

FIELDBUS 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
	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)
	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)
	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)
	OPERATING TEMPERATURE	23 ÷ 122 °F -5 ÷ 50 °C Without freezing
	MANUAL CONTROL	Rotating with lock

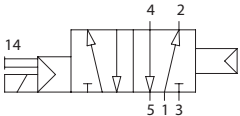
	WITH PILOT EXHAUST	Internal Pilot	Common outlet for main/pilot valve			
		External Pilot	Individual outlet for pilot valve			
	SUGGESTED FILTRATION	≤ 20 µm		LUBRICATION	Not necessary	
	PROTECTION DEGREE					IP63
	VOLTAGE	24 VDC		POWER CONSUMPTION	1.3 W	
	ALLOWABLE VOLTAGE FLUCTUATIONS (V)	±10% of nominal 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
		Switching time on (ms) OUT (2)	11	21	17	14
		Switching time on (ms) OUT (4)	19	-	-	19
		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)



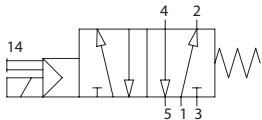
5/2 Ways

MONOSTABLE MECHANICAL SPRING RETURN

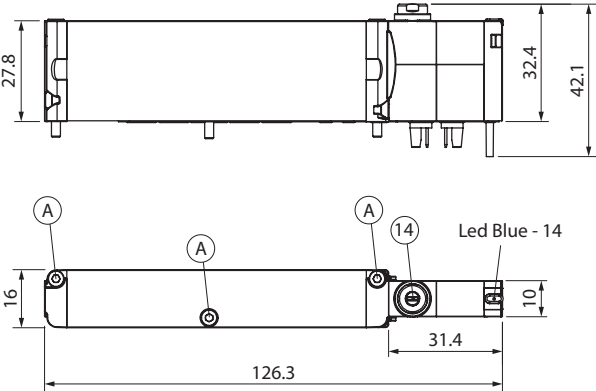
* On request



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



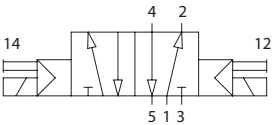
Screw tightening torque for fixing the component to the base

(A) 0.6 Nm

5/2 Ways
TWO STABLE POSITIONS



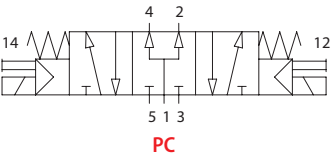
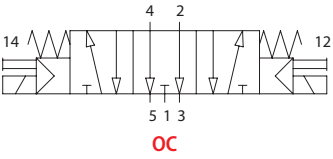
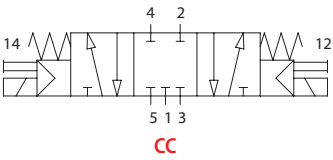
Code	Ways	Flow rate	Weight
16V S1 5 00 00	5/2	706 NI/min	0.25 lb (114g)



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)

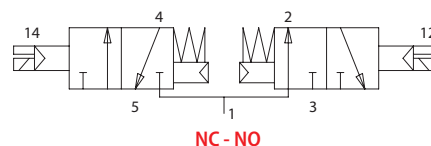
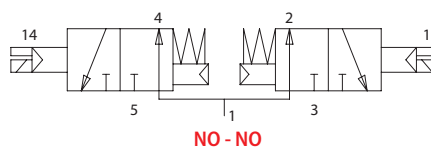
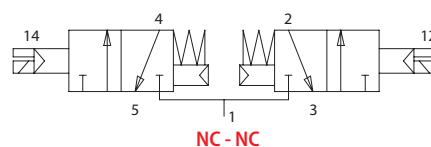


5/4 Ways

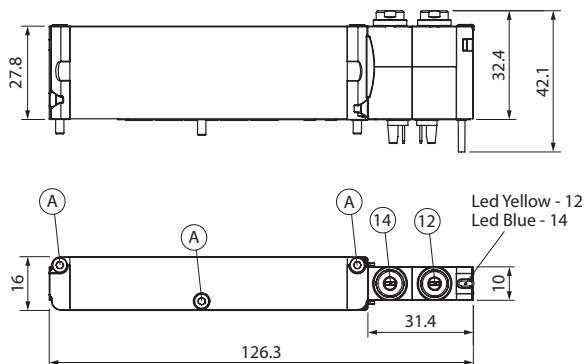
DOUBLE 3/2 MONOSTABLE MECHANICAL SPRING RETURN



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)



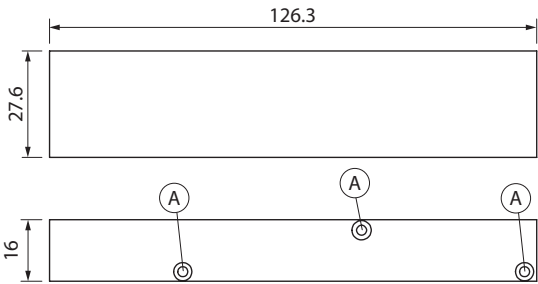
16V37

INTERMEDIATE SUPPLY BLOCK

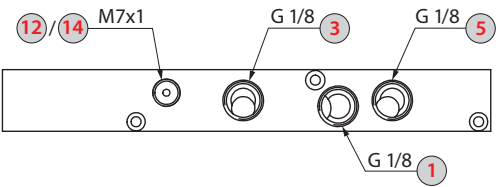
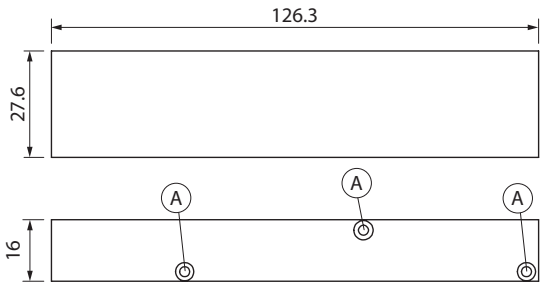
Code	Screw tightening torque	Weight
16V 37 0 00 00	(A) 0.6 N	0.31 lb (142g)



