



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

21WA3KIB130

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21WA4KIB130

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: G 3/8 - G 1/2

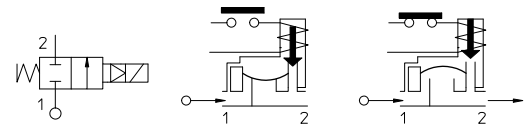
COIL: 8W - Ø 13
BDA 155°C (class F)

PresMax. allowable pressure (PS) 20 bar
Housing ambient temperature - 40°C + 60°C



Gaskets	Temperature		Medium
	- 10°C	+ 80°C	
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)	- 10°C	+ 80°C	Air, inert gas, water R 134a, R 404a

For seals other than FKM replace the letter "B" with the ones corresponding to the other seals. E.I. 21WA3KIV130.



Pipe ISO 228/1	Code	Max viscosity		Ø mm	Kv l/mn	Power (watt)	Pressure		
		cSt					min bar	M.O.P.D.	
								AC bar	DC bar
G 3/8	21WA3KIB130	12	~ 2	13	60	8	0,2	16	16
G 1/2	21WA4KIB130								

(According to Directive 94/9/CE ATEX)

II 2G Ex d II C T6

II 2D Ex tD A21 IP67 80°C



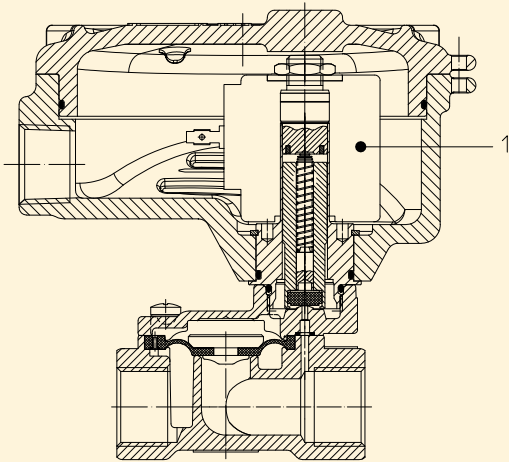
Note

Available on request and with minimum quantities.

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

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



Connector conformity ISO 4400

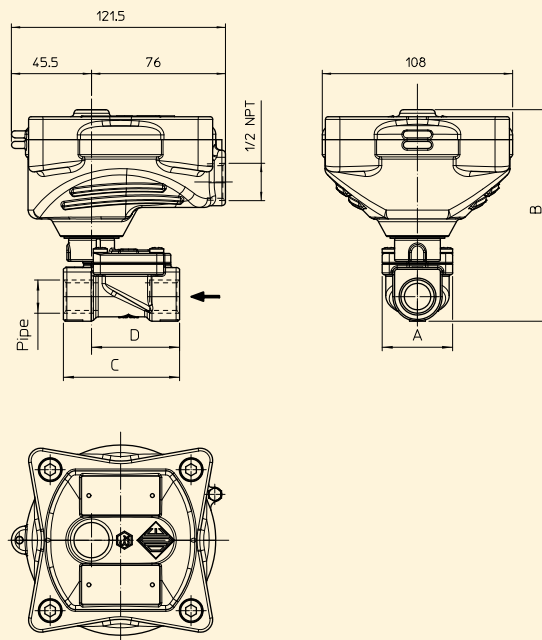
FEATURES:

Electrical conformity IEC 335
Protection degree IP 67 EN 60529 (DIN 40050)
 with coil fitted by connector.

SPARE PARTS:

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

DIMENSIONS:



Type	Pipe ISO 228/1	A mm	B mm	C mm	D mm
21WA3KIB130	G 3/8	40	120	60	47
21WA4KIB130	G 1/2			66	50

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



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Zone 1, 2, 21, 22

PIPES: G 3/8 - G 1/2

COIL: 8W - Ø 13
BDA 155°C (class F)

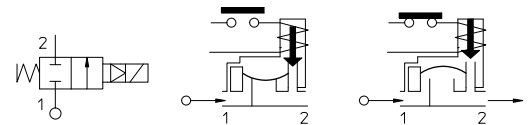
PresMax. allowable pressure (PS) 20 bar
Housing ambient temperature - 40°C + 60°C



Special item-not standard

Gaskets	Temperature		Medium
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V =FKM (fluoroelastomer)	- 10°C	+ 80°C	Mineral oils (2°E), gasoline gas oil
F =H-NBR (hydrogenated nitrile)	- 10°C	+ 80°C	Air, inert gas, water R 134a, R 404a

For seals other than FKM replace the letter "B" with the ones corresponding to the other seals. E.I. 21WA3ZIV130.



