



# Solenoid valve 3/2 way N.C. Direct acting - NSF Certified

31AP1A1R15-13T0

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31AP1A1R30-13T0

## 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: Vending

PIPES: G 1/8

COIL: 8W - Ø 13

BDA - BSA 155°C (class F)

BDV 180°C (class H)

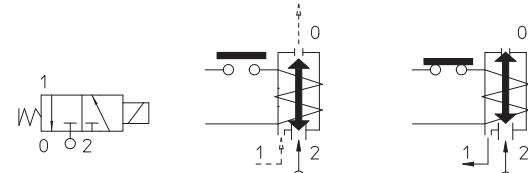
**COIL HOUSING AND COIL FORMER MATERIAL ARE MADE BY 100% VIRGIN MATERIAL.**

Ambient temperature:

See coils catalogue page for its compatibility.



Gaskets	Temperature	Medium
R=RUBY	- 40°C + 180°C	Water, air, steam



Max allowable pressure (PS) 16 bar - According to EN 60730-2-8 - Factor of safety for domestic applications equal to 5 times PS

Pipe ISO 228/1	Code	Max viscosity		Ø mm	Kv l/mn	Power watt	Pressure	
		cSt	°E				min	M.O.P.D
G 1/8	31AP1A1R15-13T0	12	~ 2	1,5*	1,1	8	0	15 15
	31AP1A1R20-13T0	37	~ 5	2*	1,8			10 10
	31AP1A1R25-13T0	53	~ 7	2,5*	2,5			6 6
	31AP1A1R30-13T0			3*	3,4			5 5

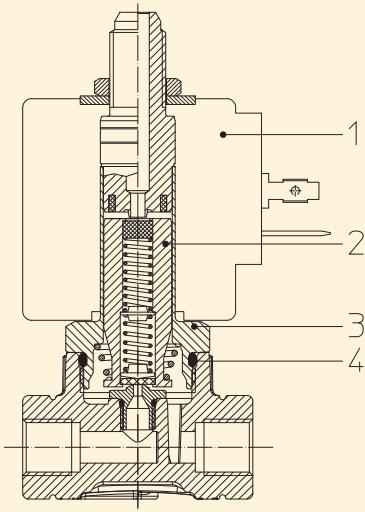
Max allowable pressure (PS) 25 bar - Safety factor for industrial application equal to 3 times PS

Pipe ISO 228/1	Code	Max viscosity		Ø mm	Kv l/mn	Power watt	Pressure	
		cSt	°E				min	M.O.P.D
G 1/8	31AP1A1R15-13T0	12	~ 2	1,5*	1,1	8	0	15 15
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	31AP1A1R30-13T0			3*	3,4			5 5

## Note

\* 3rd way exhaust= Ø 2,5 mm | Max torque for fittings 1,5 Nm, coil nut assembly 2 Nm, armature tube 3 Nm | Evaluate tightening torque for tapered fittings | Use the seal fittings compatible with the material of the body | Available with coil Ex nA; | The use of rigid sealings usually implies a slight leakage, limited within 2 cc/min at the pressure of 1 bar | For application with steam, please consult our Technical Service | Available on request and with minimum quantities.

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



#### MATERIALS:

<b>Body</b>	PPS
<b>Armature tube</b>	Stainless steel AISI series 300
<b>Fixed core</b>	Stainless steel AISI series 400
<b>Plunger</b>	Stainless steel AISI series 400
<b>Phase displacement ring</b>	Gold plated copper
<b>Spring</b>	Stainless steel AISI series 300
<b>Seal</b>	R=RUBY
<b>Orifice: Inserted slot</b>	Stainless steel series 300

#### On request:

<b>Connector</b>	Pg 9 or Pg 11
<b>Connector conformity</b>	ISO 4400

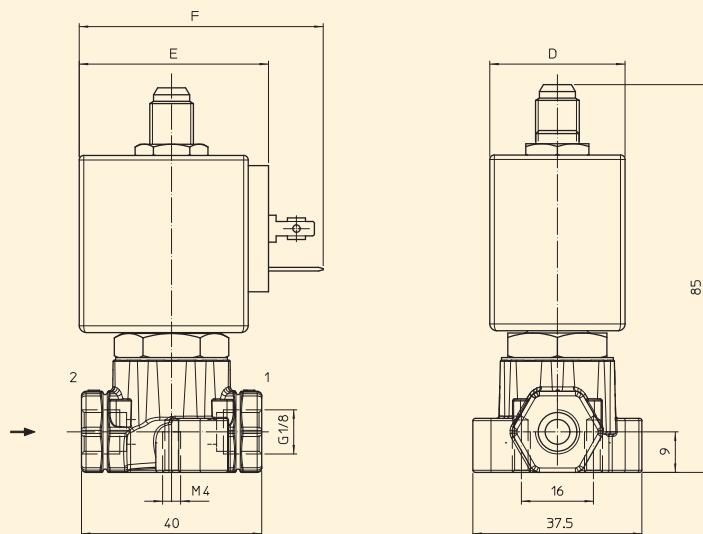
#### FEATURES:

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

#### SPARE PARTS:

- 1. Coil:**  
See coils list
- 2. Complete plunger:**  
Code R453258/**RVX**
- 3. Complete armature tube:**  
Code R451830/D
- 4. Gasket O-Ring:**  
Code R990000/**VX**

#### 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



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Minimum operational pressure is not required.

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USE: Vending

PIPES: G 1/8

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

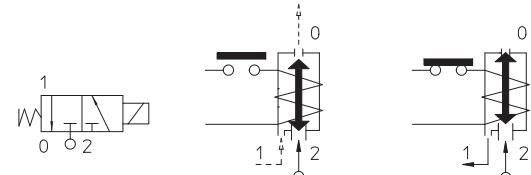
**COIL HOUSING AND COIL FORMER MATERIAL ARE MADE BY 100% VIRGIN MATERIAL.**

Ambient temperature:

See coils catalogue page for its compatibility.



Gaskets	Temperature	Medium
V=FKM (fluoroelastomer)	- 10°C +140°C	Water, air, steam



Max allowable pressure (PS) 16 bar - According to EN 60730-2-8 - Factor of safety for domestic applications equal to 5 times PS

Pipe ISO 228/1	Code	Max viscosity		∅ mm	Kv l/mn	Power watt	Pressure	
		cSt	°E				min	M.O.P.D
							bar	AC bar DC bar
G 1/8	31AP1A1V15-T0	12	~ 2	1,5*	1,1	8	0	15 15
	31AP1A1V20-T0	37	~ 5	2*	1,8			10 10
	31AP1A1V25-T0	53	~ 7	2,5*	2,5			6 6
	31AP1A1V30-T0			3*	3,4			5 5

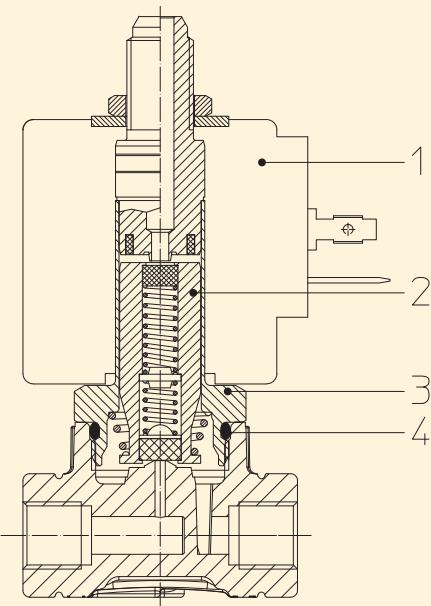
Max allowable pressure (PS) 25 bar - Safety factor for industrial application equal to 3 times PS

Pipe ISO 228/1	Code	Max viscosity		∅ mm	Kv l/mn	Power watt	Pressure	
		cSt	°E				min	M.O.P.D
							bar	AC bar DC bar
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	31AP1A1V20-T0	37	~ 5	2*	1,8			10 10
	31AP1A1V25-T0	53	~ 7	2,5*	2,5			6 6
	31AP1A1V30-T0			3*	3,4			5 5

## Note

\* 3rd way exhaust= Ø 2,5 mm | Max torque for fittings 1,5 Nm, coil nut assembly 2 Nm, armature tube 3 Nm; | Evaluate tightening torque for tapered fittings | Use the seal fittings compatible with the material of the body | Available with coil Ex na | Available with coil Ex n | Available also version EPDM and NBR without NSF Approval | For application with steam, please consult our Technical Service | Available on request and with minimum quantities.

