



ODE srl

SOLENOID
VALVES

OXYGEN Range



O₂





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

21JN1R0V12-OX

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21JN1R0V23-OX

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.

Components scoured compatible with oxygen to Industrial use.

USE: Automation
Drinks

PIPES: G 1/8

COILS: 2,5W - Ø 10
LBA 155°C (class F)
5W - Ø 10
LBA 155°C (class F)
LBF - LBV 180°C (class H)

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

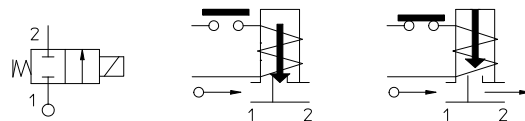
Max. allowable pressure (PS) 25 bar

Ambient temperature:

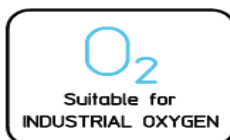
See coils catalogue page for its compatibility.



Gaskets	Temperature		Medium
V=FKM (fluoroelastomer)	- 10°C	+ 60°C	Oxygen



Pipe ISO 228/1	Code	Ø mm	Kv l/mn	Power watt	Pressure		
					min bar	M.O.P.D.	
G 1/8	21JN1R0V12-OX	1,2	1	2,5	0	20	3,5
				5		25	12
	21JN1R0V23-OX	2,3	2,3	2,5		6	-
				5		18	8



Note

Don't use as a safety Valve.

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

MATERIALS:

Body	Brass
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	V=FKM (compatible with O ₂)
Orifice	Brass

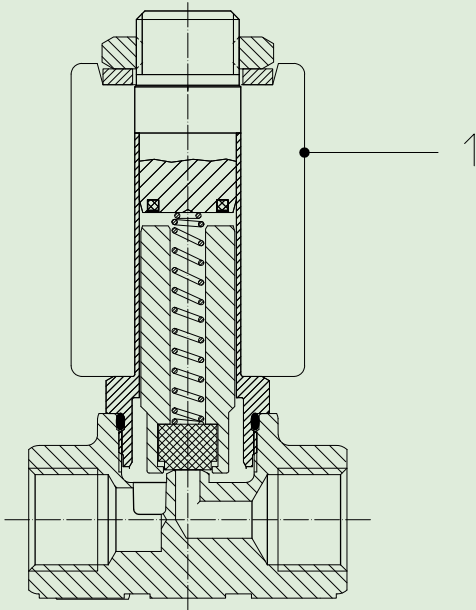
On request:	Pg 9 or Pg 11
Connector	ISO 4400
Connector conformity	

FEATURES:

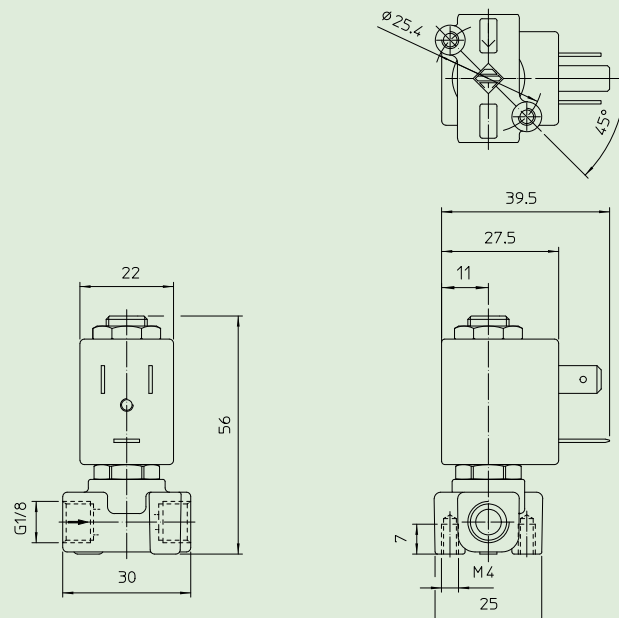
Electrical conformity	IEC 335
Protection degree	IP 65 EN 60529 (DIN 40050) with coil fitted by connector.

SPARE PARTS:

- Coil:**
See coils list



DIMENSIONS:



COIL TYPE	POWER ABSORPTION		
	W ==	Hold VA ~	Inrush VA ~
L	2,5	5	7
	5	10	15



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

21A3KV15-OX
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21A2KV55-OX

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.

Components scoured compatible with oxygen to Industrial use.

USE: Automation
Chemical

PIPES: G 1/8 - G 1/4

COILS: 8W - Ø13
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)

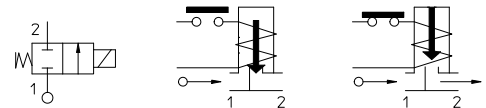
**COIL HOUSING AND COIL FORMER MATERIAL ARE
MADE BY 100% VIRGIN MATERIAL.**

Max. allowable pressure (PS) 25 bar

Ambient temperature:

See coils catalogue page for its compatibility.

