

VALVE ISLANDS, SIZE 1, MULTIPOLE AND FIELDBUS

SERIES D1

Fieldbus connection with the most common communication protocols PROFIBUS-DP, PROFINET, CANopen, EtherNET/IP, EtherCAT and IO-Link
 Multipole connection with 25 or 44 pins
 Valve functions: 2x2/2; 2x3/2; 5/2; 5/3 CC, CO, CP



Thanks to the large range of options available, the Series D valve island represent an excellent solution for all those applications that require pneumatic and electrical functions in restricted spaces.

The different electrical connection possibilities allow to create Islands with a high number of valve positions and different pressure zones. Moreover, the fieldbus version can manage both digital and analog electric input and output signals.

It is possible to configure the code of islands without the Fieldbus communication cover.

The cover with the desired Fieldbus can be assembled next, after installation.

Just like the pneumatic section, it is possible to equip the island with free electric modules for subsequent setups with different I/O configurations. It is not necessary to disassemble and disconnect the island from the machine.

Small dimensions, high flows, subbases with individual pneumatic and electric modules, an easy subbase connection system, constant diagnosis and monitoring of performance parameters make this series a particularly innovative product.

One of the features of this series is the monitoring function regarding the correct operating of the solenoid valve.

The electronics installed both in the subbase and in the Sub-D and multi-serial connection module, enables to constantly monitor the efficiency of the driving coil of the solenoid valve.

Possible variations with respect to the ideal operating conditions, for example a higher power consumption, variation in response times and an increased temperature are indicated through different ways of blinking by the LED on the solenoid valve and by an electric alert signal that is sent to the PLC through the Sub-D module connecting cable or, in case of the multi-serial connection module, directly through the communication protocol.

- Valve size 10,5 mm
- Compact design
- Individual modular subbases in technopolymer
- Highly expandable electrically and pneumatically
- Flexibility in connecting and exchanging I/O modules
- COILVISION technology to monitor performance parameters
- Same subbase for monostable and bistable valves
- Possibility to transmit operational data through WLAN
- Blinking LEDs indicating different types of operating faults
- Available with pneumatic connection cartridges for inch size tubes

VALVE ISLANDS, SIZE 1, MULTIPOLE AND FIELDBUS
SERIES D1 - GENERAL DATA
GENERAL DATA
PNEUMATIC SECTION

Valve construction	spool with seals
Valve functions	5/2 monostable and bistable 5/3 CC, CO, CP 2x3/2 NC 2x3/2 NO 1x3/2 NC + 1x3/2 NO 2x2/2 NC 2x2/2 NO 1x2/2 NC + 1x2/2 NO
Materials	spool: AL spool seals: HNBR other seals: NBR body: AL end caps: polymer subbase size 1: polymer
Connections	tube Ø4 - Ø6 tube Ø5/32" - Ø1/4" supply 1: tube Ø8 - 5/16" supply 12/14: tube Ø4 - 5/32" exhaust 3 and 5: tube Ø8 - 5/16" exhaust 82/84: tube Ø4 - 5/32"
Temperature	0 ÷ 50°C
Air characteristics	compressed, filtered and non-lubricated air in class [7:4:4] according to ISO 8573-1:2010. In case lubrication should be necessary, only use oils with a maximum viscosity of 32 Cst and the version with external servo-pilot supply. The air quality of the servo-pilot supply must be of class [7:4:4] according to ISO 8573-1:2010 (do not lubricate)
Valve sizes	1 = 10,5 mm
Operating pressure	-0,9 ÷ 10 bar (-0,7 ÷ 10 bar for 2x3/2 and 2x2/2 versions)
Internal pilot pressure	3 ÷ 7 bar for 2x3/2 and 2x2/2 versions, see pilot pressure graph
External pilot pressure	SEE GRAPHS
Flow rate	250 Nl/min
Mounting position	any position
Protection class	IP65

ELECTRICAL SECTION
MULTIPOLE VERSION

Type of Sub-D connector	25 or 44 pins
Max. absorption	0,8 A (with Sub-D connector 25 pins) 1,5 A (with Sub-D connector 44 pins)
Supply voltage	24 V DC ± 10%
Max. number of coils to operate	22 on 11 valve positions (with Sub-D connector 25 pins) 38 on 19 valve positions (with Sub-D connector 44 pins)
Signalling LED	Multipole: green LED - presence of power red LED - anomaly Valve: yellow LED - presence of power blinking yellow LED - operating fault

ELECTRICAL SECTION
FIELDBUS VERSION

General data	see Multi-serial Modules section on the next pages
Max. absorption	2,5 A
Supply voltage	24 V DC +/-10% logic supply 24 V DC +/-10% power supply
Max. number of coils to operate	128 on 64 valve positions
Max. number of digital inputs	128
Max. number of analog inputs	16
Max. number of digital outputs	128
Max. number of analog outputs	16

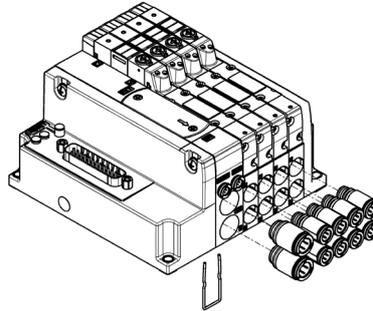
IO-LINK version

Max n° of coils to operate	64 on 32 valve positions
Input and Output	No
Type of port	Class B
IODD Configuration file	up to 12, 24 or 32 valve positions per island

(The IO-Link module on the valve island is auto-configured to operate with the right IODD)

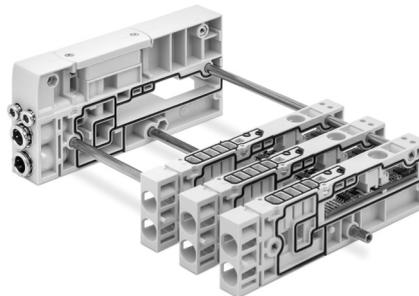
PNEUMATIC CONNECTION

The subbases, in their different configurations, include tube connection cartridges. Through the removal of fixing clips it is possible to replace these cartridges and adapt them to the necessary dimension. The pneumatic part is the same for both the Multipole and Serial version. The tie rods with different fixed lengths that unite the subbases, can be extended individually through additional tie rods for odd positions.