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

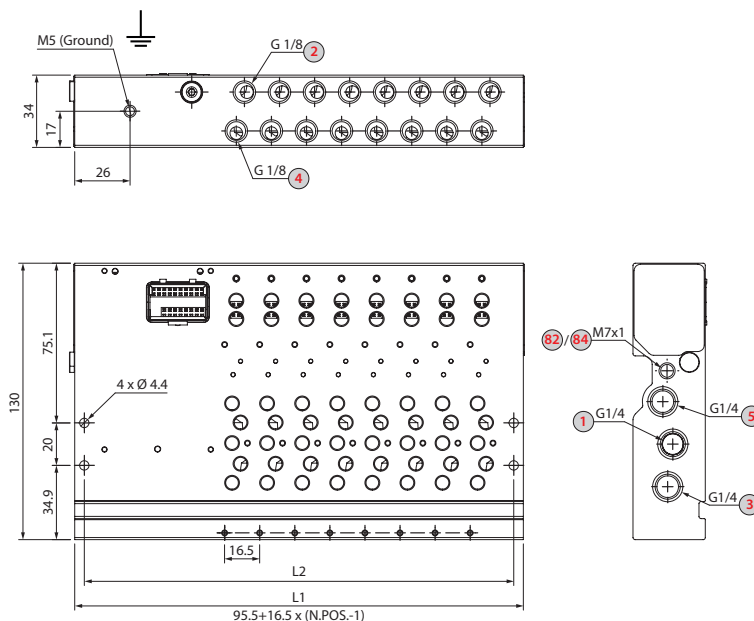
Code	Size (1)	Positions Number	L1	L2	Weight
16VB0 24 00 1	1/4	BIS.8 POS.+ MONO.16 POS	18.701 (475)	18.346 (466)	8.09 lb (3670g)

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

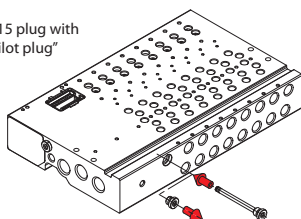
SEPARATION CAP FOR PILOT DUCTS

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

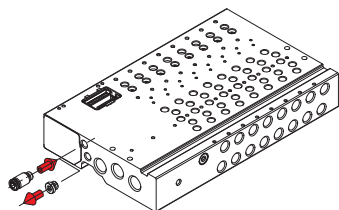


16V 43 0 00 00

Replace the 3015 plug with the "separate pilot plug"

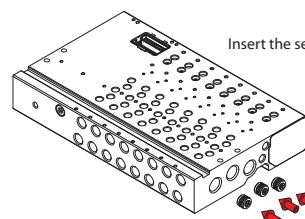


Replace the 3015 plug with a fitting to feed the pilot

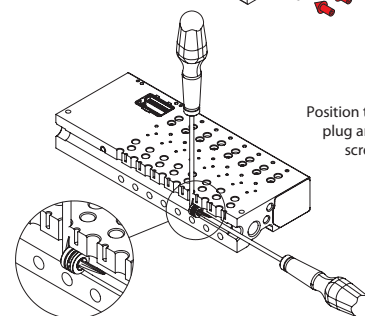


16V 39 0 00 00

Insert the separating plug



Position the separating plug and tighten the screw to secure it



POWER SUPPLY UNIT

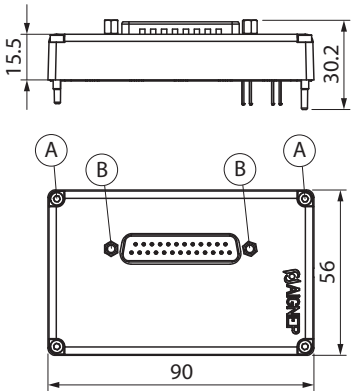
16V17

POWER SUPPLY UNIT / D-SUB 25 PINS



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

16V 17 00 00 1



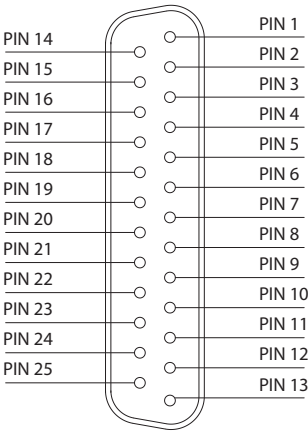
Screw tightening torque for fixing the component to the base

(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

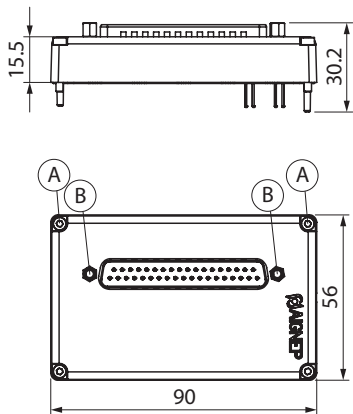
16V16

POWER SUPPLY UNIT / D-SUB 37 PINS



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

16V 16 00 00 1



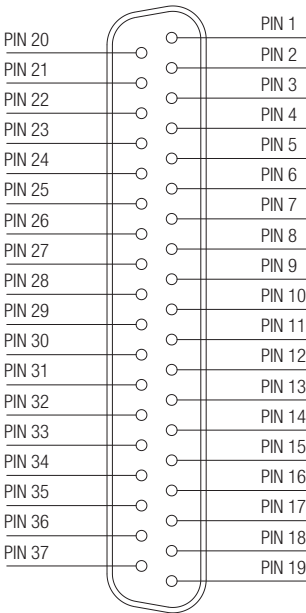
Screw tightening torque for fixing the component to the base

