



Solenoid valve 2/2 way N.C. Direct acting

21A3KV10
÷
21A2KV55

PRESENTATION:

Direct acting S.V. for interception of fluids compatible with the construction materials.

Minimum operational pressure is not required.

The materials used and the tests carried out ensure maximum reliability and duration.

USE: Automation
Heating

PIPES: G 1/8 - G 1/4

COILS:

8W - Ø 13 (1)		
BDA - BSA	155°C	(class F)
BDV	180°C	(class H)
12W - Ø 13		
UDA	155°C	(class F)
14W - Ø 13		
GDH - GDV	180°C	(class H)

(1) Explosion-proof housing for coils with electrical connections EN 175301-803 on request.

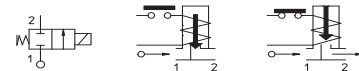
COIL HOUSING AND COIL FORMER MATERIAL ARE MADE BY 100% VIRGIN MATERIAL.

Gaskets	Temperature		Medium
	- 10°C	+140°C	
V=FKM (fluoroelastomer)	- 10°C	+140°C	Mineral oils (2°E), gasoline gas oil, fuel oils (7°E)
B=NBR (nitrile rubber)	- 10°C	+ 90°C	Air, inert gas, water
E=EPDM (ethylene-propylene)	- 10°C	+140°C	Water, steam

For seals other than FKM replace the letter "V" with the ones corresponding to the other seals. E.I. 21A2KE20.



Max. allowable pressure (PS) 40 bar
Ambient temperature:
See coils catalogue page for its compatibility.



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 1/8	21A3KV10	12	~ 2	1	0,45	8	0	35	35
						12			
	21A3KV15	1,5	1,4	8	30	18			
				12	22	16			
	21A3KV20	37	~ 5	2	2	12		35	30
						14		14	9
	21A3KV25	53	~ 7	2,5	3,2	8		30	25
						12		10	6
	21A3KV30	3	4	4,5	6,5	12		25	18
						14		20	20
	21A3KV45	8	12	5	2	8		5	2
						12		12	7
21A2KV10	12	~ 2	1	0,45	8	35	35		
					12				
21A2KV15	1,5	1,4	8	30	18				
			12	22	16				
21A2KV20	37	~ 5	2	2	12	35	30		
					14	14	9		
21A2KV25	53	~ 7	2,5	3,2	8	30	25		
					12	10	6		
21A2KV30	3	4	4,5	6,5	12	25	18		
					14	20	20		
21A2KV45	8	12	5	2	8	5	2		
					12	12	7		
21A2KV55	9	8	3	1	12	7	2,5		
					14	10	5		

Note Also available with brass body without lead.

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: V=FKM On request: B=NBR E=EPDM

Orifice:	
< 3 mm	Insert slot
> 3 mm	Stainless steel AISI series 300 Brass - UNI EN 12165 CW617N

On request:	
Connector	Pg 9 or Pg 11
Connector conformity	ISO 4400

FEATURES:

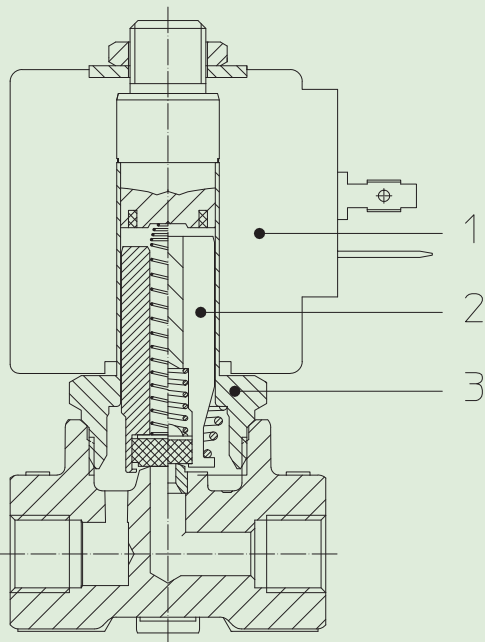
Electrical conformity	IEC 335
Protection degree	IP 65 EN 60529 (DIN 40050) with coil fitted by connector.

