

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

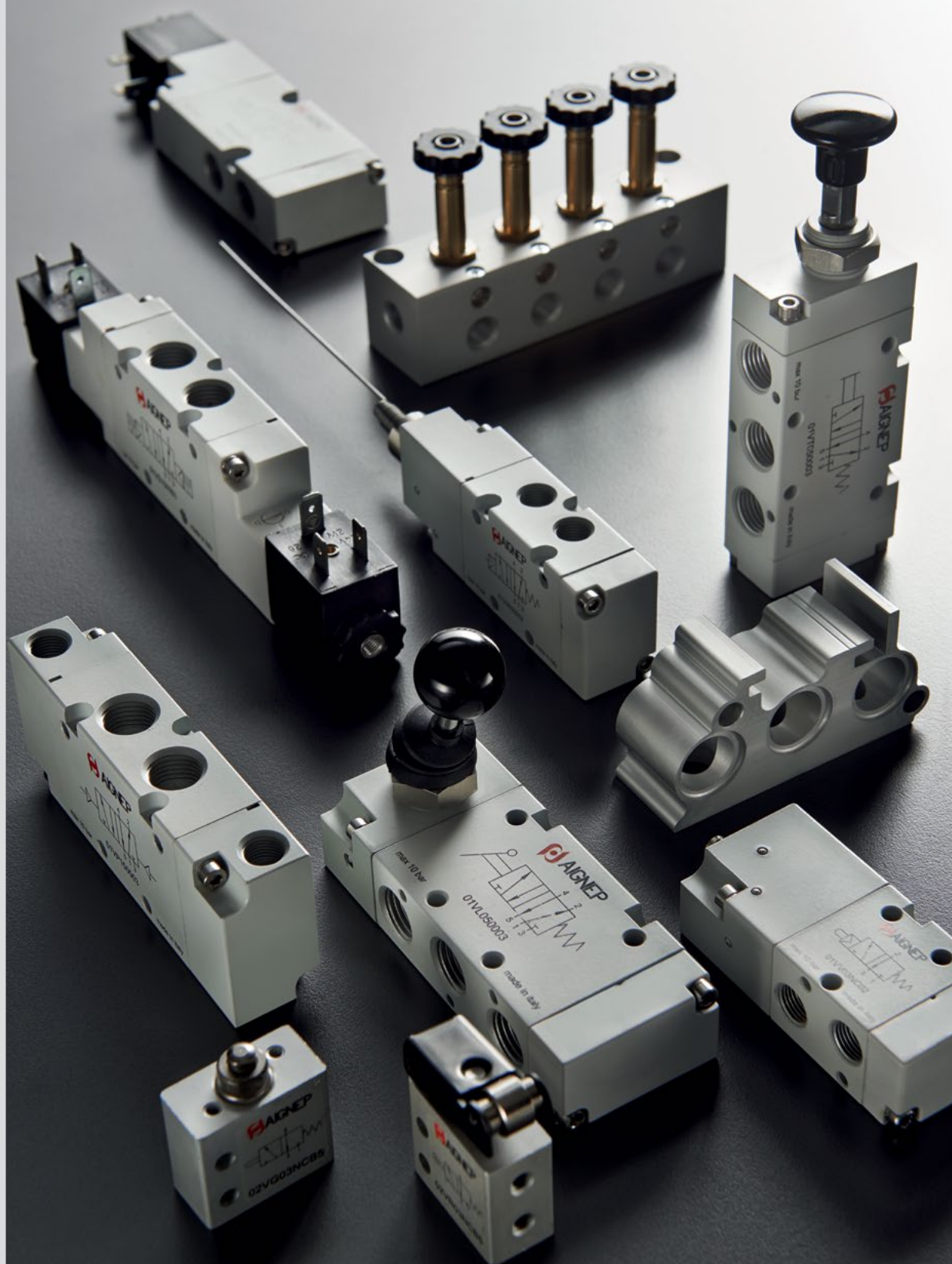
Pg. 18.169

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



MANUAL, PNEUMATIC, SOLENOID PILOT,
FIELD BUS AND ISO VALVES

Valves Series



FIELD BUS ELECTROPNEUMATIC VALVES

16 mm

Flow rate:
553 → 706 NI/min

1907/2006
REACH ✓

2011/65/CE
RoHS ✓

PED
2014/68/UE


Component Parts and Materials

Body in anodised aluminium
Base in anodised aluminium
Spool in nickel-plated aluminum
Piston & Spool Seals in Elastomer
Springs: Stainless steel AISI 302



Threaded connections

Integrated electrical connection system
IP63 protection
16 mm thickness
Single-sided solenoid valves
Same overall dimensions for monostable and bistable valve
Connections for use with female thread at the base
Quick, fast and with few elements of the solenoid valve group

✓	TYPE OF SOLENOID VALVE	Elastomer sealing
≡	FLUIDS	Air
Bar	Monostable pneumatic spring return	22 ÷ 102 psi (1.5 ÷ 7 bar)
	Monostable mechanical spring return	44 ÷ 102 psi (3 ÷ 7 bar)
	2-way valve bistable	15 ÷ 102 psi (1 ÷ 7 bar)
	3-way valve	29 ÷ 102 psi (2 ÷ 7 bar)
Bar	5/4-way valve double (3/2)	22 ÷ 102 psi (1.5 ÷ 7 bar)
	Working pressure field	-14 ÷ 145 psi (-0.99 ÷ 10 bar)
	Max. Pressure at Exhaust	102 psi (7 bar)
	Monostable pneumatic spring return	36 ÷ 102 psi (2.5 ÷ 7 bar)
Bar	Monostable mechanical spring return	44 ÷ 102 psi (3 ÷ 7 bar)
	Piloting pressure field 2-way valve bistable	36 ÷ 102 psi (2.5 ÷ 7 bar)
	3-way valve	36 ÷ 102 psi (2.5 ÷ 7 bar)
	5/4-way valve double (3/2)	36 ÷ 102 psi (2.5 ÷ 7 bar)
Bar	WORKING PRESSURE WITH SEPARATE PILOTED VALVE	
Bar	OPERATING TEMPERATURE	23 ÷ 122 °F -5 ÷ 50 °C Without freezing
Bar	MANUAL CONTROL	Rotating with lock

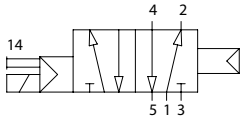
	WITH PILOT EXHAUST	Internal Pilot			Common outlet for main/pilot valve		
		External Pilot			Individual outlet for pilot valve		
	SUGGESTED FILTRATION	≤ 20 µm			LUBRICATION	Not necessary	
	PROTECTION DEGREE					IP63	
	VOLTAGE	24 VDC			POWER CONSUMPTION	1.3 W	
	ALLOWABLE VOLTAGE FLUCTUATIONS (V)	±10% of nominal voltage			MAX SWITCHING FREQUENCY	3 Hz	
	VISUAL SIGNAL OF PILOT VALVE					LED	
	SWITCHING TIMES		5/4	5/2 Pneumatic return	5/2 Spring return	5/2 Bistable	5/3 Monostable
		Switching time on (ms) OUT (2)	11	21	17	14	17
		Switching time on (ms) OUT (4)	19	-	-	19	31
		Switching time off (ms) OUT (2)	26	-	-	-	-
		Switching time off (ms) OUT (4)	41	44	56	-	-

5/2 Ways

MONOSTABLE WITH PNEUMATIC RETURN



Code	Ways	Flow rate	Weight
16V S4 5 00 00	5/2	706 NI/min	0.25 lb (112g)



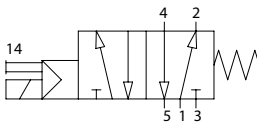
5/2 Ways

MONOSTABLE MECHANICAL SPRING RETURN

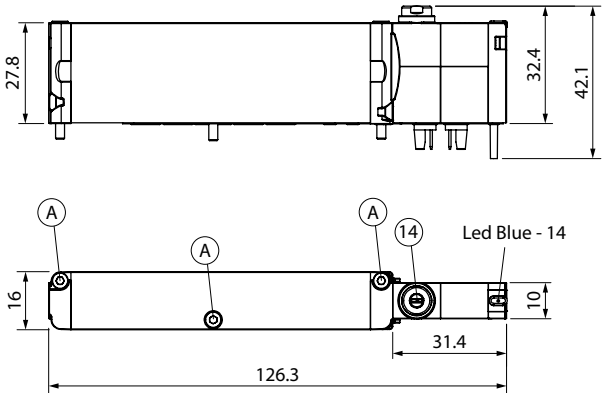
* on request



Code	Ways	Flow rate	Weight
16V S0 5 00 00	5/2	706 NI/min	0.25 lb (112g)



16V S4 5 00 00 - 16V S0 5 00 00



Screw tightening torque for fixing the component to the base

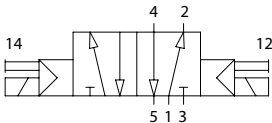
(A) 0.6 Nm

5/2 Ways

TWO STABLE POSITIONS



Code	Ways	Flow rate	Weight
16V S1 5 00 00	5/2	706 NI/min	0.25 lb (114g)

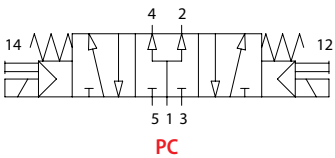
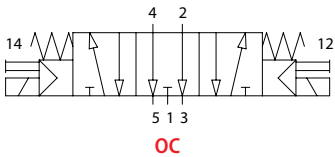
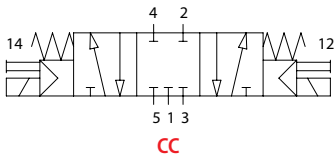


