

Valves Series

Solenoid Valves



01V

Pg. 18.3

Inox Solenoid Valves



X1V

Pg. 18.42

Solenoid Valves



07V

Pg. 18.50

Namur Solenoid Valves



08V

Pg. 18.53

Miniature Electropilots U1



AA

Pg. 18.60

Universal Valves G1/8 - G1/4



CL - CM

Pg. 18.67

Rotary Hand Lever Valves



12V

Pg. 18.96

Micro Valves



AI JET

Pg. 18.99

Micro Valves



AI JET2

Pg. 18.104

16mm Valves - Mechanical and Manual Operators



CH

Pg. 18.107

Pedal Valves



AM

Pg. 18.110

FIELDBUS Valves Series

Fieldbus Electropneumatic Valves



16V

Pg. 18.114

Fieldbus Electropneumatic Valves



17V

Pg. 18.121

ISO Valves Series

Valves ISO 5599 - Size 1 - 2 - 3 - 4



BE

Pg. 18.156

COILS & CONNECTORS Series

Solenoid and Connectors



Coils & Connectors

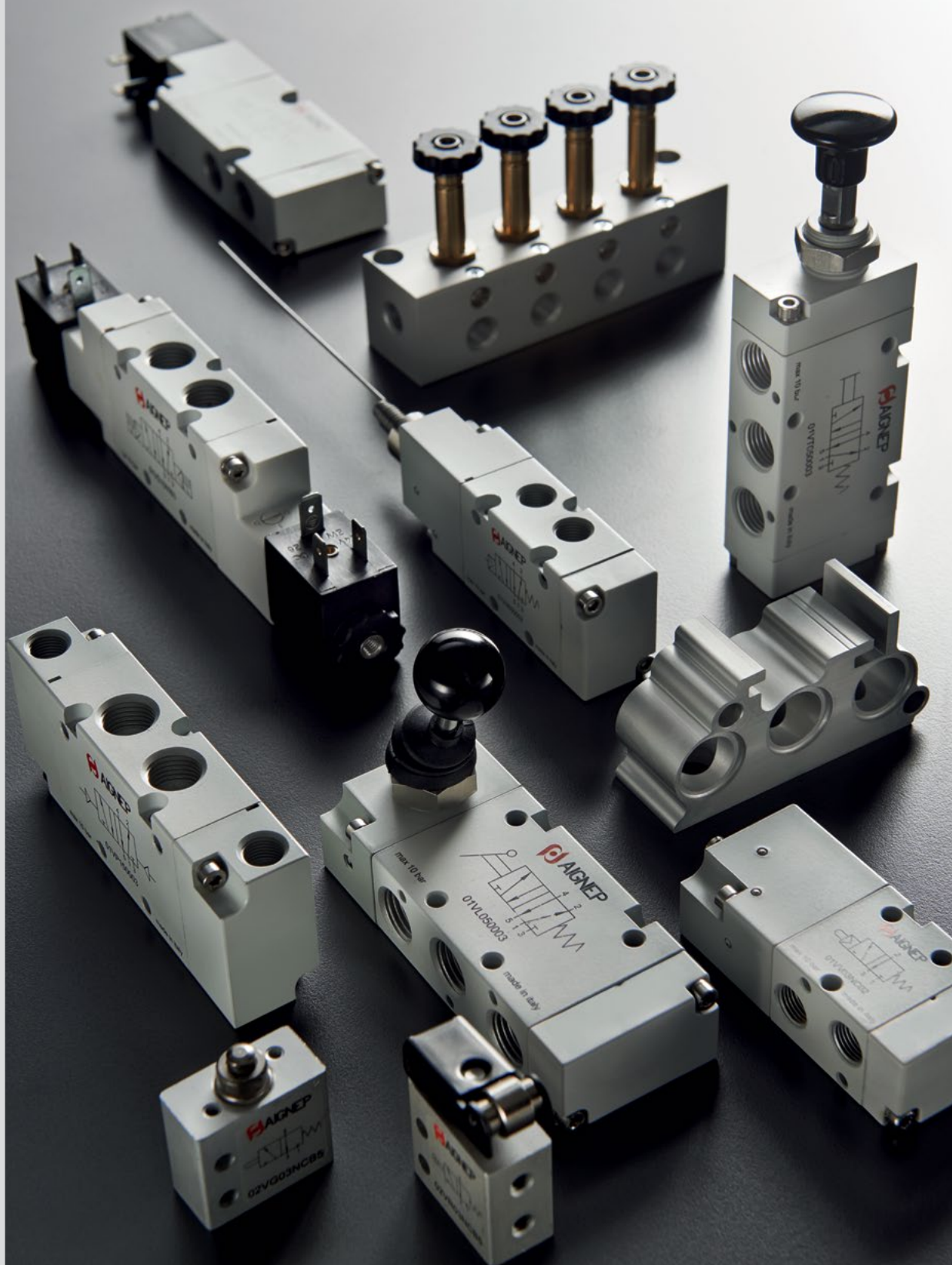
Pg. 18.169

Click here to view the **Valves Series** on our Website



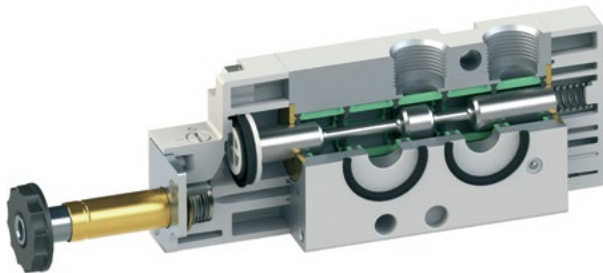
MANUAL, PNEUMATIC, SOLENOID PILOT,
FIELDBUS AND ISO VALVES

Valves Series





TECHNICAL CHARACTERISTICS



Reference Standard

1907/2006
REACH

2011/65/CE
RoHS

PED
2014/68/UE

ATEX
2014/34/UE

VDI/VDE 3845



Component Parts and Materials

Anodised aluminium body
Chemical nickel-plated spool
NBR seals

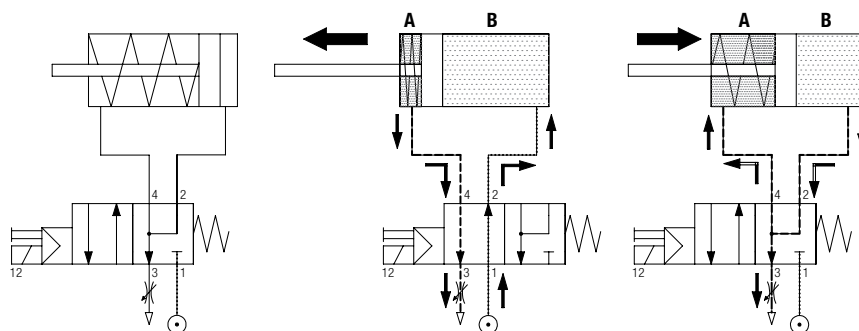
		1/4
	THREAD	G 1/4 NPTF 1/4
	6 bar FLOW RATE with Δp 1 bar	1200 NI/min
	OPERATING PRESSURE	Monostable Spring return 29 ÷ 145 psi (2 ÷ 10 bar)
		Monostable Pneumatic return 29 ÷ 145 psi (2 ÷ 10 bar)
		Monostable Spring pneumatic return 44 ÷ 145 psi (3 ÷ 10 bar)
		Bistable 15 ÷ 145 psi (1 ÷ 10 bar)
