



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 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: G 3/4 - G 2

COIL: 8W - Ø 13
BDV 180°C (class H)

Max. allowable pressure (PS)

G 3/4 - G 1 25 bar

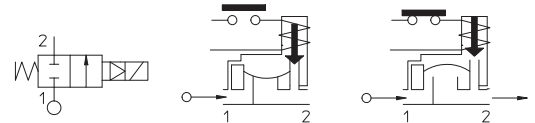
G 1 1/4 - G 2 16 bar

Housing ambient temperature - 40°C + 60°C

Gaskets	Temperature		Medium
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. 21W3KIV190.

Pipe ISO 228/1	Code	Max viscosity		Ø mm	Kv l/mn	Power watt	Pressure		
		cSt	°E				min bar	M.O.P.D.	
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				



CE Approval

(Pressure Equipment Directive 2014/68/EU)

for S.V. 21W5÷21W7



(According to Directive 2014/34/EU ATEX)

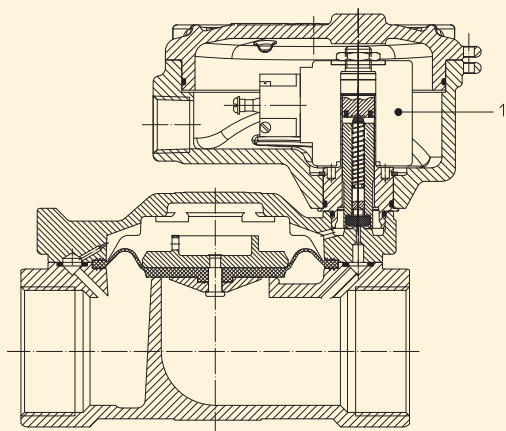
II 2G Ex d IIC T6 o T5 Gb

II 2D Ex tb IIIC T80°C o 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:

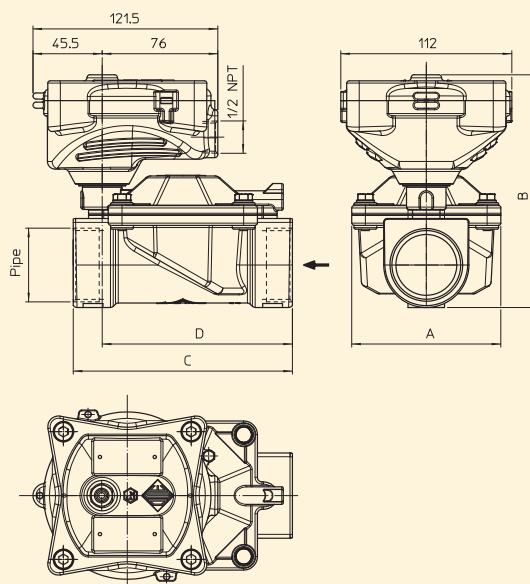
1. Coil:

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

ACCESSORIES:

Code P992219 Cable Gland
(to be ordered separately)

DIMENSIONS:



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