(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

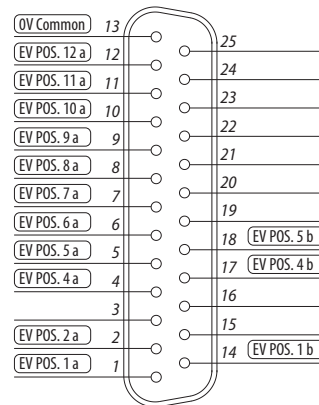
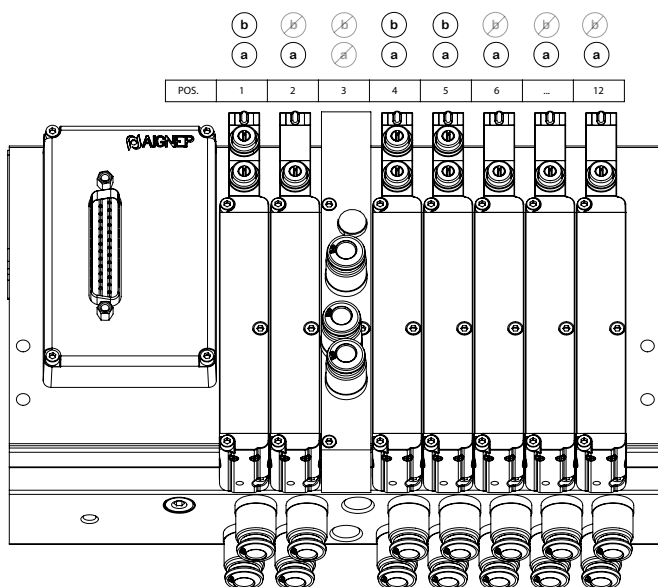
positive signals PNP

17 - 18 - 19
36 - 37

0V common

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

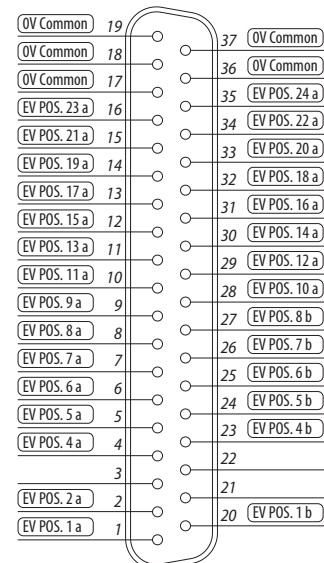
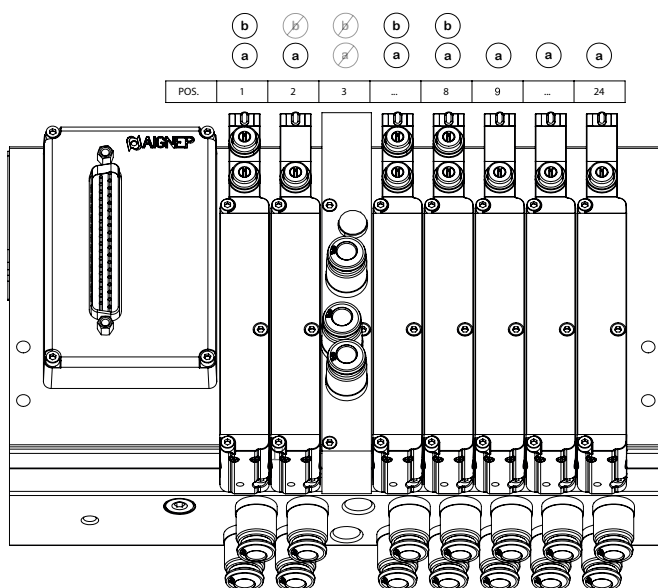
D-SUB 25 PINS



a = 14
b = 12

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

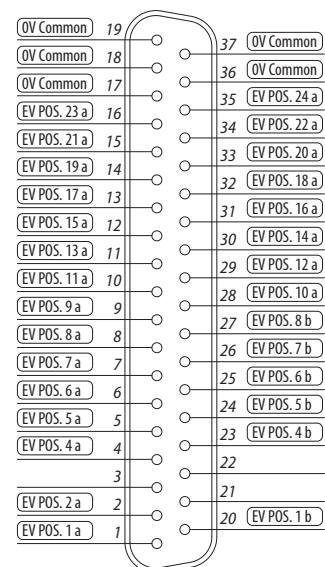
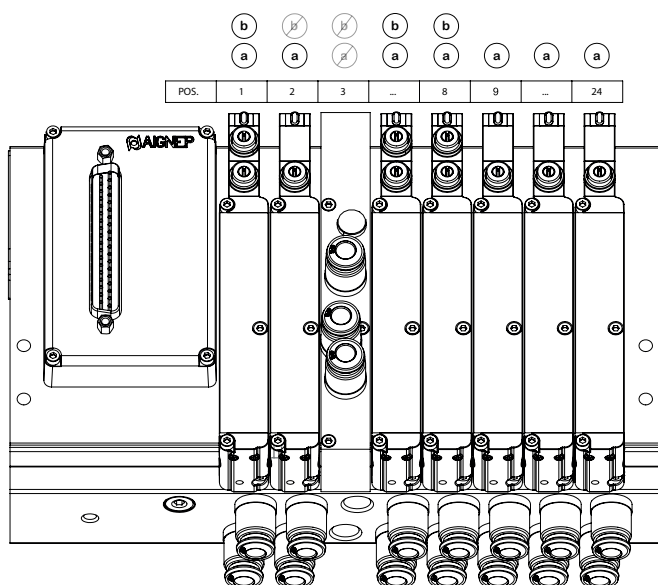
D-SUB 37 PINS