SPARE PARTS:

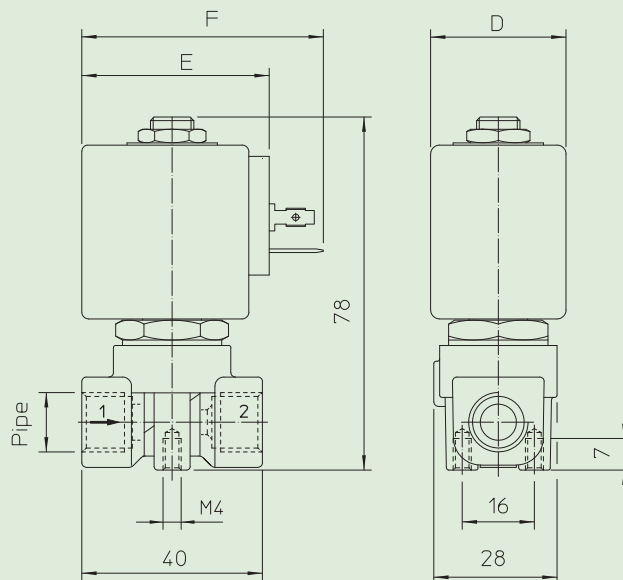
- Coil:**
See coils list
- Complete plunger:**
For orifice ≤ 3 mm
Code R450886/V
For orifice > 3 mm
Code R450898/V
- Complete armature tube:**
Code R450606

KIT:

≤ 3 mm	KT130KV30-A=2+3
> 3 mm	KT130KV55-A=2+3



DIMENSIONS:



Type	Pipe ISO 228/1
21A3KV	G 1/8
21A2KV	G 1/4

COIL TYPE	POWER ABSORPTION			DIMENSIONS		
	W ==	Hold VA ~	Inrush VA ~	D mm	E mm	F mm
B	8	14,5	25	30	42	54
U	12	23	35	36	48	60
G	14	27	43	52	55	67



Solenoid valve 2/2 way N.O. Direct acting

21A3ZR15D
÷
21A2ZR30G

PRESENTATION:

Direct acting S.V. for interception of fluids compatible with the construction materials.

Minimum operational pressure is not required.

The materials used and the tests carries out ensure maximum reliability and duration.

USE: Hot water, Heating
Steam (180°C)

PIPES: G 1/8 - G 1/4

COILS:

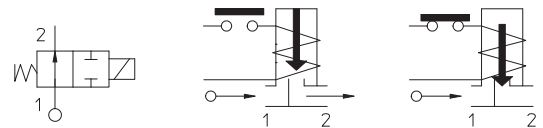
8W - Ø 13	
BDA - BSA	155°C (class F)
BDV	180°C (class H)
12W - Ø 13	
UDA	155°C (class F)
14W - Ø 13	
GDH - GDV	180°C (class H)

**COIL HOUSING AND COIL FORMER MATERIAL ARE
MADE BY 100% VIRGIN MATERIAL.**

Max. allowable pressure (PS) 40 bar

Ambient temperature:

See coils catalogue page for its compatibility.



Gaskets	Temperature		Medium
	- 40°C	+180°C	
R=RUBY			Steam, water, mineral oils (2°E), gas oil, fuel oils (7°E)

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 1/8	21A3ZR15D	12	~ 2	1,5	1,4	8	0	35	35	
	21A3ZR20D	37	~ 5	2	2			30	30	
	21A3ZR25D	53	~ 7	2,5	3,2			12	16	16
	21A3ZR25G							14	17	17
	21A3ZR30D			3	4			8	10	10
	21A3ZR30G							12	15	15
14										
G 1/4	21A2ZR15D	12	~ 2	1,5	1,4	8	0	35	35	
	21A2ZR20D	37	~ 5	2	2			30	30	
	21A2ZR25D	53	~ 7	2,5	3,2			12	16	16
	21A2ZR25G							14	17	17
	21A2ZR30D			3	4			8	10	10
	21A2ZR30G							12	15	15
14										

Note

Also available with brass body without lead.

The use of rigid sealings usually implies a slight leakage, limited within 2scc/min at the pressure of 1 bar.