5/3 Ways

MONOSTABLE WITH PNEUMATIC RETURN



Code	Ways	Function	Flow rate	Weight
16V S0 7 CC 00	5/3	CC	591 NI/min	0.26 lb (118g)
16V S0 7 OC 00	5/3	OC	705 NI/min	0.26 lb (117g)
16V S0 7 PC 00	5/3	PC	680 NI/min	0.26 lb (117g)

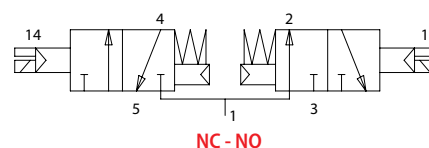
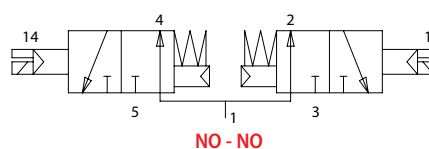
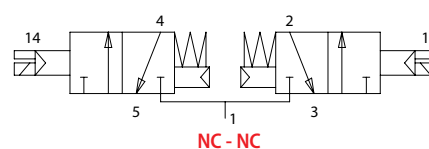


5/4 Ways

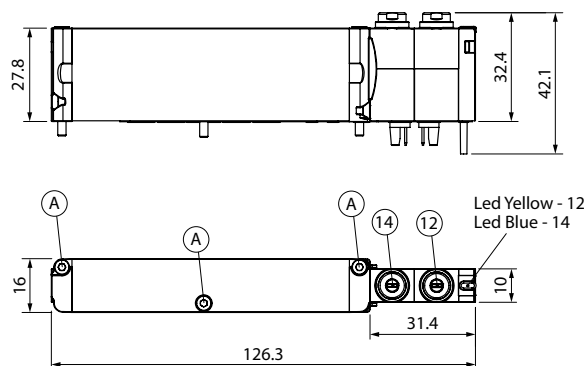
DOUBLE 3/2 MONOSTABLE MECHANICAL SPRING RETURN



Code	Ways	Function	Flow rate	Weight
16V S0 8 NC 00	5/4	NC	553 NI/min	0.26 lb (120g)
16V S0 8 NO 00	5/4	NO	620 NI/min	0.26 lb (119g)
16V S0 8 NN 00	5/4	NC-NO	553 NI/min	0.26 lb (120g)



16V S1 5 00 00 16V S0 7 CC 00 16V S0 7 OC 00 16V S0 7 PC 00
16V S0 8 NC 00 16V S0 8 NO 00 16V S0 8 NN 00



Screw tightening torque for fixing the component to the base

(A) 0.6 Nm

16V36

PLUG FOR UNUSED POSITIONS

Code	Screw tightening torque	Weight
16V 36 0 00 00	(A) 0.6 N	0.35 lb (157g)



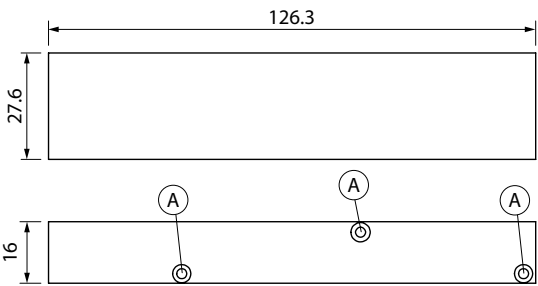
16V37

INTERMEDIATE SUPPLY BLOCK

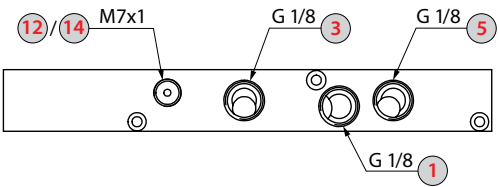
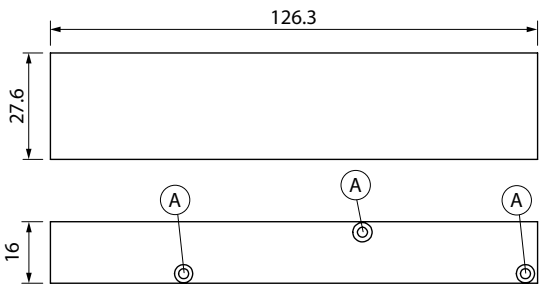
Code	Screw tightening torque	Weight
16V 37 0 00 00	(A) 0.6 N	0.31 lb (142g)



16V 36 0 00 00



16V 37 0 00 00



12/14	Pilot power supply
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1	Air supply
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3/5	Exhaust
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The use of an intermediate air supply every 5 solenoid valves exhausting simultaneously is recommended to ensure maximum performance.

PNEUMATIC BASE WITH INTEGRATED PILOTING SYSTEM

16VB0

BI-STABLE BASE WITH INTEGRATED PILOTING

Code	Size (1)	Positions Number	L1	L2	Weight
16VB0 04 00 0	1/4	4	5.709 (145)	5.354 (136)	2.53 lb (1146g)
16VB0 06 00 0	1/4	6	7.008 (178)	6.654 (169)	3.10 lb (1407g)
16VB0 08 00 0	1/4	8	8.307 (211)	7.953 (202)	3.68 lb (1668g)
16VB0 10 00 0	1/4	10	9.606 (244)	9.252 (235)	4.22 lb (1914g)
16VB0 12 00 0	1/4	12	10.906 (277)	10.551 (268)	4.68 lb (2125g)
16VB0 14 00 0	1/4	14	12.205 (310)	11.850 (301)	5.40 lb (2450g)
16VB0 16 00 0	1/4	16	13.504 (343)	13.150 (334)	5.88 lb (2666g)



16VB0

MULTIPLE BASE WITH INTEGRATED PILOTING

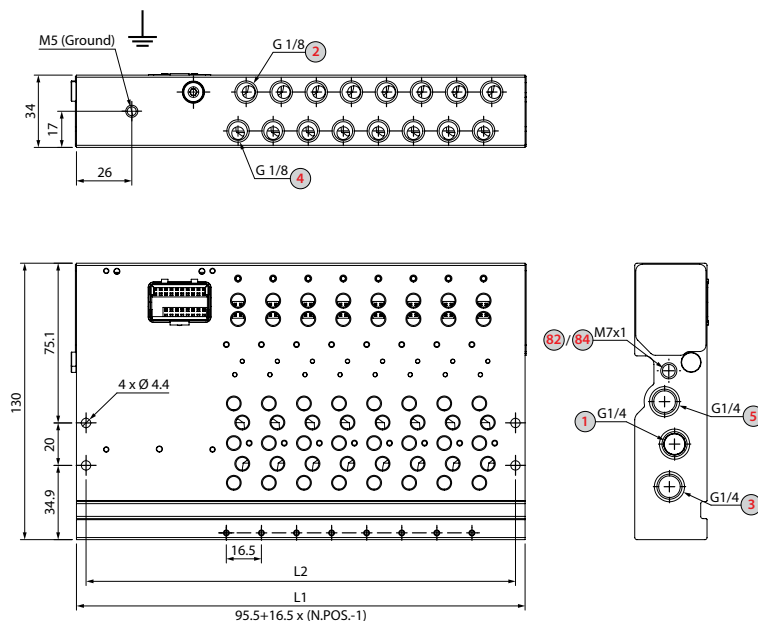
Code	Size (1)	Positions Number	L1	L2	Weight
16VB0 24 00 1	1/4	BIS.8 POS. + MONO.16 POS	18.701 (475)	18.346 (466)	8.09 lb (3670g)

Mono-stable position can mount mono-stable 5/2 valves only

The first 8 positions are the bi-stable ones



16VB0



1

Power supply

3/5

Exhaust

2/4

Outputs

82/84

Air pilot exhausts

16V43

SEPARATE PILOTING PLUG

Code	Screw tightening torque	Weight
16V 43 0 00 00	(A) 0.6 N	0.02 lb (7g)



16V39

SEPARATION CAP FOR SUPPLY AND EXHAUST DUCTS

Code	Screw tightening torque	Weight
16V 39 0 00 00	0.6 N	0.01 lb (4.3g)



17V18

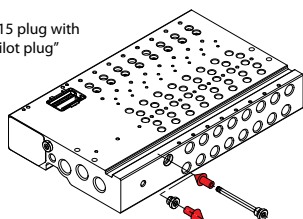
SEPARATION CAP FOR PILOT DUCTS

Code	Screw tightening torque	Weight
17V 18 0 00 00	0.6 N	0.003 lb (1.4g)

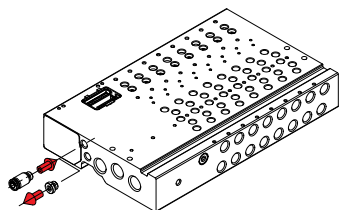


16V 43 0 00 00

Replace the 3015 plug with the "separate pilot plug"