a = 14
b = 12

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

D-SUB 37 PINS



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

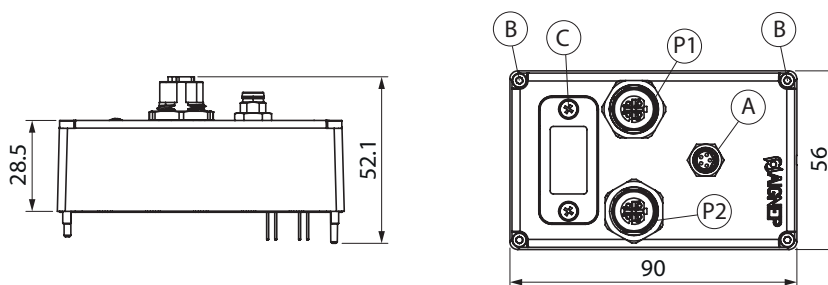
(B) 0.5 Nm

Screw tightening torque for fixing the component to connector

(C) 0.4 Nm



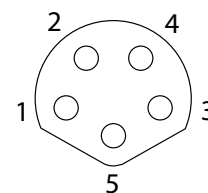
16V U1 0 00 00



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

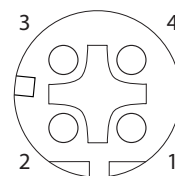
Node and valve power supplies are internally connected.



A

CONFIGURATION MULTI-POLE CONNECTORS - FEMALE

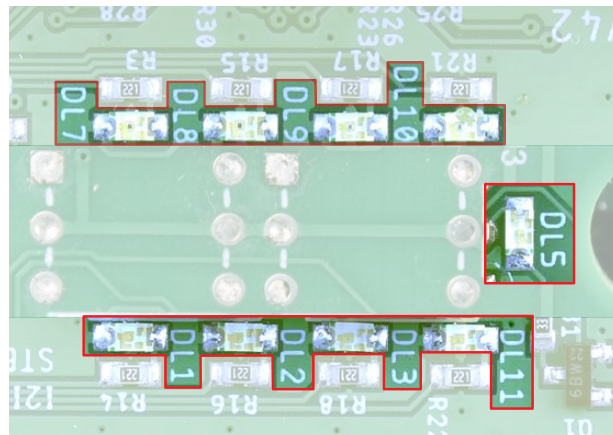
Nr. Pin	Description
1	TX +
2	RX +
3	TX -
4	RX -
NUT	Shield



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%
OUT Outlet	Node consumption (without outputs)
	50mA
	Maximum allowable consumption
	2A
OUT Outlet	PNP outlet equivalent
	+24Vdc +/-10%
	Maximum current for output
	300 mA
OUT Outlet	Maximum output number
	32
OUT Outlet	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			
	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 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		
		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

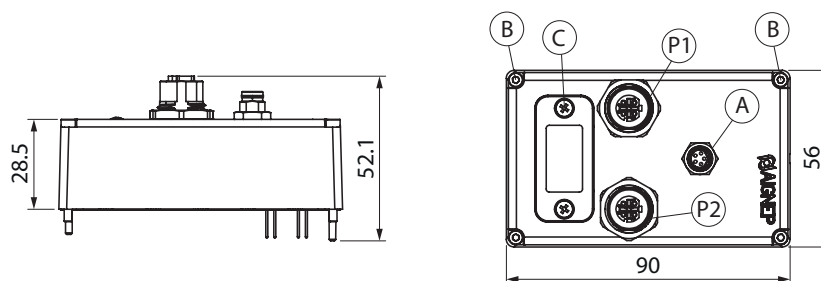
(B) 0.5 Nm

Screw tightening torque for fixing the component to connector

(C) 0.4 Nm



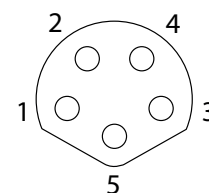
16V U2 0 00 00



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

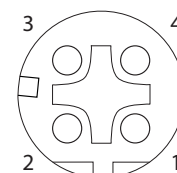
Node and valve power supplies are internally connected.



A

CONFIGURATION MULTI-POLE CONNECTORS - FEMALE

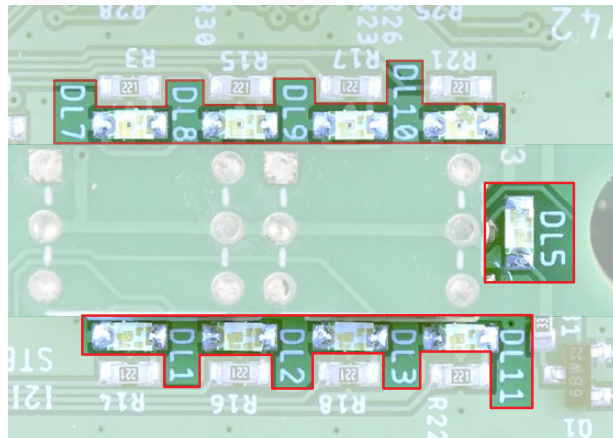
Nr. Pin	Description
1	TX +
2	RX +
3	TX -
4	RX -
NUT	Shield



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				
	16V Diagnosis	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				
		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

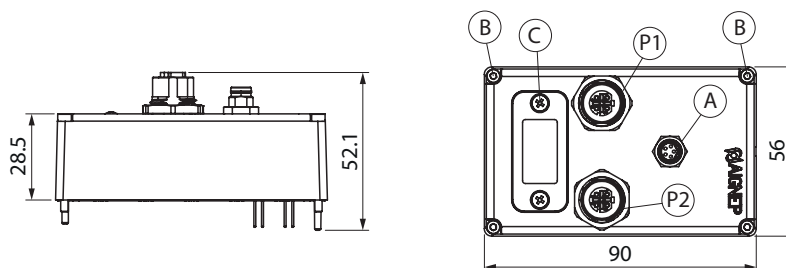
(B) 0.5 Nm

Screw tightening torque for fixing the component to connector

(C) 0.4 Nm



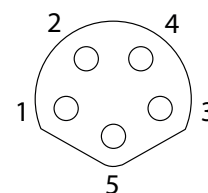
16V U3 0 00 00



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

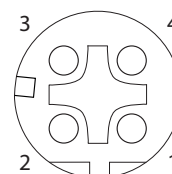
Node and valve power supplies are internally connected.