	TEMPERATURE	min -10 °C +14 °F
		max +60 °C +140 °F
	SOLENOID VOLTAGE	24V DC - 12V DC - 24V AC 110V AC - 220V AC
	MINIMUM POWER	2W - 3VA
	MANUAL CONTROL	BISTABLE
	TORQUE OF THE TIGHTENING SOLENOID'S NUT	0.6 Nm

Series	Actuation	Reactuation	Ways	Function	Size	Thread	Solenoid
0 8 V	S	0	4	NC	0 3		S A
	S = Solenoid	0 = Monostable spring return 1 = Bistable 4 = Pneumatic return 5 = Spring Pneumatic return	4 = 4/2 5 = 5/2	NC = Normally closed 00 = Function not provided	03 = 1/4	= G N = NPTF	SA = SOL01012C1000 S1 = SOL01024A2000 SB = SOL01024C1000 SZ = SOL01024C3000 S2 = SOL01110A2000 S3 = SOL01220A2000



Schematic diagram of the valve NAMUR 4/2

To prevent the return phase of external dirty air inside the cylinder's chamber, the air escaping from chamber B is re-routed into the same chamber.



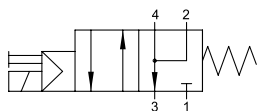
UA = SOLU01012C1000
U1 = SOLU01024A2000
UB = SOLU01024C1000
UZ = SOLU01024C3000
U2 = SOLU01110A2000
U3 = SOLU01220A2000

WA = SOLX01012C1000
W1 = SOLX01024A2000
WB = SOLX01024C1000

RA = SOLX02012C1000
R1 = SOLX02024A2000
RB = SOLX02024C1000
R2 = SOLX02110A2000
R3 = SOLX02220A2000

4/2

Single Solenoid Pilot - Spring Return

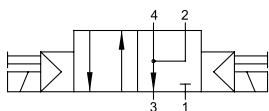


Code	Function	Size	Pack.
08V S0 4 NC 03	4/2 NC	G 1/4	1
08V S4 4 NC 03	4/2 NC	G 1/4	1
08V S5 4 NC 03	4/2 NC	G 1/4	1

Code	Function	Size	Pack.
08V S0 4 NC 03 N	4/2 NC	NPTF 1/4	1
08V S4 4 NC 03 N	4/2 NC	NPTF 1/4	1
08V S5 4 NC 03 N	4/2 NC	NPTF 1/4	1

4/2

Double Solenoid Pilot

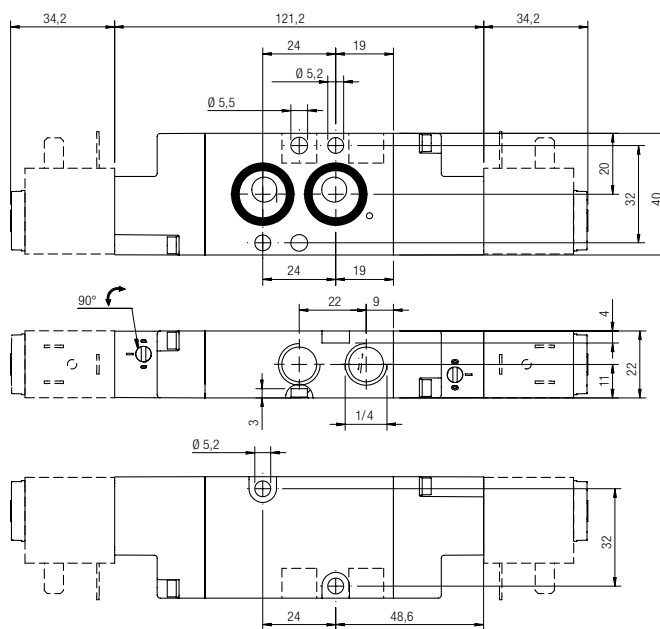
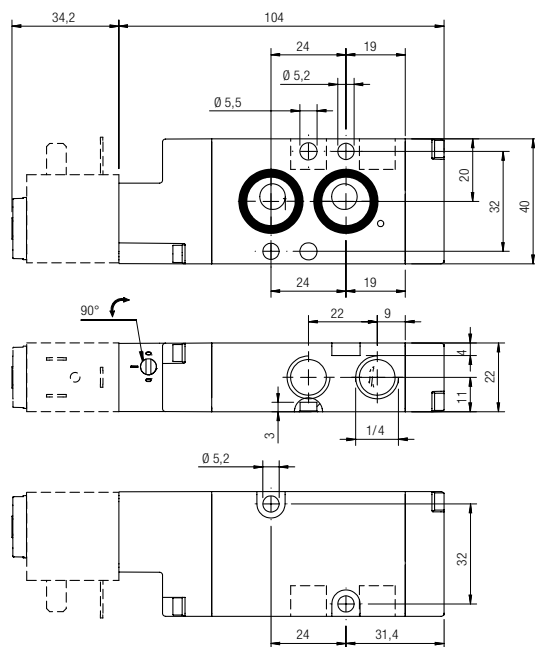


