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

21A5K*V*45 ÷ 21A8K*V*55

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 3/8 - G 1/2

COILS:

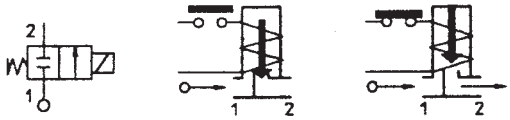
8W -Ø 13 (1)		
BDA - BDS - BSA	155°C	(class F)
BDP	160°C	(high temperature)
BDF	180°C	(class H)
SDH	180°C	(class H)
12W - Ø 13		
UDA	155°C	(class F)
14W - Ø 13		
GDH	180°C	(class H)

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

MOULDING AND BOBBIN ARE MADE BY 100% VIRGIN MATERIAL.

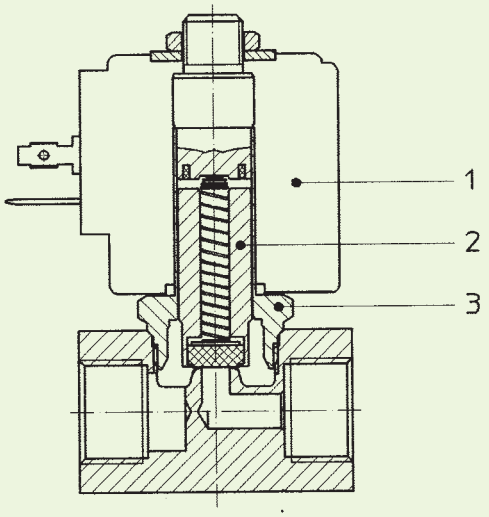
Max. allowable pressure (PS) 40 bar
Environment temperature:
with class **F** or high temperature coils - 10°C + 60°C
with class **H** coil - 10°C + 80°C

Gaskets	Temperature		Medium
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



For seals other than FKM replace the letter "**V**" with the ones corresponding to the other seals. E.I. 21A5K**B**55.

Pipe ISO 228/1	Code	Max viscosity		Ø	Kv	Power	Pressure		
							min	M.O.P.D.	
		cSt	°E	mm	(l/mn)	(watt)	bar	AC bar	DC bar
G 3/8	21A5K**V**45	53	~ 7	4,5	6,5	8	0	5	2
						12		12	7
						14			8
	21A5K**V**55			5,5	9	8		3	1
						12		7	2,5
						14		10	5
G 1/2	21A8K**V**45			4,5	6,5	8		5	2
						12		12	7
						14			8
	21A8K**V**55			5,5	9	8		3	1
						12		7	2,5
						14		10	5



MATERIALS:

Body	Brass - UNI EN 12164 CW614N
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	Brass - UNI EN 12164 CW614N
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.

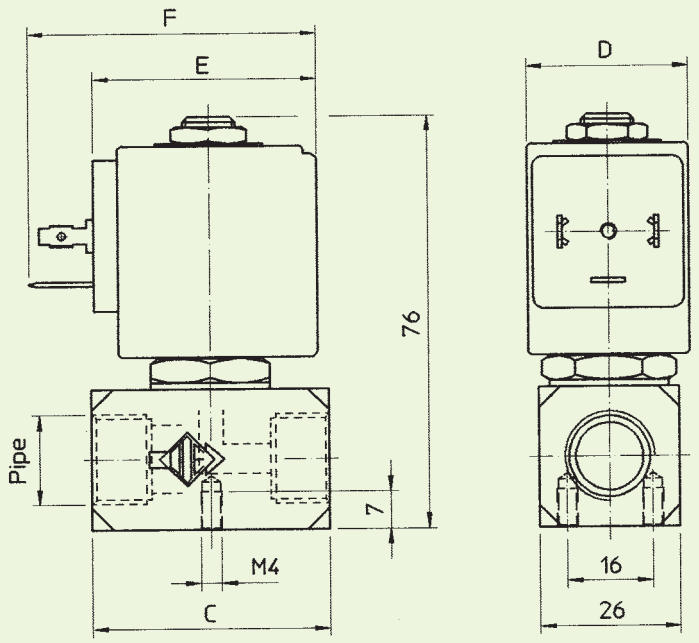
SPARE PARTS:

1. **Coil:**
   See coils list
2. **Complete plunger:**
   Code R450898/***V***
3. **Complete armature tube:**
   Code R450606

KIT:

KT130K***V***55-A=***2+3***

DIMENSIONS:



Type	Pipe ISO 228/1	C mm
21A5K**V**	G 3/8	44
21A8K**V**	G 1/2	58

COIL	POWER ABSORPTION		TYPE	DIMENSIONS		
W ⎓	Inrush VA ~	Hold VA ~		D mm	E mm	F mm
8 W	25	14,5	B	30	42	54
			S	32		
12 W	35	25	U	36	48	60
14 W	43	27	G	52	55	67

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

21H7K*V*120 ÷ 21H8K*V*120

PRESENTATION:

S.V. with pilot control for interception of fluids compatible with the construction materials.
A minimum operational pressure of 0,1 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

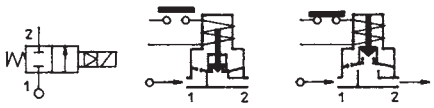
COILS:

8W - Ø 13		
BDA -BDS - BSA	155°C	(class F)
BDP	160°C	(high temperature)
BDF	180°C	(class H)
SDH	180°C	(class H)
12W - Ø 13		
UDA	155°C	(class F)
14W - Ø 13		
GDH	180°C	(class H)

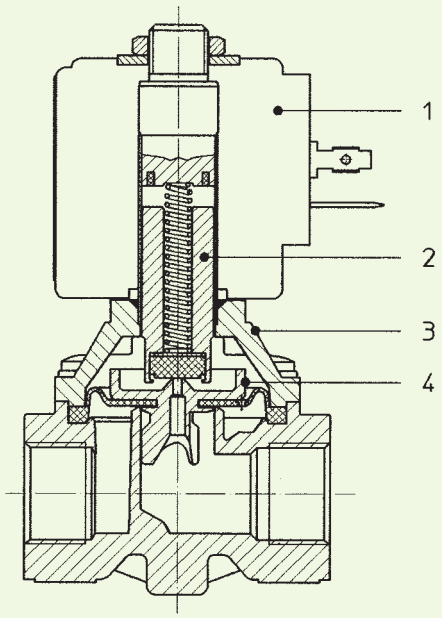
Max. allowable pressure (PS) 20 bar
Environment temperature:
with class **F** or high temperature coils - 10°C + 60°C
with class **H** coil - 10°C + 80°C

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

For seals other than FKM replace the letter "**V**" with the ones corresponding to the other seals. E.I. 21H7K**E**120.



Pipe ISO 228/1	Code	Max viscosity		Ø	Kv	Power	Pressure		
							min	M.O.P.D.	
		cSt	°E	mm	(l/mn)	(watt)	bar	AC bar	DC bar
G 3/8	21H7K**V**120	12	~ 2	12	35	8	0,1	20	10
						12			20
						14			
G 1/2	21H8K**B**120				45	8			10
						12			20
						14			



MATERIALS:

Body	Brass - UNI EN 12165 CW617N
Welded aramture 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	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.

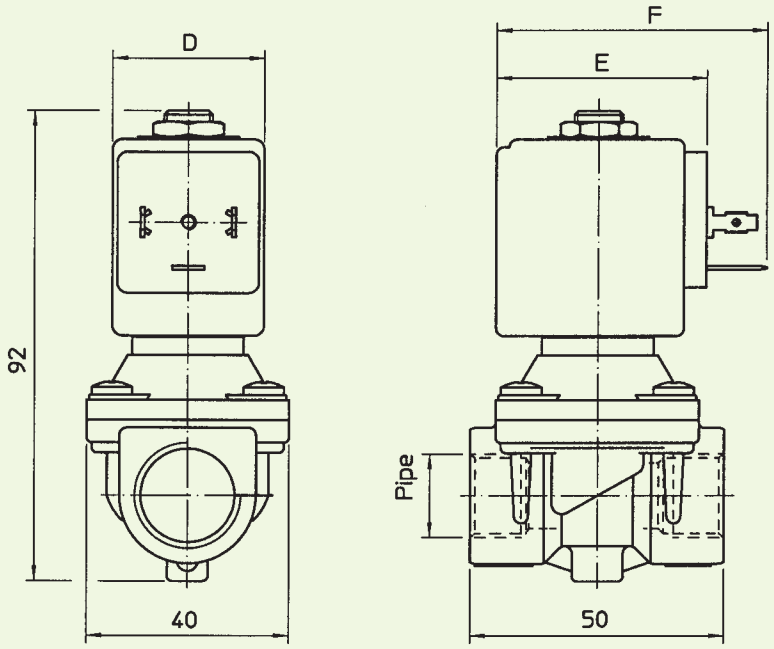
SPARE PARTS:

1. **Coil:**
   See coils list
2. **Complete plunger:**
   Code R451284/***V***
3. **Complete cover with armature tube:**
   Code R450938
4. **Complete diaphragm:**
   Code R450916/***V***

MAINTENANCE KIT:

KTG0H7K***V***12=***2+4***

DIMENSIONS:



Type	Pipe ISO 228/1
21H7K**V**120	G 3/8
21H8K**V**120	G 1/2

COIL	POWER ABSORPTION		TYPE	DIMENSIONS		
W ⎓	Inrush VA ~	Hold VA ~		D mm	E mm	F mm
8 W	25	14,5	B	30	42	54
			S	32		
12 W	35	25	U	36	48	60
14 W	43	27	G	52	55	67

Solenoid valve 2/2 way N.C.
Combined operation

21HT3K0Y110 ÷ 21HT6K0Y250-S

PRESENTATION:

Combined operation S.V. for interception of fluids compatibles 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, Vacuum packaging
Heating

PIPES: G 3/8 - G 1

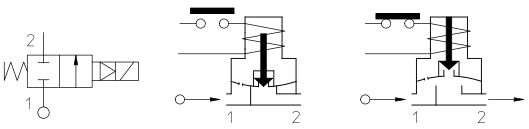
COILS:

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

MOULDING AND BOBBIN ARE MADE BY 100% VIRGIN MATERIAL.

Max. allowable pressure (PS) 16 bar
Ambient temperature:
with coils class **F** - 10°C + 60°C
with coils class **H** - 10°C + 80°C

Gaskets	Temperature		Medium
Y=NBR (nitrile rubber) + PA (polyamide)	- 10°C	+ 90°C	Air, gasoline, fuel oils, inert gas, water
V=FKM+ PA (fluorelastomer+poliamiyde)	- 10°C	+140°C	Mineral oils (2°E), gasoline gas oil

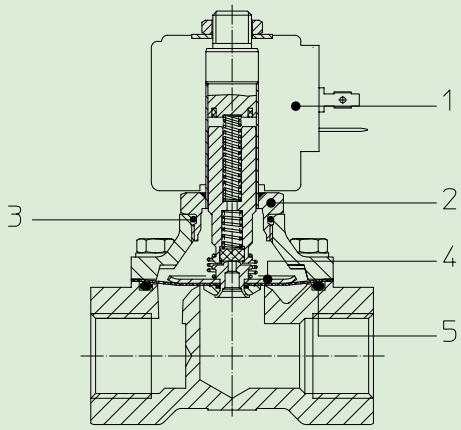


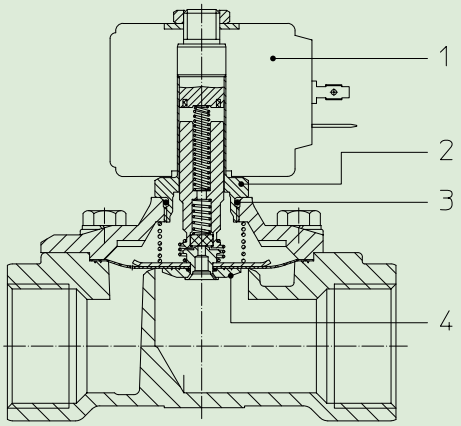
For seals other than FKM replace the letter "**V**" with the ones corresponding to the other seals. E.I. 21HT3K0***V***110.

