



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

21H7KV120  
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21H8KV120

## 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)  
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) 20 bar

Ambient temperature:

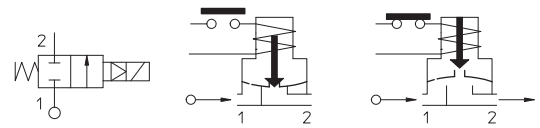
with coils class F - 10°C + 60°C

with coils class H - 10°C + 80°C

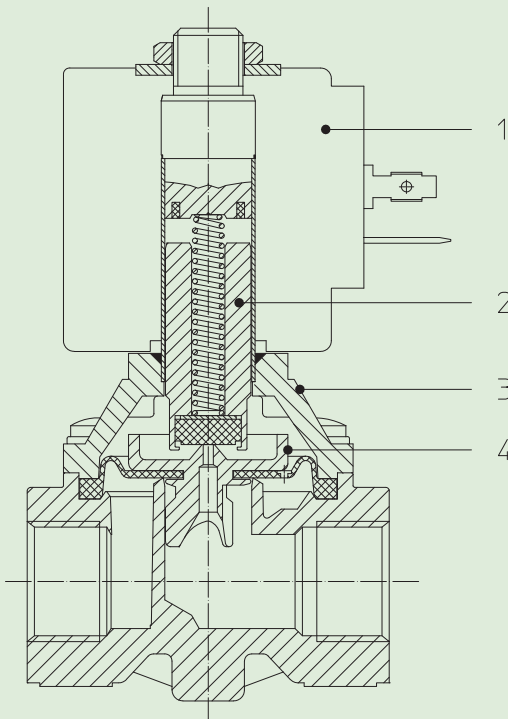


Gaskets	Temperature		Medium
	- 10°C	+140°C	
V=FKM (fluoroelastomer)	- 10°C	+140°C	Mineral oils (2°E), gasoline gas oils
B=NBR (nitrile rubber)	- 10°C	+ 90°C	Air, inert gas, water
E=EPDM (ethylene-propylene)	- 10°C	+140°C	Water, low pressure steam

For seals other than FKM replace the letter "V" with the ones corresponding to the other seals. E.I. 21H7KE120.



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 3/8	21H7KV120	12	~ 2	12	35	0,1	20	20	10	
									12	20
									14	20
G 1/2	21H8KV120	12	~ 2	12	45	0,1	20	20	10	
									12	20
									14	20



**MATERIALS:**

- Body** Brass - UNI EN 12165 CW617N
- Welded 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** 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.