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	R=RUBY
Orifice: Insert slot	Stainless steel AISI series 300

On request:

Connector	Pg 9 or Pg 11
Connector conformity	ISO 4400

FEATURES:

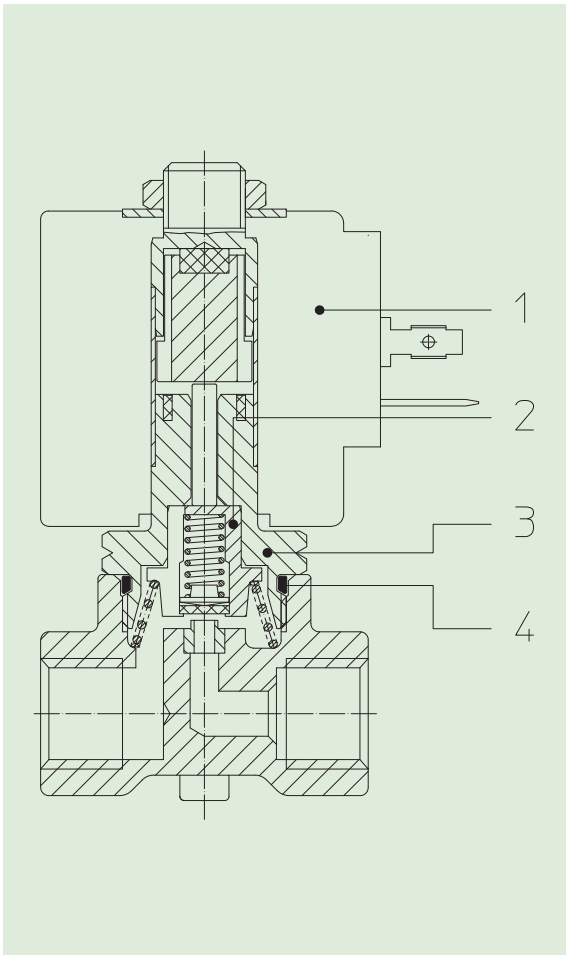
Electrical conformity	IEC 335
Protection degree	IP 65 EN 60529 (DIN 40050) with coil fitted by connector.

SPARE PARTS:

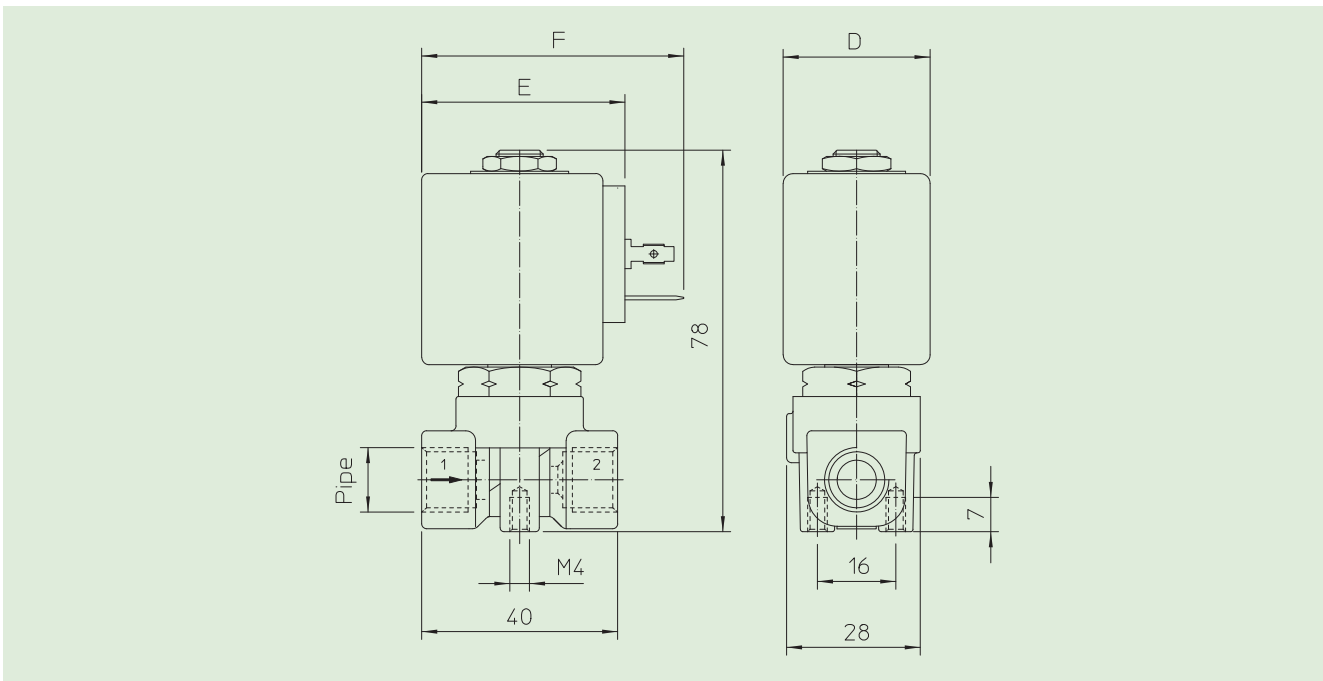
- 1. Coil:**
See coils list
- 2. Complete diaphragm support:**
8W Code R450789
12W - 14W
Code R450789/14
- 3. Complete armature tube without gasket:**
Code R450573
- 4. Gasket O-Ring:**
Code R990000/V