Pipe ISO 228/1	Code	Max viscosity		Ø mm	Kv l/mn	Power (watt)	Pressure		
		cSt					min bar	M.O.P.D.	
								AC bar	DC bar
G 3/8	21WA3ZIB130	12	~ 2	13	60	8	0,2	16	16
G 1/2	21WA4ZIB130								

(According to Directive 94/9/CE ATEX)

II 2G Ex d II C T6

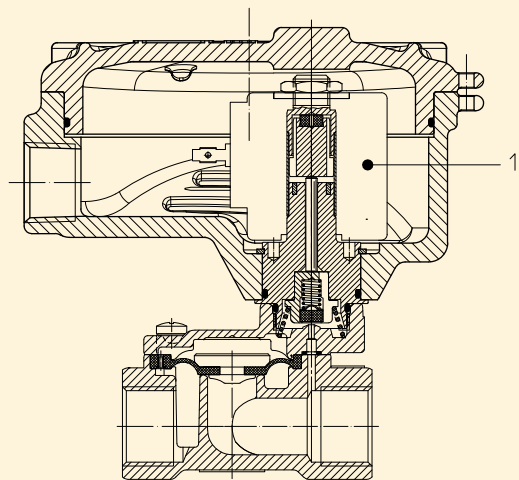
II 2D Ex tD A21 IP67 80°C



Note

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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

Connector conformity ISO 4400

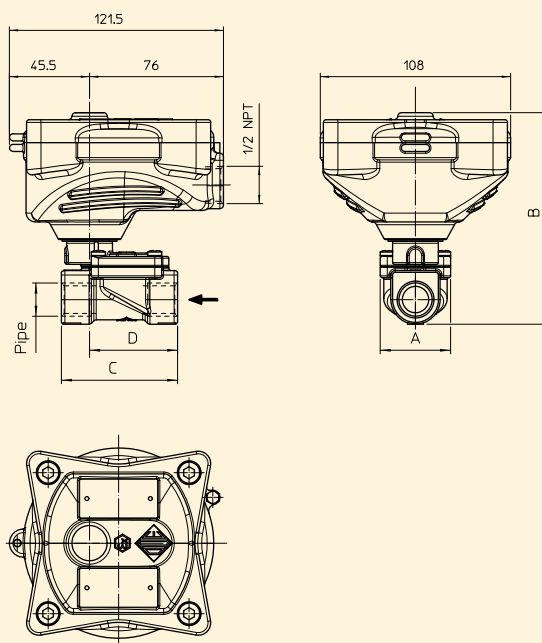
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 with coil fitted by connector.

SPARE PARTS:

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

DIMENSIONS:



Type	Pipe ISO 228/1	A mm	B mm	C mm	D mm
21WA3ZIB130	G 3/8	40	120	60	47
21WA4ZIB130	G 1/2			66	50

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



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

21W3KIB190

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21W7KIB500

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: G 3/4 - G 2

COIL: 8W - Ø 13
BDA 155°C (class F)

Max. allowable pressure (PS)

G 3/4 - G 1 25 bar

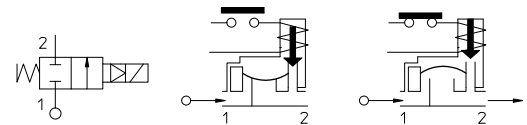
G 1 1/4 - G 2 16 bar

Housing ambient temperature - 40°C + 60°C



Gaskets	Temperature		Medium
	- 10°C	+ 80°C	
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)	- 10°C	+ 80°C	Air, inert gas, water R 134a, R 404a

For seals other than FKM replace the letter "B" with the ones corresponding to the other seals. E.I. 21W3KIV190.