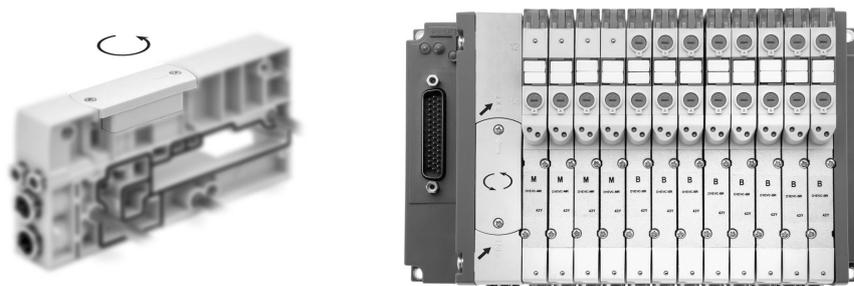
INTERMEDIATE SUBBASES

Intermediate subbases with a diaphragm or additional supply function allow to create diversified pressure and/or exhaust zones, add an incoming air flow and increase the exhaust flow. Furthermore there are subbases available that, besides the aforementioned functions, can interrupt the pneumatic actuation to the coils. This prevents, independently of the electric signal being present or not, to actuate the monostable and bistable valves. The intermediate subbases do not need to be calculated in the number of valve positions.



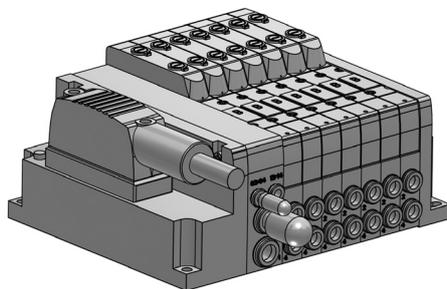
SERVOPILOT

The initial supply and exhaust base can be changed through rotating the upper device of the selected type of servo-pilot. The change from internal to external servo-pilot is obtained without replacing the initial base, this allows for example to include or section the island, adapting its operation also after its installation, for example with valves that operate with vacuum or reduced pressures. The arrow indicates the selected type of servo-pilot.



CONFIGURATOR

The island configuration is of minimum three positions including the possible base for additional supply and/or exhaust. The maximum number of positions depends on the selected type of electrical connection. To correctly compose the commercial code and to download drawings, please use the configurator present at <http://shop.camozzi.com>.



MULTIPOLE VERSION

The multipole version can be connected quickly and safely through the connecting cable with angled outlet of 25 or 44 pins to the electric Sub-D connector integrated in the island. The single modularity of the subbases allows to create islands with up to a maximum of 11 or 19 valve positions according to the type of connecting cable used.



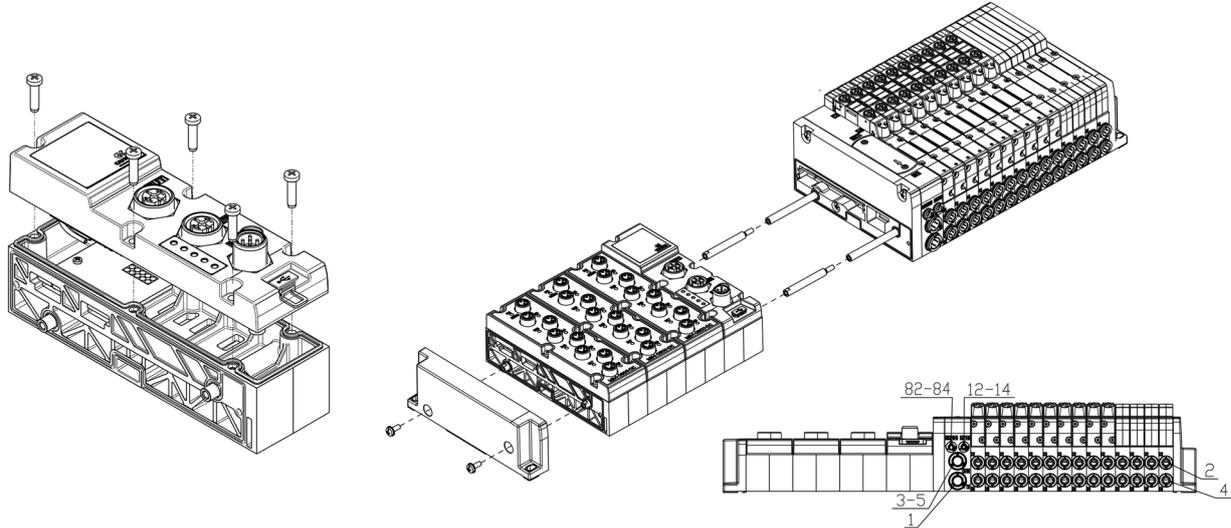
FIELDBUS and IO-LINK VERSION

The new CX4 fieldbus module integrated in the Series D valve island enables to interface with the most common fieldbus protocols. Besides managing the pneumatic part (the same as the Multipole version) different kinds of electric modules can be managed. With this configuration it is possible to enlarge the pneumatic part up to a maximum of 64 valve positions with double command and the electric part up to 128 digital inputs and 128 digital outputs, besides 16 analog inputs and 16 analog outputs. Besides the standard voltage and current versions, the analog modules are also available in 2-channel Bridge, RTD and TC versions. Also in the IO-Link version, the interface module is part of the Series CX4. In this configuration, the I/O Modules cannot be integrated in the island, a maximum of 64 coils can be managed on 32 valve positions.