KIT:

- 8W
KT130ZR30-F=2+3+4
12W - 14W
KT130ZR30-G=2+3+4



DIMENSIONS:



Type	Pipe ISO 228/1
21A3ZR	G 1/8
21A2ZR	G 1/4

COIL TYPE	POWER ABSORPTION			DIMENSIONS		
	W ==	Hold VA ~	Inrush VA ~	D mm	E mm	F mm
B	8	14,5	25	30	42	54
U	12	23	35	36	48	60
G	14	27	43	52	55	67



Solenoid valve 3/2 way N.C. Direct acting

31A3AV10
÷
31A2AV30

PRESENTATION:

Direct acting S.V. for interception of fluids compatible with the construction materials.

Minimum operational pressure is not required.

The materials used and the tests carried out ensure maximum reliability and duration.

USE: Automation
Heating

PIPES: G 1/8 - G 1/4

COILS: 8W - Ø 13
BDA - BSA 155°C (class F)
BDV 180°C (class H)
(1) Explosion-proof housing for coils with electrical connections EN 175301-803 on request

COIL HOUSING AND COIL FORMER MATERIAL ARE MADE BY 100% VIRGIN MATERIAL.

Max. allowable pressure (PS) 40 bar

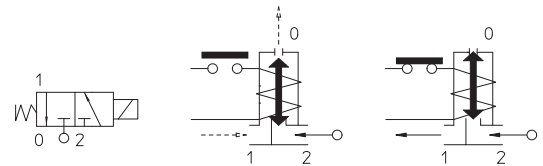
Ambient temperature:

See coils catalogue page for its compatibility.



Gaskets	Temperature		Medium
	- 10°C	+140°C	
V=FKM (fluoroelastomer)	- 10°C	+140°C	Mineral oils (2°E), gasoline gas oil
B=NBR (nitrile rubber)	- 10°C	+ 90°C	Air, inert gas, water

For seals other than FKM replace the letter "V" with the ones corresponding to the other seals. E.I. 31A3AB15.



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 1/8	31A3AV10	12	~ 2	1*	0,45	8	0	20	20
	31A3AV15			1,5*	1,4			15	15
	31A3AV20	37	~ 5	2*	2			10	10
	31A3AV25	53	~ 7	2,5*	3,2			6	6
	31A3AV30			3*	4			5	5
G 1/4	31A2AV10	12	~ 2	1*	0,45			20	20
	31A2AV15			1,5*	1,4			15	15
	31A2AV20	37	~ 5	2*	2			10	10
	31A2AV25	53	~ 7	2,5*	3,2			6	6
	31A2AV30			3*	4			5	5

Note

* 3rd way exhaust= Ø 2,5 mm

Also available with brass body without lead.

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: V=FKM On request: B=NBR
Orifice: Insert slot	Stainless steel AISI series 300

On request:

Connector	Pg 9 or Pg 11
Connector conformity	ISO 4400

FEATURES:

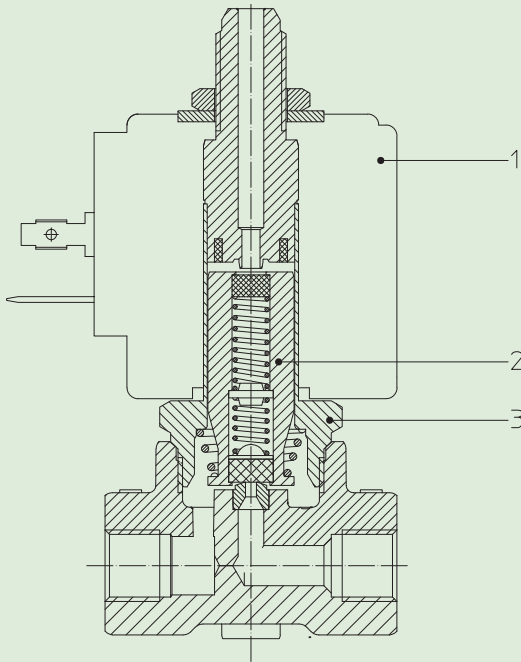
Electrical conformity	IEC 335
Protection degree	IP 65 EN 60529 (DIN 40050) with coil fitted by connector