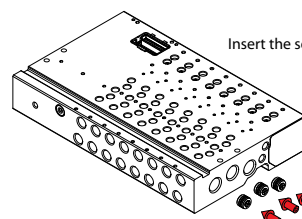


Replace the 3015 plug with a fitting to feed the pilot

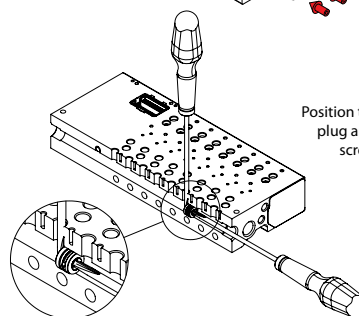


16V 39 0 00 00

Insert the separating plug



Position the separating plug and tighten the screw to secure it



POWER SUPPLY UNIT

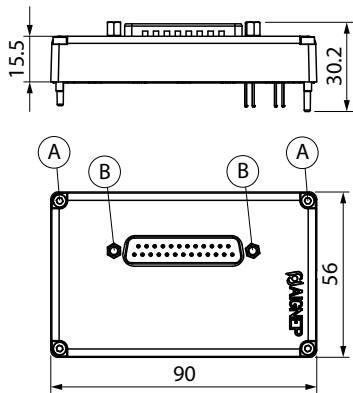
16V17

POWER SUPPLY UNIT / D-SUB 25 PINS



Code	Weight
16V 17 00 00 1	0.13 lb (60g)

16V 17 00 00 1



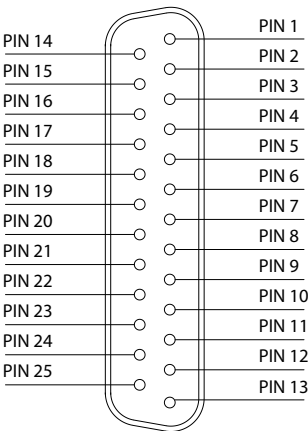
Screw tightening torque for fixing the component to the base

(A) 0.6 Nm

Screw tightening torque for fixing the component to connector

(B) 0.2 Nm

D-SUB 25 PINS



1 - 12 positive signals PNP

14 - 25 positive signals PNP

13 0V common

POWER SUPPLY UNIT

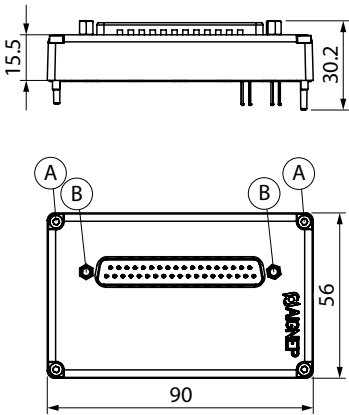
16V16

POWER SUPPLY UNIT / D-SUB 37 PINS



Code	Weight
16V 16 00 00 1	0.14 lb (64g)

16V 16 00 00 1



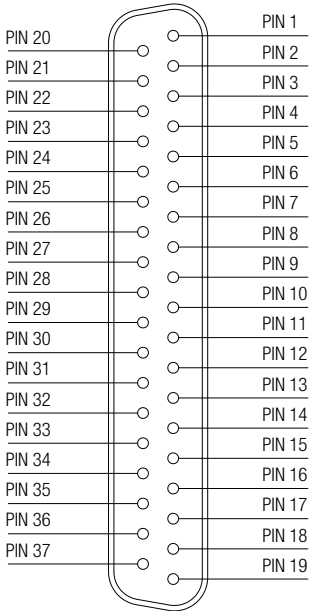
Screw tightening torque for fixing the component to the base

(A) 0.6 Nm

Screw tightening torque for fixing the component to connector

(B) 0.2 Nm

D-SUB 37 PINS

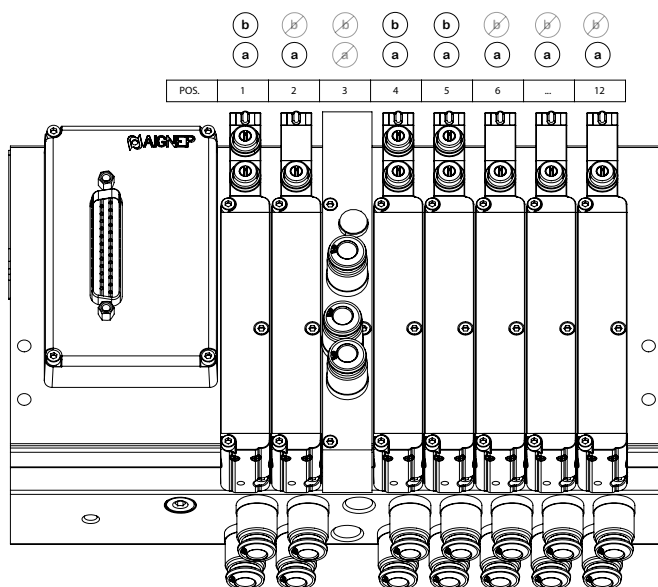


1 - 16 positive signals PNP

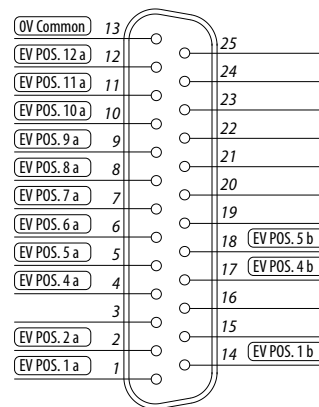
20 - 35 positive signals PNP

17 - 18 - 19 0V common
36 - 37

PIN CONFIGURATION FOR MIXED SOLENOID VALVE CONFIGURATION MOUNTED ON A BI-STABLE BASE

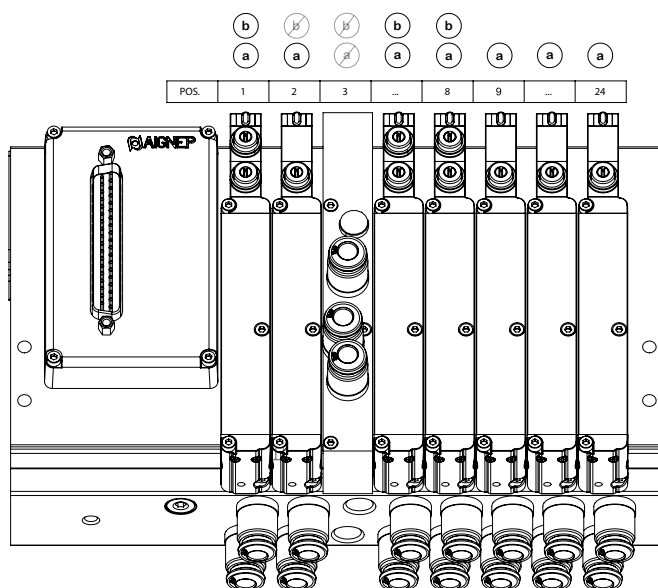


D-SUB 25 PINS

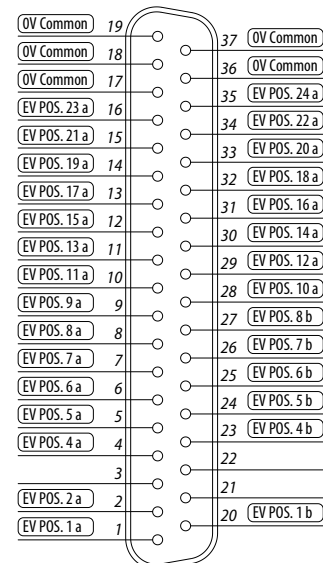


a = 14
b = 12

PIN CONFIGURATION FOR MIXED SOLENOID VALVE CONFIGURATION MOUNTED ON A BI-STABLE BASE



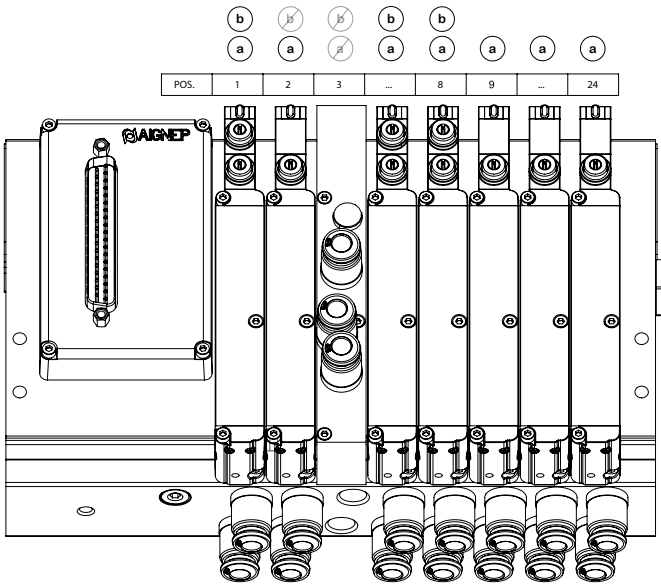
D-SUB 37 PINS



a = 14
b = 12

PIN CONFIGURATION FOR MIXED SOLENOID VALVE CONFIGURATION MOUNTED ON A MULTIPLE BASE

D-SUB 37 PINS



OV Common	19	37	OV Common
OV Common	18	36	OV Common
OV Common	17	35	EV POS. 24 a
EV POS. 23 a	16	34	EV POS. 22 a
EV POS. 21 a	15	33	EV POS. 20 a
EV POS. 19 a	14	32	EV POS. 18 a
EV POS. 17 a	13	31	EV POS. 16 a
EV POS. 15 a	12	30	EV POS. 14 a
EV POS. 13 a	11	29	EV POS. 12 a
EV POS. 11 a	10	28	EV POS. 10 a
EV POS. 9 a	9	27	EV POS. 8 b
EV POS. 8 a	8	26	EV POS. 7 b
EV POS. 7 a	7	25	EV POS. 6 b
EV POS. 6 a	6	24	EV POS. 5 b
EV POS. 5 a	5	23	EV POS. 4 b
EV POS. 4 a	4	22	
	3	21	
EV POS. 2 a	2	20	EV POS. 1 b
EV POS. 1 a	1		

a = 14
b = 12

ETHERNET/IP

POWER MULTI-POLE CONNECTOR

16VU1

POWER MULTI-POLE CONNECTOR

Code	Weight
16V U1 00 00 0	0.79 lb (358g)