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#### MATERIALS:

<b>Body</b>	PPS
<b>Armature tube</b>	Stainless steel AISI series 300
<b>Fixed core</b>	Stainless steel AISI series 400
<b>Plunger</b>	Stainless steel AISI series 400
<b>Phase displacement ring</b>	Gold plated copper
<b>Spring</b>	Stainless steel AISI series 300
<b>Seal</b>	V=FKM
<b>Orifice</b>	PPS

#### On request:

<b>Connector</b>	Pg 9 or Pg 11
<b>Connector conformity</b>	ISO 4400

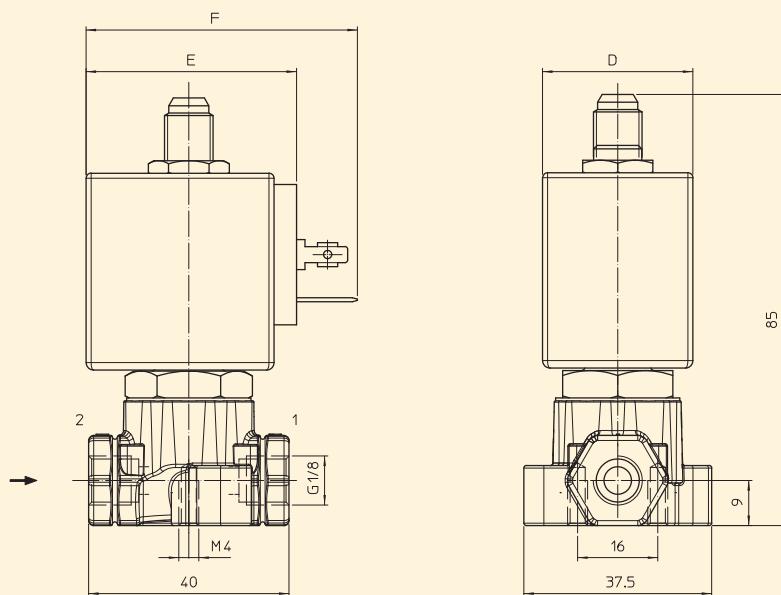
#### FEATURES:

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

#### SPARE PARTS:

1. **Coil:**  
See coils list
2. **Complete plunger:**  
Code R453269/**VX**
3. **Complete armature tube:**  
Code R451830/D
4. **Gasket O-Ring:**  
Code R990000/**VX**

#### 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



# Solenoid valve 3/2 way N.C. Direct acting - NSF Certified

31AP2A1V15-T0

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31AP2A1V30-T0

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

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USE: Vending

PIPES: G 1/4

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

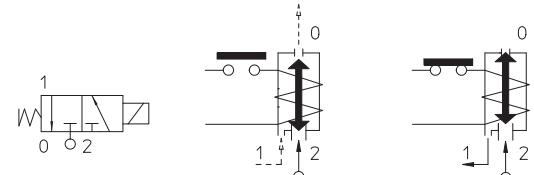
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Gaskets	Temperature	Medium
V=FKM (fluoroelastomer)	- 10°C +140°C	Water, air, steam



Max allowable pressure (PS) 16 bar - According to EN 60730-2-8 - Factor of safety for domestic applications equal to 5 times PS

Pipe ISO 228/1	Code	Max viscosity		∅ mm	Kv l/mn	Power watt	Pressure	
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							bar	AC bar DC bar
G 1/4	31AP2A1V15-T0	12	~ 2	1,5*	1,1	8	0	15 15
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	31AP2A1V30-T0			3*	3,4			5 5

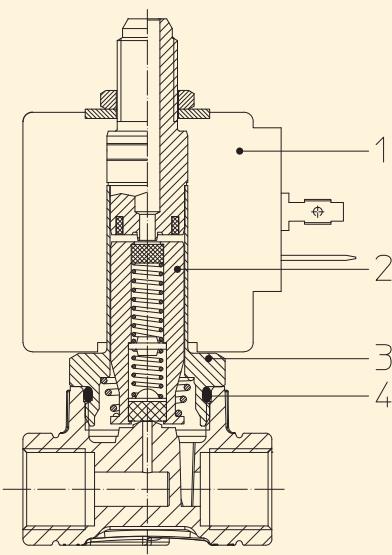
Max allowable pressure (PS) 25 bar - Safety factor for industrial application equal to 3 times PS

Pipe ISO 228/1	Code	Max viscosity		∅ mm	Kv l/mn	Power watt	Pressure	
		cSt	°E				min	M.O.P.D
							bar	AC bar DC bar
G 1/4	31AP2A1V15-T0	12	~ 2	1,5*	1,1	8	0	15 15
	31AP2A1V20-T0	37	~ 5	2*	1,8			10 10
	31AP2A1V25-T0	53	~ 7	2,5*	2,5			6 6
	31AP2A1V30-T0			3*	3,4			5 5

## Note

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## MATERIALS:

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<b>Fixed core</b>	Stainless steel AISI series 400
<b>Plunger</b>	Stainless steel AISI series 400
<b>Phase displacement ring</b>	Gold plated copper
<b>Spring</b>	Stainless steel AISI series 300
<b>Seal</b>	V=FKM
<b>Orifice</b>	PPS

## On request:

<b>Connector</b>	Pg 9 or Pg 11
<b>Connector conformity</b>	ISO 4400

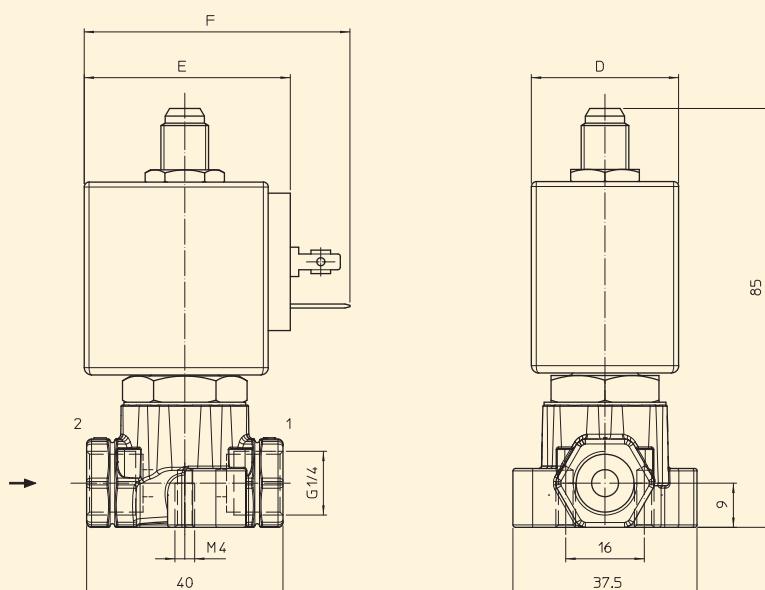
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<b>Protection degree</b>	IP 65 EN 60529 (DIN 40050) with coil fitted by connector.

## SPARE PARTS:

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See coils list
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- 3. Complete armature tube:**  
Code R451830/D
- 4. Gasket O-Ring:**  
Code R990000/VX

## DIMENSIONS:



COIL TYPE	POWER ABSORPTION			DIMENSIONS		
	W ---	Hold VA ~	Inrush VA ~	D mm	E mm	F mm
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PIPES: G 1/4

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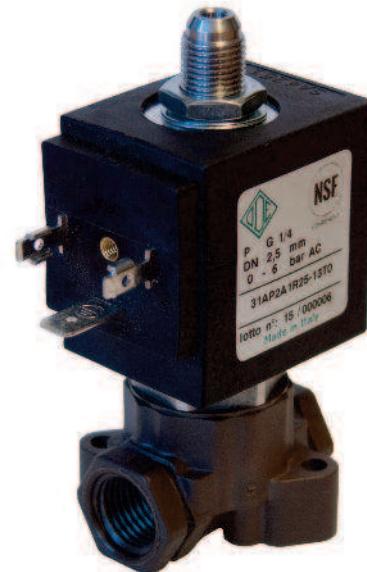
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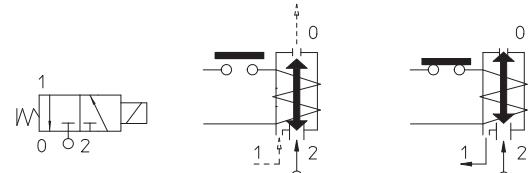
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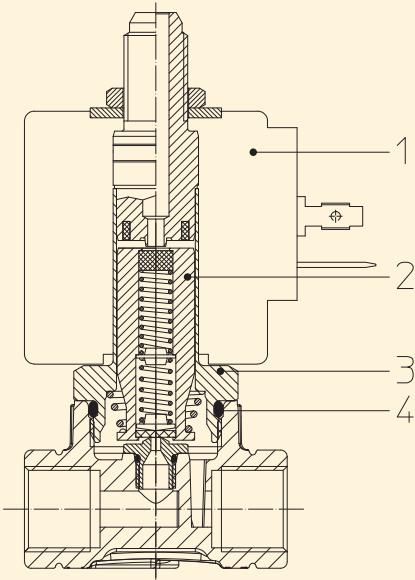
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<b>Plunger</b>	Stainless steel AISI series 400
<b>Phase displacement ring</b>	Gold plated copper
<b>Spring</b>	Stainless steel AISI series 300
<b>Seal</b>	Standard: V=FKM On request: B=NBR E=EPDM PPS