Pipe ISO 228/1	Code	Max viscosity		Ø mm	Kv l/mn	Power (watt)	Pressure		
		cSt	°E				min bar	M.O.P.D.	
								AC bar	DC bar
G 3/4	21W3KIB190	12	~ 2	19	140	8	0,2	16	16
G 1	21W4KIB250			25	190				
G 1 1/4	21W5KIB350			35	400			10	10
G 1 1/2	21W6KIB400			40	520				
G 2	21W7KIB500			50	750				

(According to Directive 94/9/CE ATEX)

II 2G Ex d II C T6

II 2D Ex tD A21 IP67 80°C



CE Approval

(Pressure Equipment Directive 97/23/CE

for EV 21W5÷21W7

Note

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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

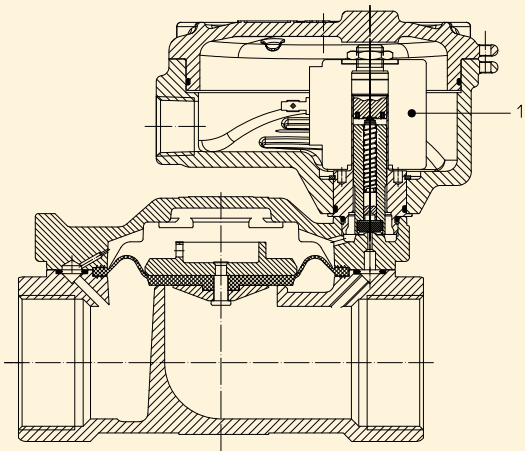
Connector conformity ISO 4400

FEATURES:

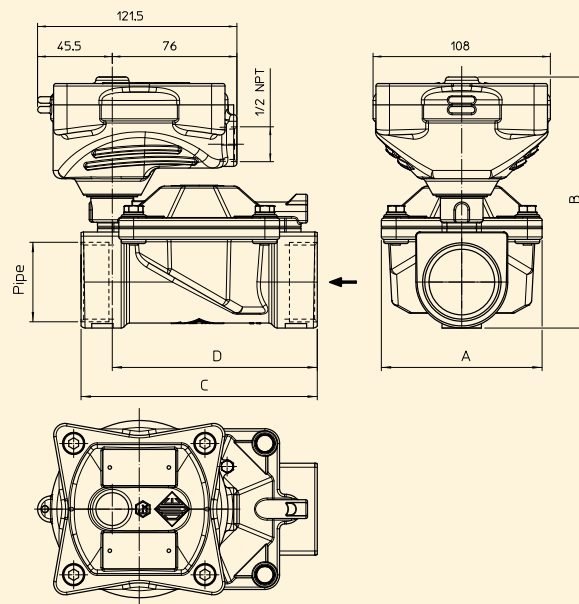
Electrical conformity IEC 335
Protection degree IP 67 EN 60529 (DIN 40050)
 with coil fitted by connector.

SPARE PARTS:

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



DIMENSIONS:



Type	Pipe ISO 228/1	A mm	B mm	C mm	D mm
21W3KIB190	G 3/4	65	128	104	89
21W4KIB250	G 1		136		
21W5KIB350	G 1 1/4	98	153	144	125
21W6KIB400	G 1 1/2				
21W7KIB500	G 2	118	144	172	150

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



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

21W3ZIB190

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21W7ZIB500

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: G 3/4 - G 2

COIL: 8W - Ø 13
BDA 155°C (class F)

Max. allowable pressure (PS)

G 3/4 - G 1 25 bar

G 1 1/4 - G 2 16 bar

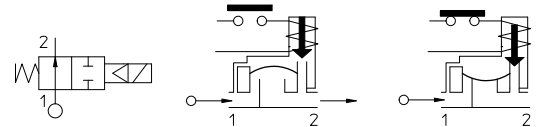
Housing ambient temperature - 40°C + 60°C



Special item-not standard

Gaskets	Temperature		Medium
	- 10°C	+ 80°C	
B =NBR (nitrile rubber)	- 10°C	+ 80°C	Air, inert gas, water
E =EPDM (ethylene-propylene)	- 10°C	+ 80°C	Water, low pressure steam
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For seals other than FKM replace the letter "B" with the ones corresponding to the other seals. E.I. 21W3ZIV190.