Code	Function	Size	Pack.
08V S1 4 00 03	4/2	G 1/4	1

Code	Function	Size	Pack.
08V S1 4 00 03 N	4/2	NPTF 1/4	1

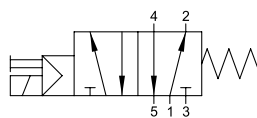
08V S4 4 NC 03 08V S5 4 NC 03 08V S0 4 NC 03
08V S4 4 NC 03N 08V S5 4 NC 03N 08V S0 4 NC 03N

08V S1 4 00 03 08V S1 4 00 03 N



5/2

Single Solenoid Pilot - Spring Return



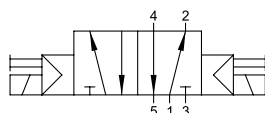
Code	Function	Size	Pack.
08V S0 5 00 03	5/2	G 1/4	1
08V S4 5 00 03	5/2	G 1/4	1



Code	Function	Size	Pack.
08V S0 5 00 03 N	5/2	NPTF 1/4	1
08V S4 5 00 03 N	5/2	NPTF 1/4	1

5/2

Double Solenoid Pilot



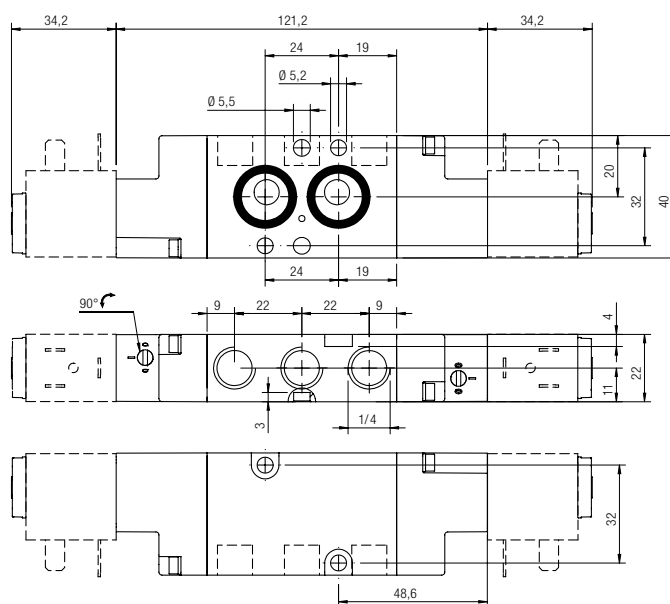
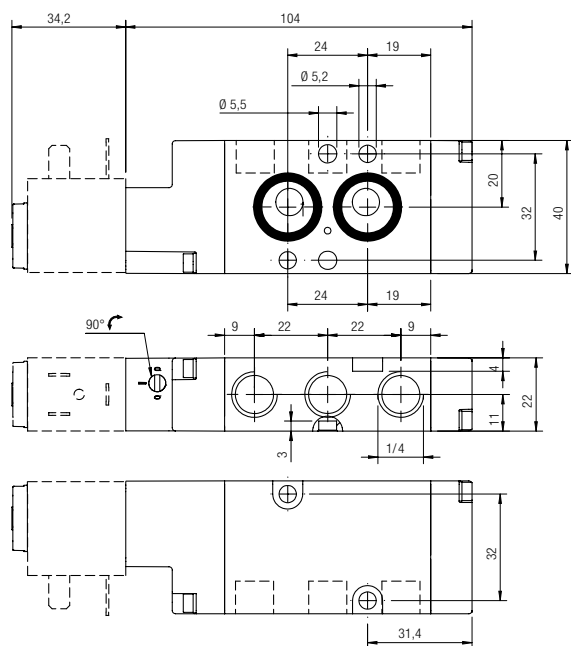
Code	Function	Size	Pack.
08V S1 5 00 03	5/2	G 1/4	1



Code	Function	Size	Pack.
08V S1 5 00 03 N	5/2	NPTF 1/4	1

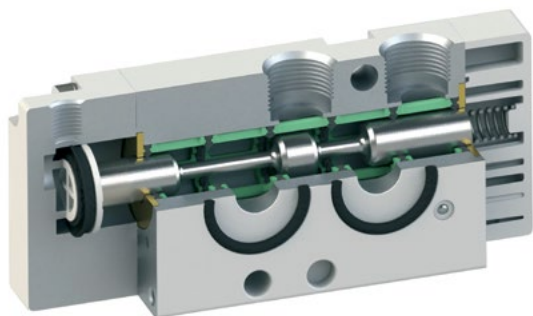
08V S0 5 00 03 08V S0 5 00 03 N
08V S4 5 00 03 08V S4 5 00 03 N

08V S1 5 00 03 08V S1 5 00 03 N





TECHNICAL CHARACTERISTICS



Reference Standard

1907/2006
REACH

2011/65/CE
RoHS

PED
2014/68/UE

ATEX
2014/34/UE

VDI/VDE 3845



Component Parts and Materials

Anodised and painted aluminium body
Chemical nickel-plated spool
NBR seals

1/4		
	THREAD	G 1/4 NPTF 1/4
	6 bar FLOW RATE with Δp 1 bar	1200 NI/min
	OPERATING PRESSURE	0 ÷ 145 psi (0 ÷ 10 bar)
	Monostable Pneumatic return	29 ÷ 145 psi (2 ÷ 10 bar)
	Monostable Spring return	29 ÷ 145 psi (2 ÷ 10 bar)
	Monostable Pneumatic return	29 ÷ 145 psi (2 ÷ 10 bar)
	Monostable Spring pneumatic return	29 ÷ 145 psi (2 ÷ 10 bar)
	Bistable	15 ÷ 145 psi (1 ÷ 10 bar)
	TEMPERATURE	min -10 °C +14 °F max +60 °C +140 °F