SPARE PARTS

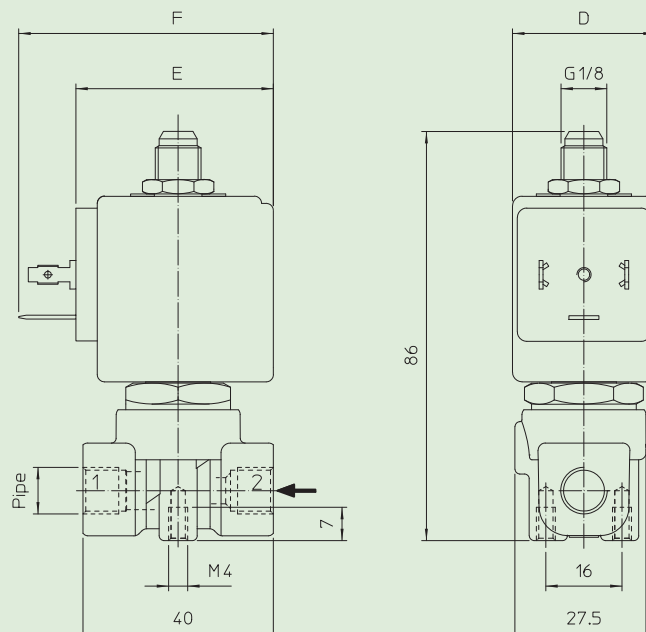
- Coil:**
See coils list
- Complete plunger:**
Code R450675/V
- Complete armature tube:**
Code R450944

KIT:

KT130AV30-A=2+3



DIMENSIONS:



Type	Pipe ISO 228/1
31A3AV	G 1/8
31A2AV	G 1/4

COIL TYPE	POWER ABSORPTION			DIMENSIONS		
	W ---	Hold VA ~	Inrush VA ~	D mm	E mm	F mm
B	8	14,5	25	30	42	54



Solenoid valve 2/2 way N.C. With pilot control

21WA3K0B130

÷

21WA4K0B130

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: Automation
Heating

PIPES: G 3/8 - G 1/2

COILS: 8W - Ø 13
BDA - BSA 155°C (class F)
BDV 180°C (class H)

COIL HOUSING AND COIL FORMER MATERIAL ARE MADE BY 100% VIRGIN MATERIAL.

Max. allowable pressure (PS) 25 bar

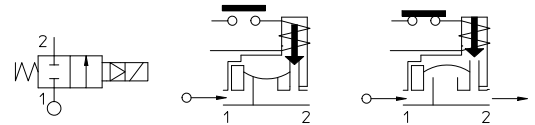
Ambient temperature:

See coils catalogue page for its compatibility.



Gaskets	Temperature		Medium
	- 10°C	+ 90°C	
B =NBR (nitrile rubber)	- 10°C	+ 90°C	Air, inert gas, water
E =EPDM (ethylene-propylene)	- 10°C	+140°C	Water, low pressure steam
V =FKM (fluoroelastomer)	- 10°C	+140°C	Mineral oils (2°E), gasoline gas oil

For seals other than NBR replace the letter "B" with the ones corresponding to the other seals. E.I. 21WA3K0V130.



Pipe ISO 228/1	Code	Max viscosity		Ø mm	Kv l/mn	Power watt	Pressure		
		cSt	°E				min	M.O.P.D.	
							bar	AC bar	DC bar
G 3/8	21WA3K0B130	12	~ 2	13	60	8	0,2	16	16
G 1/2	21WA4K0B130				70				

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

On request:

Connector	Pg 9 or Pg 11
Connector conformity	ISO 4400

FEATURES:

Electrical conformity	IEC 335
Protection degree	IP 65 EN 60529 (DIN 40050) with coil fitted by connector.