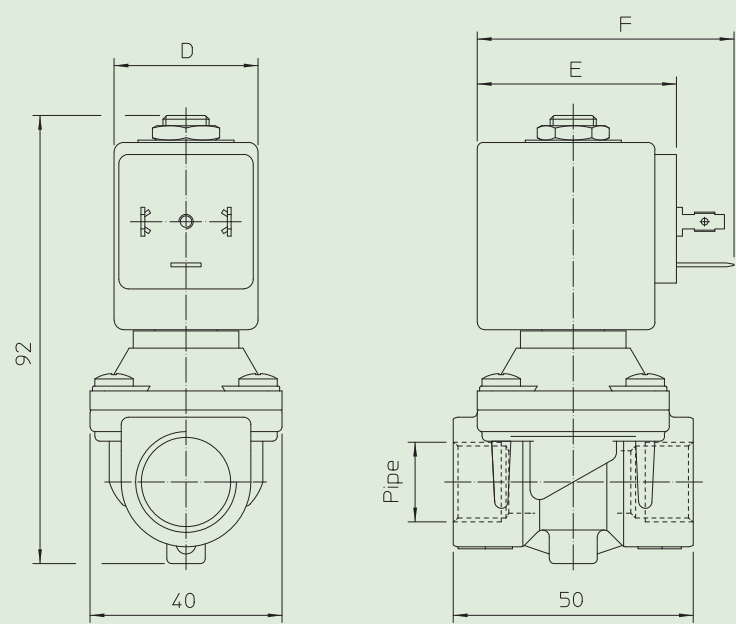
**SPARE PARTS:**

- 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:**

KTG0H7KV12=2+4

**DIMENSIONS:**



Type	Pipe ISO 228/1
21H7KV120	G 3/8
21H8KV120	G 1/2

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. With pilot control

21H9KV180

## 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 3/4

**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:

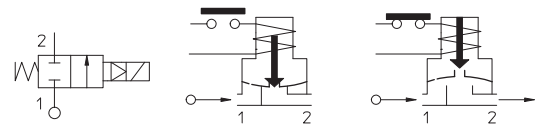
with coils class F - 10°C + 60°C

with coils class H - 10°C + 80°C

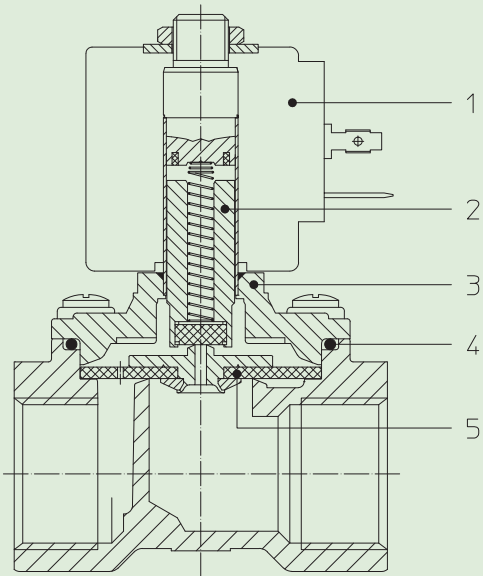


Gaskets	Temperature		Medium
V=FKM (fluoroelastomer)	- 10°C	+140°C	Mineral oils (2°E), gasoline gas oil
B=NBR (nitrile rubber)	- 10°C	+ 90°C	Air, inert gas, water
E=EPDM (ethylene-propylene)	- 10°C	+140°C	Water, steam

For seals other than FKM replace the letter "V" with the ones corresponding to the other seals. E.I. 21H9KB180.



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	21H9KV180	12	~ 2	18	50	8	0,1	16	3	
						12			10	
						14			16	



**MATERIALS:**

- Body** Brass - UNI EN 12165 CW617N
- Weleled armature tube** Stainless steel AISI series 300+  
Brass - UNI EN 12165 CW617N
- 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:** Pg 9 or Pg 11  
**Connector** ISO 4400  
**Connector conformity**

**FEATURES:**

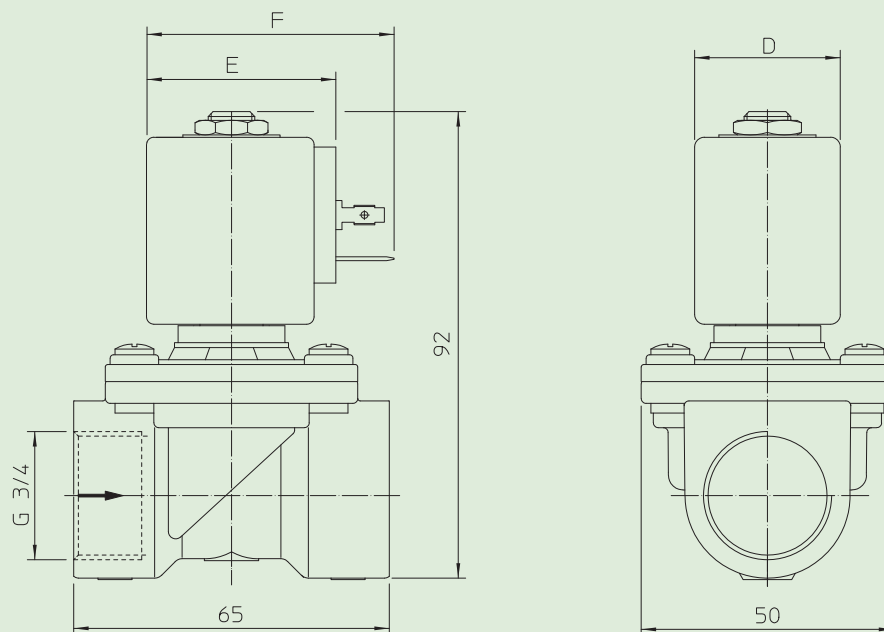
- Electrical conformity** IEC 335
- Protection degree** IP 65 EN 60529 (DIN 40050)  
with coil fitted by connector

**SPARE PARTS:**

- 1. Coil:**  
See coils list
- 2. Complete plunger:**  
Code R451284/V
- 3. Complete cover with armature tube without gasket:**  
Code R452291
- 4. Gasket O-Ring:**  
Code R990105/V
- 5. Complete diaphragm:**  
Code R451220/V

**MAINTENANCE KIT:**  
KTG0H9KV18=2+4+5

**DIMENSIONS:**



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