



# **SOLENOID VALVES** for potentially explosive atmospheres flaméproof enclosure

II2G Ex d IIB+H2 Gb T6..T4, II2D Ex t IIIC Db IP67 aluminium enclosure, ISO 15218 (CNOMO, size 30) interface

# **FEATURES**

· Explosionproof operator for use in potentially explosive atmospheres according to ATEX-Directive 94/9/EC

EC type examination certificate no.: LCIE 10 ATEX 3043X IECEx Certificate of Conformity no.: IECEx LCI 10.0010X

- Compliance with the Essential Health and Safety Requirements has been assured by compliance with the International and European Standards IEC and EN: 60079-0, 60079-1 and 60079-31
- · Easy electrical installation by means of a screw terminal coil
- Enclosure provided with a 1/2 NPT threaded entry hole for a broad range of cable entries
- A wide range of valves can be supplied with the CNOMO size 30 solenoid pilot interface



**Differential pressure** See «SPECIFICATIONS» [1 bar =100 kPa]

**Flow** See «SPECIFICATIONS»

**Pneumatic base** ISO 15218 (CNOMO E06.05.80, size 30)

Response time 70 - 140 ms

fluids (*)	temperature range (TS)	seal materials (*)
air or inert gas	- 25°C to +60°C	NBR (nitrile) FPM (fluoroelastomer) VMQ (silicone)



Solenoid enclosure	Aluminium, cataphorese black painting
Cover screws	Stainless steel
Nameplate	Aluminium

MATERIALS IN CONTACT WITH FLUID  (*) Ensure that the compatibility of the fluids in contact with the materials is verified							
Body Aluminium, black painting							
Core, core tube and plugnut Stainless steel							
Springs	Stainless steel						
Seals	VMQ						
Upper disc	FPM						
Lower disc	NBR						



Gas	II2G	Ex d IIB+H2 Gb T6T4
Dust	II2D	Ex t IIIC Db T85°CT135°C IP67

### **ELECTRICAL CHARACTERISTICS**

Coil insulation class	F
Coil connection	Embedded screw terminals
Electrical enclosure protection	IP67 (EN 60529)
Standard voltages	DC (=): 24V - 48V
(Other voltages on request)	AC (~): 24V - 48V - 115V - 230V/50-60 Hz

#### **TEMPERATURE CLASSIFICATION TABLES**

AC solenoids (~)

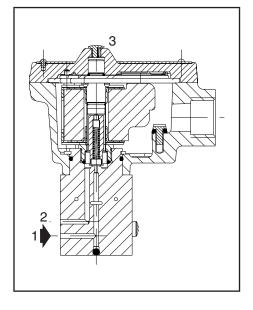
			_ ` '							
		solenoid	maximum ambient °C		t °C (1) (4)					
	Pn (2)(3)	size	surface temperature							
	(2)(0)		Т6	T5	T4					
Un	(watt)	M6	85°C	100°C						
(V)	insu	ation clas	ss F (155	°C) 100	% E.D.					
24	5,4	•	40	-	60					
48	5,8	•	40	-	60					
115	7,1	•	-	40	60					
230	7,4	•	-	40	60					

## DC solenoids (=)

		_		solenoid	maximur	n ambien	t °C (1) (4)		
		Pn		size	surface temperature				
		(w	att)		Т6	T5	T4		
	Un	hot/cold		M6		100°C			
	(V)	ir	nsulati	on class I	= (155°C	) 100%	E.D.		
	24	5,9 7,5 (3)		•	-	40	60		
	48	6 7,6 <sup>(3)</sup>		•	-	40	60		

- (1) The minimum allowable ambient temperature is -25°C for the operator. Actual temperature range can be limited depending on valve operation limits.
- (2) Rectified coil construction.
- (3) Maximum cold wattage.
- (4) For the layout of the control circuit, see the installation and maintenance instructions at: www.asconumatics.eu





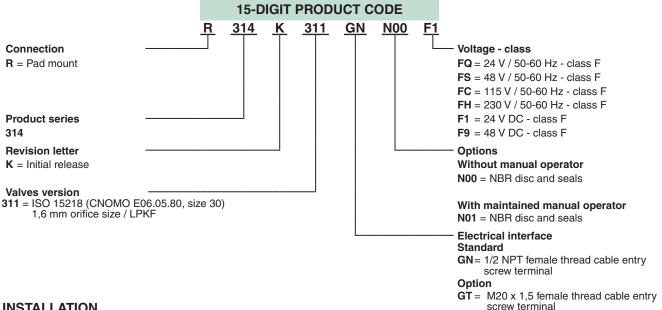
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<b>SPECI</b>	<b>FICAT</b>	IONS							15-DIGIT PF	RODU	CT C	ODE		
	flo		ow .	operating pressure differential (bar)					voltage code					
İ	orifice	orifice coefficient				<u>8</u>				Z	Z			
pipe	size			max.	(PS)		dimensions type (1)	brass	보	모	115 V/50 Hz	ZH 00	0 0	
size		1 → 2	2→3	min.	air, inert	gas (*)	thread type	e e		24 V/50	48 V/50	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	230 V/50	24 V/DC 48 V/DC
	(mm)	(m³/h) (l/min)	(m³/h) (l/min)		~	=	the type	돌		24	48	115	230	24 48
	WITHOUT MANUAL OPERATOR													
NC - N	Vormal	ly closed, NI	BR seal and	disc										
1/4	1,6	0,08 1,3	0,05 0,8	0	10	10	pad mount	01	R314K311GNN00	FQ	FS	FC	FH F	F1 F9
				W	THIAM HTI	AINED MA	NUAL OPERATO	R						
NC - N	Vormal	ly closed, NI	BR seal and	disc										
1/4	1,6	0,08 1,3	0,05 0,8	0	10	10	pad mount	01	R314K311GNN01	FQ	FS	FC	FH F	F1 F9

<sup>(1)</sup> For dimensions, see drawing(s) for each construction type on the following page(s).

<sup>(\*)</sup> Ensure that the compatibility of the fluids in contact with the materials is verified.



#### **INSTALLATION**

- The solenoid valves can be mounted in any position without affecting operation
- The solenoid valves are supplied with mounting screws
- Mounting on valve or single, non-joinable subbase with ISO 15218 (CNOMO, size 30) interface
- Installation/maintenance instructions are included with each valve

#### **OPERATOR CONNECTION**

- Any ATEX approved cable entry device can be fitted in the 1/2" NPT threaded entry hole (M20 x 1.5, in option); supplied without cable gland
- Internal and external earthing connection
- The operator can be rotated through 360° to select the most favourable position for cable entry

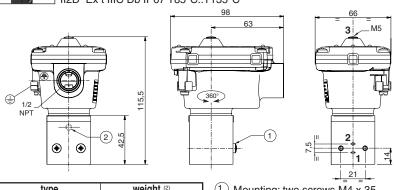
#### DIMENSIONS (mm), WEIGHT (kg)





TYPE 01 Electrical interface "GN" IEC, EN: 60079-1, 61241-1 II2G Ex d IIB+H2 Gb T6..T4

II2D Ex t IIIC Db IP67 T85°C..T135°C



weight (2) type 0,7

Mounting: two screws M4 x 35

(2) Manual operator location

(2) Without cable gland.