Pipe ISO 228/1	Code	Max viscosity cSt	Max viscosity °E	Ø mm	Kv l/mn	Power (watt)	Pressure min bar	Pressure M.O.P.D. AC bar	Pressure M.O.P.D. DC bar
G 3/8	21HT3K0**Y**110	12	~ 2	11	20	8	0	14	5
						12			14
						14			
G 1/2	21HT4K0V160			16	40	8			2,5
						12			11
						14			14
G 3/4	21HT5K0**Y**160					8			1,5
						12			11
						14			14
G 1	21HT6K0**Y**250			25	120	8		8	-
						12		14	1,5
						14			6
	*21HT6K0**Y**250-S				90	8		-	1
						12			6
						14			12

21HT4K0V160/BDA08024CS/P990305
3,330 THB.

Note
* For DC only





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: Y=NBR+PA On request : V=FKM+PA
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.

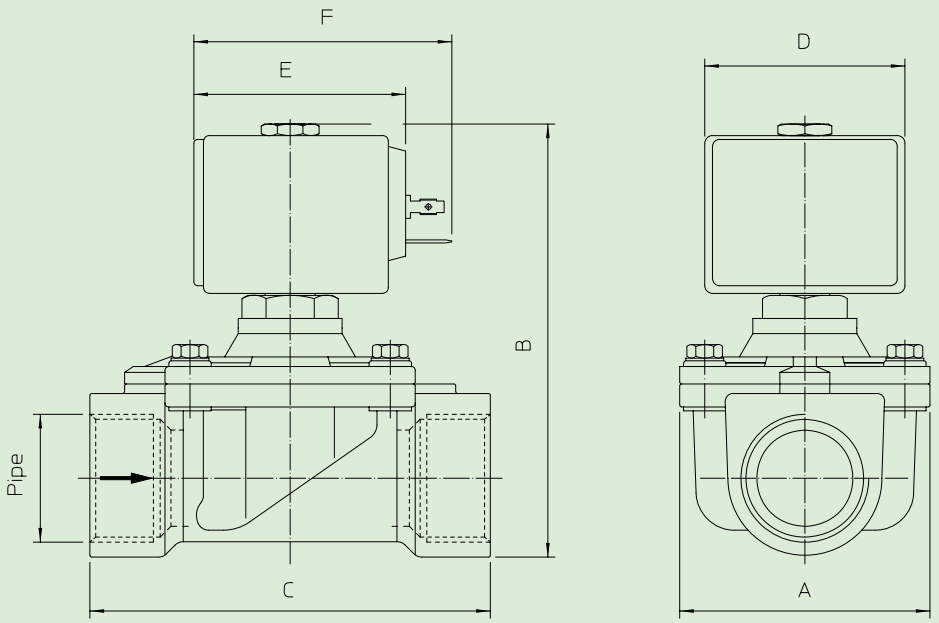
SPARE PARTS:

1. **Coil:**
   See coils list
2. **Complete armature tube without gasket:**
   G 3/8÷G 3/4 Code R450691
   G 1 Code R450603
3. **Gasket O-Ring:**
   Code R990000/***B***
4. **Complete diaphragm with plunger:**
   G 3/8 Code R452126/***B***
   G 1/2÷G 3/4 Code R452125/***B***
   G 1 Code R452555/***B***
5. **Gasekt O-Ring :**
   G 3/8÷G 3/4 Code R990105/***B***

MANITENANCE KIT:

G 3/8
KTGHT3K0***Y***11=***4+5***
G 1/2÷G 3/4
KTGHT4K0***Y***16=***4+5***
G 1
KTGHT6K0***Y***25=***4***

DIMENSIONS:



Type	Pipe ISO 228/1	A mm	B mm	C mm
21HT3K0**Y**110	G 3/8	50	89	56
21HT4K0**Y**160	G 1/2		100	70
21HT5K0**Y**160	G 3/4			
21HT6K0**Y**250	G 1	65	112	104
21HT6K0**Y**250-S				