Series

Actuation

Reactuation

Ways

Function

Size

Thread

0 8 V

P

0

4

N C

0 3

P = Pneumatic

0 = Monostable
spring return

4 = 4/2

NC = Normally closed

03 = 1/4

= G

1 = Bistable

5 = 5/2

00 = Function not provided

N = NPTF

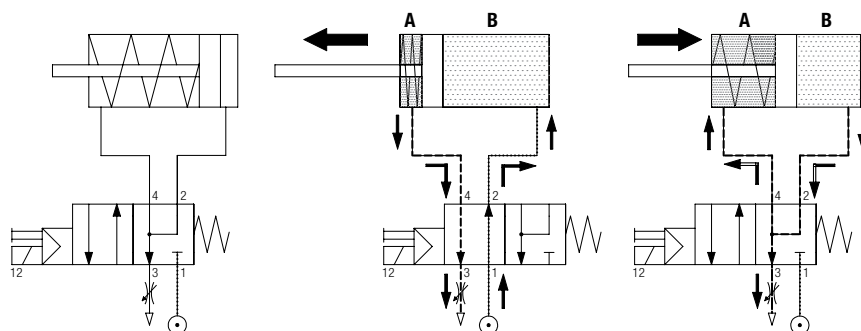
4 = Pneumatic
return

5 = Spring Pneumatic
return (on request)



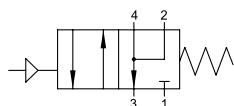
Schematic diagram of the valve NAMUR 4 / 2

To prevent the return phase of external dirty air inside the cylinder's chamber, the air escaping from chamber B is re-routed into the same chamber.



4/2

Single Air Pilot - Spring Return



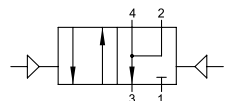
Code	Function	Size	Pack.
08V P0 4 NC 03	4/2 NC	G 1/4	1
08V P4 4 NC 03	4/2 NC	G 1/4	1
08V P5 4 NC 03	4/2 NC	G 1/4	1



Code	Function	Size	Pack.
08V P0 4 NC 03 N	4/2 NC	NPTF 1/4	1
08V P4 4 NC 03 N	4/2 NC	NPTF 1/4	1
08V P5 4 NC 03 N	4/2 NC	NPTF 1/4	1

4/2

Double Air Pilot



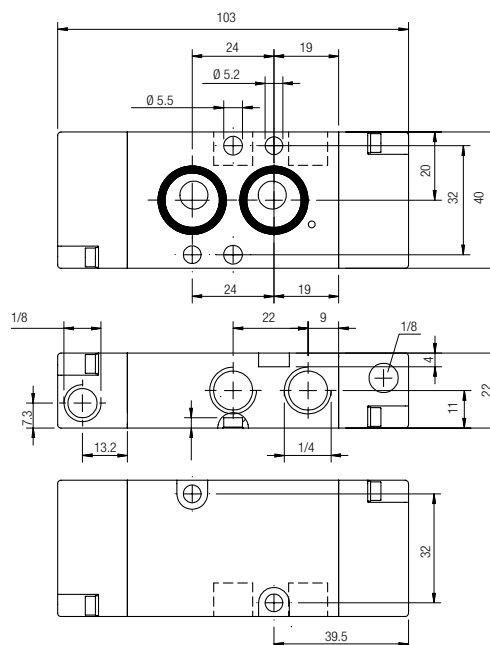
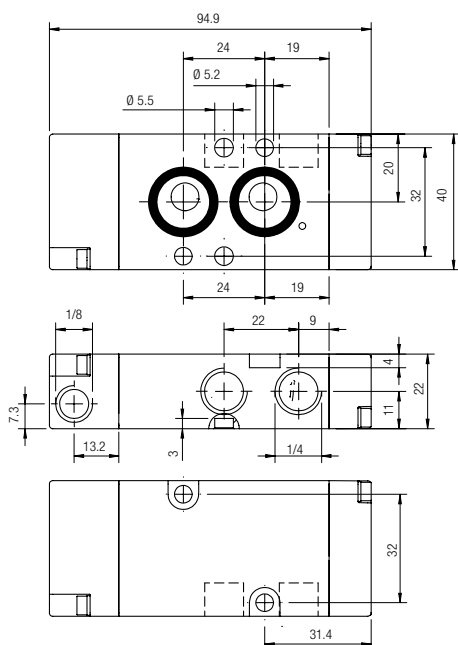
Code	Function	Size	Pack.
08V P1 4 00 03	4/2	G 1/4	1



Code	Function	Size	Pack.
08V P1 4 00 03 N	4/2	NPTF 1/4	1

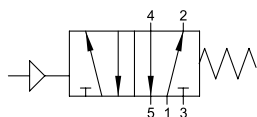
08V P4 4 NC 03 08V P5 4 NC 03 08V P0 4 NC 03
08V P4 4 NC 03 N 08V P5 4 NC 03 N 08V P0 4 NC 03 N

08V P1 4 00 03 08V P1 4 00 03 N



5/2

Single Air Pilot - Spring Return



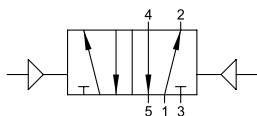
Code	Function	Size	Pack.
08V P0 5 00 03	5/2	G 1/4	1
08V P4 5 00 03	5/2	G 1/4	1



Code	Function	Size	Pack.
08V P0 5 00 03 N	5/2	NPTF 1/4	1
08V P4 5 00 03 N	5/2	NPTF 1/4	1

5/2

Double Air Pilot



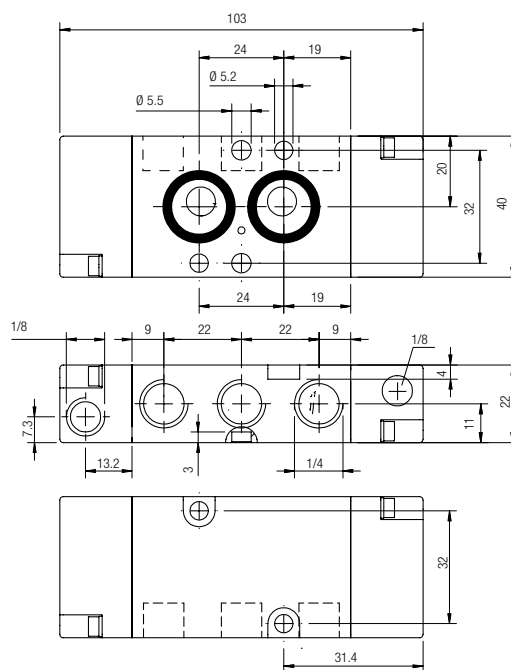
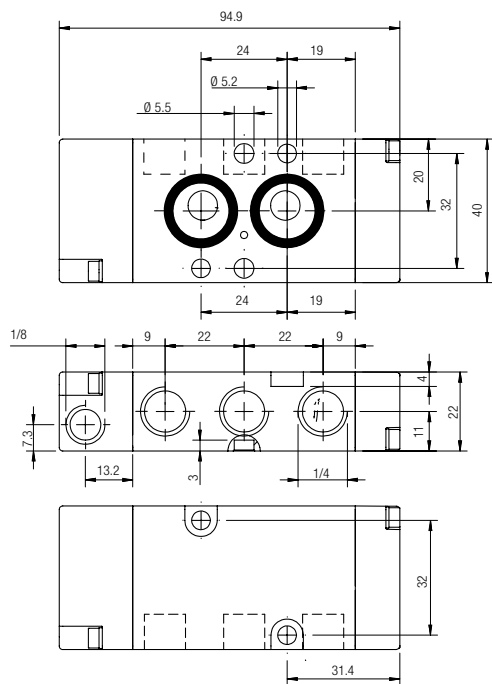
Code	Function	Size	Pack.
08V P1 5 00 03	5/2	G 1/4	1