ELECTRICAL MODULE

The electric modules are composed of two parts: the base to connect the different modules, which is the same for all types, and different covers on which the connectors are positioned. This solution enables to easily change the connection points with the sensors or functions of the machine. Also the electric modules, like the subbases in the pneumatic part, can be added or removed thanks to the modular connection system.

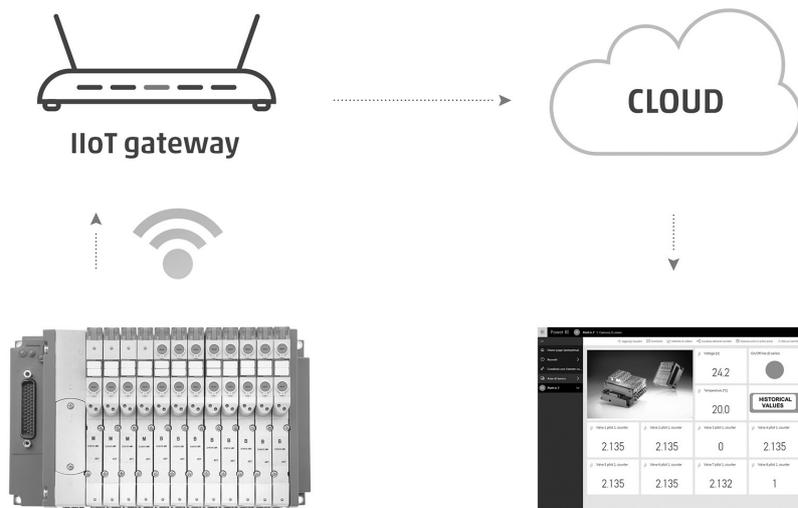


FIELDBUS AND MULTIPOLES SYSTEMS

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COILVISION

This is a standard function in all our valve islands with Multipole and Serial connection. Its purpose is to monitor the proper function of each solenoid valve individually, particularly the solenoid. The electronics installed in the subbase allows to constantly monitor the efficiency of the driving coil of the solenoid valve. Possible variations with respect to the ideal operating conditions, like for example a higher power consumption, different response times or an increased temperature, are reported by means of a blinking yellow LED of the interested solenoid. Besides the blinking of this LED, also a general red LED blinks located on the Sub-D module. These indications are combined with an alert message sent to the PLC. By selecting code W from the "Interface" menu of the encryption code, besides the described signals, it is possible to gather all operational data of the islands and send them through WLAN to the corporate net or onto the Cloud to be analysed.



VALVE ISLANDS, SIZE 1, MULTIPOLE AND FIELDBUS
SERIES D1 - CODING EXAMPLE
CODING EXAMPLE
DM C 1 M W R A - 15R - 5BX5B - 4B3C3V - CS R

DM	MODULAR ISLAND	
C	VALVE C = VC model	
1	SIZE 1 = 10,5 mm	
M	ELECTRICAL CONNECTION M = multipole 25 pin PNP	Q = multipole 44 pin PNP
W	INTERFACE O = without interface	W = WLAN
R	MANUAL OVERRIDE P = push button	R = with push and turn device
A	SERVO-PILOT SUPPLY A = internal	B = external
15R	CONNECTOR O = without connector CONNECTOR R WITH CABLE 03R = 3 mt 05R = 5 mt 10R = 10 mt 15R = 15 mt 20R = 20 mt 25R = 25 mt	
5BX5B	SUBBASES Metric: A = cartridge tube Ø4 B = cartridge tube Ø6 SUBBASE FOR SERVO-PILOT CONTROL * J = subbase (D1) for Ev (E;F) SUBBASE # Q = diaphragm on channels 1, 3, 5 R = diaphragm on channel 1 S = diaphragm on channels 3 and 5 WITH DIAPHRAGM AND EXTERNAL SERVO-PILOT SUPPLY # QT = diaphragm on channels 1, 3, 5; 12/14 external RT = diaphragm on channel 1; 12/14 external ST = diaphragm on channels 3, 5; 12/14 external WITH DIAPHRAGM AND INTEGRATED SILENCER # QH = diaphragm on channels 1, 3, 5 RH = diaphragm on channel 1 SH = diaphragm on channels 3, 5 SUBBASE FOR ADDITIONAL FLOW # X = supply (1) and exhausts (3, 5) XH = supply (1) and exhausts (3, 5) with integrated silencer INTERFACE SUBBASE FOR ADDITIONAL FLOW WITH EXTERNAL SERVO-PILOT SUPPLY # XT = additional supply (1) and exhausts (3, 5) FOR ELECTRICAL SUPPLY # K = separation of electrical supply - supply (1) and exhausts (3, 5) Z = separation of electrical supply - diaphragm on channel 1	Inches: A = cartridge tube Ø5/32" G = cartridge tube Ø1/4"
4B3C3V	VALVES M = 5/2 monostable B = 5/2 bistable C = 2x3/2 NC A = 2x3/2 NO G = 1x3/2 NC + 1x3/2 NO V = 5/3 CC K = 5/3 CO N = 5/3 CP	L = free position W = position without valve E = 3/2 NC for internal servo-pilot control (Line 1) ** F = 3/2 NC for external servo-pilot control ** D = 2x2/2 NC H = 2x2/2 NO R = 1x2/2 NC + 1x2/2 NO
CS	TERMINAL PLATES Tube dimensions for port sizes 1,3,5 Metric: C = cartridge tube Ø4 CS = cartridge tube Ø8 3,5 with silencer	Inches: C = cartridge tube Ø5/16" CS = cartridge tube Ø5/16" 3,5 with silencer
R	FIXING TYPE = direct R = DIN rail	

= These subbases are already provided with cartridges for tube Ø8; Ø5/16".