Screw tightening torque for fixing the component to the base

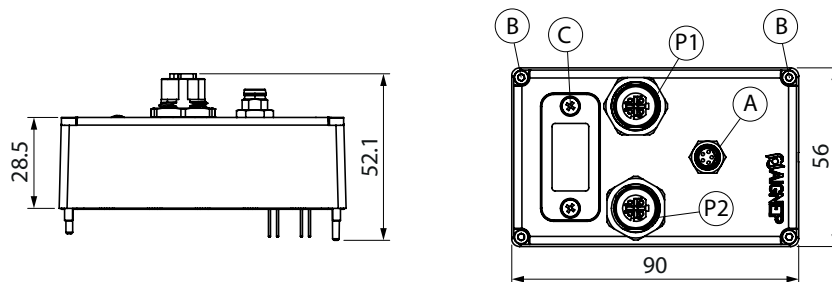
(B) 0.5 Nm

Screw tightening torque for fixing the component to connector

(C) 0.4 Nm



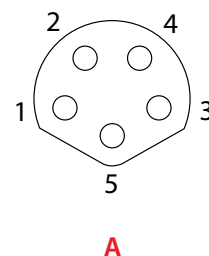
16V U1 0 00 00



CONFIGURATION M8 MULTI-POLE CONNECTOR

Nr. Pin	Description	Wire colours Phoenix
1	A + 24Vdc Valve power supply	BN
2	A + 24Vdc Node power supply	WH
3	A 0V	BU
4	A 0V	BK
5	Unused	GY

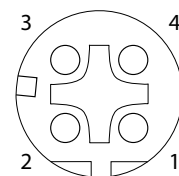
Node and valve power supplies are internally connected.



A

CONFIGURATION MULTI-POLE CONNECTORS - FEMALE

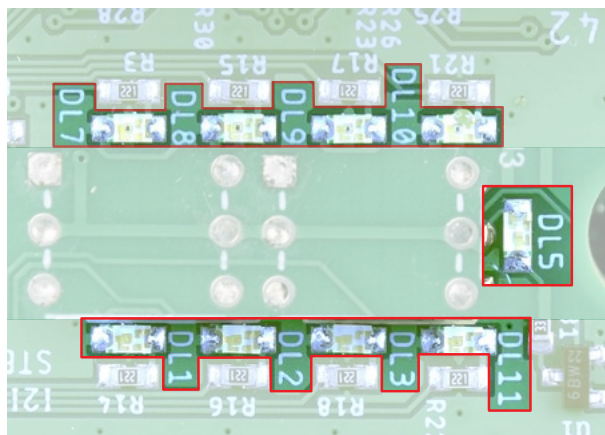
Nr. Pin	Description
1	TX +
2	RX +
3	TX -
4	RX -
NUT	Shield



P1 - P2

An internal switch is supported to allow the choice of communication way. The second one is suitable to use for extend the BUS in a next core.

ETHERNET/IP		
A Power supply	Power connection	M8 Male connector
	Voltage	+24Vdc +/-10%
	Node consumption (without outputs)	50mA
	Maximum allowable consumption	2A
OUT Outlet	PNP outlet equivalent	+24Vdc +/-10%
	Maximum current for output	300 mA
	Maximum output number	32
	Max output simultaneously actuated	32
Configuration file		Available on the web site http://www.aignep.com

DIAGNOSTIC LEDS


ETHERNET/IP		
Network	Network connections	2 M12 4P connectors male-female D-Type
	Baud rate	100 Mbps
	Default Address	192.168.250.70
	Volume addresses	4 byte (EV1 ~ EV32)
	Max nodes number	255
	Green DL5 LED: Always flashes in normal operation, off or permanently on in the event of a fault	
	Port 1 - Active operation	LED DL1: Green flashing LED DL3: Steady green LED DL11: Steady green
	Port 2 - Active operation	LED DL2: Green flashing LED DL3: Steady green LED DL11: Steady green
	IP address not set	LED DL1: Green flashing every second LED DL3: Green flashing every second
	Communication cable not connected	LED DL3: Green flashing
16V Diagnosis	Communication cable connected to disconnected	LED DL3: Green flashing LED DL10: Red flashing
	IP enclosure	IP67 when assembled
	Ambient temperature	32 ° ÷ 122 °F (0° ÷ +50°C)

PROFINET

POWER MULTI-POLE CONNECTOR

16VU2

POWER MULTI-POLE CONNECTOR

Code	Weight
16V U2 00 00 0	0.79 lb (358g)



Screw tightening torque for fixing the component to the base

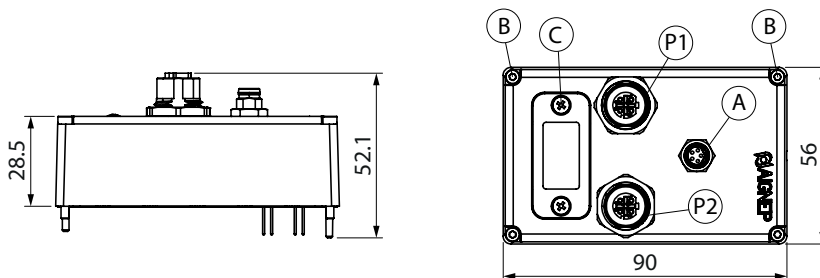
(B) 0.5 Nm

Screw tightening torque for fixing the component to connector

(C) 0.4 Nm



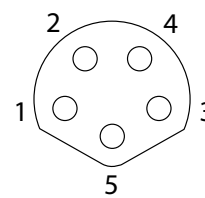
16V U2 0 00 00



CONFIGURATION M8 MULTI-POLE CONNECTOR

Nr. Pin	Description	Wire colours Phoenix
1	A + 24Vdc Valve power supply	BN
2	A + 24Vdc Node power supply	WH
3	A 0V	BU
4	A 0V	BK
5	Unused	GY

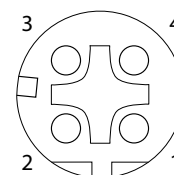
Node and valve power supplies are internally connected.



A

CONFIGURATION MULTI-POLE CONNECTORS - FEMALE

Nr. Pin	Description
1	TX +
2	RX +
3	TX -
4	RX -
NUT	Shield

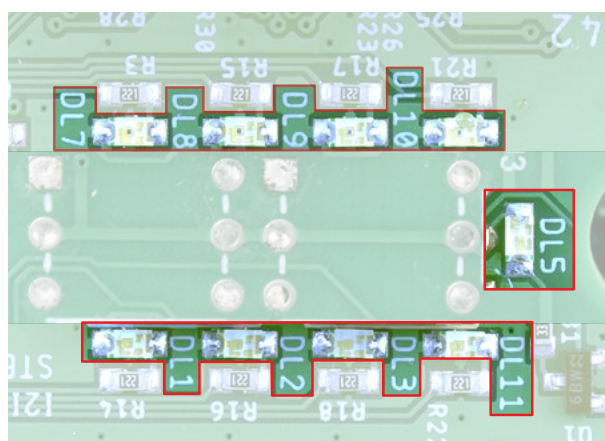


P1 - P2

An internal switch is supported to allow the choice of communication way. The second one is suitable to use for extend the BUS in a next core.

PROFINET		
A Power supply	Power connection	M8 Male connector
	Voltage	+24Vdc +/-10%
	Node consumption (without outputs)	50mA
	Maximum allowable consumption	2A
OUT Outlet	PNP outlet equivalent	+24Vdc +/-10%
	Maximum current for output	300 mA
	Maximum output number	32
	Max output simultaneously actuated	32
Configuration file		Available on the web site http://www.aignep.com

DIAGNOSTIC LEDS



PROFINET	
Network	Network connections
	2 M12 4P connectors male-female D-Type
	Baud rate
	100 Mbps
	PROFINET default name
	serie16v
	Default IP address
	192.168.250.80
	Volume addresses
	4 byte (EV1 ~ EV32)
	Max nodes number
	255
	Green DL5 LED: Always flashes in normal operation, off or permanently on in the event of a fault
	DL9 red: Status of Internal connection module : it switches in case of system fault
	16V Diagnosis
	Waiting commands
	LED DL1 (If connect port 1): Green flashing
	LED DL2 (If connect port 2): Green flashing
	LED DL3: Steady green
	LED DL11: Green flashing
	LED DL10: Off
	Active communication
	LED DL1 (If connect port 1): Green flashing
	LED DL2 (If connect port 2): Green flashing
	LED DL3: Steady green
	LED DL11: Steady green
	LED DL10: Off
	IP address not set
	LED DL1 (If connect port 1): Green flashing
	LED DL2 (If connect port 2): Green flashing
	LED DL3: Steady green
	LED DL11: Off
	LED DL10: Red flashing
	Communication cable not connected
	LED DL1 (If connect port 1): Off
	LED DL2 (If connect port 2): Off
	LED DL3: Steady green
	LED DL11: Off
	LED DL10: Off
	IP enclosure
	IP67 when assembled
	Ambient temperature
	32 ° ÷ 122 °F (0° ÷ +50°C)

ETHERCAT

POWER MULTI-POLE CONNECTOR

16VU3

POWER MULTI-POLE CONNECTOR

Code	Weight
16V U3 00 00 0	0.79 lb (358g)



Screw tightening torque for fixing the component to the base

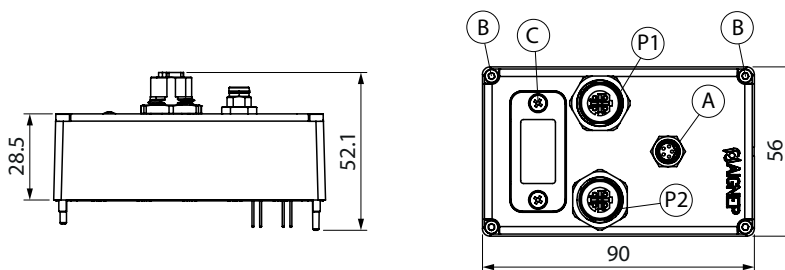
(B) 0.5 Nm

Screw tightening torque for fixing the component to connector

(C) 0.4 Nm



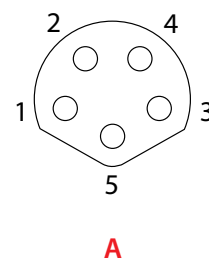
16V U3 0 00 00



CONFIGURATION M8 MULTI-POLE CONNECTOR

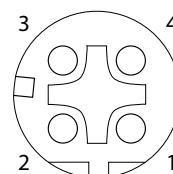
Nr. Pin	Description	Wire colours Phoenix
1	A + 24Vdc Valve power supply	BN
2	A + 24Vdc Node power supply	WH
3	A 0V	BU
4	A 0V	BK
5	Unused	GY

Node and valve power supplies are internally connected.