Pipe ISO 228/1	Code	Max viscosity		Ø mm	Kv l/mn	Power (watt)	Pressure		
		cSt	°E				min bar	M.O.P.D.	
								AC bar	DC bar
G 3/4	21W3ZIB190	12	~ 2	19	140	8	0,2	16	16
G 1	21W4ZIB250			25	190				
G 1 1/4	21W5ZIB350			35	400			10	10
G 1 1/2	21W6ZIB400			40	520				
G 2	21W7ZIB500			50	750				

(According to Directive 94/9/CE ATEX)

II 2G Ex d II C T6

II 2D Ex tD A21 IP67 80°C



CE Approval

(Pressure Equipment Directive 97/23/CE

for EV 21W5÷21W7

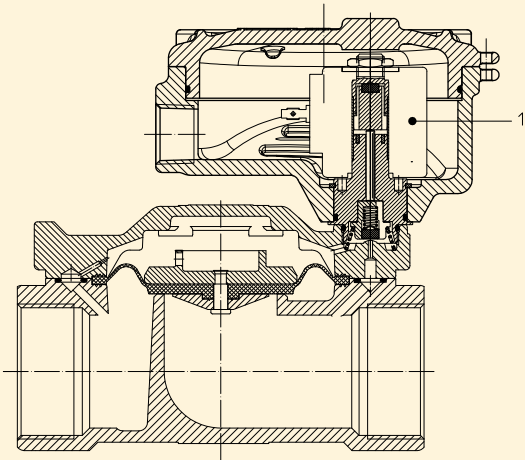
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MATERIALS:

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



Connector conformity ISO 4400

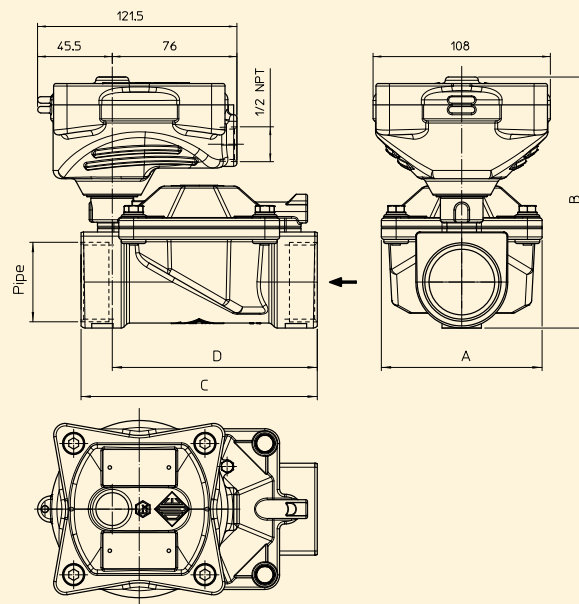
FEATURES:

Electrical conformity IEC 335
Protection degree IP 67 EN 60529 (DIN 40050)
 with coil fitted by connector.

SPARE PARTS:

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

DIMENSIONS:



Type	Pipe ISO 228/1	A mm	B mm	C mm	D mm
21W3ZIB190	G 3/4	65	128	104	89
21W4ZIB250	G 1		136		
21W5ZIB350	G 1 1/4	98	153	144	125
21W6ZIB400	G 1 1/2				
21W7ZIB500	G 2	118	144	172	150

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



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

21WN3KIB130

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21WN9KIB500

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

PIPES: 3/8 NPT - 2 NPT

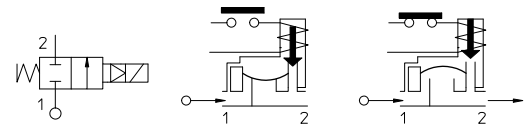
COIL: 8W - Ø 13
BDA 155°C (class F)

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=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)	- 10°C	+ 80°C	Air, inert gas, water R 134a, R 404a

For seals other than FKM replace the letter "V" 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	21WN3KIB130	12	~ 2	13	60	8	0,2	16	16
1/2 NPT	21WN4KIB130				70				
3/4 NPT	21WN5KIB190				140				
1 NPT	21WN6KIB250			25	190			10	10
1 1/4 NPT	21WN7KIB350			35	400				
1 1/2 NPT	21WN8KIB400			40	520				
2 NPT	21WN9KIB500			50	750				

(According to Directive 94/9/CE ATEX)
II 2G Ex d IIC T6
II 2D Ex tD A21 IP67 80°C



