



Solenoid valve 2/2 way N.C. With pilot control Explosion proof - Atex Ex d

21WN3KIB130

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21WN9KIB500

PRESENTATION:

S.V. with pilot control for interception of fluids compatible with the construction materials. Aluminium coil housing, explosion proof "Ex d" . Electrical and electromechanical components according to Atex Directive 2014/34/EU.

A minimum operational pressure of 0,2 bar is required.
The materials used and the tests carried out ensure maximum reliability and duration.

USE: Potentially explosive atmospheres
Zone 1, 2, 21, 22

PIPES: 3/8 NPT - 2 NPT

COIL: 8W - Ø 13
BDV 180°C (class H)

Max. allowable pressure (PS)

3/8 NPT - 1 NPT

25 bar

1 1/4 NPT - 2 NPT

16 bar

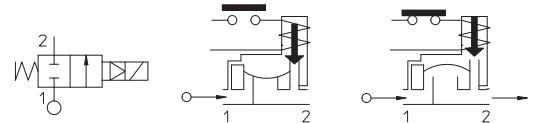
Housing ambient temperature

- 40°C + 60°C



Gaskets	Temperature		Medium
B =NBR (nitrile rubber)	- 10°C	+ 80°C	Air, inert gas, water
E =EPDM (ethylene-propylene)	- 10°C	+ 80°C	Water, low pressure steam
V =FKM (fluoroelastomer)	- 10°C	+ 80°C	Mineral oils (2°E), gasoline gas oil
F =H-NBR (hydrogenated nitrile)	- 30°C	+ 80°C	Air, inert gas, water R 134a, R 404a

For seals other than NBR replace the letter "B" with the ones corresponding to the other seals. E.I. Es.21WN5KIV190.



Pipe ANSI/ASME B1.20.1	Code	Max viscosity		Ø mm	Kv l/mn	Power watt	Pressure		
		cSt					min bar	M.O.P.D.	
3/8 NPT	21WN3KIB130	12	~ 2	13	60	8	0,2	16	16
1/2 NPT	21WN4KIB130			19	140				
3/4 NPT	21WN5KIB190			25	190				
1 NPT	21WN6KIB250			35	400				
1 1/4 NPT	21WN7KIB350			40	520			10	10
1 1/2 NPT	21WN8KIB400			50	750				
2 NPT	21WN9KIB500								



CE Approval

(Pressure Equipment Directive 2014/68/EU)
for S.V. 21WN7÷21WN9



(According to Directive 2014/34/EU ATEX)

II 2G Ex d IIC T6 or T5 Gb

II 2D Ex tb IIIC T80°C or T95°C Db IP67

Note

Available on request and with minimum quantities.

The "ODE " reserves the right to carry out technical and aesthetic modifications without prior notice.

MATERIALS:

Body

Armature tube

Fixed core

Plunger

Phase displacement ring

Spring

Seal

Orifice

Coil housing:

Connector conformity

FEATURES:

Electrical conformity

Protection degree

Brass - UNI EN 12165 CW617N

Stainless steel AISI series 300

Stainless steel AISI series 400

Stainless steel AISI series 400

Copper - Cu 99,9%

Stainless steel AISI series 300

Standard: B=NBR

On request: V=FKM; E=EPDM; F=H-NBR

Brass - UNI EN 12165 CW617N

Die cast and passivated Aluminium

ISO 4400

IEC 335

IP 67 EN 60529 (DIN 40050)

if installed with cable gland Atex Ex d
IP67 or higher.

SPARE PARTS:

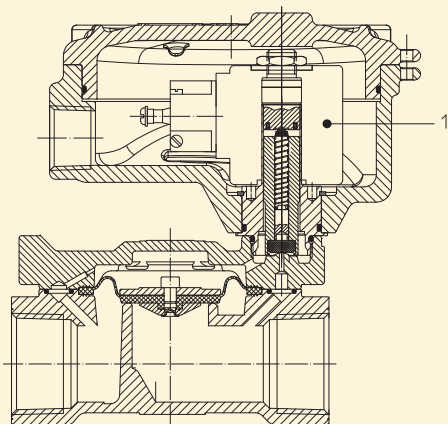
1. Coil:

See coils list for

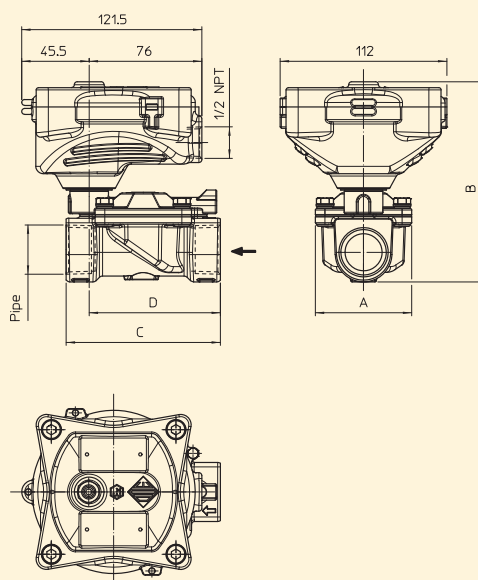
Solenoid valves explosion
proof Atex - Ex d

ACCESSORIES:

Code P992219 Cable Gland
(to be ordered separately)



DIMENSIONS:



Type	Pipe	A mm	B mm	C mm	D mm
21WN3KIB130	3/8 NPT	40	120	60	47
21WN4KIB130	1/2 NPT			66	50
21WN5KIB190	3/4 NPT	65	128	104	89
21WN6KIB250	1 NPT		136		
21WN7KIB350	1 1/4 NPT	98	153	144	125
21WN8KIB400	1 1/2 NPT				
21WN9KIB500	2 NPT	118	166	171	150

COIL TYPE	POWER ABSORPTION		
	W ---	Hold VA ~	Inrush VA ~
B	8	14,5	25