### Orifice: Insert slot

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

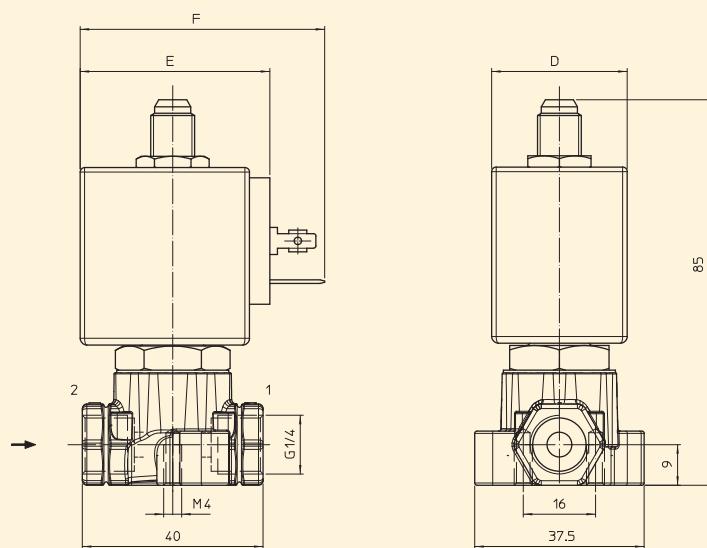
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## DIMENSIONS:



COIL TYPE	POWER ABSORPTION			DIMENSIONS		
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COIL: 8W - Ø 13  
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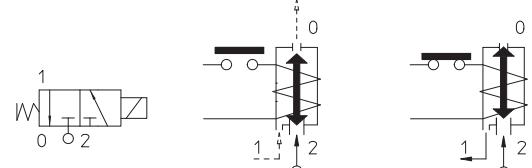
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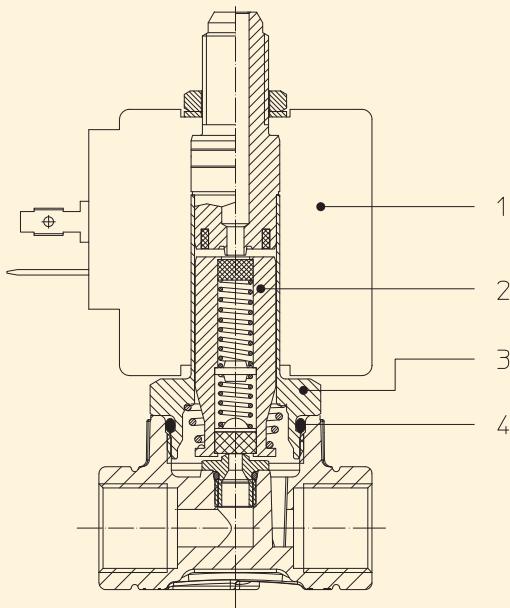
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<b>Orifice: Insert slot</b>	Stainless steel AISI series 300

#### On request:

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<b>Connector conformity</b>	ISO 4400

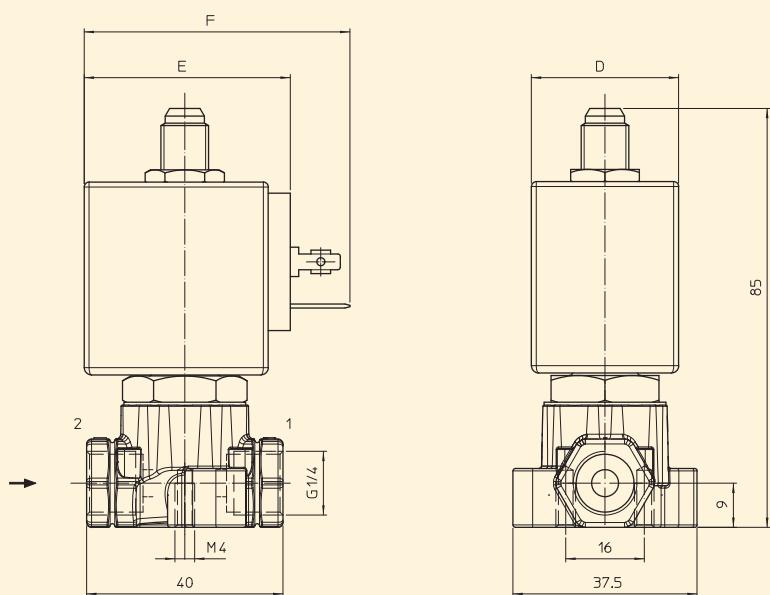
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