Gaskets	Temperature		Medium
V=FKM (fluoroelastomer)	- 10°C	+ 60°C	Oxygen



Pipe ISO 228/1	Code	Ø mm	Kv	Power	Pressure		
			l/mn	watt	min bar	M.O.P.D.	
							AC bar
G 1/8	21A3KV15-OX	1,5	1,4	8	0	25	18
	21A3KV20-OX	2	2			22	16
				12		25	25
	14	14	9				
	21A3KV25-OX	2,5	3,2	8		25	25
				12		10	6
	14	25	18				
	21A3KV30-OX	3	4	8		20	
				12		5	2
	14	12	7				
	21A3KV45-OX	4,5	6,5	8		8	
				12		25	18
14	22	16					
G 1/4	21A2KV15-OX	1,5	1,4	8		25	25
	21A2KV20-OX	2	2			22	16
				12		14	9
	14	25	25				
	21A2KV25-OX	2,5	3,2	8		10	6
				12		25	18
	14	20					
	21A2KV30-OX	3	4	8		5	2
				12		12	7
	14	8	8				
	21A2KV45-OX	4,5	6,5	8		3	1
				12		7	2,5
	14	10	5				
	21A2KV55-OX	5,5	9	8			
				12			
14							

Note

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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	V=FKM (compatible with O ₂)
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

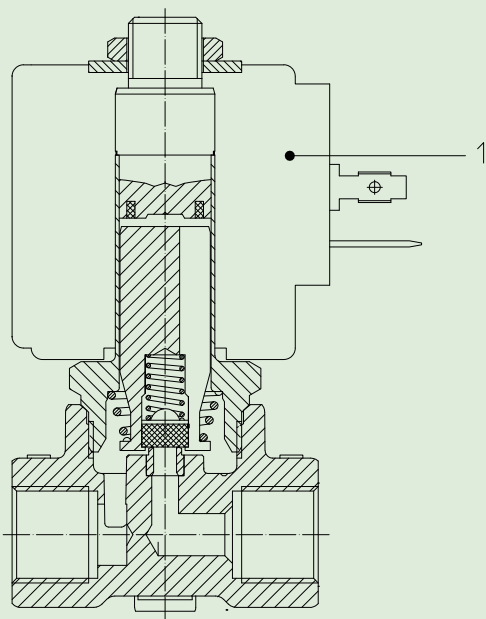
FEATURES:

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

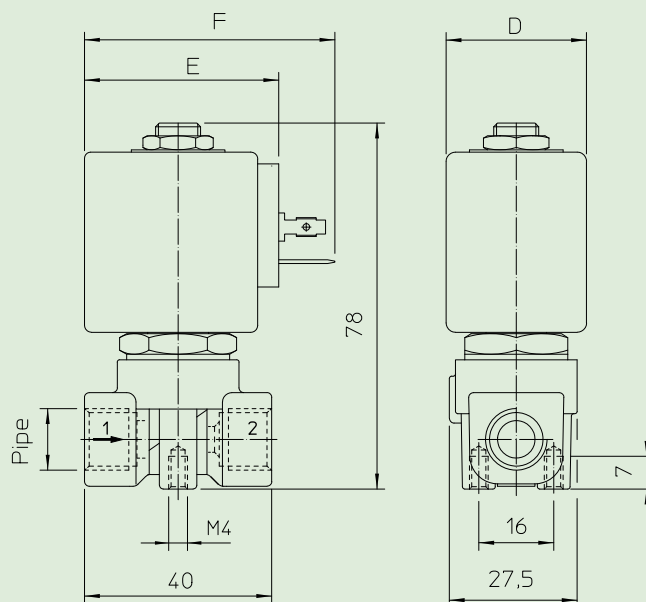
SPARE PARTS:

1. Coil:

See coils list



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



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

21A5ZV45D-OX

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21A8ZV55G-OX

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.

Components scoured compatible with oxygen to Industrial use.

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)
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.**

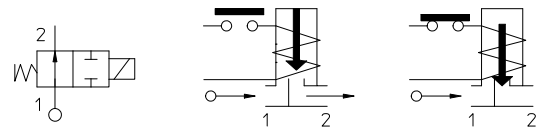
Max. allowable pressure (PS) 25 bar

Ambient temperature:

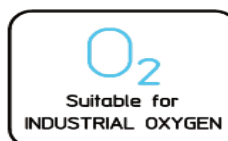
See coils catalogue page for its compatibility.