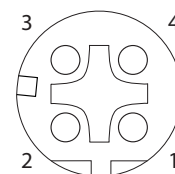
A

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

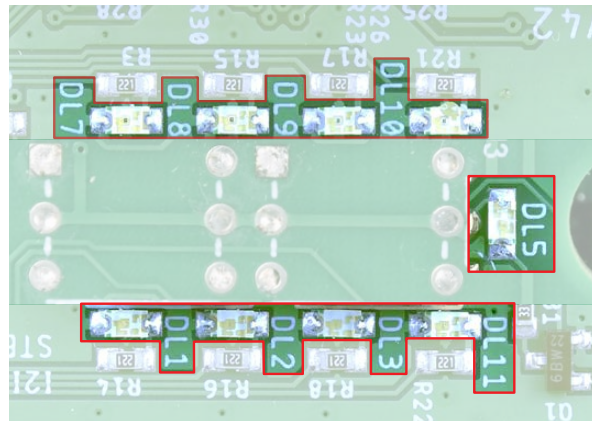


P1 - P2



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 Adress	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	
	16V Diagnosis	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
	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

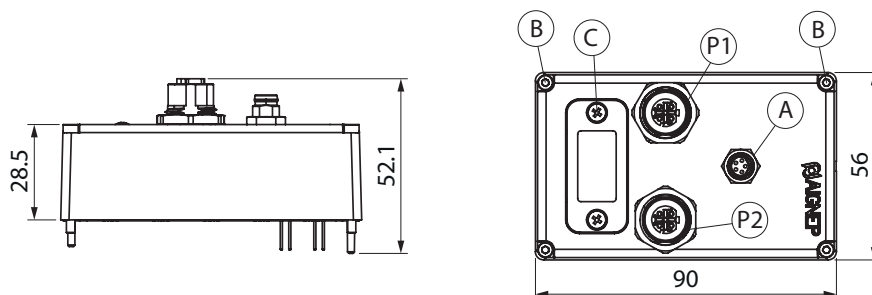
(B) 0.5 Nm

Screw tightening torque for fixing the component to connector

(C) 0.4 Nm



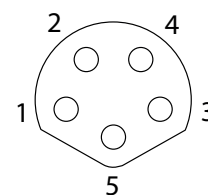
16V U4 0 00 00



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

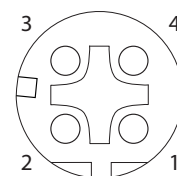
Node and valve power supplies are internally connected.



A

CONFIGURATION MULTI-POLE CONNECTORS - FEMALE

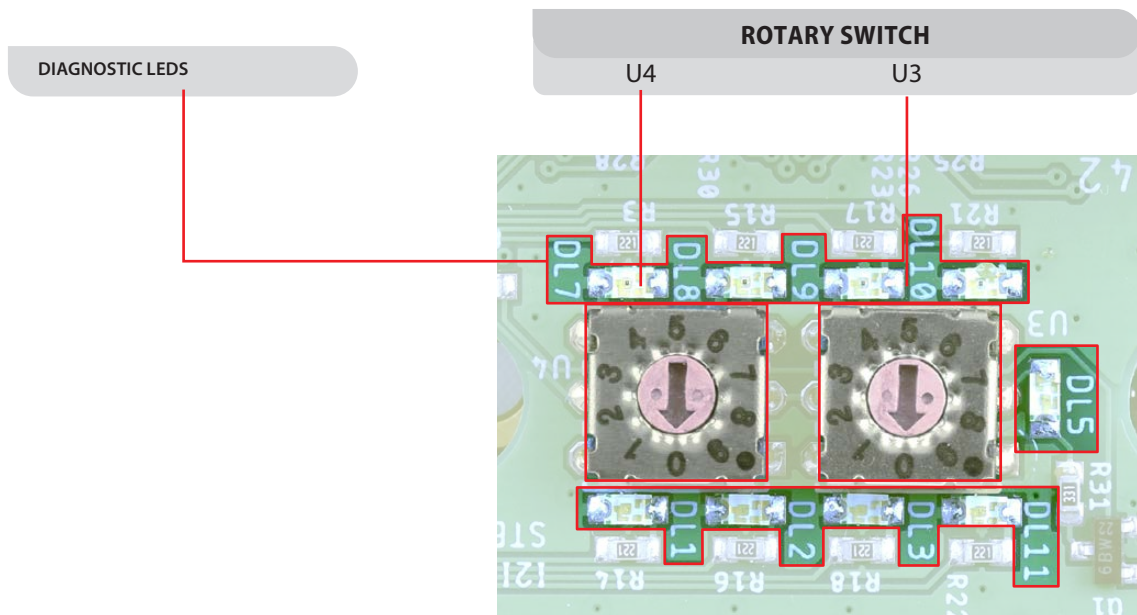
Nr. Pin	Description
1	TX +
2	RX +
3	TX -
4	RX -
NUT	Shield



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 Adress	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	LED DL11: Green flashing (2:1)
		Communication cable not connected	LED DL11: Fast green flashing		
		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