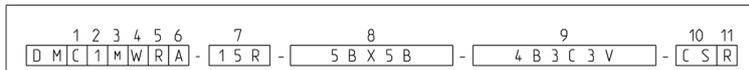
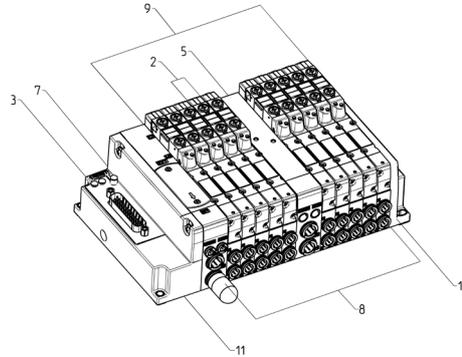
* = The subbase is equipped with a cartridge Ø4 (Ø5/32").

** = Solenoid valve for subbase model J.

The choice of the cartridge made in the Terminal Plates section is also valid for the diaphragm and additional subbases.

QT, RT, ST, XT models have a 12/14 cartridge tube Ø4 (Ø5/32").

CODING MULTIPOLE VERSION



(1) VALVE MODEL VC	(2) SIZE	(3) ELECTRICAL CONNECTION	(4) INTERFACE	(5) MANUAL OVERRIDE	(6) SERVO-PILOT
DMC	1	M Q	O W	P R	A B
(7) CONNECTION	(8) SUBBASES	(9) VALVES	(10) TERMINAL PLATES	(11) MOUNTING	
0	METRIC - INCHES	M	METRIC - INCHES	R	
03R	A - A	B	C - C		
05R	B - G	C	CS - CS		
10R	SUBBASES	A			
15R	Q	G			
20R	R	V			
25R	S	K			
	WITH DIAPHRAGM AND EXTERNAL SERVO-PILOT SUPPLY	N			
	QT	L			
	RT	W			
	ST	E			
	WITH DIAPHRAGM AND INTEGRATED SILENCER	F			
	QH	D			
	RH	H			
	SH	R			
	SUBBASE FOR ADDITIONAL FLOW				
	X				
	XH				
	INTERFACE SUBBASE FOR ADDITIONAL FLOW WITH EXTERNAL SERVO-PILOT SUPPLY				
	XT				
	SEPARATION OF ELECTRICAL SUPPLY				
	K				
	Z				
	SUBBASE FOR SERVO-PILOT CONTROL				
	J				

VALVE ISLANDS, SIZE 1, MULTIPOLE AND FIELDBUS
SERIES D1 - CODING EXAMPLE
CODING EXAMPLE
DM C 1 01 W R A - 2A2Q - 2A2BQH4AX4B - 3M2L3M2B2C - CS R

DM	MODULAR ISLAND	
C	VALVE C = VC Model	
1	SIZE 1 = 10,5 mm	
01	PROTOCOL 00 = Base without Fieldbus cover *** 01 = PROFIBUS 03 = CANopen 04 = Ethernet/IP	05 = Ethercat 06 = PROFINET 07 = IO-LINK (not configurable with input and output modules)
W	INTERFACE 0 = without interface	W = WLAN
R	MANUAL OVERRIDE P = push button	R = with push and turn device
A	SERVO-PILOT SUPPLY A = internal	B = external
2A2Q	INPUT AND OUTPUT MODULES 0 = without A = 8 digital inputs M8 B = 16 digital inputs, terminal block connection C = 2 analog inputs (config. 0-10V,±10V,0-20mA,4-20mA,±20mA) M12 D = 2 analog inputs (config. 0-10V,±10V,0-20mA,4-20mA,±20mA), terminal block E = 2 inputs, BRIDGE M12 F = 2 inputs, BRIDGE, TERMINAL BLOCK CONNECTION G = 2 inputs, RTD M12 (PT100, PT200, PT500, PT1000) H = 2 inputs, RTD TERMINAL BLOCK CONNECTION (PT100, PT200, PT500, PT1000) L = 2 inputs, TC M12 (THERMOCOUPLES) M = 2 inputs, TC TERMINAL BLOCK CONNECTION (THERMOCOUPLES) Q = 8 digital outputs M8 R = 16 digital outputs, terminal block connection S = subnet expansion T = 2 analog outputs (config. 0-10V,±10V,0-20mA,4-20mA,±20mA), M12 U = 2 analog outputs (config. 0-10V,±10V,0-20mA,4-20mA,±20mA), terminal block (Push-in) P = 8 digital inputs (4 M12 connectors) Y = 8 digital outputs (4 M12 connectors) W **** = closed base without I/O cover	
2A2BQH4AX4B	SUBBASES Metric: A = cartridge tube Ø4 B = cartridge tube Ø6 SUBBASE FOR SERVO-PILOT CONTROL * J = subbase (D1) for Ev (E;F) SUBBASE DIAPHRAGM # Q = diaphragm on channels 1, 3, 5 R = diaphragm on channel 1 S = diaphragm on channels 3 and 5 WITH DIAPHRAGM AND EXTERNAL SERVO-PILOT SUPPLY # QT = diaphragm on channels 1, 3, 5; 12/14 External RT = diaphragm on channel 1; 12/14 External ST = diaphragm on channels 3, 5; 12/14 External WITH DIAPHRAGM AND INTEGRATED SILENCER # QH = diaphragm on channels 1, 3, 5 RH = diaphragm on channel 1 SH = diaphragm on channels 3, 5 SUBBASE FOR ADDITIONAL FLOW # X = supply (1) and exhausts (3, 5) XH = supply (1) and exhausts (3, 5) with integrated silencer INTERFACE SUBBASE FOR ADDITIONAL FLOW WITH EXTERNAL SERVO-PILOT SUPPLY # XT = additional supply (1) and exhausts (3, 5) FOR ELECTRICAL SUPPLY # K = separation of electrical supply - supply (1) and exhausts (3, 5) Z = separation of electrical supply - diaphragm on channel 1	
3M2L3M2B2C	VALVES M = 5/2 monostable B = 5/2 bistable C = 2x3/2 NC A = 2x3/2 NO G = 1x3/2 NC + 1x3/2 NO V = 5/3 CC K = 5/3 CO N = 5/3 CP	L = free position W = position without valve E = 3/2 NC for internal servo-pilot control (Line 1) ** F = 3/2 NC for external servo-pilot control ** D = 2x2/2 NC H = 2x2/2 NO R = 1x2/2 NC + 1x2/2 NO
CS	TERMINAL PLATES Cartridges on tube ports 1, 3, 5 Metric: C = cartridge tube Ø8 CS = cartridge tube Ø8 3,5 with silencer	Inches: C = cartridge tube Ø5/16" CS = cartridge tube Ø5/16" 3,5 with silencer
R	FIXING TYPE = direct R = DIN rail	

