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

21WN3ZI*B*130 ÷ 21WN9ZI*B*500

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.



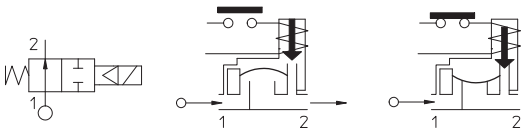
USE: Potentially explosive atmospheres
Zone 1, 2, 21, 22

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.21WN5KI**V**190.

Pipe ANSI/ASME BI.20.1	Code	Max viscosity		Ø	Kv	Power	Pressure		
							min	M.O.P.D.	
		cSt		mm	l/mn	watt	bar	AC bar	DC bar
3/8 NPT	21WN3ZI**B**130	12	~ 2	13	60	8	0,2	16	16
1/2 NPT	21WN4ZI**B**130				70				
3/4 NPT	21WN5ZI**B**190			19	140				
1 NPT	21WN6ZI**B**250			25	190				
1 1/4 NPT	21WN7ZI**B**350			35	400			10	10
1 1/2 NPT	21WN8ZI**B**400			40	520				
2 NPT	21WN9ZI**B**500			50	750				

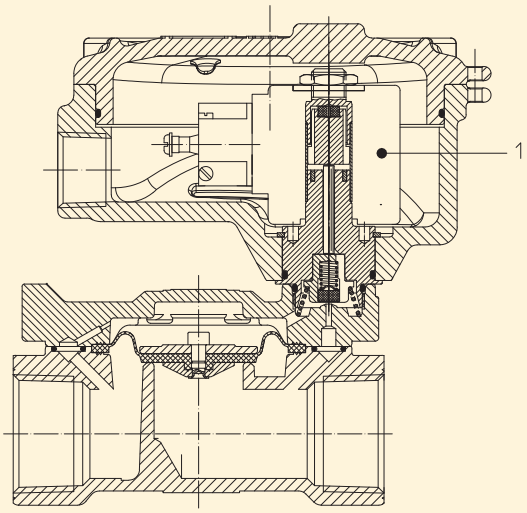
CE

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.

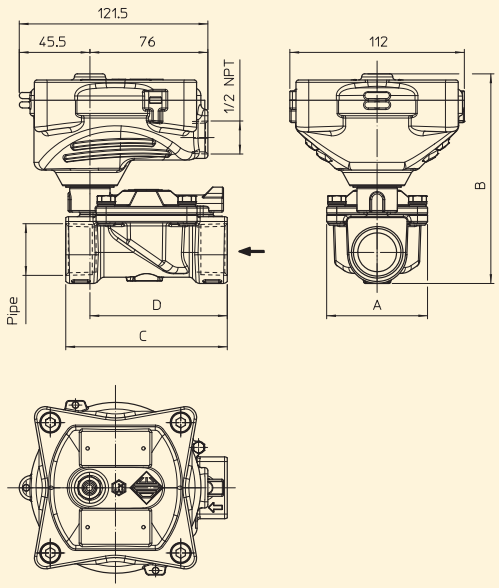
SPARE PARTS:

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
21WN3ZI**B**130	3/8 NPT	40	120	60	47
21WN4ZI**B**130	1/2 NPT			66	50
21WN5ZI**B**190	3/4 NPT	65	128	104	89
21WN6ZI**B**250	1 NPT		136		
21WN7ZI**B**350	1 1/4 NPT	98	153	144	125
21WN8ZI**B**400	1 1/2 NPT				
21WN9ZI**B**500	2 NPT	118	166	171	150

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