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.C.
Combined operation

21IH3K1*V*150 ÷ 21IH8K1*V*400

PRESENTATION:

Combined operation 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 - Chemistry

PIPES: G 3/8 - G 1 1/2

COILS:

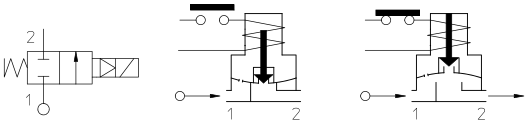
8W - Ø 13	
BDA -BDS - BSA	155°C (class F)
BDF - BDV	180°C (class H)
12W - Ø 13	
UDA	155°C (class F)
14W - Ø 13	
GDA - GDS	155°C (class F)
GDH - GDV	180°C (class H)

MOULDING AND BOBBIN ARE MADE BY 100% VIRGIN MATERIAL.

Max. allowable pressure (PS)	16 bar
Ambient temperature:	
with coils class **F**	- 10°C + 60°C
with coils class **H**	- 10°C + 80°C

Gaskets	Temperature		Medium
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

Per tenute diverse dal FKM sostituire la lettera "**V**" con le lettere corrispondenti alle altre tenute. Es. 21IH3K1***B***150.



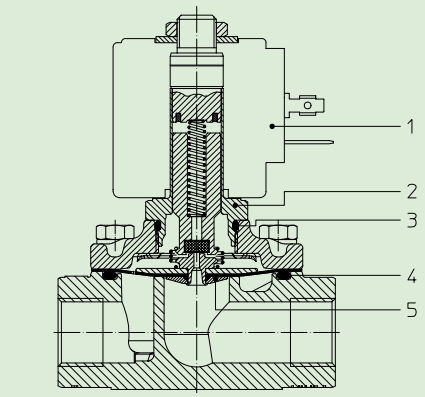
Pipe ISO 228/1	Code	Max viscosity		Ø	Kv	Power	Pressure		
							min	M.O.P.D.	
		cSt	°E	mm	l/mn	(watt)	bar	AC bar	DC bar
G 3/8	21IH3K1***V***150	12	~ 2	15	40	8	0	14	6
						12		-	14
G 1/2	21IH4K1***V***160			16	50	8		14	6
						12		-	14
G 3/4	21IH5K1***V***200			20	60	8		14	6
						12		-	14
G 1	21IH6K1***V***250			25	140	8		14	3
						12		-	8
						14		-	14
G 1 1/4	21IH7K1***V***350			35	300			14	-
G 1 1/2	21IH8K1***V***400			40	340			14	-

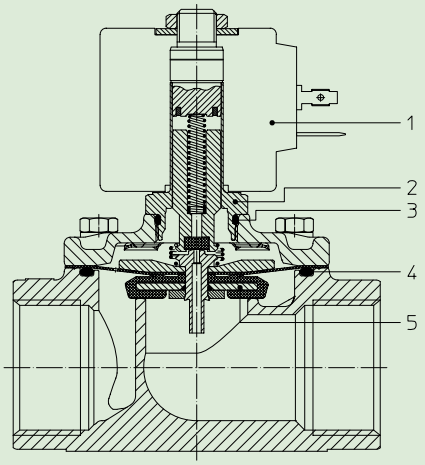
CE

CE Approval

(Pressure Equipment Directive 97/23/CE)

for S.V. 21IH7÷21IH8





MATERIALS:

Body	Stainless steel AISI 316
Armature tube	Stainless steel AISI 316
Fixed core	Stainless steel AISI series 400
Plunger	Stainless steel AISI series 400
Phase displacement ring	Gold plated copper
Spring	Stainless steel AISI series 300
Seal	Standard: V=FKM On request: B=NBR
Orificie	Stainless steel AISI 316
On request:	
Connector	Pg 9 o Pg 11
Connector conformity	ISO 4400

FEATURES:

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

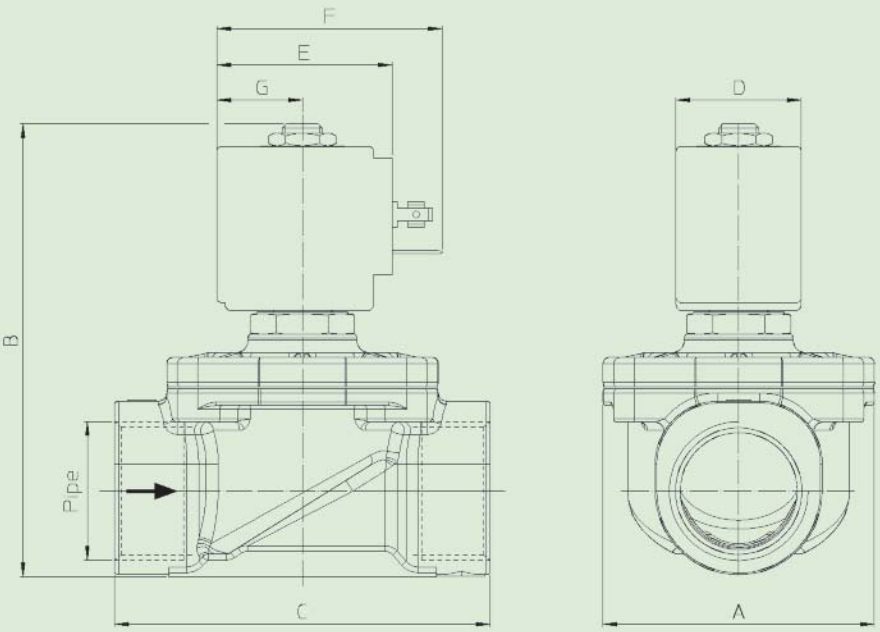
SPARE PARTS:

1. **Coil:**
   See coils list
2. **Complete plunger:**
   Code R450811
3. **Gasket O-Ring:**
   Code R990000/***V***
4. **Gasket O-Ring:**
   G 3/8÷G1/2 Code R990105/***V***
   G 3/4 Code R992103/***V***
   G 1 Code R992109/***V***
   G 1 1/4 ÷ G 1 1/2 Code R992101/***V***
5. **Complete diaphragm with plunger:**
   G 3/8÷G1/2 Code R452894/***V***
   G 3/4 Code R452899/***V***
   G 1 Code R452846/***V***
   G 1 1/4÷ G 1 1/2 Code R452904/***V***

MAINTENANCE KIT:

G 3/8 ÷ G 1/2
KTGIH3K1***V***15=**4+5**
G 3/4
KTGIH5K1***V***20=**4+5**
G1
KTGIH6K1***V***25=**4+5**
G 1 1/4 ÷ G 1 1/2
KTGIH7K1***V***35=**4+5**

DIMENSIONS:



Type	Pipe ISO 228/1	A mm	B mm	C mm
21IH3K1***V***150	G 3/8	52	92	68
21IH4K1***V***160	G 1/2			
21IH5K1***V***200	G 3/4	58	100	75
21IH6K1***V***250	G 1	65	109	90
21IH7K1***V***350	G 1 1/4	94	126	128
21IH8K1***V***400	G 1 1/2			

COIL TYPE	POWER ABSORPTION			DIMENSIONS			
	W ⎓	Hold VA ~	Inrush VA ~	D mm	E mm	F mm	G mm
B	8	14,5	25	30	42	54	20,5
U	12	23	35	36	48	60	23,5
G	14	27	43	52	55	67	25

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

21WA3R0*B*130 ÷ 21WA4R0*B*130

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: 5W - Ø 10

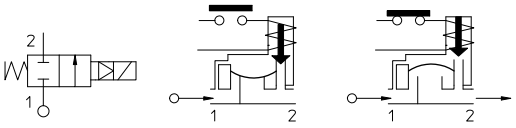
LBA	155°C (class F)
LBF - LBV	180°C (class H)

MOULDING AND BOBBIN ARE MADE BY 100% VIRGIN MATERIAL.

