



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

21WN3ZIB130

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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 94/9/CE

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

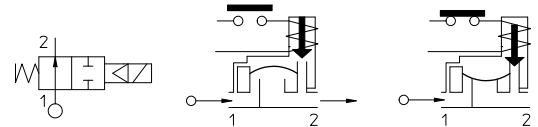
**COIL:** 8W - Ø 13  
BDA 155°C (class F)

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>B</b> =NBR (nitrile rubber)	- 10°C	+ 80°C	Air, inert gas, water
<b>E</b> =EPDM (ethylene-propylene)	- 10°C	+ 80°C	Water, low pressure steam
<b>V</b> =FKM (fluoroelastomer)	- 10°C	+ 80°C	Mineral oils (2°E), gasoline gas oil
<b>F</b> =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 Bl.20.1	Code	Max viscosity		Ø mm	Kv l/mn	Power watt	Pressure		
		cSt					min bar	M.O.P.D. AC bar DC bar	
3/8 NPT	21WN3ZIB130	12	~ 2	13	60	8	0,2	16	16
1/2 NPT	21WN4ZIB130				70				
3/4 NPT	21WN5ZIB190				140				
1 NPT	21WN6ZIB250			25	190			10	10
1 1/4 NPT	21WN7ZIB350			35	400				
1 1/2 NPT	21WN8ZIB400			40	520				
2 NPT	21WN9ZIB500			50	750				



(According to Directive 94/9/CE ATEX )  
II 2G Ex d IIC T6 o T5 Gb  
II 2D Ex tb IIIC T80°C o T95°C Db IP67



**CE Approval**  
(Pressure Equipment Directive 97/23/CE  
for S.V. 21WN7+21WN9

**Note**

Available on request and with minimum quantities.

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

### MATERIALS:

<b>Body</b>	Brass - UNI EN 12165 CW617N
<b>Armature tube</b>	Stainless steel AISI series 300
<b>Fixed core</b>	Stainless steel AISI series 400
<b>Plunger</b>	Stainless steel AISI series 400
<b>Phase displacement ring</b>	Copper - Cu 99,9%
<b>Spring</b>	Stainless steel AISI series 300
<b>Seal</b>	Standard: B=NBR On request: V=FKM; E=EPDM; F=H-NBR
<b>Orifice</b>	Brass - UNI EN 12165 CW617N

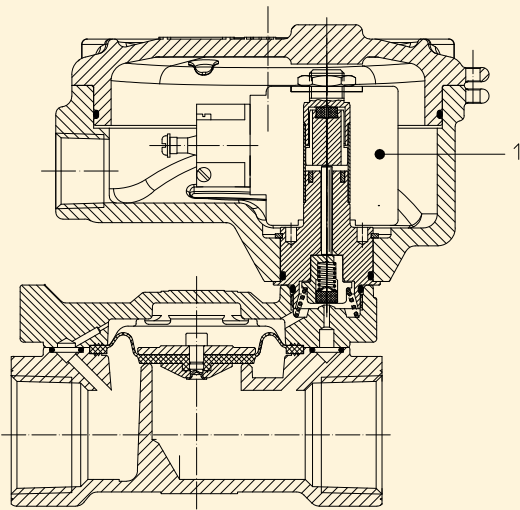
**Connector conformity** ISO 4400

### FEATURES:

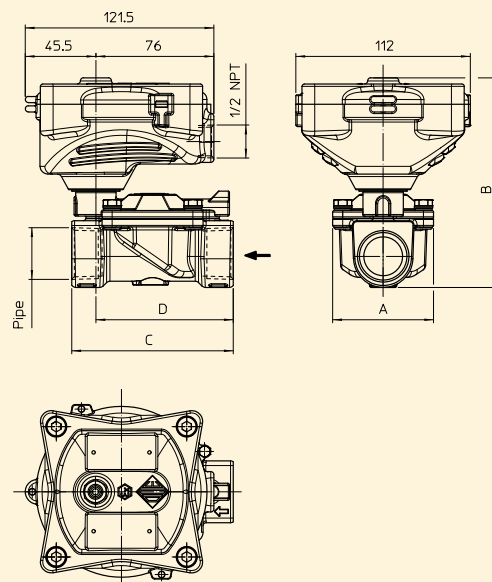
<b>Electrical conformity</b>	IEC 335
<b>Protection degree</b>	IP 65 EN 60529 (DIN 40050) with housing fitted by cable gland Atex Ex d.

### SPARE PARTS:

- 1. Coil:**  
 BDA08012CS  
 BDA08024CS  
 BDA08024DS  
 BDA08048AS  
 BDA08048CS  
 BDA08110CS  
 BDA08110DS  
 BDA08223DS



### DIMENSIONS:



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

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