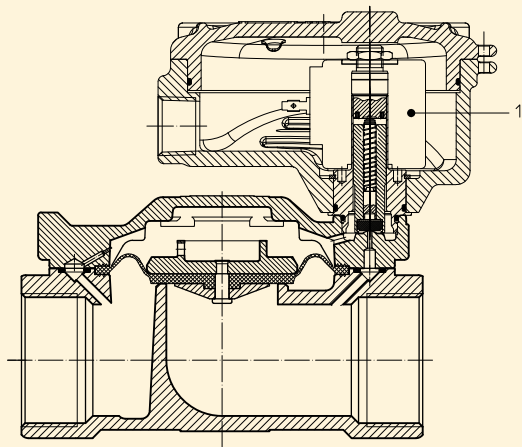
CE Approval

(Pressure Equipment Directive 97/23/CE
for S.V. 21WN7÷21WN9

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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

Connector conformity ISO 4400

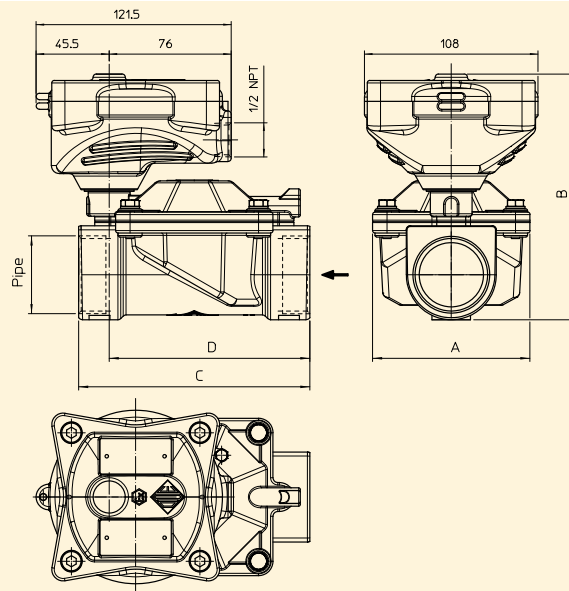
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Electrical conformity IEC 335
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 with coil fitted by connector.

SPARE PARTS:

- 1. Coil:**
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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



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

21WN3ZIB130

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21WN9ZIB500

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

PIPES: 3/8 NPT - 2 NPT

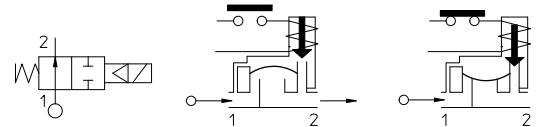
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Pipe ANSI/ASME Bl.20.1	Code	Max viscosity		Ø mm	Kv l/mn	Power (watt)	Pressure		
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1 1/4 NPT	21WN7ZIB350			35	400				
1 1/2 NPT	21WN8ZIB400			40	520				
2 NPT	21WN9ZIB500			50	750				

(According to Directive 94/9/CE ATEX)
II 2G Ex d II C T6
II 2D Ex tD A21 IP67 80°C



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

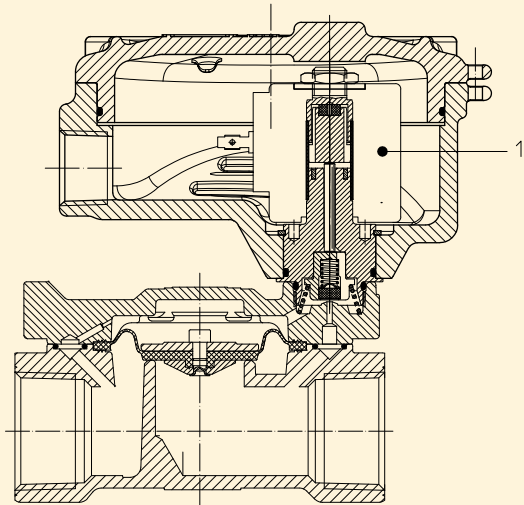
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Orifice	Brass - UNI EN 12165 CW617N