Gaskets	Temperature		Medium
V=FKM (fluoroelastomer)	- 10°C	+ 60°C	Oxygen



Pipe ISO 228/1	Code	Ø mm	Kv l/mn	Power watt	Pressure		
					min bar	M.O.P.D.	
G 3/8	21A5ZV45D-OX	4,5	6,5	8	0	4	4
	21A5ZV45G-OX			12		6	-
				14		6	6
	21A5ZV55D-OX	5,5	9	8		2,5	2,5
	21A5ZV55G-OX			12		3,5	-
				14		3,5	3,5
G 1/2	21A8ZV45D-OX	4,5	6,5	8		4	4
	21A8ZV45G-OX			12		6	-
				14		6	6
	21A8ZV55D-OX	5,5	9	8		2,5	2,5
	21A8ZV55G-OX			12		3,5	-
				14		3,5	3,5



Note

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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

V=FKM (compatible with O₂)

Orifice

Brass - UNI EN 12165 CW617N

On request:

Connector

Pg 9 or Pg 11

Connector conformity

ISO 4400

FEATURES:

Electrical conformity

IEC 335

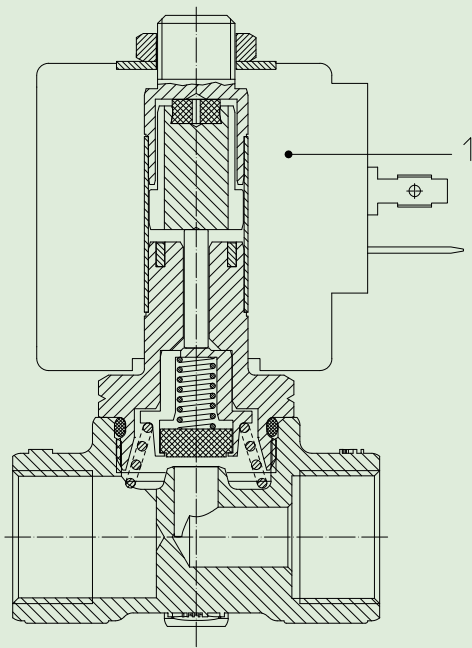
Protection degree

IP 65 EN 60529 (DIN 40050)
with coil fitted by connector.

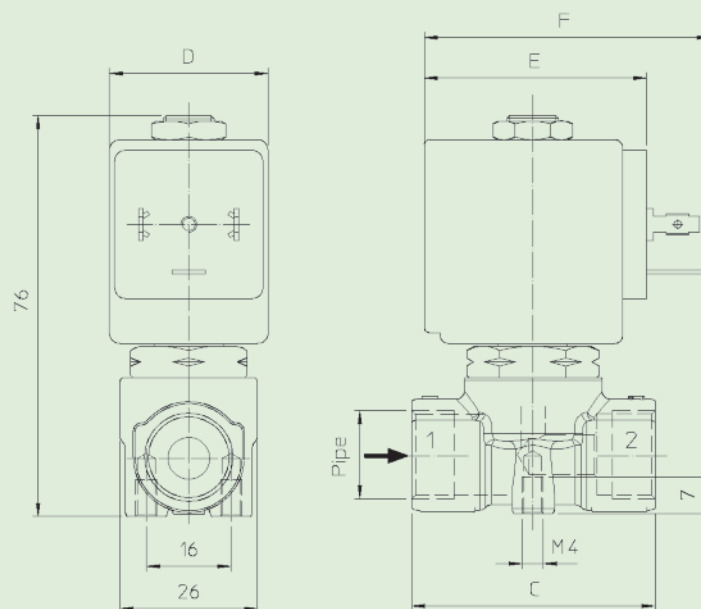
SPARE PARTS:

1. Coil:

See coils list



DIMENSIONS:



Type	Pipe ISO 228/1	C mm
21A5ZV	G 3/8	46
21A8ZV	G 1/2	58

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. Combined operation

21HT3Z0V110-OX

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21HT5Z0V160-OX

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.

Components scoured compatible with oxygen to Industrial use.

USE: Automation
Chemical

PIPES: G 3/8 - G 3/4

COILS: 8W - Ø13
BDA - BSA 155°C (class F)
BDV 180°C (class H)

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

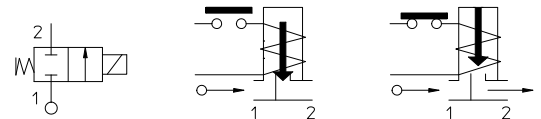
Max. allowable pressure (PS) 16 bar

Ambient temperature:

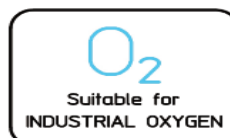
See coils catalogue page for its compatibility.