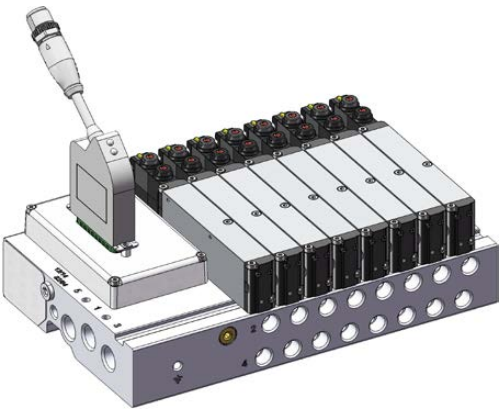
IO-LINK NETWORK INTERFACE

16VW3

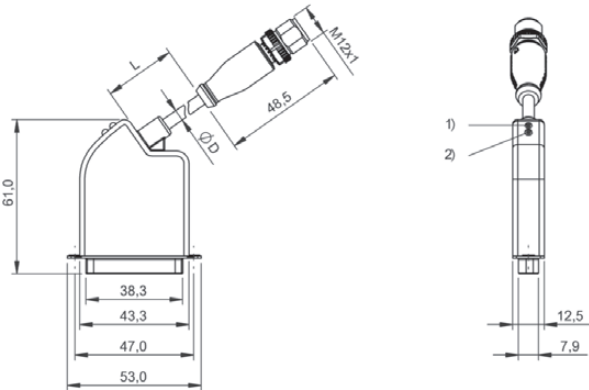
PNETWORK INTERFACE IO-LINK



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

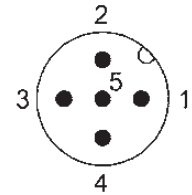


16V W3 00 00 2



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

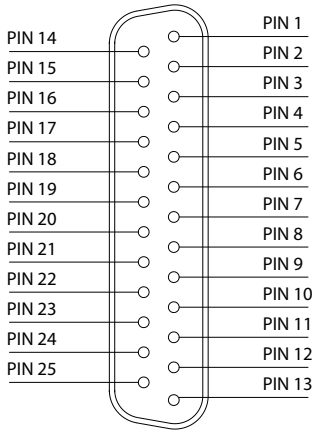
16VW1

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

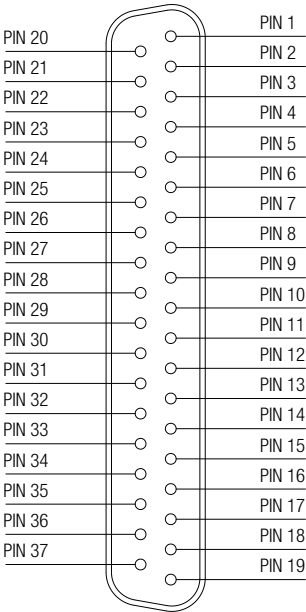
15VW1

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



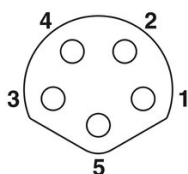
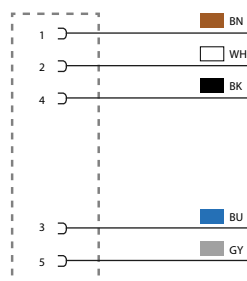
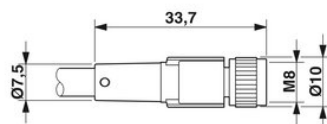
16VW2

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

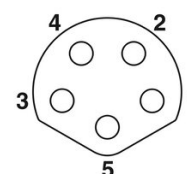
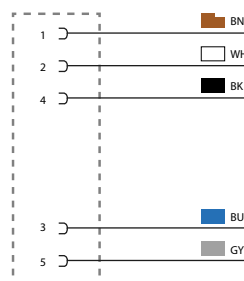
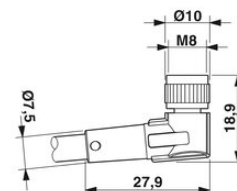
Code	Cable Length	Jacket Material
16V W2 05 00 1	16.40 ft (5 m)	PUR
16V W2 10 00 1	32.81 ft (10 m)	PUR
		max
Torque specifications ring		0.4 Nm



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



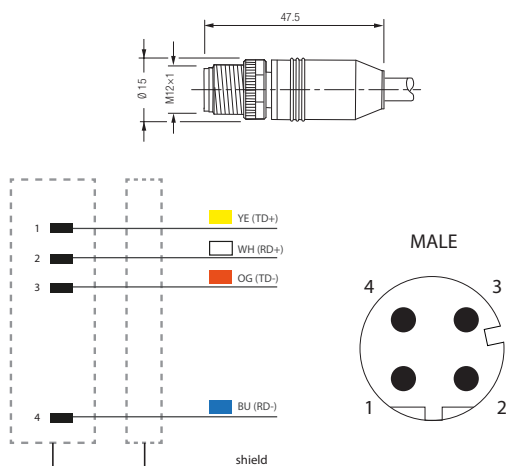
15VW5

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

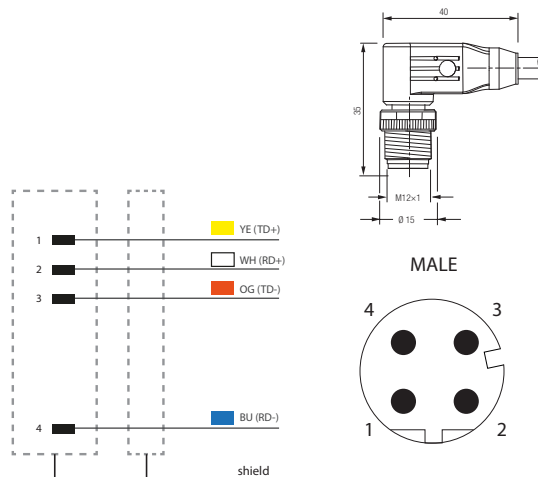
Code	Cable Length	Jacket Material
15V W5 05 00 1	16.40 ft (5 m)	PUR
15V W5 10 00 1	32.81 ft (10 m)	PUR
		max
Torque specifications ring		0.6 Nm