Connector conformity ISO 4400

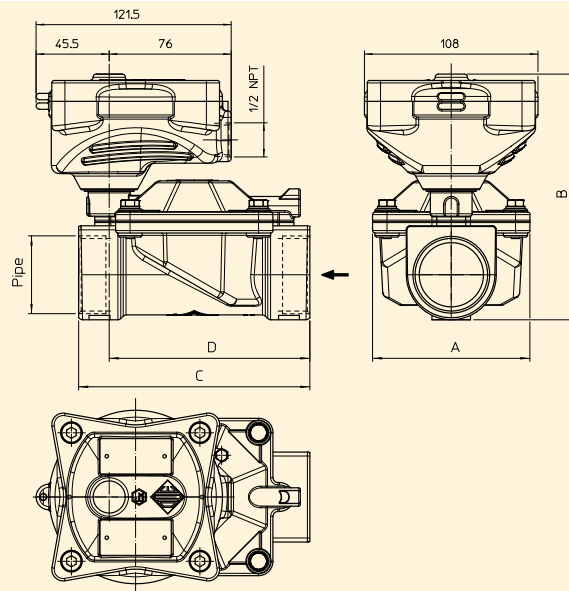
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- 1. Coil:**
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 BDA08024DS
 BDA08048AS
 BDA08048CS
 BDA08110CS
 BDA08110DS
 BDA08223DS

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 ~	
8 W	25	14,5	B



**Solenoid valve 2/2 way N.C.
With pilot control
Explosion proof - Ex d IIC T4**

21W3KJB190-XXXX

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21W7KJB500-XXXX

PRESENTATION:

S.V. with pilot control for interception of fluids compatible with the construction materials.

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

PIPES: G 3/4 - G 2

COILS: 8W - Ø 13
BDA -BDS - BSA 155°C (class F)

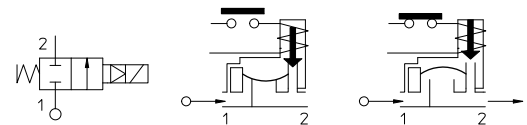


Max. allowable pressure (PS)

G 3/4 - G 1 25 bar
G 1 1/4 - G 2 16 bar
Ambient temperature: - 20°C + 60°C

Gaskets	Temperature		Medium
B=NBR (nitrile rubber)	- 20°C	+ 80°C	Air, inert gas, water
V=FKM (fluoroelastomer)	- 20°C	+ 80°C	Mineral oils (2°E), gasoline gas oil, fuel oils (7°E)

For seals other than NBR replace the letter "B" with the ones corresponding to the other seals. E.I. 21W3KJV190-XXXX.



Pipe ISO 228/1	Code	Max viscosity		Ø mm	Kv l/mn	Power (watt)	Pressure		
		cSt	°E				min bar	M.O.P.D. AC bar DC bar	
G 3/4	21W3KJB190-XXXX*	12	~ 2	19	140	8	0,2	16	16
G 1	21W4KJB250-XXXX*			25	190				
G 1 1/4	21W5KJB350-XXXX*			35	400			10	10
G 1 1/2	21W6KJB400-XXXX*			40	520				
G 2	21W7KJB500-XXXX*			50	750				



CE Approval

(Pressure Equipment Directive 97/23/CE)

for EV 21W5÷21W7

(According to Directive 94/9/CE ATEX)



Nota

* (-XXXX) Coil code.

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

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
Orifice	Brass - UNI EN 12165 CW617N