Code	Function	Size	Pack.
08V P1 5 00 03 N	5/2	NPTF 1/4	1

08V P0 5 00 03 08V P4 5 00 03
08V P0 5 00 03 N 08V P4 5 00 03 N

08V P1 5 00 03 08V P1 5 00 03 N



08V01

SPACER FOR 30 MM SOLENOID ATEX

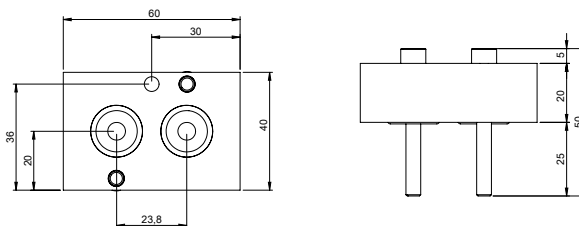
Code

05V B7 0 00 00

Pack.

1

The spacer must be mounted under the valve to distance it from the base and allow the use of the 30mm solenoid ATEX



CERTIFICATE

TECHNICKÁ INŠPEKCIA, a.s.
SLOVENSKÁ REPUBLIKA

CEOC INTERNATIONAL

ACKNOWLEDGEMENT OF RECEIPT
no. 3390/1/2019

Technická inšpekcia, a.s.,
Trnavská cesta 56, 821 01 Bratislava

Notified body: 1354

confirms, that Technical File Documentation
prepared by
Aignep S.p.A
Via Don G. Bazzoli 34, 25070 Bione (BS), Italy

has been received and stored according to the Article 13.1(b) (i) of Directive no. 2014/34/EU on equipment and protective systems intended for use in potentially explosive atmospheres.

Scope of Ex Equipment:

CYLINDERS AND VALVES WITH RELATED ACCESSORIES
Type: Cartridge Cylinders, Mini Cylinders ISO 6432, Mini Cylinders inox, ABE Cylinders, Compact Cylinders, Compact Cylinders ISO 21287, Short Stroke Cylinders, Cylinders ISO 15552, Cylinders ISO 6431, Twin Piston Rod Cylinders ISO 15552, Cylinders ISO 15552: Series GA-GAF, Mini, Mini inox, A86, QP,B,W,X,E,NH,XR
Pneumatic, Manual Pull/Lever and Servo-Piloted Valves: Series 01VP, 01VP, 01VT, 01VL, 01VN, 01VB
Solenoid Assisted and Pilot Valves, Single or Multiple Solenoid Valves on Manifold with Manual Override and Individual or Multiple Bases for Miniature Ones: Series 01VA, 01VS, 01VS, 01VS, 01VS

Marking:  II 2GD Ex h IIC T6, IIIC T85°C Gb Db X Tamb -20°C to 80°C
 II 2GD Ex h IIC T6, IIIC T85°C Gb Db X Tamb -10°C to 60°C

Technical File Documentation according to the Annex VIII Article 2 of Directive 2014/34/EU

Doc. no.	Issue
Technical file as per ATEX Directive 2014/34/EU	Doc. No. AIGNEP Rev.1 Date: 05/07/2019

Technical documentation will be stored for 10 years until October 11th 2029.

Bratislava, October 11th 2019

 On behalf of Technická inšpekcia, a.s.
Ing. Dušan Pernis
General Director



Directive 2014/34/UE (ATEX)

SEE INSTRUCTIONS AND CERTIFICATE AT WWW.AIGNEP.COM

The valves and accessories of the series: 01VP - 01VT - 01VL - 01VV - 01VN - 01VB - 08VP - 01VA - 01VS - 07VS - 07VB - 08VS - 08VP show the following features:

II 2 GD h T6 - 10°C<Tamb<60°C

II 2 GD: Device for surface installations (II = do not use device in mining) with presence of gas, vapors of powders of category 2 (equipment with high safety factor since it excludes danger of explosion, even in case of damage; it can be used in areas with possible explosive environments).

h: Devices are constructively safe

T6 - 10°C<Tamb<60°C: Surface temperature class and additional marking for T usage environment.

COILS AND CONNECTORS

COILS AND CONNECTORS COMPATIBILITY

							
		SOLU1	SOL01	SOLX1	SOLX2	U1	U3
		22 mm	22 mm	30 mm	22 mm	22 mm	30 mm
01V		■	■	■	■		
07V		■	■		■		
08V		■	■		■		
AA						■	■
CL-CM						■	
BE							■

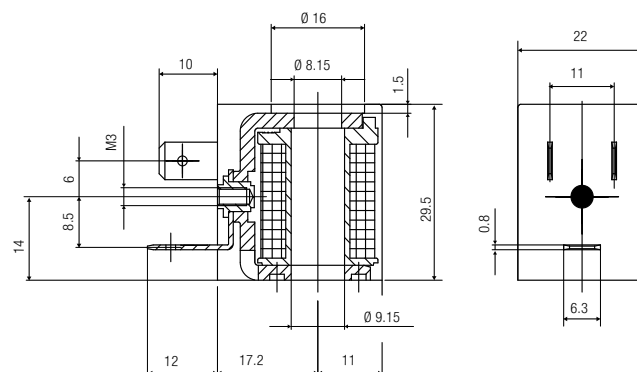
SOLU1

COIL

22 mm



9 mm



UL 1446 & CSA C22.2

Code	Short Code	Voltage	Power	Voltage tolerance	Ambient temperature	
					Min	Max
SOLU1 012 C 1 000	UA	12V DC	3W	±10 %	-4 °F (-20 °C)	+122 °F (+50 °C)
SOLU1 024 C 1 000	UB	24V DC	3W	±10 %	-4 °F (-20 °C)	+122 °F (+50 °C)
* SOLU1 024 C 3 000	UZ	24V DC	2W	±10 %	-4 °F (-20 °C)	+122 °F (+50 °C)
SOLU1 024 A 2 000	U1	24V AC	5VA	±10 %	-4 °F (-20 °C)	+122 °F (+50 °C)
SOLU1 110 A 2 000	U2	110V AC	5VA	±10 %	-4 °F (-20 °C)	+122 °F (+50 °C)
SOLU1 220 A 2 000	U3	220V AC	5VA	±10 %	-4 °F (-20 °C)	+122 °F (+50 °C)