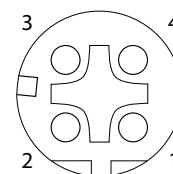


CONFIGURATION MULTI-POLE CONNECTORS - FEMALE

Nr. Pin	P1 (IN)	P2 (OUT)
1	TX +	TX +
2	RX +	RX +
3	TX -	TX -
4	RX -	RX -
NUT	Shield	Shield

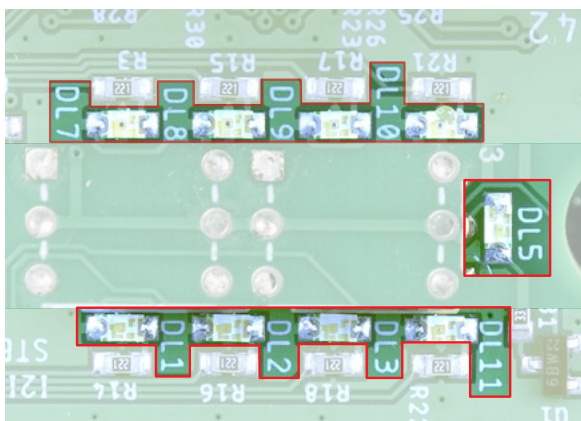


P1 - P2



P2 (OUT)

EtherCAT		
A Power supply	Power connection	M8 Male connector
	Voltage	+24Vdc +/-10%
	Node consumption (without outputs)	50mA
	Maximum allowable consumption	2A
OUT Outlet	PNP outlet equivalent	+24Vdc +/-10%
	Maximum current for output	300 mA
	Maximum output number	32
	Max output simultaneously actuated	32
Configuration file		Available on the web site http://www.aignep.com

DIAGNOSTIC LEDS


EtherCAT		
Network	Network connections	2 M12 4P connectors male-female D-Type
	Baud rate	100 Mbps
	Default Address	192.168.250.70
	Volume addresses	4 byte (EV1 ~ EV32)
	Max nodes number	255
	Green DLS LED: Always flashes in normal operation, off or permanently on in the event of a fault	
	Port 1 - Active operation	LED DL1: Fast green flashing LED DL11: Steady green
	Communication cable not connected	ALL LED: Off
	Communication cable connected to disconnected	LED DL9: Red flashing (2:1) LED DL1: Green flashing
	16V Diagnosis	
	IP enclosure	IP67 when assembled
	Ambient temperature	32 ° ÷ 122 °F (0° ÷ +50°C)

POWERLINK

POWER MULTI-POLE CONNECTOR

16VU4

POWER MULTI-POLE CONNECTOR

Code	Weight
16V U4 00 00 0	0.79 lb (358g)



Screw tightening torque for fixing the component to the base

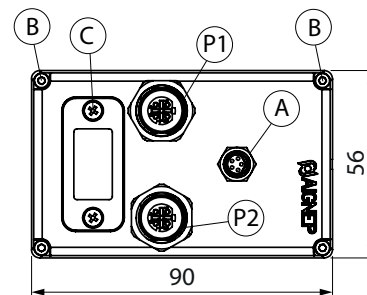
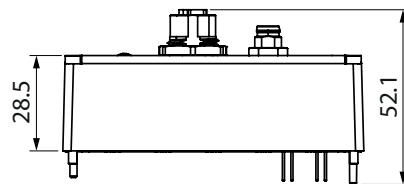
(B) 0.5 Nm

Screw tightening torque for fixing the component to connector

(C) 0.4 Nm



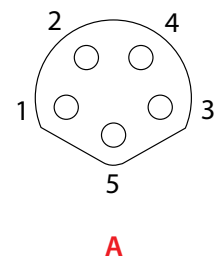
16V U4 0 00 00



CONFIGURATION M8 MULTI-POLE CONNECTOR

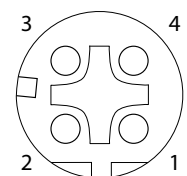
Nr. Pin	Description	Wire colours Phoenix
1	A + 24Vdc Valve power supply	BN
2	A + 24Vdc Node power supply	WH
3	A 0V	BU
4	A 0V	BK
5	Unused	GY

Node and valve power supplies are internally connected.



CONFIGURATION MULTI-POLE CONNECTORS - FEMALE

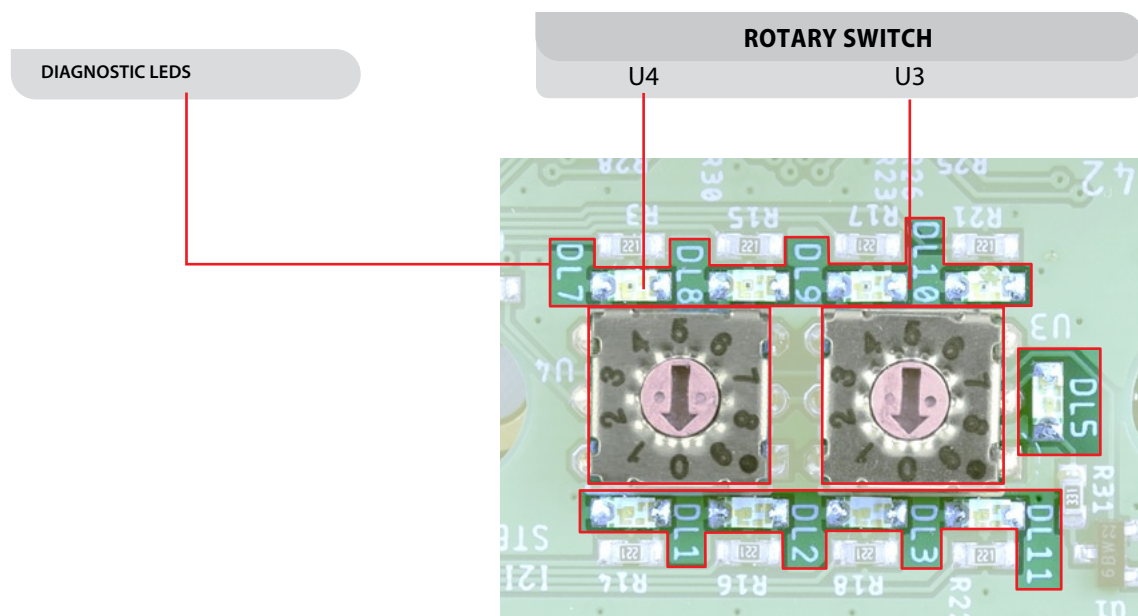
Nr. Pin	Description
1	TX +
2	RX +
3	TX -
4	RX -
NUT	Shield



P1 - P2

A internal switch is supported to allow the choice of communication way. The second one is suitable to use for extend the BUS in a next core.

PowerLink			
A Power supply	Power connection	M8 Male connector	
	Voltage	+24Vdc +/-10%	
	Node consumption (without outputs)	50mA	
	Maximum allowable consumption	2A	
OUT Outlet	PNP outlet equivalent	+24Vdc +/-10%	
	Maximum current for output	300 mA	
	Maximum output number	32	
	Max output simultaneously actuated	32	
Configuration file		Available on the web site http://www.aignep.com	



PowerLink			
Network	Network connections	2 M12 4P connectors male-female D-Type	
	Baud rate	100 Mbps	
	Default Address	192.168.250.70	
	Volume addresses	4 byte (EV1 ~ EV32)	
	Max nodes number	99	
	Adressing	Rotary switches U4-U3	
	16V Diagnosis	Green DL5 LED: Always flashes in normal operation, off or permanently on in the event of a fault	
Port 1 - Active operation		LED DL1: Green flashing	LED DL11: Steady green
Port 2 - Active operation		LED DL2: Green flashing	LED DL11: Steady green
Incorrect node		LED DL1: Fast green flashing	LED DL2: Fast green flashing
Communication cable not connected		LED DL11: Fast green flashing	LED DL11: Green flashing (2:1)
Communication cable connected to disconnected		LED DL9: Steady Red	LED DL11: Green flashing
IP enclosure	IP67 when assembled	Ambient temperature	32 ° ÷ 122 °F (0° ÷ +50°C)