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

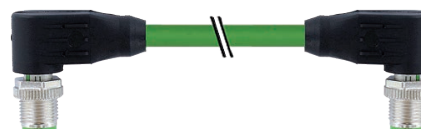
Code	Cable Length	Jacket Material
15V W6 05 00 0	16.40 ft (5 m)	PUR
		max
Torque specifications ring		0.6 Nm



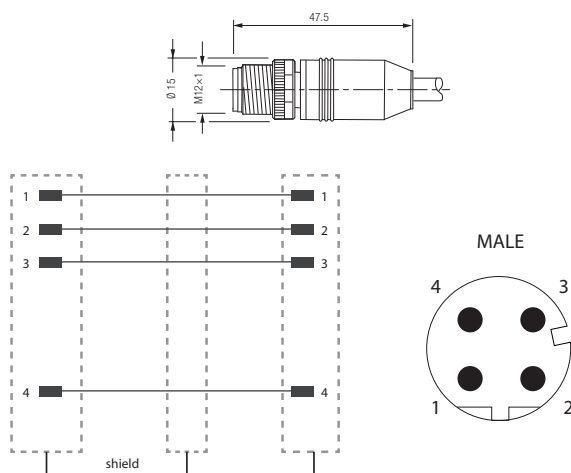
15VW6

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

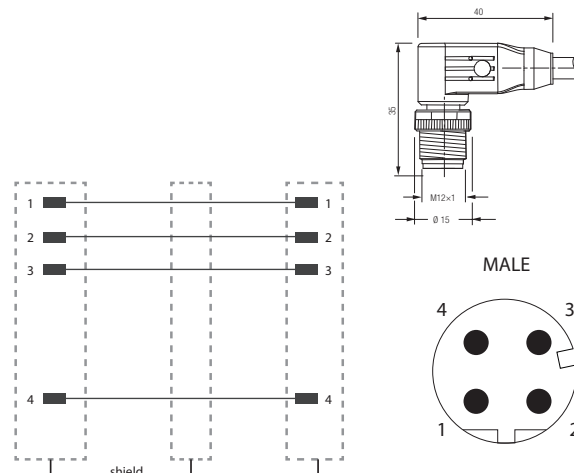
Code	Cable Length	Jacket Material
15V W6 05 00 1	16.40 ft (5 m)	PUR
		max
Torque specifications ring		0.6 Nm



15V W6 05 00 0



15V W6 05 00 1



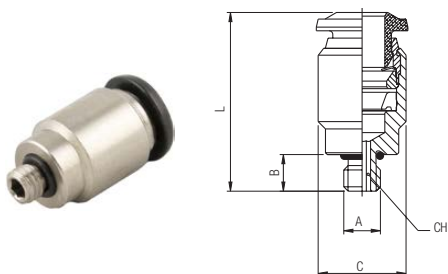
ACCESSORIES

50010N

BSPP

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

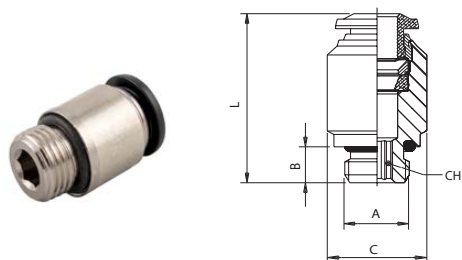


50015N

BSPP

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

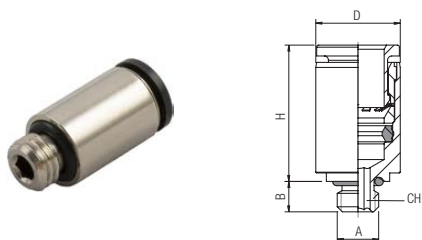


56010

BSPP

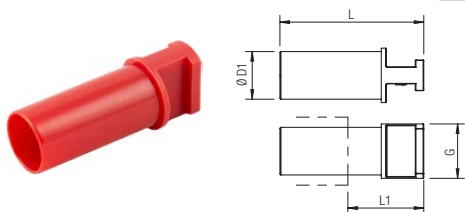
Straight Male Adaptor (Parallel) With
Hexagon Embedded