= These subbases are already provided with cartridges for tube Ø8, Ø5/16".

* = The subbase is equipped with a cartridge Ø4 (Ø5/32").

** = Solenoid valve for subbase model J.

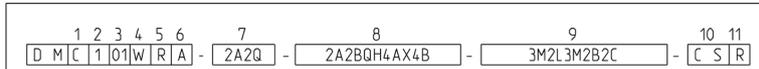
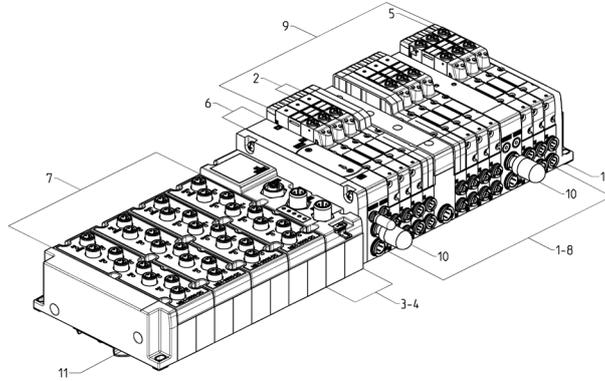
*** = With the 00 protocol, the possible interface is 0, for example: DMC1000RA-...

**** = The closed base without I/O cover always has to be put after the other modules, if present. For example: DMC101WRA-2A2QW...

The choice of the cartridge made in the Terminal Plates section is also valid for the diaphragm and additional subbases.

QT, RT, ST, XT models have a 12/14 cartridge tube Ø4 (Ø5/32").

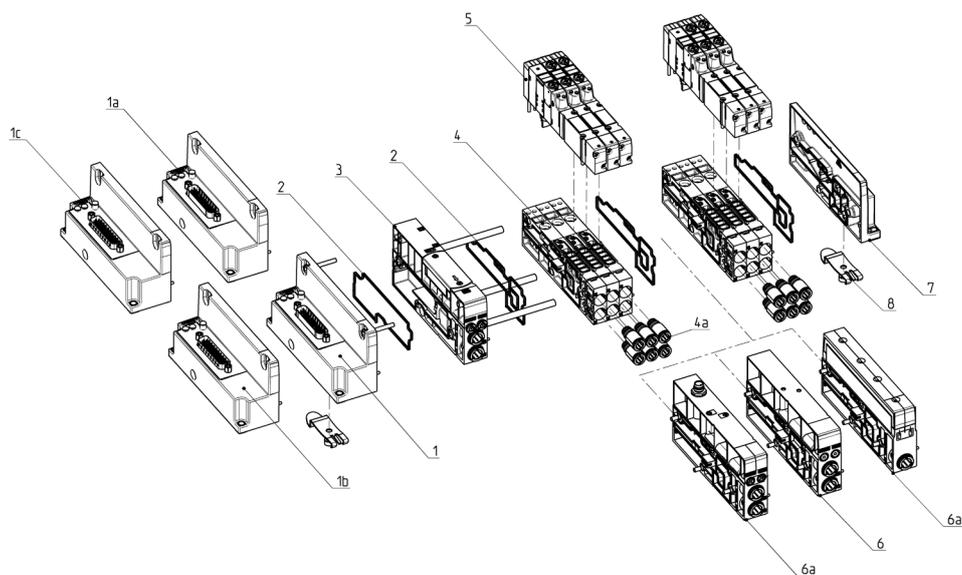
FIELDBUS VERSION CODING



(1) VALVES	(2) SIZE	(3) PROTOCOL	(4) INTERFACE	(5) MANUAL OVERRIDE	(6) SERVO-PILOT
VC	1	00	0	P	A
		01	W	R	B
		03			
		04			
		05			
		06			
		07			
(7) INPUT AND OUTPUT MODULES	(8) SUBBASES	(9) VALVES	(10) TERMINAL PLATES	(11) FIXING	
A	METRIC - INCHES	M	METRIC - INCHES	R	
B	A - A	B	C - C		
C	B - G	C	CS - CS		
D	SUBBASE WITH DIAPHRAGM	A			
E	Q	G			
F	R	V			
G	S	K			
H	SUBBASE WITH DIAPHRAGM AND EXTERNAL SERVO-PILOT SUPPLY	N			
L	QT	L			
M	RT	W			
Q	ST	E			
R	SUBBASE WITH DIAPHRAGM AND SILENCER	F			
T	QH	D			
U	RH	H			
W	SH	R			
P	SUBBASE FOR ADDITIONAL FLOW				
Y	X				
S	XH				
	INTERFACE SUBBASE FOR ADDITIONAL FLOW WITH EXTERNAL SERVO-PILOT SUPPLY				
	XT				
	FOR ELECTRICAL SUPPLY				
	K				
	Z				
	SUBBASE FOR SERVO-PILOT CONTROL				
	J				