IO-LINK

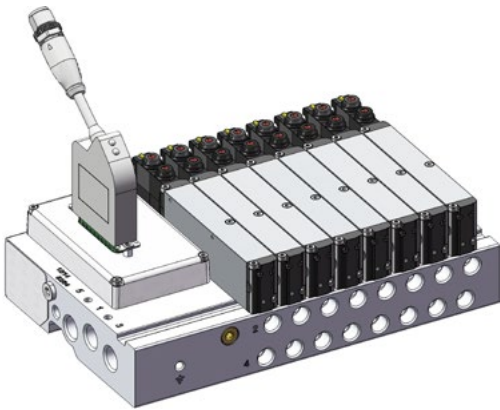
IO-LINK NETWORK INTERFACE

16VW3

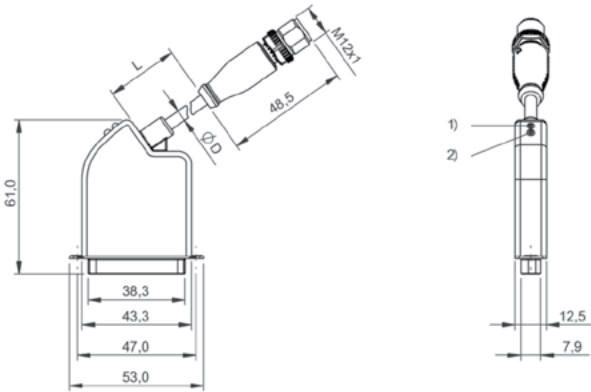
PNETWORK INTERFACE IO-LINK



Code	Cable Length	Power connection	Jacket Material
16V W3 00 00 2	1.97 ft (0.6 m)	M12 x 1	PUR

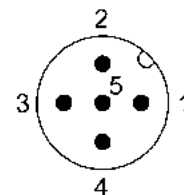


16V W3 00 00 2



CONFIGURATION M8 MULTI-POLE CONNECTOR

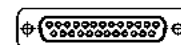
Nr. Pin	Description
1	+ 24Vdc Controller
2	+ 24Vdc Valve power supply
3	0V
4	IO-Link
5	Unused



Node and valve power supplies are internally connected.

CONFIGURATION MULTI-POLE CONNECTORS - FEMALE

Nr. Pin	Description
1 - 12	Outputs
13	0V
14 - 25	Outputs



Network connections	Cylinder head screw M2.6 x 7.6
Electrical connections	M12x1 - D-sub (25 Poli)
Conductors	0.34 mm ²
Current consumption without load	60 mA
Summable current UA actuator / US sensor	4 A / 4 A
IO-Link function	Device
Operating voltage UB / Nominal Ue DC	24 VDC ± 10%
Degree of protection	IP40
Ambient/storage temperature	23 131 °F (-5 55 °C) / -13 158 °F (-25 70 °C)
Network	Process cycle data min. / Process data OUT
	3.5 ms / 4 bytes
	Cycle times Min.
	3.5 ms
	Transfer speed
	COM2 (38.4 kBaud)
	Version
	IO/LINK 1.1
Actuator power supply indicator UA / Modules / IO-Link	Green LED
Power supply indicator Modules	Green LED
IO-Link power indicator	Green LED
Configuration file	Available on the web site http://www.aignep.com

D-SUB 25 PINS

CABLE WITH INLINE CONNECTOR

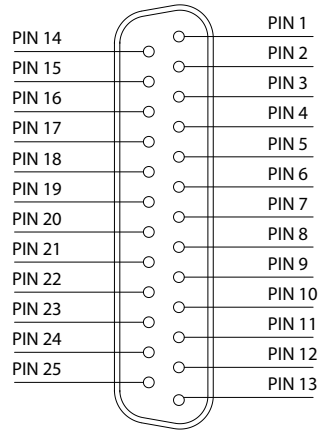
16VW1

D-SUB 25 POLES CABLE WITH INLINE CONNECTOR

Code	Cable Length	Jacket Material
16V W1 05 00 0	16.40 ft (5 m)	PVC
16V W1 10 00 0	32.81 ft (10 m)	PVC



D-SUB 25 PINS



1 - 12 *positive signals PNP*

14 - 25 *positive signals PNP*

13 *0V common*

D-SUB 37 PINS

CABLE WITH INLINE CONNECTOR

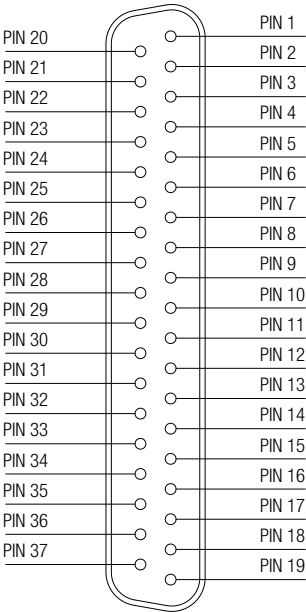
15VW1

D-SUB 37 POLES CABLE WITH INLINE CONNECTOR



Code	Cable Length	Jacket Material
15V W1 05 00 0	16.40 ft (5 m)	PVC
15V W1 10 00 0	32.81 ft (10 m)	PVC

D-SUB 37 PINS



1 - 16	positive signals PNP
20 - 35	positive signals PNP
17 - 18 - 19 36 - 37	0V common

POWER AND COMMUNICATION CABLES

16VW2

ETHERNET/IP, PROFINET ETHERCAT AND POWERLINK CABLE WITH INLINE FEMALE CONNECTOR M8X1

Code	Cable Length	Jacket Material
16V W2 05 00 0	16.40 ft (5 m)	PUR
16V W2 10 00 0	32.81 ft (10 m)	PUR
		max
Torque specifications ring		0.4 Nm



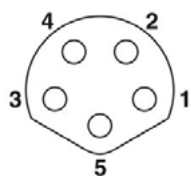
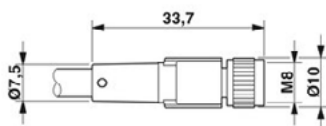
16VW2

ETHERNET/IP, PROFINET ETHERCAT AND POWERLINK CABLE WITH "L" FEMALE CONNECTOR M8X1

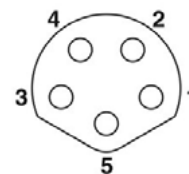
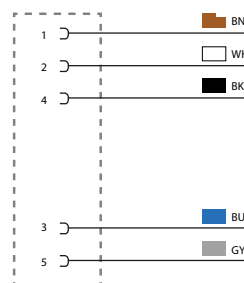
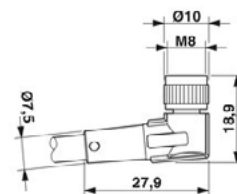
Code	Cable Length	Jacket Material
16V W2 05 00 1	16.40 ft (5 m)	PUR
16V W2 10 00 1	32.81 ft (10 m)	PUR
		max
Torque specifications ring		0.4 Nm



16V W2 05 00 0 - 16V W2 10 00 0



16V W2 05 00 1 - 16V W2 10 00 1



15VW5

ETHERNET/IP, PROFINET, ETHERCAT AND POWERLINK CABLE WITH INLINE MALE CONNECTOR M12X1

Code	Cable Length	Jacket Material
15V W5 05 00 0	16.40 ft (5 m)	PUR
15V W5 10 00 0	32.81 ft (10 m)	PUR
		max
Torque specifications ring		0.6 Nm



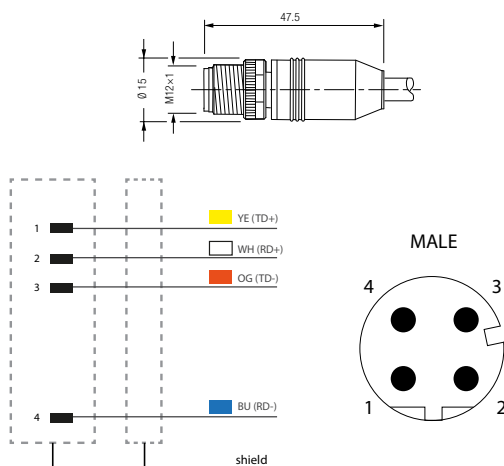
15VW5

ETHERNET/IP, PROFINET, ETHERCAT AND POWERLINK CABLE WITH 90° ANGLE MALE CONNECTOR M12X1

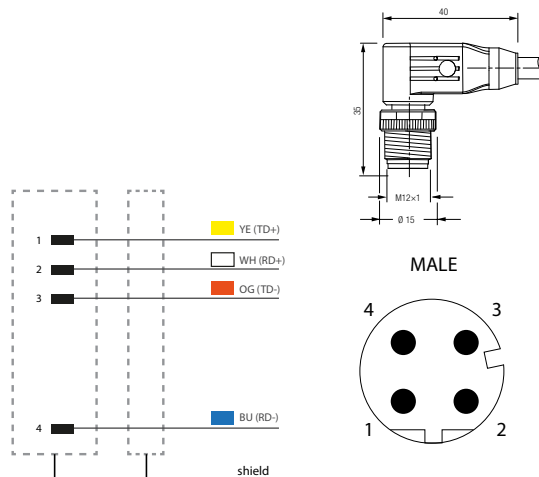
Code	Cable Length	Jacket Material
15V W5 05 00 1	16.40 ft (5 m)	PUR
15V W5 10 00 1	32.81 ft (10 m)	PUR
		max
Torque specifications ring		0.6 Nm