Gaskets	Temperature		Medium
V=FKM (fluoroelastomer)	- 10°C	+ 60°C	Oxygen



Pipe ISO 228/1	Code	Ø mm	Kv	Power	Pressure		
			l/mn	watt	min bar	M.O.P.D.	
							AC bar
G 3/8	21HT3Z0V110-OX	11	20	8	0	10 *	10
G 1/2	21HT4Z0V160-OX	16	40				
G 3/4	21HT5Z0V160-OX						



Note

* To use in AC, the DC coil will be supplied with a rectifier bridge.

Don't use as a safety Valve.

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

MATERIALS:

Body
Armature tube
Fixed core
Plunger
Phase displacement ring
Spring
Seal
Orifice

Brass - UNI EN 12165 CW617N
 Stainless steel AISI series 300
 Stainless steel AISI series 400
 Stainless steel AISI series 400
 Copper - Cu 99,9%
 Stainless steel AISI series 300
 V=FKM (compatible with O₂)
 Brass - UNI EN 12165 CW617N

On request:
Connector
Connector conformity

Pg 9 or Pg 11
 ISO 4400

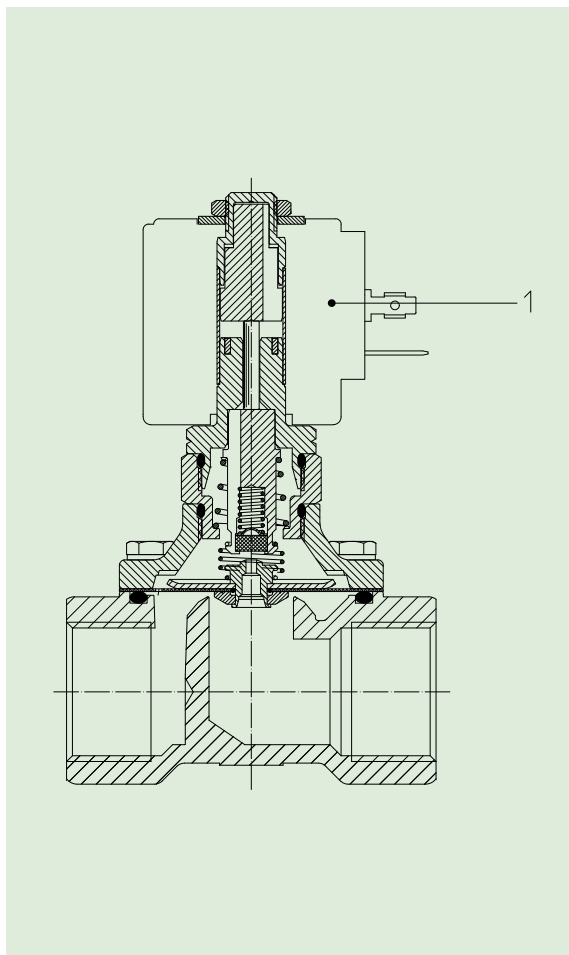
FEATURES:

Electrical conformity
Protection degree

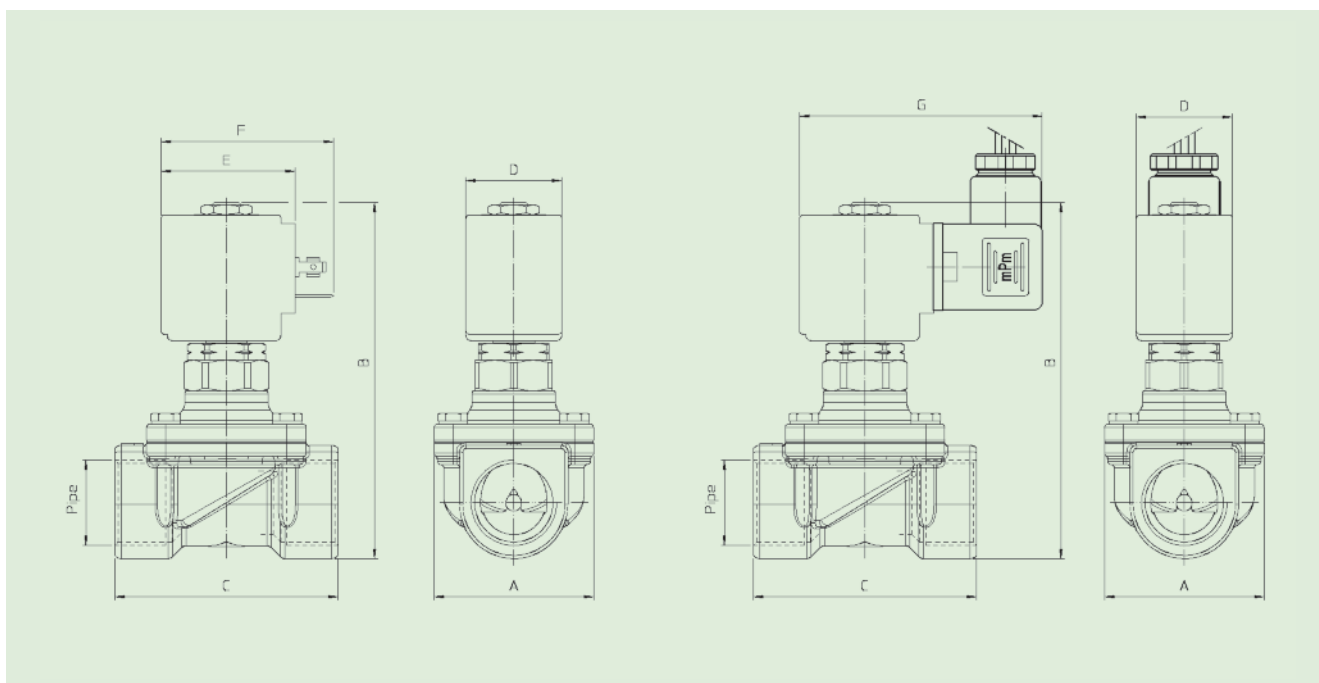
IEC 335
 IP 65 EN 60529 (DIN 40050)
 with coil fitted by connector.