* Solenoid Recommended (ECO-FRIENDLY), only for 01V - 07V - 08V.

INSULATION CLASS

H
CEI
EN 60085

ENCAPSULATION MATERIAL

RYNITE®

ELECTRICAL CONNECTIONS

INDUSTRIAL
AMP FORM
B - INDUSTRIAL
EN 175301-803
(EX DIN 43650)

AMBIENT TEMPERATURE

-4 °F
+122 °F

PROTECTION DEGREE

IP65
IEC 60529
WITH CONNECTOR
IP65

DUTY RATE

ED 100 %

SOL01

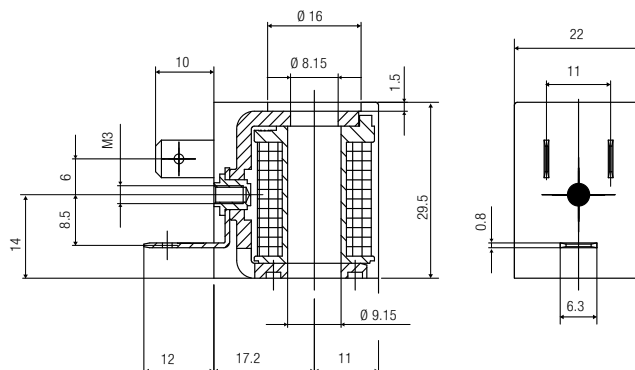
COIL



22 mm



9 mm



Code	Short Code	Voltage	Power	Voltage tolerance	Ambient temperature	
					Min	Max
SOL01 012 C 1 000	SA	12V DC	3W	±10 %	-4 °F (-20 °C)	+122 °F (+50 °C)
SOL01 024 C 1 000	SB	24V DC	3W	±10 %	-4 °F (-20 °C)	+122 °F (+50 °C)
* SOL01 024 C 3 000	SZ	24V DC	2W	±10 %	-4 °F (-20 °C)	+122 °F (+50 °C)
SOL01 024 A 2 000	S1	24V AC	5VA	±10 %	-4 °F (-20 °C)	+122 °F (+50 °C)
SOL01 110 A 2 000	S2	110V AC	5VA	±10 %	-4 °F (-20 °C)	+122 °F (+50 °C)
SOL01 220 A 2 000	S3	220V AC	5VA	±10 %	-4 °F (-20 °C)	+122 °F (+50 °C)

* Solenoid Recommended (ECO-FRIENDLY), only for 01V - 07V - 08V.

INSULATION CLASS

F
CEI
EN 60085

ENCAPSULATION MATERIAL

PA

ELECTRICAL CONNECTIONS

INDUSTRIAL
AMP FORM
B - INDUSTRIAL
EN 175301-803
(EX DIN 43650)

AMBIENT TEMPERATURE

-4 °F
+122 °F

PROTECTION DEGREE

IP65
IEC 60529
WITH CONNECTOR
IP65

DUTY RATE

ED 100 %

SOLX1

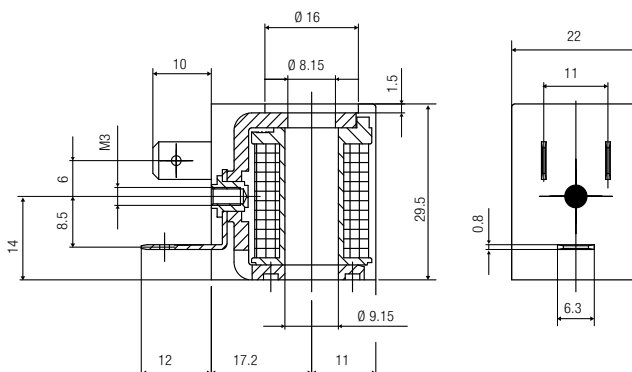
COIL



22 mm



9 mm



II 3G Ex nA IIC T5 Gc | II 3D Ex tc IIIC 95°C Dc

Code	Short Code	Voltage	Power	Voltage tolerance	Ambient temperature	
					Min	Max
SOLX1 012 C 1 000	WA	12V DC	3W	±10 %	+5 °F (-15 °C)	+122 °F (+50 °C)
SOLX1 024 C 1 000	WB	24V DC	3W	±10 %	+5 °F (-15 °C)	+122 °F (+50 °C)
SOLX1 024 A 2 000	W1	24V AC	5VA	±10 %	+5 °F (-15 °C)	+122 °F (+50 °C)

INSULATION CLASS	F CEI EN 60085
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ENCAPSULATION MATERIAL	PA
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ELECTRICAL CONNECTION	INDUSTRIAL AMP FORM B - INDUSTRIAL <i>EN 175301-803 (EX DIN 43650)</i>
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AMBIENT TEMPERATURE	+5 °F +122 °F
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PROTECTION DEGREE	IP65 IEC 60529 WITH CONNECTOR IP65
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DUTY RATE	ED 100 %
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SOLX2