15V W5 05 00 0 - 15V W5 10 00 0



15V W5 05 00 1 - 15V W5 10 00 1



15VW6

ETHERNET/IP, PROFINET, ETHERCAT AND POWERLINK CABLE WITH INLINE MALE - MALE CONNECTORS M12X1

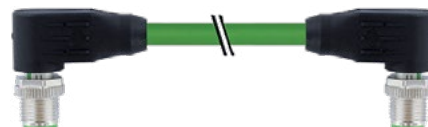
Code	Cable Length	Jacket Material
15V W6 05 00 0	16.40 ft (5 m)	PUR
		max
 Torque specifications ring		0.6 Nm



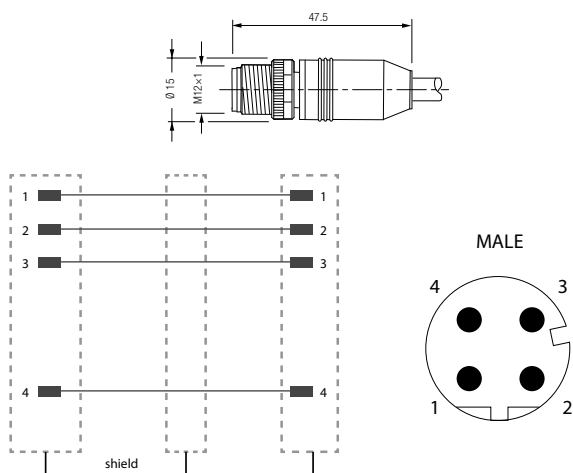
15VW6

ETHERNET/IP, PROFINET, ETHERCAT AND POWERLINK CABLE WITH 90° ANGLE MALE-MALE CONNECTORS M12X1

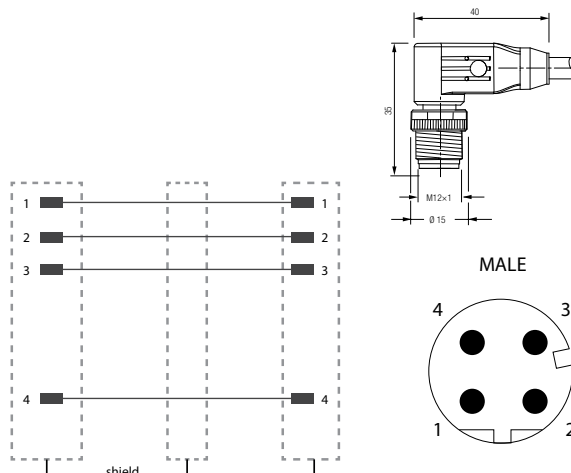
Code	Cable Length	Jacket Material
15V W6 05 00 1	16.40 ft (5 m)	PUR
		max
 Torque specifications ring		0.6 Nm



15V W6 05 00 0



15V W6 05 00 1

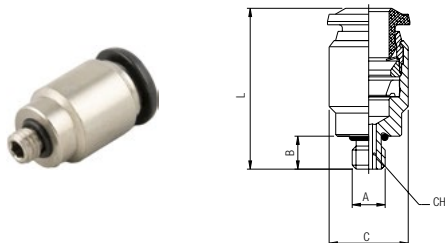


ACCESSORIES

50010N

BSP

TStraight Male Adaptor (Parallel)
With Hexagon Embedded

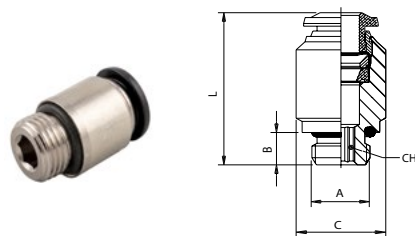


Code	Usa Ref	Tube	A	B	C	L	CH	Pack.
50010 00 N09	50010N-4-M7X1	5/32 (4)	M7x1	.188 (4,8)	.394 (10)	.827 (21)	.098 (2,5)	10

50015N

BSP

Straight Male Adaptor (Parallel)
With Hexagon Embedded

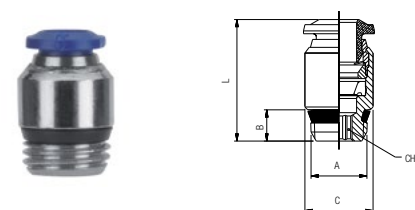


Code	Usa Ref	Tube	A	B	C	L	CH	Pack.
50015 00 N03	50015-6-1/8	6	1/8	.212 (5,4)	.504 (12,8)	.906 (23)	.157 (4)	10
50015 00 N04	50015-8-1/8	5/16 (8)	1/8	.212 (5,4)	.551 (14)	1.024 (26)	.197 (5)	10
50015 00 N12	50015-10-1/4	10	1/4	.280 (7,1)	.669 (17)	1.220 (31)	.236 (6)	10

87010



Straight Male
With Internal Hex

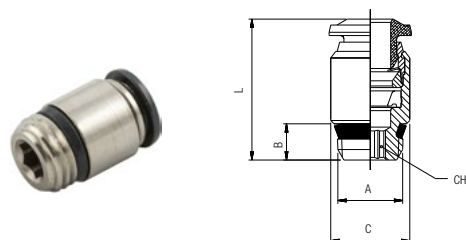


Code	Usa Ref	Tube	A	B	C	L	CH	Pack.
87010 00 005	87010-04-02	1/4	1/8	.217 (5)	.473 (12)	.846 (21,5)	.157 (4)	10

55010



Straight Male Adaptor
With Hexagon Embedded

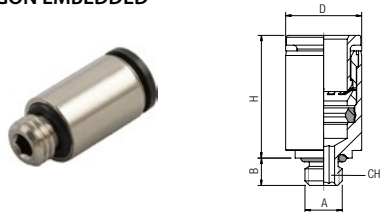


Code	Usa Ref	Tube	A	B	C	L	CH	Pack.
55010 00 004	50010N-8-1/8	5/16 (8)	1/8	0.216 (5,5)	.551 (14)	.984 (25)	.197 (5)	10

56010

STRAIGHT MALE ADAPTOR (PARALLEL) WITH HEXAGON EMBEDDED

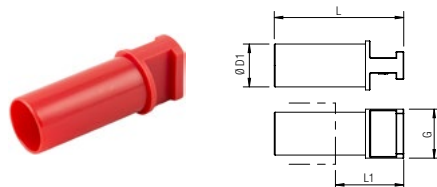
BSP



Code	Usa Ref	Tube	A	B	H	D	CH	Pack.
56010 00 001	56010-4-M5	5/32 (4)	M5	.142 (3,6)	.551 (14)	.335 (8,5)	.098 (2,5)	10
56010 00 004	56010-6-M7	6	M7	.197 (5)	.630 (16)	.394 (10)	.157 (4)	10

50610

POLYAMIDE PLUG



Code	Usa Ref	ØD1	G	L	L1	Pack.
50610 00 31 X1 RO	50610-4	5/32 (4)	.236 (6)	1.162 (29,5)	.611 (15,5)	10
50610 00 31 X4 RO	50610-6	6	.315 (8)	1.260 (32)	.611 (15,5)	10
50610 00 31 X7 RO	50610-8	5/16 (8)	.394 (10)	1.398 (35,5)	.768 (19,5)	10
50610 00 31 X9 RO	50610-10	10	.472 (12)	1.575 (40)	.768 (19,5)	10

55140

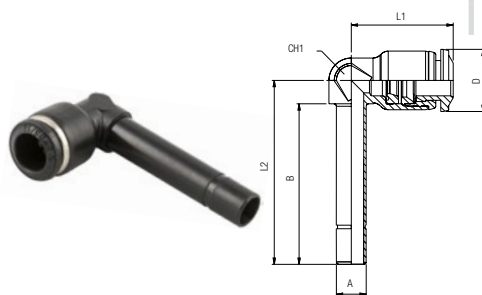
PLUG-IN ELBOW



Code	Usa Ref	Tube	A	B	L1	L2	CH1	D	Pack.
55140 00 002	55140-4-6	5/32 (4)	6	.748 (19)	.650 (16,5)	.898 (22,8)	.276 (7)	.394 (10)	10
55140 00 005	55140-6	6	6	.748 (19)	.807 (20,5)	.933 (23,7)	.354 (9)	.492 (12,5)	10
55140 00 007	55140-8	5/16 (8)	5/16 (8)	.787 (20)	.866 (22)	1.024 (26)	.394 (10)	.551 (14)	10
55140 00 008	55140-8-10	5/16 (8)	10	.858 (21,8)	.866 (22)	1.087 (27,6)	.394 (10)	.551 (14)	10
55140 00 009	55140-10	10	10	.886 (22,5)	1.043 (26,5)	1.181 (30)	.512 (13)	.669 (17)	10

55150

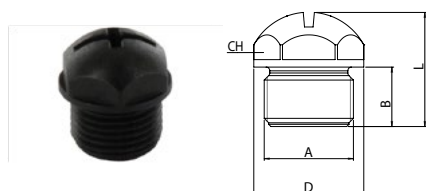
LONG PLUG-IN ELBOW



Code	Usa Ref	Tube	A	B	L1	L2	CH1	D	Pack.
55150 00 002	55150-4-6	5/32 (4)	6	1.201 (30,5)	.650 (16,5)	1.350 (34,3)	.276 (7)	.394 (10)	10
55150 00 005	55150-6	6	6	1.272 (32,3)	.807 (20,5)	1.457 (37)	.354 (9)	.492 (12,5)	10
55150 00 007	55150-8	5/16 (8)	5/16 (8)	1.417 (36)	.866 (22)	1.654 (42)	.394 (10)	.551 (14)	10
55150 00 008	55150-8-10	5/16 (8)	10	1.476 (37,5)	.866 (22)	1.697 (43,1)	.394 (10)	.551 (14)	10
55150 00 009	55150-10	10	10	1.606 (40,8)	1.043 (26,5)	1.902 (48,3)	.512 (13)	.669 (17)	10