SPARE PARTS:

- Coil:**
 See coils list



DIMENSIONS:



Type	Pipe ISO 228/1	A mm	B mm	C mm
21HT3Z0V110-OX	G 3/8	50	101	56
21HT4Z0V160-OX	G 1/2		112	70
21HT5Z0V160-OX	G 3/4			

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	76



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

21W3KV190-OX

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21W7KV500-OX

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.

Components scoured compatible with oxygen to Industrial use.

USE: Automation
Chemistry

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 25 bar

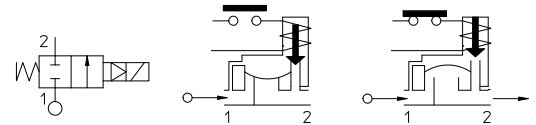
G 1 1/4 - G 2 16 bar

Ambient temperature:

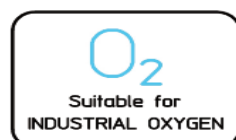
See coils catalogue page for its compatibility.



Gaskets	Temperature		Medium
V=FKM (fluoroelastomer)	- 10°C	+ 60°C	Oxygen



Pipe ISO 228/1	Code	Ø mm	Kv l/mn	Power watt	Pressure		
					min bar	M.O.P.D.	
						AC bar	DC bar
G 3/4	21W3KV190-OX	19	140	8	0,2	16	16
G 1	21W4KV250-OX	25	190			10	10
G 1 1/4	21W5KV350-OX	35	400				
G 1 1/2	21W6KV400-OX	40	520				
G 2	21W7KV500-OX	50	750				



CE Approval

(Pressure Equipment Directive 97/23/CE)

for S.V. 21W5÷21W7

Note

Don't use as a safety Valve.

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

MATERIALS:

Body
Armature tube
Fixed core
Plunger
Phase displacement ring
Spring
Seal
Orifice

Brass - UNI EN 12165 CW617N
 Stainless steel AISI series 300
 Stainless steel AISI series 400
 Stainless steel AISI series 400
 Copper - Cu 99,9%
 Stainless steel AISI series 300
 V=FKM (compatible with O₂)
 Brass - UNI EN 12165 CW617N

On request:
Connector
Connector conformity

Pg 9 or Pg 11
 ISO 4400

FEATURES:

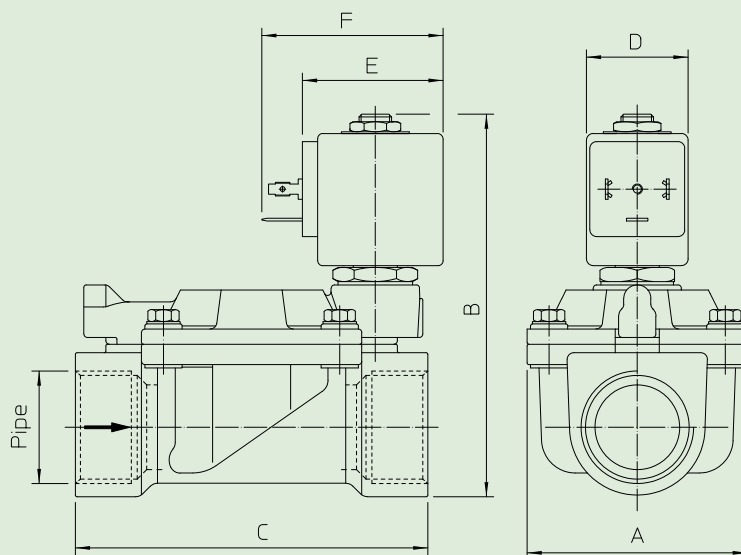
Electrical conformity
Protection degree

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

SPARE PARTS:

1. Coil:
 See coils list

DIMENSIONS:



Type	Pipe ISO 228/1	A mm	B mm	C mm
21W3KV190-OX	G 3/4	65	105	104
21W4KV250-OX	G 1		112	
21W5KV350-OX	G 1 1/4	98	125	144
21W6KV400-OX	G 1 1/4			
21W7KV500-OX	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



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

21L1K1V25-OX

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21L1K1V40-OX

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.