SPARE PARTS:

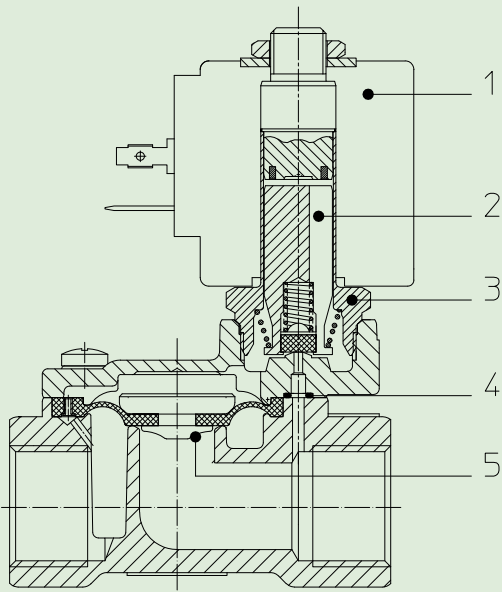
- Coil:**
See coils list
- Complete plunger:**
Code R450886/B
- Complete armature tube:**
Code R450606
- Gasket O-Ring:**
Code R990300/B
- Complete diaphragm:**
Code R452186/B

KIT:

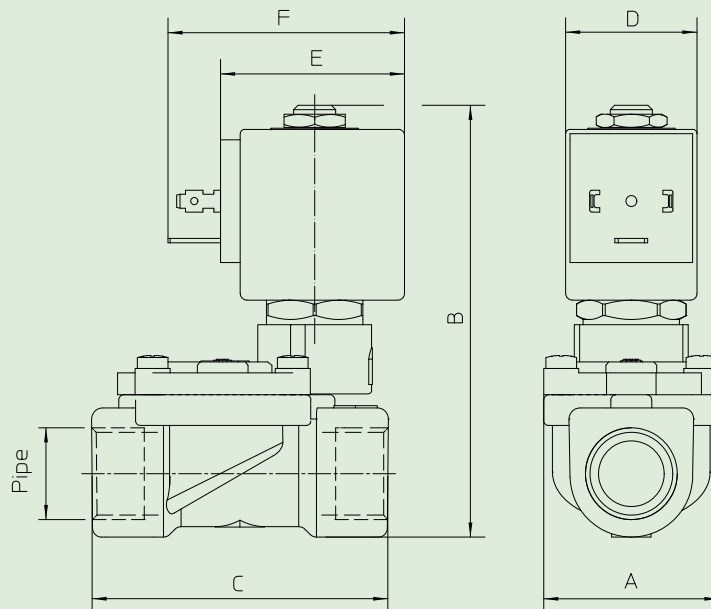
KT130KB30-A= 2+3

MAINTENANCE KIT:

KTGWA3K0B13= 2+4+5



DIMENSIONS:



Type	Pipe ISO 228/1	A mm	B mm	C mm
21WA3K0B130	G 3/8	40	97	60
21WA4K0B130	G 1/2			66

COIL TYPE	POWER ABSORPTION			DIMENSIONS		
	W =	Hold VA ~	Inrush VA ~	D mm	E mm	F mm
B	8	14,5	25	30	42	54



Solenoid valve 2/2 way N.C. With pilot control

21W3KB190

÷

21W7KB500

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: Automation
Heating

PIPES: G 3/4 - G 2

COILS: 8W - Ø 13
BDA - BSA 155°C (class F)
BDV 180°C (class H)

COIL HOUSING AND COIL FORMER MATERIAL ARE MADE BY 100% VIRGIN MATERIAL.

Max. allowable pressure (PS)

G 3/4 - G 1 23 bar

G 1 1/4 - G 2 16 bar

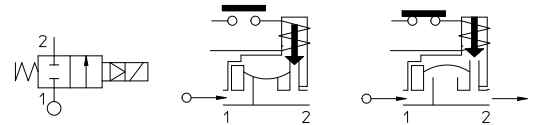
Ambient temperature:

See coils catalogue page for its compatibility.



Gaskets	Temperature		Medium
	- 10°C	+ 90°C	
B =NBR (nitrile rubber)	- 10°C	+ 90°C	Air, inert gas, water
E =EPDM (ethylene-propylene)	- 10°C	+140°C	Water, low pressure steam
V =FKM (fluoroelastomer)	- 10°C	+140°C	Mineral oils (2°E), gasoline gas oil

For seals other than NBR replace the letter "B" with the ones corresponding to the other seals. E.I. 21W3KE190.