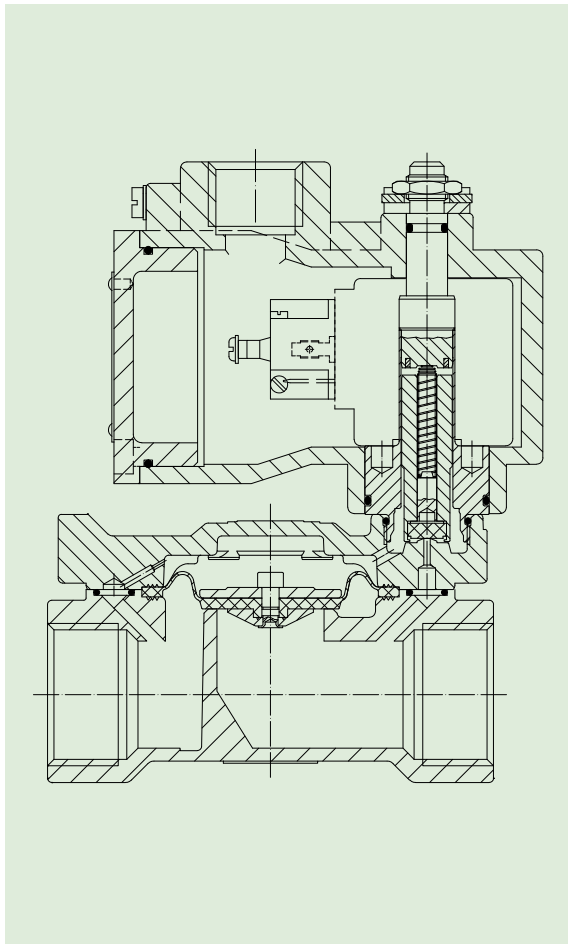
Connector conformity ISO 4400

FEATURES:

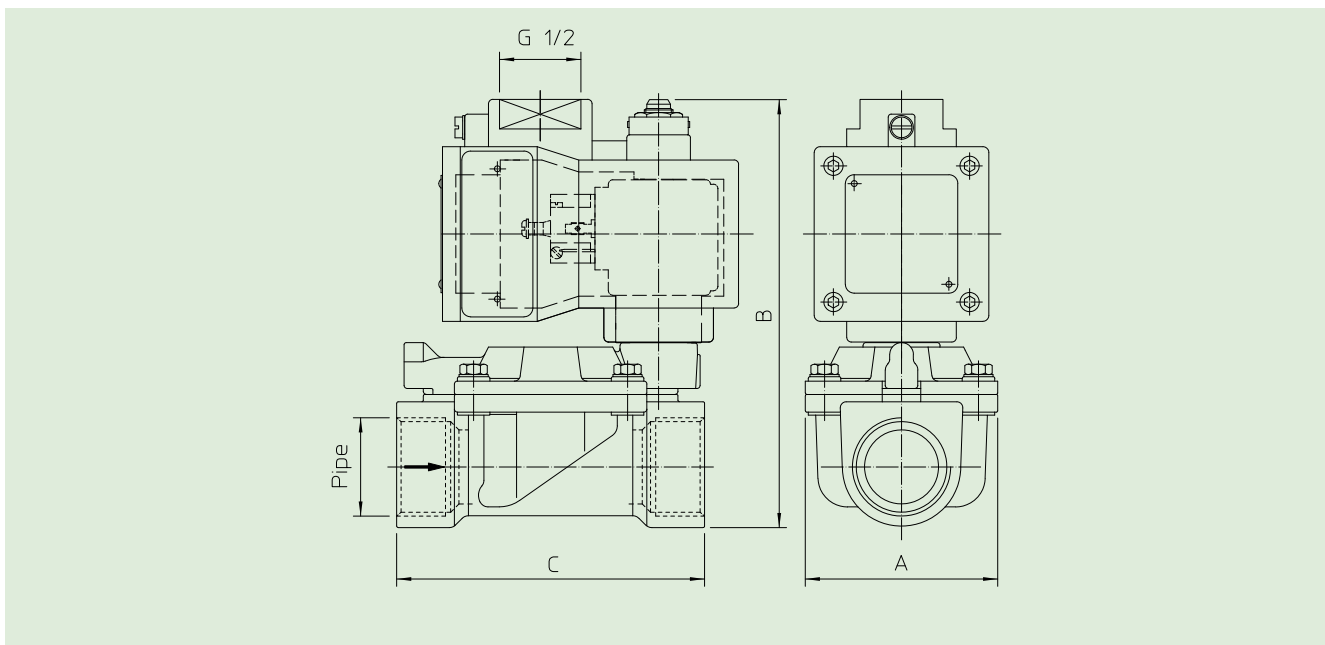
Electrical conformity	IEC 335
Protection degree	IP 67 EN 60529 (DIN 40050) with coil fitted by connector.

SPARE PARTS:

These articles cannot be supplied
as spare part according to Directive 94/9/CE ATEX



DIMENSIONS:



Type	Pipe ISO 228/1	A mm	B mm	C mm
21W3KJB190-XXXX	G 3/4	65	137	104
21W4KJB250-XXXX	G 1		145	
21W5KJB350-XXXX	G 1 1/4	98	163	144
21W6KJB400-XXXX	G 1 1/2			
21W7KJB500-XXXX	G 2	118	173	172

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