Components scoured compatible with oxygen to Industrial use.

USE: Automation
Chemistry

PIPES: G 1/8

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.**

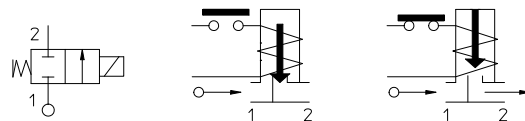
Max. allowable pressure (PS) 25 bar

Ambient temperature:

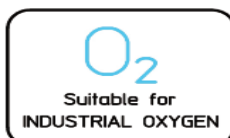
See coils catalogue page for its compatibility.



Gaskets	Temperature		Medium
V=FKM (fluoroelastomer)	- 10°C	+ 60°C	Oxygen



Pipe ISO 228/1	Code	Ø mm	Kv l/mn	Power watt	Pressure		
					min bar	M.O.P.D.	
G 1/8	21L1K1V25-OX	2,5	3,2	8	0	14	9
				12		25	25
				14			
	21L1K1V30-OX	3	4	8		10	6
				12		25	18
				14			20
	21L1K1V40-OX	4	5	8		6	1,7
				12		15	6
				14			8



Note

Don't use as a safety Valve.

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MATERIALS:

Body	Stainless steel AISI 316
Armature tube	Stainless steel AISI series 300
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	V=FKM (compatible with O ₂)
Orifice	Stainless steel AISI 316

On request:

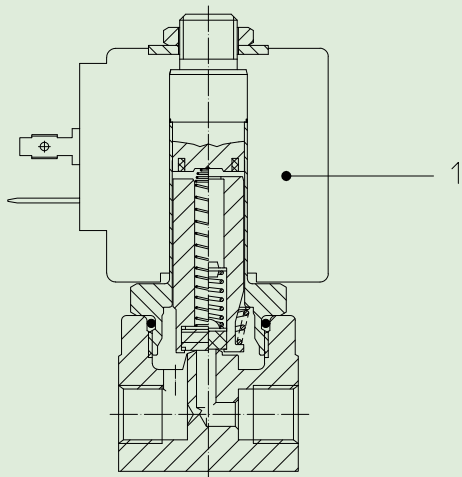
Connector	Pg 9 or Pg 11
Connector conformity	ISO 4400

FEATURES:

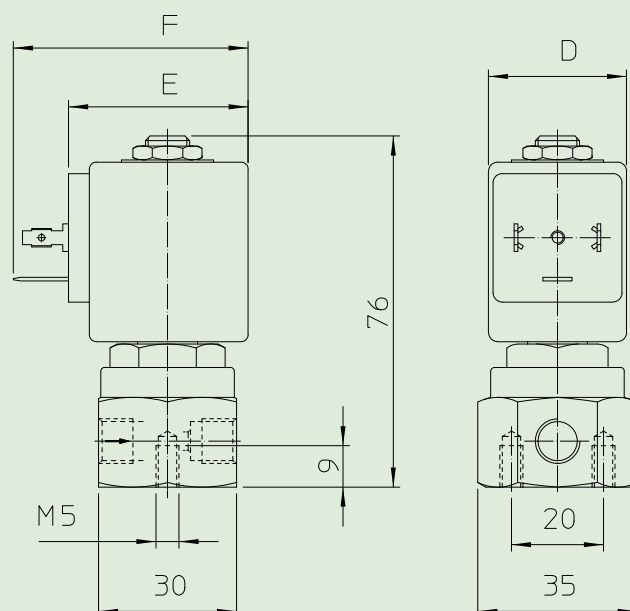
Electrical conformity	IEC 335
Protection degree	IP 65 EN 60529 (DIN 40050) with coil fitted by connector.

SPARE PARTS:

- Coil:**
See coils list



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



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

21L2K1V25-OX

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21L2K1V55-OX

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.

Components scoured compatible with oxygen to Industrial use.

USE: Automation
Chemistry

PIPES: 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.**

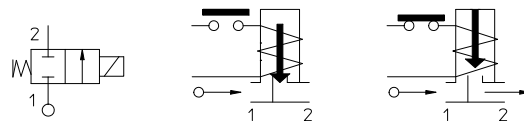
Max. allowable pressure (PS) 25 bar

Ambient temperature:

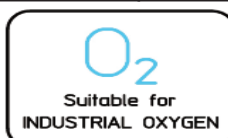
See coils catalogue page for its compatibility.