MULTIPOLE version COMPONENTS

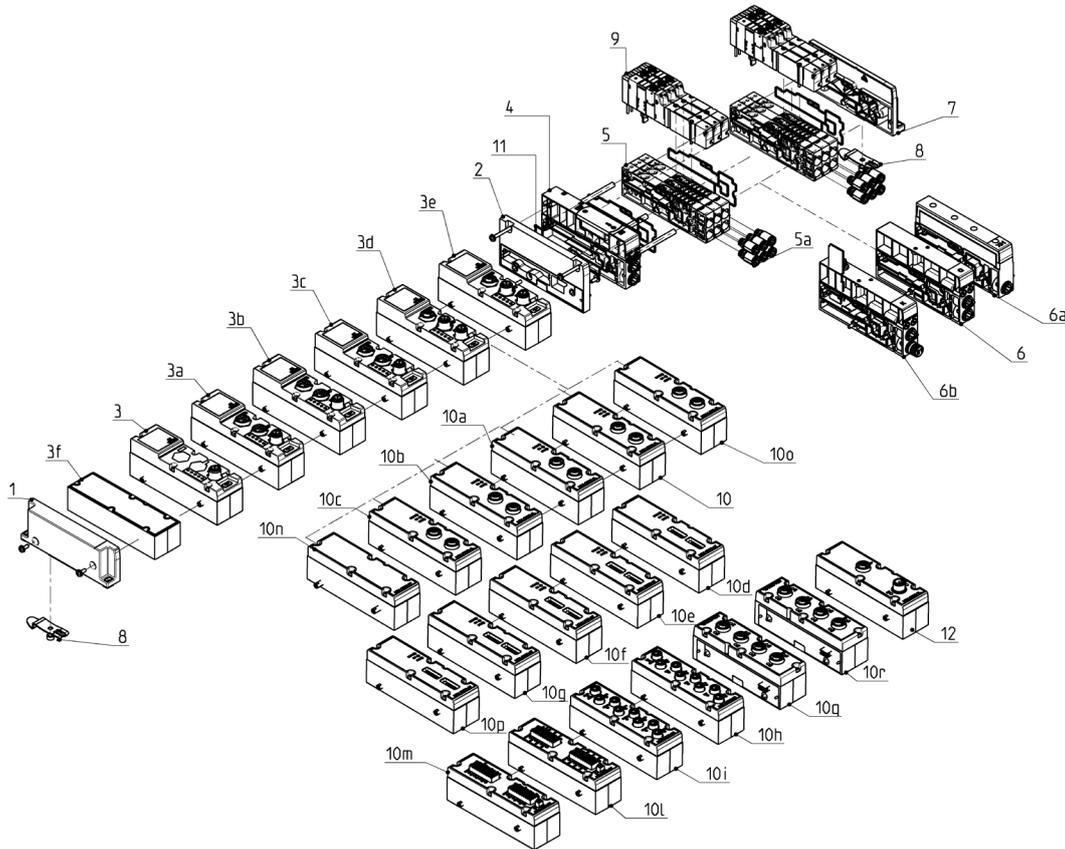
The tie rod kit DA1K-XX indicated between position 3-4, is used to prepare islands with "n" valve subbases that must be in the version "without tie rods".



1	Electric interface group - multipole 25 pins
1a	Electric interface group - multipole 25 pins WLAN interface
1b	Electric interface group - multipole 44 pins
1c	Electric interface group - multipole 44 pins WLAN interface
2	Interface seals
3	Initial pneumatic supply module
4	Modular subbase size 1
4a	Interchangeable quick-release couplings
5	Solenoid valve size 1
6	Additional module to convey supply and exhaust channels
6a	Module to supply and to silence the exhaust channel
6b	Module to separate electrical supply
7	Terminal plate
8	Mounting brackets for DIN rail

