



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

21WN3ZIB130

÷

21WN9ZIB500

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

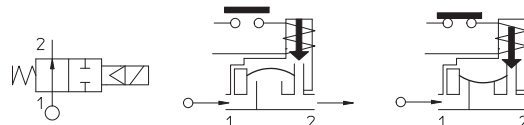
Housing ambient temperature

- 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	21WN3ZIB130	12	~ 2	13	60	8	0,2	16	16
1/2 NPT	21WN4ZIB130			19	140				
3/4 NPT	21WN5ZIB190			25	190				
1 NPT	21WN6ZIB250			35	400			10	10
1 1/4 NPT	21WN7ZIB350			40	520				
1 1/2 NPT	21WN8ZIB400			50	750				
2 NPT	21WN9ZIB500								



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	Brass - UNI EN 12165 CW617N
Armature tube	Stainless steel AISI series 300
Fixed core	Stainless steel AISI series 400
Plunger	Stainless steel AISI series 400
Phase displacement ring	Copper - Cu 99,9%
Spring	Stainless steel AISI series 300
Seal	Standard: B=NBR On request: V=FKM; E=EPDM ;F=H-NBR
Orifice	Brass - UNI EN 12165 CW617N
Coil housing:	Die cast and passivated Aluminium

Connector conformity ISO 4400

FEATURES:

Electrical conformity	IEC 335
Protection degree	IP 67 EN 60529 (DIN 40050) if installed with cable gland Atex Ex d IP67 or higher.

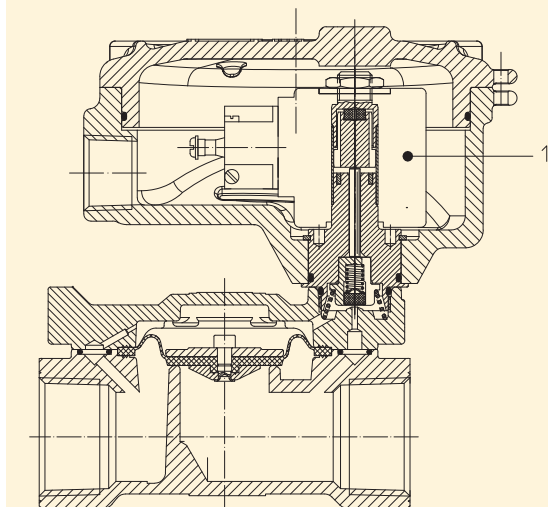
SPARE PARTS:

1. Coil:

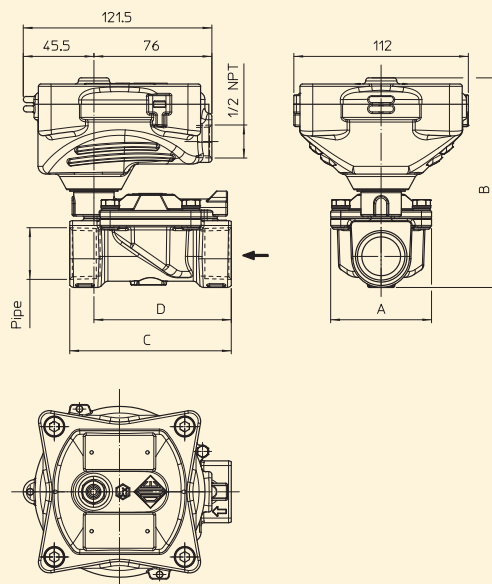
See coils list for
Solenoid valves explosion
proof Atex - Ex d

ACCESSORIES:

Code P992219 Cable Gland
(to be ordered separately)



DIMENSIONS:



Type	Pipe	A mm	B mm	C mm	D mm
21WN3ZIB130	3/8 NPT	40	120	60	47
21WN4ZIB130	1/2 NPT	40	120	66	50
21WN5ZIB190	3/4 NPT	65	128	104	89
21WN6ZIB250	1 NPT	65	136	104	89
21WN7ZIB350	1 1/4 NPT	98	153	144	125
21WN8ZIB400	1 1/2 NPT	98	153	144	125
21WN9ZIB500	2 NPT	118	166	171	150

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