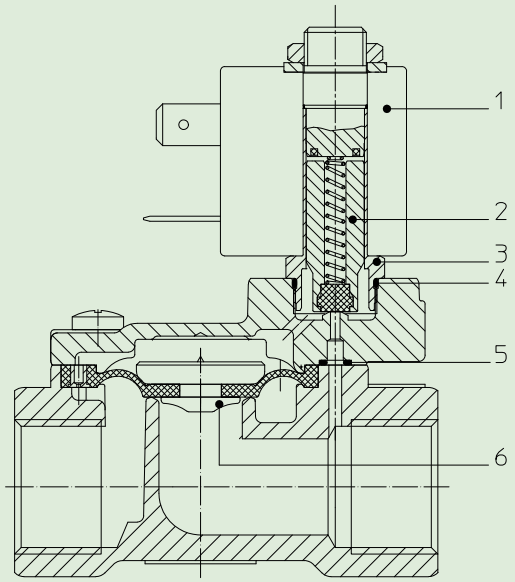
Max. allowable pressure (PS) 20 bar
Ambient temperature:
with coil class **F** - 10°C + 60°C
with coil class **H** - 10°C + 80°C

Gaskets	Temperature		Medium
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. 21WA3R0***V***130



Pipe ISO 228/1	Code	Max viscosity		Ø	Kv	Power	Pressure		
							min	M.O.P.D.	
		cSt	°E	mm	l/mn	(watt)	bar	AC bar	DC bar
G 3/8	21WA3R0**B**130	12	~ 2	13	60	5	0,2	12	12
G 1/2	21WA4R0**B**130				70				



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
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
2. **Complete plunger:**
   Code R451101/***B***
3. **Complete armature tube:**
   Code R452062
4. **Gasket O-Ring:**
   Code R990597/***B***
5. **Gasket O-Ring:**
   Code R990300/***B***
6. **Complete diaphragm:**
   Code R452186/***B***

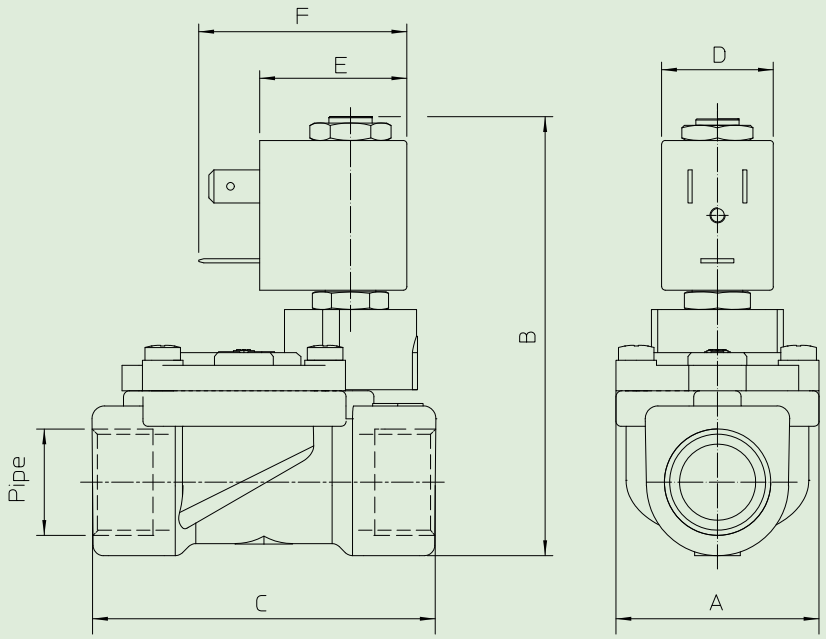
KIT:

KT100R0***B***25-FJ= ***2+3+4***

MAINTENANCE KIT

KTGWA3R0***B***13**= *2+5+6***

DIMENSIONS:



Type	Pipe ISO 228/1	A mm	B mm	C mm
21WA3R0**B**130	G 3/8	40	84,5	60
21WA4R0**B**130	G 1/2			66

COIL TYPE	POWER ABSORPTION			DIMENSIONS		
	W ⎓	Hold VA ~	Inrush VA ~	D mm	E mm	F mm
L	5	10	15	30	42	54