COIL

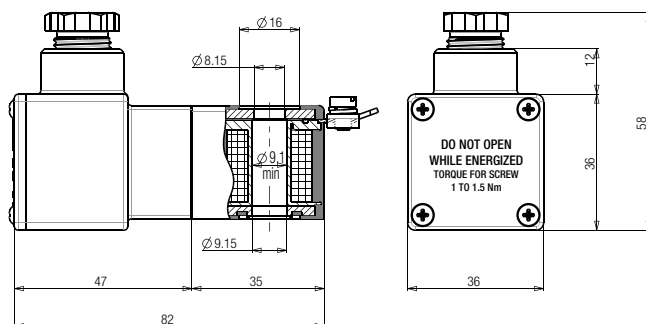
30 mm



9 mm



II 2G Ex db mb IIC T5 Gb | II 2D Ex tb IIIC T5 Db



Code	Short Code	Voltage	Power	Voltage tolerance	Ambient temperature	
					Min	Max
SOLX2 012 C 1 000	RA	12V DC	3W	±10 %	-58 °F (-50 °C)	+122 °F (+50 °C)
SOLX2 024 C 1 000	RB	24V DC	3W	±10 %	-58 °F (-50 °C)	+122 °F (+50 °C)
SOLX2 024 A 2 000	R1	24V AC	4,8VA	±10 %	-58 °F (-50 °C)	+122 °F (+50 °C)
SOLX2 110 A 2 000	R2	110V AC	4,8VA	±10 %	-58 °F (-50 °C)	+122 °F (+50 °C)
SOLX2 220 A 2 000	R3	220V AC	4,8VA	±10 %	-58 °F (-50 °C)	+122 °F (+50 °C)

Do not use with 01VB bases

With 08V NAMUR valves use the 08V01 spacer

INSULATION CLASS

F
CEI
EN 60085

ENCAPSULATION MATERIAL

PA

ELECTRICAL CONNECTIONS

PG9

AMBIENT TEMPERATURE

-58 °F
+122 °F

PROTECTION DEGREE

IP66
IEC 60529

DUTY RATE

ED 100 %

COILS

CSA/UL

Possibility of replacement without intervention in the pneumatic circuit

Other voltages available upon request

360° rotation on the pilot. Coil winding: H class

Ambient temperature: +14 ÷ +113 °F. Fluid temperature: +14 ÷ +203 °F.

The solenoid valves functioning with 100V-230V must be incorporated (EN60204-1)

Under continuous service a maximum temperature will not compromise the functioning of the coil provided that the working position is ventilated.

Protection class IP65, if used with connector.

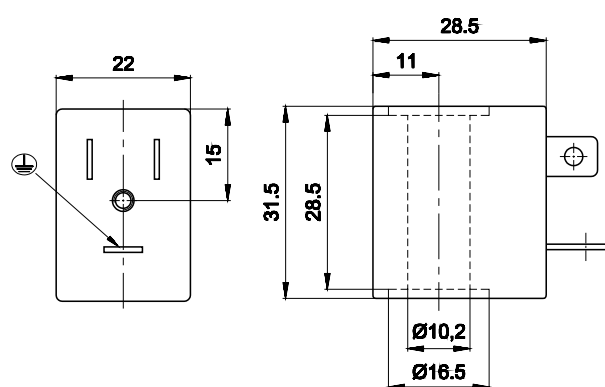
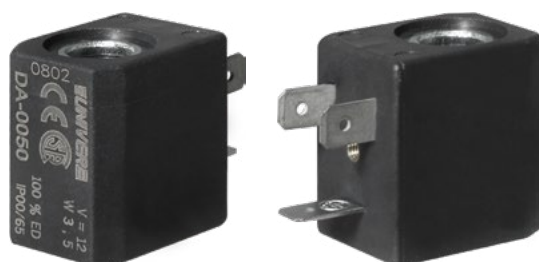


COILS U1

22 mm



10 mm



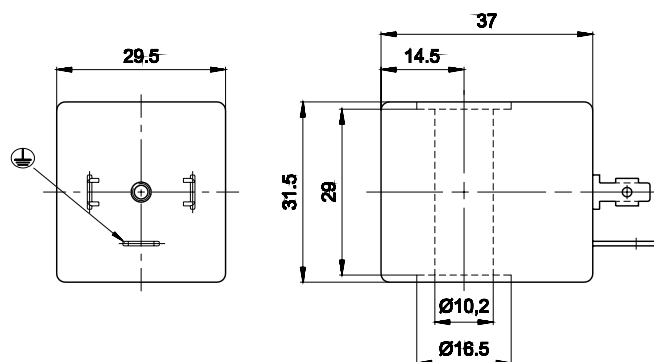
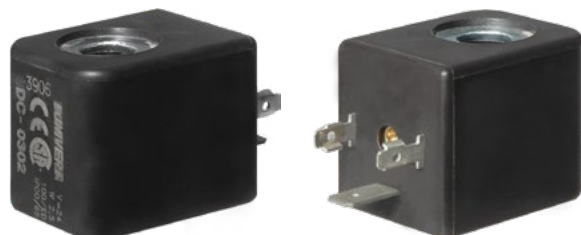
Code	Duty cycle ED (a) %	Power consumption W		Tolerance tension %	Rated voltage	Weight lb (Kg)
		Hold	Inrush			
UDA 0050	100	3,5	3,5	±10	12 V DC	0.13 (0.06)
UDA 0051	100	3,5	3,5	±10	24 V DC	0.13 (0.06)
UDA 0106	100	5,4 VA (Max)	7,8 VA (Max)	±10	24 V AC/50-60 HZ	0.13 (0.06)
UDA 0108	100	5,4 VA (Max)	7,8 VA (Max)	±10	110 V AC/50-60 HZ	0.13 (0.06)
UDA 0124	100	5,4 VA (Max)	7,8 VA (Max)	±10	230 V AC/50-60 HZ	0.13 (0.06)

COILS U3

30 mm



10 mm



Code	Duty cycle ED (a) %	Power consumption W		Tolerance tension %	Rated voltage	Weight lb (Kg)
		Hold	Inrush			
UDC 0301	100	2,5	2,5	±10	12 V DC	0.18 (0.08)
UDC 0302	100	2,5	2,5	±10	24 V DC	0.18 (0.08)
UDC 0307	100	3,3 VA (Max)	5 VA (Max)	±10	24 V AC/50-60 HZ	0.18 (0.08)
UDC 0309	100	3,3 VA (Max)	5 VA (Max)	±10	110 V AC/50-60 HZ	0.18 (0.08)
UDC 0310	100	3,3 VA (Max)	5 VA (Max)	±10	230 V AC/50-60 HZ	0.18 (0.08)