Gaskets	Temperature		Medium
V=FKM (fluoroelastomer)	- 10°C	+ 60°C	Oxygen



Pipe ISO 228/1	Code	Ø mm	Kv l/mn	Power watt	Pressure		
					min bar	M.O.P.D.	
G 1/4	21L2K1V25-OX	2,5	3,2	8	0	14	9
				12		25	25
				14		10	6
	21L2K1V30-OX	3	4	8		25	18
				12		6	20
				14			8
	21L2K1V40-OX	4	5	8		3,5	1
				12		7	2,5
				14		10	5
	21L2K1V55-OX	5,5	9	8			
				12			
				14			



Note

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MATERIALS:

Body	Stainless steel AISI 316
Armature tube	Stainless steel AISI series 300
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	V=FKM (compatible with O ₂)
Orifice	Stainless steel AISI 316

On request:

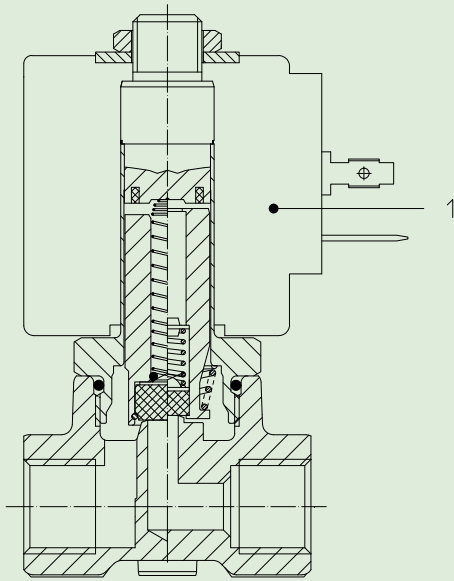
Connector	Pg 9 or Pg 11
Connector conformity	ISO 4400

FEATURES:

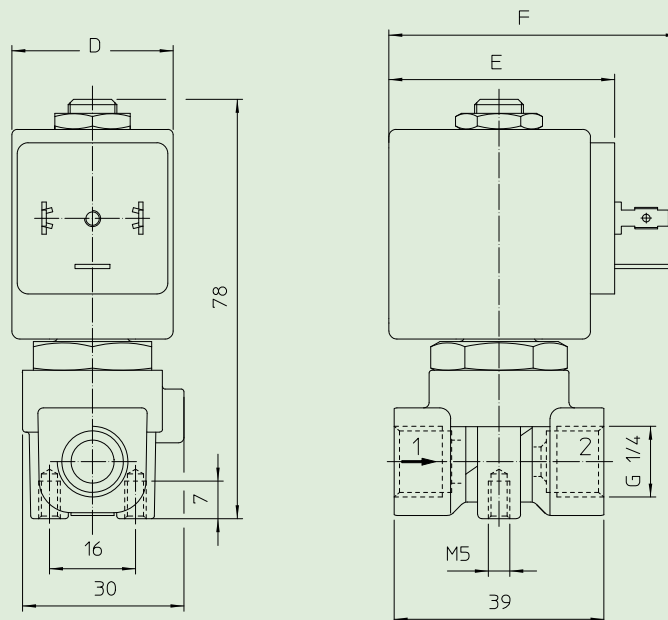
Electrical conformity	IEC 335
Protection degree	IP 65 EN 60529 (DIN 40050) with coil fitted by connector.

SPARE PARTS:

1. Coil:
See coils list



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



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

21IH3K1V150-OX

÷

21IH8K1V400-SOX

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.

Components scoured compatible with oxygen to Industrial use.

USE: Automation
Chemical

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

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.**

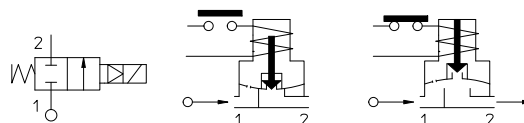
Max. allowable pressure (PS) 16 bar

Ambient temperature:

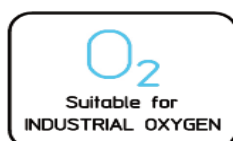
See coils catalogue page for its compatibility.