16V46

MALE CLOSURE PLUG FOR CONNECTORS



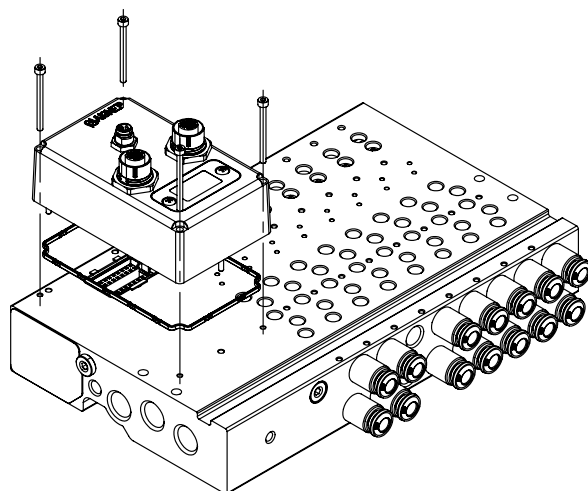
Code	A	B	L	CH	D	Pack.
16V46 00 25 NJ 00	M8X1	.236 (6)	.472 (12)	.354 (9)	.472 (12)	1
16V46 00 25 RL 00	M12X1	.315 (8)	.610 (15,5)	.512 (13)	.583 (14,8)	1



ASSEMBLING 16V

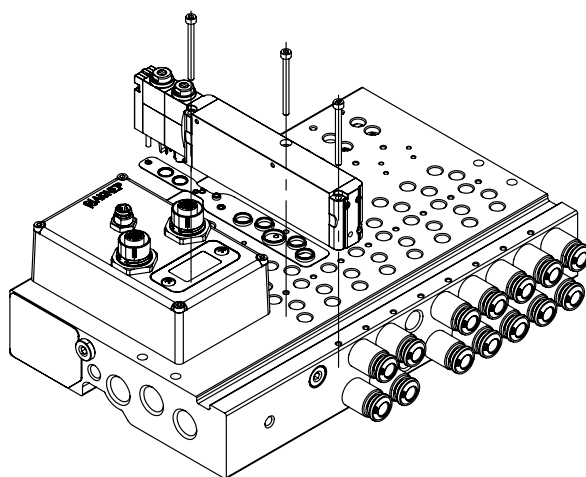
A

Power unit assembly on pneumatic base



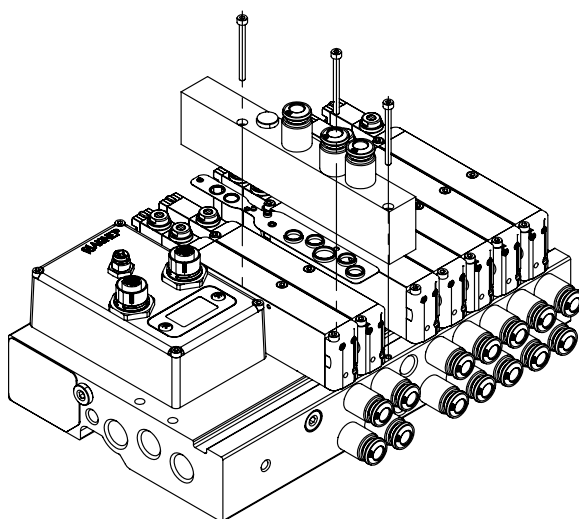
B

Valve assembly on pneumatic base



C

Intermediate air supply assembly on pneumatic base

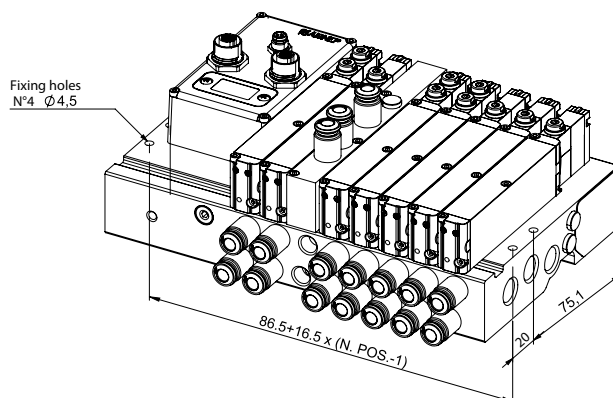




ASSEMBLING 16V

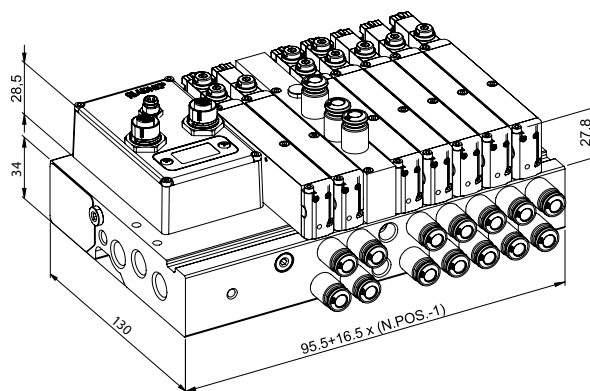
C

Fixing screw distance



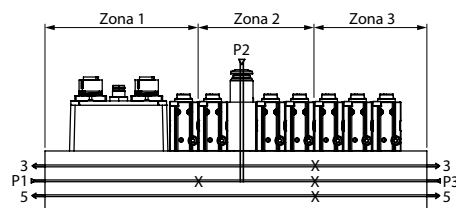
D

Overall dimensions



E

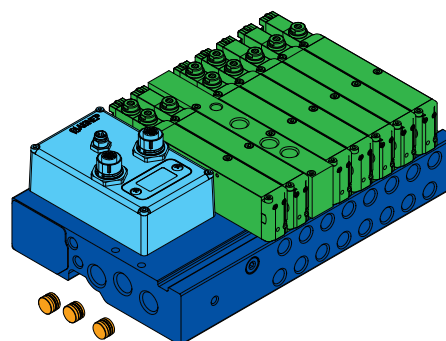
Assembly sketch for different pressure zones



X: plug positioning for code 16V3900000



Insert the values of the boxes in the table on page 17.264 in the following columns, to configure your 16V valve.



1A	16V 17 00 00 1 D - SUB 25 Pins
1B	16V 16 00 00 1 D - SUB 37 Pins
1C	16V U1 00 00 0 Ethernet/IP
1D	16V U2 00 00 0 Profinet
1E	16V U3 00 00 0 EtherCAT
1F	16V U4 00 00 0 PowerLink

3A	16V S0 5 00 00 5/2 solenoid valve monostable mechanical spring return
3B	16V S4 5 00 00 5/2 solenoid valve monostable pneumatic spring return
3C	16V S1 5 00 00 5/2 solenoid valve two stable positions
3D	16V S0 7 CC 00 5/3 solenoid valve monostable mechanical spring return
3E	16V S0 7 OC 00 5/3 solenoid valve monostable mechanical spring return
3F	16V S0 7 PC 00 5/3 solenoid valve monostable mechanical spring return
4A	16V 39 0 00 00 Separation cap for supply and exhaust ducts

Bi-stable base	Bi-stable base with separate piloting
2K 16V B0 04 000 N° 4 Positions	2P 16V B1 04 000 N° 4 Positions
2L 16V B0 06 000 N° 6 Positions	2O 16V B1 06 000 N° 6 Positions
2A 16V B0 08 000 N° 8 Positions	2F 16V B1 08 000 N° 8 Positions
2B 16V B0 10 000 N° 10 Positions	2G 16V B1 10 000 N° 10 Positions
2C 16V B0 12 000 N° 12 Positions	2H 16V B1 12 000 N° 12 Positions
2M 16V B0 14 000 N° 14 Positions	2N 16V B1 14 000 N° 14 Positions
2D 16V B0 16 000 N° 16 Positions	2I 16V B1 16 000 N° 16 Positions
Multiple base (bi + mono-stable)	Multiple base with separate piloting
2E 16V B0 24 001 BIS.8 POS + MONO. 16 POS.	2J 16V B1 24 001 BIS.8 POS + MONO. 16 POS.

3G 16V S0 8 NC 00 5/4 solenoid valve monostable mechanical spring return - NC
3H 16V S0 8 NO 00 5/4 solenoid valve monostable mechanical spring return - NO
3I 16V S0 8 NN 00 5/4 solenoid valve monostable mechanical spring return - NN
3J 16V 36 0 00 00 Closing Plate
3K 16V 37 0 00 00 Intermediate air supply
4B 17V 18 0 00 00 Separation cap for pilot ducts

SET YOUR VALVE 16V

Power supply unit
☐

Base
☐

Valve, Closing plug, Intermediate air supply	
1° POS	☐
2° POS	☐
3° POS	☐
4° POS	☐
5° POS	☐
6° POS	☐
7° POS	☐
8° POS	☐
9° POS	☐
10° POS	☐
11° POS	☐
12° POS	☐
13° POS	☐
14° POS	☐
15° POS	☐
16° POS	☐

Valve, Closing plug, Intermediate air supply	
17° POS	☐
18° POS	☐
19° POS	☐
20° POS	☐
21° POS	☐
22° POS	☐
23° POS	☐
24° POS	☐

Separating plug
☐
☐
☐

Insert in position no. N°	Air power	Exhaust 3 - 5	Pilot power supply 12 - 14
☐			
☐			
☐			

The use of intermediate pneumatic supply is recommended every 5 solenoid valves in case of simultaneous actuate output, to perform better.