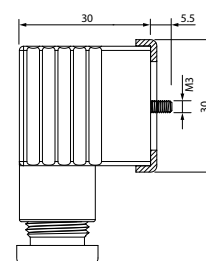
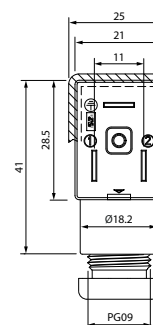
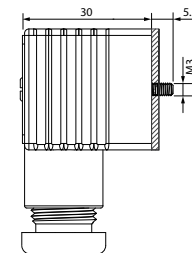
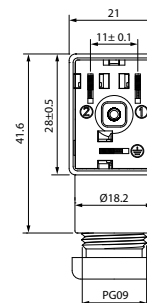
(a) = 110V - 230V solenoid valves must be built-in (EN-60204-1)

Under continuous service a maximum temperature will not compromise the functioning of the coil provided that the working position is ventilated

CON01 - CONU1

CONNECTOR

22 mm



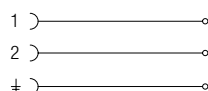
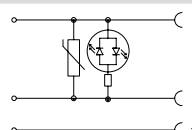
Code	Size	Colour	Characteristics
CON01 000 01	.866 (22 mm)	BLACK	2 PINS
CON02 024 00	.866 (22 mm)	TRANSPARENT	LED + VDR 0 - 24V
CON02 110 00	.866 (22 mm)	TRANSPARENT	LED + VDR 110V
CON02 250 00	.866 (22 mm)	TRANSPARENT	LED + VDR 220V
* CONU1 000 01	.866 (22 mm)	BLACK	2 PINS
* CONU2 024 00	.866 (22 mm)	TRANSPARENT	LED + VDR 0 - 24V
* CONU2 110 00	.866 (22 mm)	TRANSPARENT	LED + VDR 110V
* CONU2 250 00	.866 (22 mm)	TRANSPARENT	LED + VDR 220V

*: UL 1977 AND CAN/CSA C22.2 NO. 182.3

VDR: Fitted with varistors as surge protection device.



Wiring

CON01 000 01
CONU1 000 01

CON02 024 00 CON02 110 00 CON02 250 00
CONU2 024 00 CONU2 110 00 CONU2 250 00


ELECTRICAL CONNECTION

INDUSTRIAL
AMP FORM
B - INDUSTRIAL
EN 175301-803
(EX DIN 43650)

PROTECTION DEGREE

IP67
IEC 60529

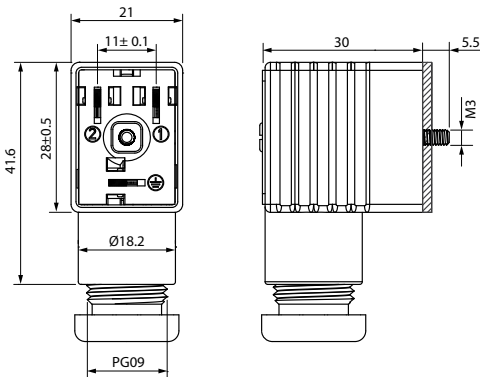
CABLE DIAMETER

1/4 ÷ 5/16
(6 ÷ 8 mm)

CONX1

CONNECTOR

22 mm 

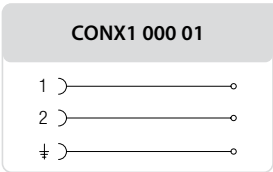


II 2G Ex e IIC T6 Gb | II 2D Ex tb IIIC T85°C Db

Code	Size	Colour	Characteristics
CONX1 000 01	.866 (22 mm)	BLACK	2 PINS



Wiring

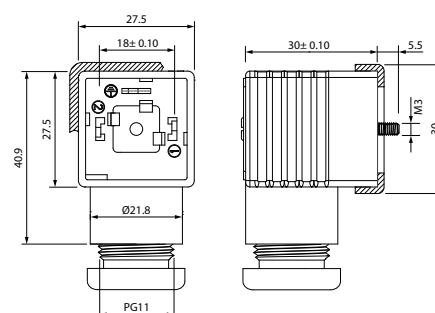
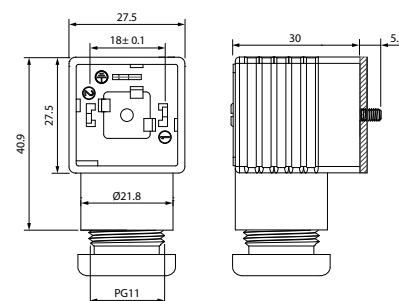


ELECTRICAL CONNECTIONS	INDUSTRIAL AMP FORM B - INDUSTRIAL <i>EN 175301-803 (EX DIN 43650)</i>	PROTECTION DEGREE	IP67 IEC 60529	CABLE DIAMETER	1/4 ÷ 5/16 (6 ÷ 8 mm)
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CON3 - CONU3

CONNECTOR

30 mm



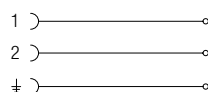
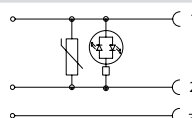
	Size	Colour	Characteristics
CON31 000 01	30 - 36 mm	BLACK	2 PINS
CON32 024 00	30 - 36 mm	TRANSPARENT	LED + VDR 0 - 24V
CON32 110 00	30 - 36 mm	TRANSPARENT	LED + VDR 110V
CON32 250 00	30 - 36 mm	TRANSPARENT	LED + VDR 220V
* CONU3 100 01	30 - 36 mm	BLACK	2 PINS
* CONU3 202 40	30 - 36 mm	TRANSPARENT	LED + VDR 0 - 24V
* CONU3 211 00	30 - 36 mm	TRANSPARENT	LED + VDR 110V
* CONU3 225 00	30 - 36 mm	TRANSPARENT	LED + VDR 220V

*: UL 1977 AND CAN/CSA C22.2 NO. 182.3

VDR: Fitted with varistors as surge protection device.



Wiring

CON31 000 01
CONU3 100 01

CON32 024 00 CON32 110 00 CON32 250 00
CONU3 202 40 CONU3 211 00 CONU3 225 00


ELECTRICAL CONNECTIONS

FORM A
EN 175301-803
(EX DIN 43650)

PROTECTION DEGREE

IP67
IEC 60529

CABLE DIAMETER

6 ÷ 8 MM
&
8 ÷ 11 MM