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

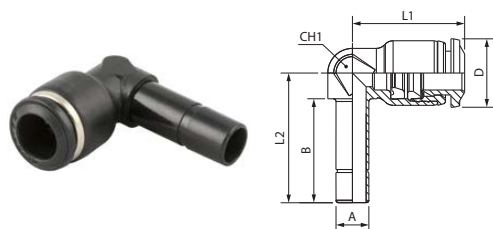
POLYAMIDE PLUG



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

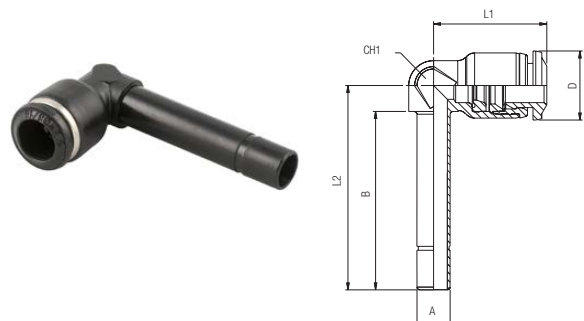
PLUG-IN ELBOW



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

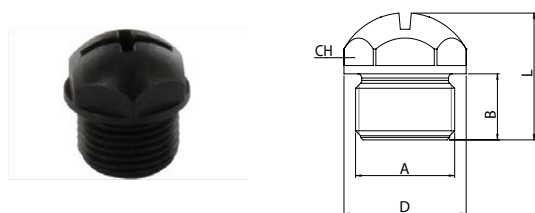
LONG PLUG-IN ELBOW



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



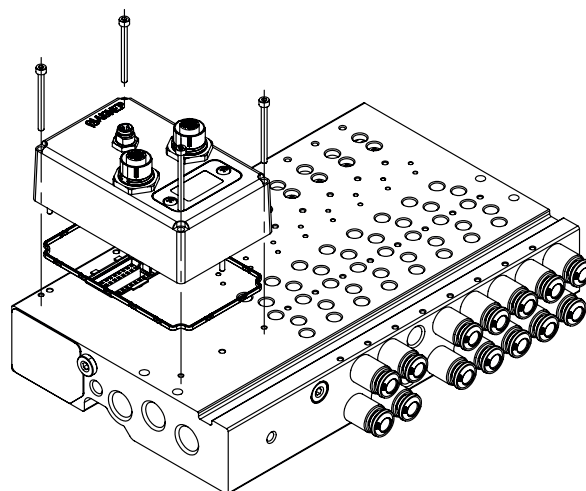
Code	A	B	L	CH	D	Pack.
16V46 00 25 NJ 00	M8X1	.236 (6)	.472 (12)	.354 (9)	.472 (12)	1
16V46 00 25 RL 00	M12X1	.315 (8)	.610 (15,5)	.512 (13)	.583 (14,8)	1



ASSEMBLING 16V

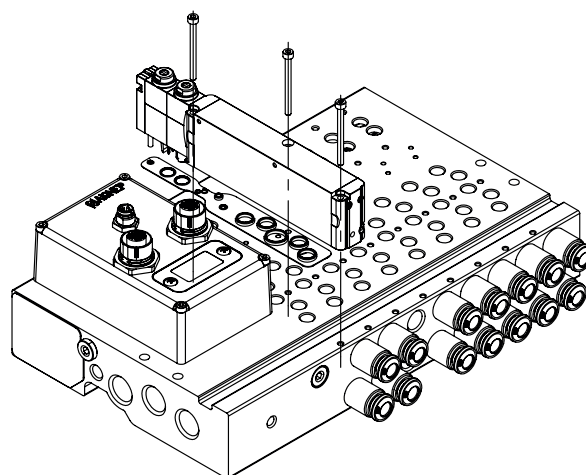
A

Power unit assembly on pneumatic base



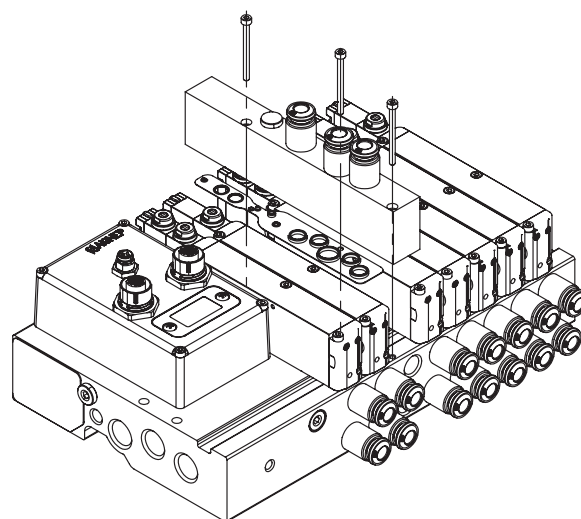
B

Valve assembly on pneumatic base



C

Intermediate air supply assembly on pneumatic base

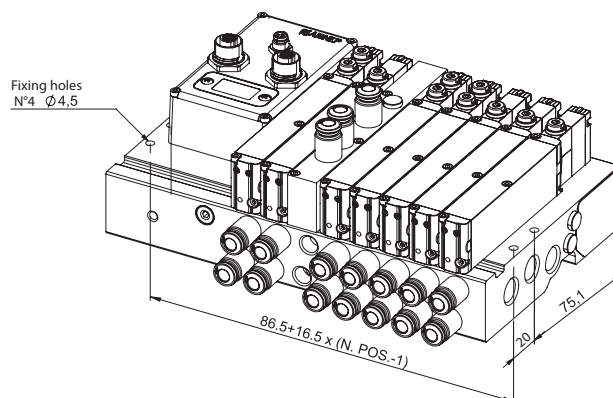




ASSEMBLING 16V

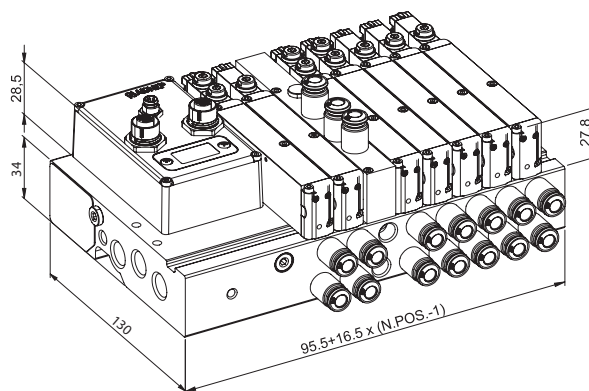
C

Fixing screw distance



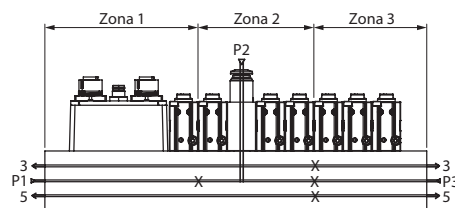
D

Overall dimensions



E

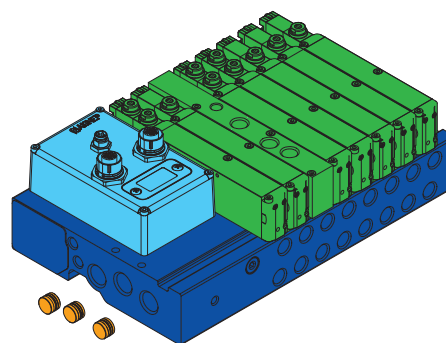
Assembly sketch for different pressure zones



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.