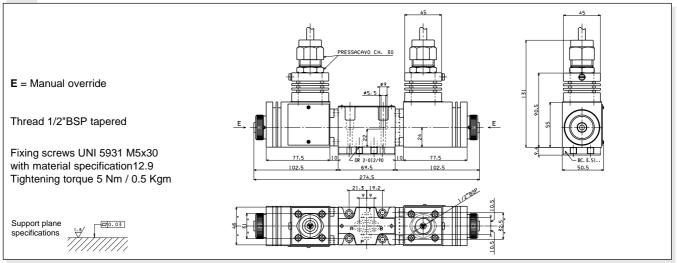
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explosion to the explosive atmosphere outside the casing.

- Raised plate for solenoids to be order separately (see BC.3.51)
- This type of solenoid can be operated with either a direct current or alternating current.
- Possible mounting: C/E/F Spools available: 01/02/03/04/16/17

		SOLENOID SPECIFICATIONS	
VALVE SPECIFICATIONS		Temp. class referred to ambient temp. of 40°C T5 (≤100°C superf.)	
Max pressure ports P/A/B Max. pressure port T (dynamic) Max. flow Max. excitation frequency Hydraulic fluid Fluid viscosity Fluid temperature Ambient temperature Max contamination level Weight Available voltages : DC/AC	$\begin{array}{c} 320 \text{ bar} \\ 100 \text{ bar} \\ 40 \text{ l/min} \\ 3 \text{ Hz} \\ \text{mineral oil DIN 51524} \\ 10 \div 500 \text{ mm²/s} \\ -25^{\circ}\text{C} \div 75^{\circ}\text{C} \\ -25^{\circ}\text{C} \div 60^{\circ}\text{C} \\ \text{class } 10 \text{ in accordance} \\ \text{with NAS 1638 with filter } \beta_{25} \geq 75 \\ 4 \text{ Kg} \\ \textbf{A}  24\text{V} - 24\text{v}/50\text{Hz} \\ \textbf{C}  110\text{V} - 110\text{V}/50\text{Hz} \\ \textbf{D}  220\text{V} - 220\text{V}/50\text{Hz} \end{array}$	Rated power at 20°C class T5 (VDC) No. of duty cycles Max. static pressure Degree of protection in accordance with IEC 144 stand (in relation to the connectors used) Insulation of earth in accordance with CEI standards Supply tolerance Weight • Construction in class F (155°C) • Coil in class H (180°C) with double insulation and impre- epoxide resin • Additional earth outer terminal • Supply cable 3 x 1Ø mm <sup>2</sup> not propagating fire standard	26 W 25000/h 180 bar 100 bar dards IP 66 2000V ±10% 1,65 Kg gnated with

## **OVERALL DIMENSIONS**



## LIMITS OF USE ELECTRICALLY OPERATED DIRECTIONAL CONTROL VALVES AD.3.E...XD

Spool	Solenoids
type	VDC / VAC
01	3
02	1
03	5
04	4
16	2
17	6
	Curves

The tests have been carried out with solenoids at a temperature of 40°C with a voltage 10% less than rated voltage with a fluid temperature of 40°C. The fluid used was a mineral oil with a viscosity of 46 mm<sup>2</sup>/s at 40°C.

The values in the diagram refers to tests carried out with the oil flow in two direction simultaneously (e.g.. from P to A and in the same time B to T).

In cases where valves 4/2 e 4/3 were used with the flow in one direction only, the limits of use could have variations which may even be negative.