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	21W3KB190	12	~ 2	19	140	8	0,2	16	16
G 1	21W4KB250			25	190				
G 1 1/4	21W5KB350			35	400			10	10
G 1 1/2	21W6KB400			40	520				
G 2	21W7KB500			50	750				



CE Approval

(Pressure Equipment Directive 97/23/CE)

for S.V. 21W5÷21W7

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

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: E=EPDM V=FKM
Orifice	Brass - UNI EN 12165 CW617N

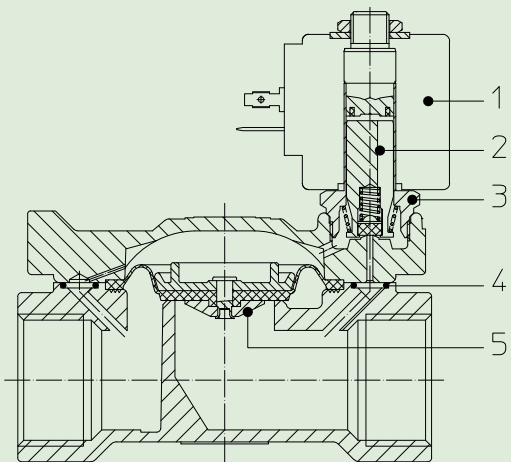
On request:
Connector Pg 9 or Pg 11
Connector conformity ISO 4400

FEATURES:

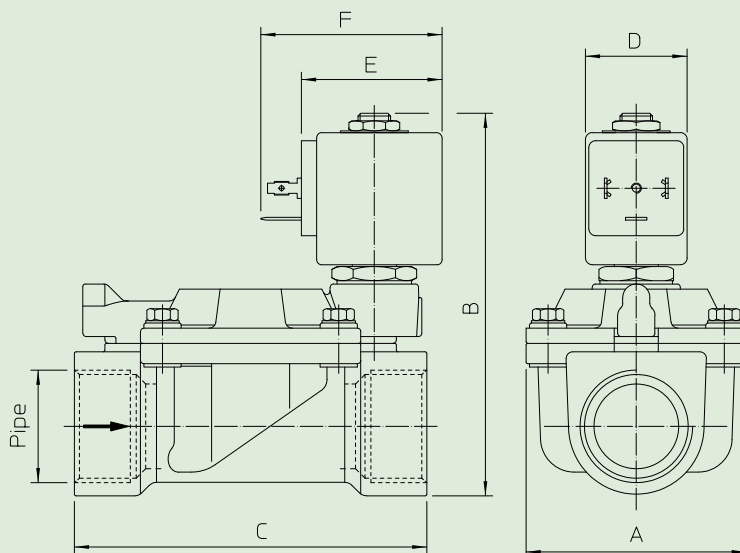
Electrical conformity IEC 335
Protection degree IP 65 EN 60529 (DIN 40050)
 with coil fitted by connector.

SPARE PARTS:

- | | |
|---|--|
| 1. Coil:
See coils list | KIT:
KT130KB30-A=2+3 |
| 2. Complete plunger:
Code R450886/B | MAINTENANCE KIT: |
| 3. Complete armature tube:
Code R450606 | G 3/4-G 1
KTG0W3KB19=2+4+5 |
| 4. Gasket O-Ring:
G 3/4-G 1 Code R990002/B
G 1 1/4-G 1 1/2 Code R990005/B
G 2 Code R990081/B | G 1 1/4-G 1 1/2
KTG0W5KB35=2+4+5
G 2
KTG0W7KB50=2+4+5 |
| 5. Complete diaphragm:
G 3/4-G 1 Code R450431/B
G 1 1/4-G 1 1/2 Code R450466/B
G 2 Code R450432/B | |



DIMENSIONS:



Type	Pipe ISO 228/1	A mm	B mm	C mm
21W3KB190	G 3/4	65	105	104
21W4KB250	G 1		112	
21W5KB350	G 1 1/4	98	125	144
21W6KB400	G 1 1/2			
21W7KB500	G 2	118	141	172

COIL TYPE	POWER ABSORPTION			DIMENSIONS		
	W =	Hold VA ~	Inrush VA ~	D mm	E mm	F mm
B	8	14,5	25	30	42	54