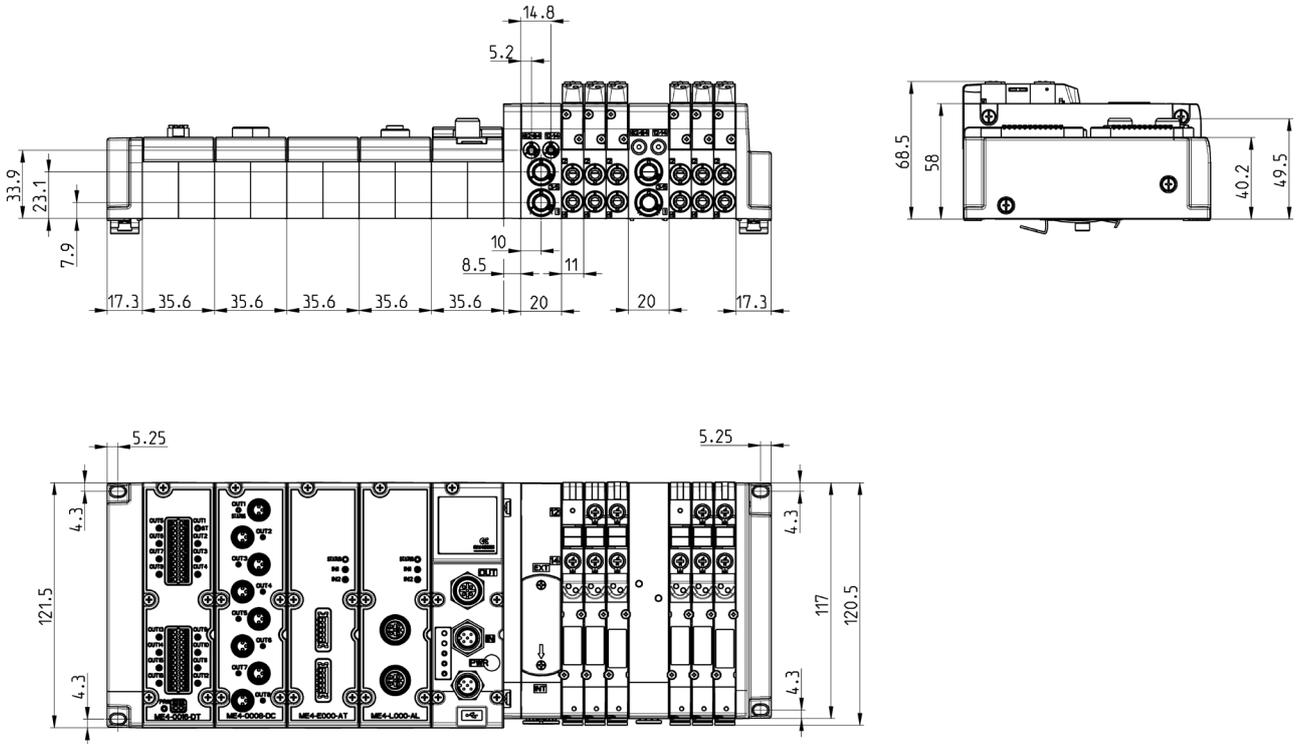
FIELDBUS version COMPONENTS

The tie rod kit DA1K-XX indicated between position 4-5, is used to prepare islands with "n" valve subbases that must be in the version "without tie rods".



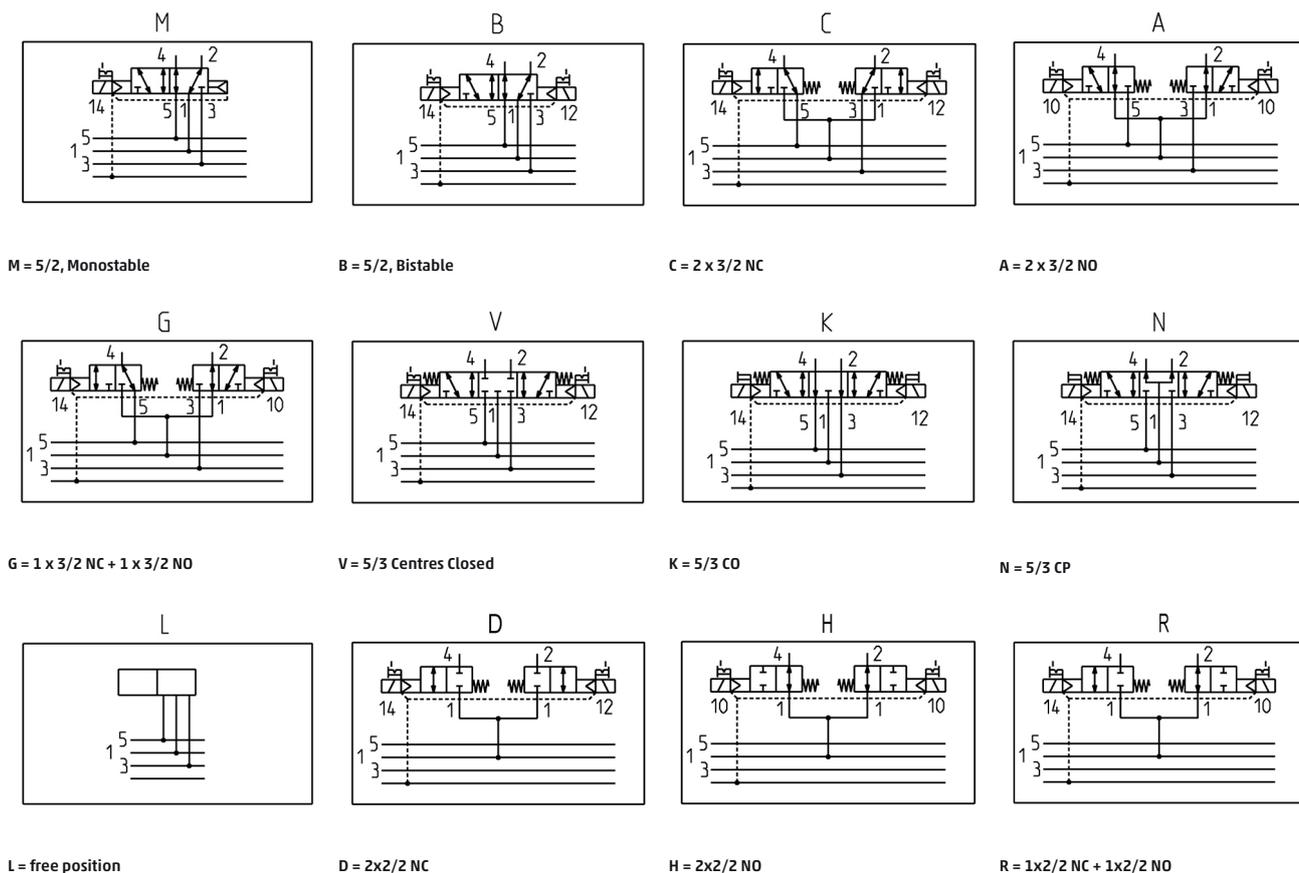
1	Terminal module	10	2 Analog voltage/current Inputs, M12
2	Serial interface	10a	2 Analog load cell Inputs, M12
3	IO-Link module	10b	2 Analog thermocouple Inputs, M12
3a	PROFINET module	10c	2 Analog RTD Inputs, M12
3b	EtherCAT module	10d	2 Analog voltage/current Inputs, terminal block
3c	EtherNet/IP module	10e	2 Analog load cells Inputs, terminal block
3d	CANopen module	10f	2 Analog thermocouple Inputs, terminal block
3e	PROFIBUS module	10g	2 Analog RTD Inputs, terminal block
3f	Base without Fieldbus cover	10h	8 Digital Inputs
4	Initial pneumatic supply module	10i	8 Digital Outputs
5	Modular subbase size 1	10l	16 Digital Inputs
5a	Interchangeable quick-release couplings	10m	16 Digital Outputs
6	Additional module to convey supply and exhaust channels	10n	Closed base without I/O cover
6a	Module to supply and to silence the exhaust channel	10o	2 Analog Out M12
6b	Module to separate electrical supply	10p	2 Analog Out terminal block
7	Terminal plate	10q	8 Digital Inputs (4 M12 connectors)
8	Mounting bracket for DIN rail	10r	8 Digital Outputs (4 M12 connectors)
9	Solenoid valve size 1	11	Interface gasket
		12	Expansion module

