

# **SOLENOID VALVES**

for potentially explosive atmospheres flameproof enclosure Ex d IIB+H2 Gb T6..T4. II2D Ex th IIIC Db IP66/IP

II2G Ex d IIB+H2 Gb T6..T4, II2D Ex tb IIIC Db IP66/IP67 aluminium enclosure, ISO 15218 (CNOMO, size 30) interface



NO



3/2 Series 314

CE

## **FEATURES**

 Explosion proof operator for use in potentially explosive atmospheres according to ATEX-Directive 2014/34/EU

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

Tree period time	70 1101110	
fluids (*)	temperature range (TS)	seal materials (*)
air or inert gas	- 25°C to +60°C	NBR (nitrile) FPM (fluoroelastomer) VMQ (silicone)

#### **GENERAL**

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						

### SAFETY CODE

Gas	II2G Ex d IIB+H2 Gb T6T4
Dust	II2D Ex tb IIIC Db T85°CT135°C IP66/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 (1) (4)								
		Pn (2)(3)	size	surfac	ace temperature							
		(2)(0)		т.	<b>T</b> -	Т4						
	Un	(watt)	M6	T6 85°C	T5 100°C							
	(V)	insu	insulation class 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 (=)

Γ		Pn		solenoid	maximum ambient °C (1) (4)						
		PII		size	surface temperature						
		(wa	att)		Т6	T5	T4				
	Un	hot/cold		M6		100°C					
	(V)	insulation class F (155°C) 100% E.D.									
						1					
	24	5,9	7,5 (3)	•	-	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.

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(4) For the layout of the control circuit, see the installation and maintenance instructions at: www.asco.com

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All leaflets are available on: www.asco.com

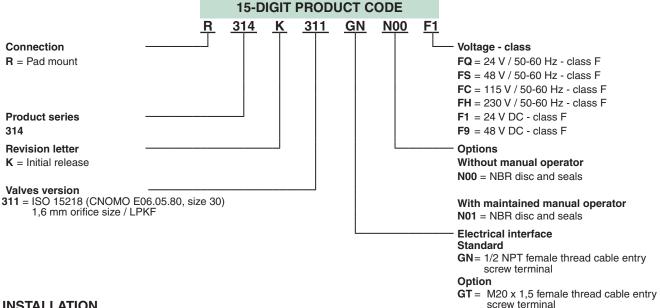
Explosionproof equipment - 5



SPECI	FICAT	IONS							15-DIGIT PF	RODUC	COE	E		
		flow			operating pressure				voltage code					
pipe size	orifice		ficient		differential (			SL		N .	된	모		
	size		Kv		max. (PS)			<u>.</u> ë	brass	원	-   -		0 0	6
		1 → 2	2→3	min.	air, inert	t gas (∗)	e ad	e G		V/50	V/50	V/50	Š	N/DC
	(mm)	(m³/h) (l/min	) (m³/h) (l/min)		~	=	thread type	dimensions type (1)		24 \	115	230		48
	WITHOUT MANUAL OPERATOR													
NC - 1	Vormal	ly closed, N	BR seal and	disc										
1/4	1,6	0,08 1,3	0,05 0,8	0	10	10	pad mount	01	R314K311GNN00	FQ F	S FC	FH	F1	F9
	WITH MAINTAINED MANUAL OPERATOR													
NC - 1	NC - Normally closed, NBR seal and disc													
1/4	1,6	0,08 1,3	0,05 0,8	0	10	10	pad mount	01	R314K311GNN01	FQ F	SFC	FH	F1	F9

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

(\*) 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

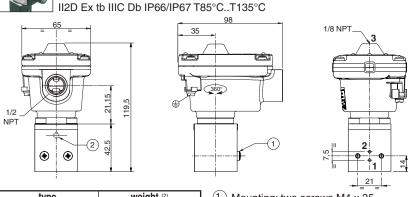
- Any ATEX approved cable entry device can be fitted in the 1/2" NPT threaded entry hole (M20 x 1.5, in option); supplied without cable gland
- Internal and external earthing connection
- The operator can be rotated through 360° to select the most favourable position for cable entry

## DIMENSIONS (mm), WEIGHT (kg)





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



weight (2) type 0.7

1 Mounting: two screws M4 x 35

(2) Manual operator location

(2) Without cable gland.

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