Gaskets	Temperature		Medium
V=FKM (fluoroelastomer)	- 10°C	+ 60°C	Oxygen



Pipe ISO 228/1	Code	Ø mm	Kv	Power	Pressure		
			l/mn	watt	min bar	M.O.P.D.	
							AC bar
G 3/8	21IH3K1V150-OX	15	40	8	0	14	6
				12		-	14
G 1/2	21IH4K1V160-OX	16	50	8		14	6
				12		-	14
G 3/4	21IH5K1V200-OX	20	60	8		14	6
				12		-	14
G 1	21IH6K1V250-OX	25	140	8		14	3
				12		-	8
				14		-	14
G 1 1/4	21IH7K1V350-OX	35	300			14	-
	21IH7K1V350-SOX			-		7	
G 1 1/2	21IH8K1V400-OX	40	340	14		-	
	21IH8K1V400-SOX			-	7		



CE Approval

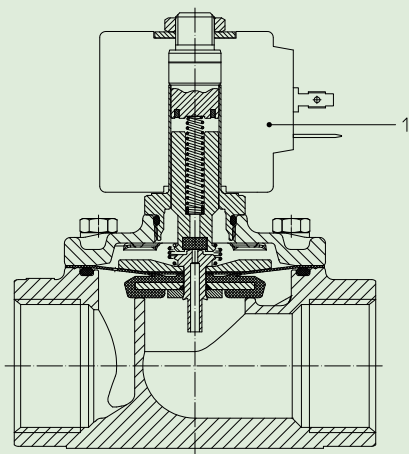
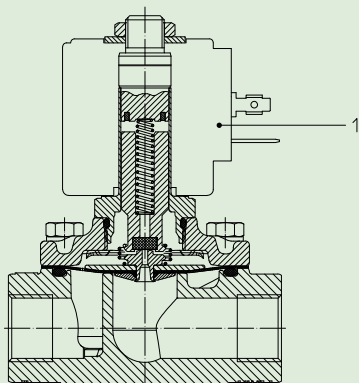
(Pressure Equipment Directive 97/23/CE)

for S.V. 21IH7÷21IH8...-SOX

Note

Don't use as a safety Valve.

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



MATERIALS:

Body	Stainless steel AISI 316
Armature tube	Stainless steel AISI series 300
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	V=FKM (compatible with O ₂)
Orifice	Stainless steel AISI 316

On request:

Connector	Pg 9 or Pg 11
Connector conformity	ISO 4400

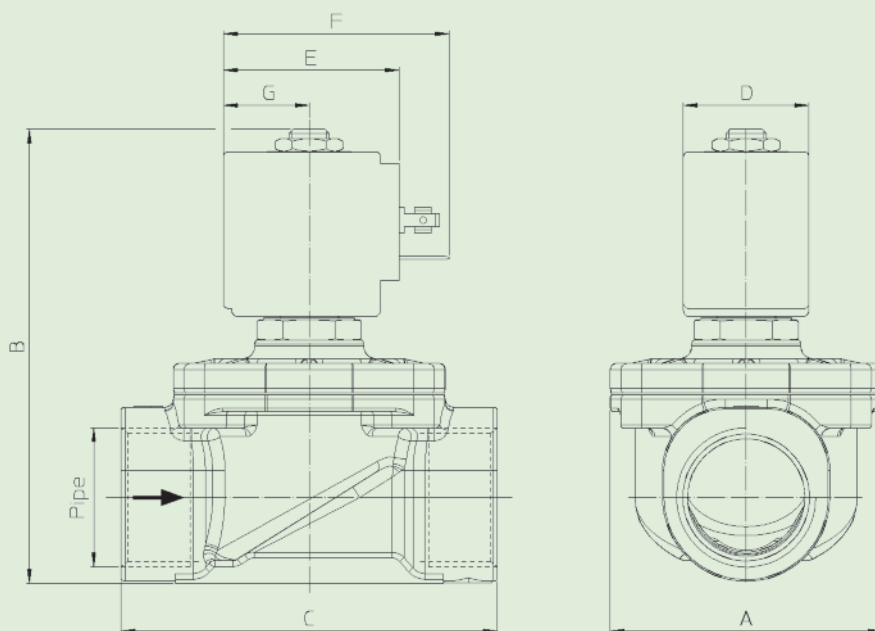
FEATURES:

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

SPARE PARTS:

- Coil:**
See coils list

DIMENSIONS:



Type	Pipe ISO 228/1	A mm	B mm	C mm	COIL TYPE	POWER ABSORPTION			DIMENSIONS					
						---	Hold VA ~	Inrush VA ~	D mm	E mm	F mm	G mm		
21IH3K1V150-OX	G 3/8	52	92	68	B	8	14,5	25	30	42	54	20,5		
21IH4K1V160-OX	G 1/2				U	12	23	35	36	48	60	23,5		
21IH5K1V200-OX	G 3/4				G	14	27	43	52	55	67	25		
21IH6K1V250-OX	G 1	65	109	90										
21IH7K1V350-OX	G 1 1/4	94	126	128										
21IH7K1V350-SOX														
21IH8K1V400-OX	G 1 1/2													
21IH8K1V400-SOX														