FIELDBUS version DIMENSIONS



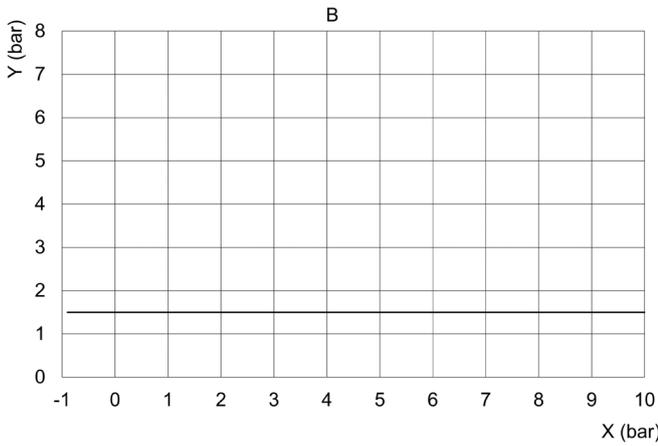
CODING EXAMPLE VALVE

D	1	E	VC	-	M	P
D	SERIES					
1	SIZE 1 = 10,5 mm					
E	VERSION E = solenoid valve					
VC	COMPONENT VC = plugin valve					
M	TYPE OF SOLENOID VALVE M = 5/2 monostable B = 5/2 bistable C = 2x3/2 NC A = 2x3/2 NO G = 1x3/2 NC + 1x3/2 NO V = 5/3 CC K = 5/3 CO N = 5/3 CP D = 2x2/2 NC H = 2x2/2 NO R = 1x2/2 NC + 1x2/2 NO					
P	MANUAL OVERRIDE P = push button R = with push and turn device					

AVAILABLE FUNCTION - SYMBOLS FOR SOLENOID VALVES


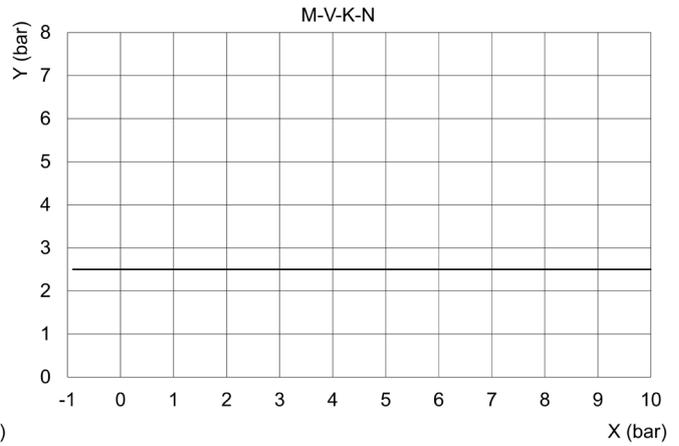
EXTERNAL PILOT PRESSURE GRAPHS

Valve model



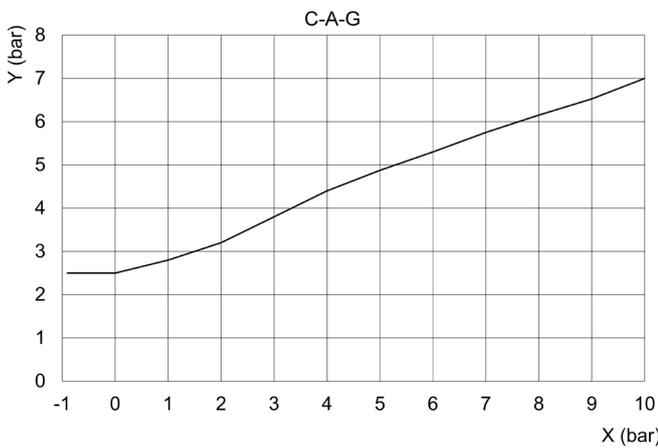
x = Supply pressure
 y = Pilot pressure

Valve model



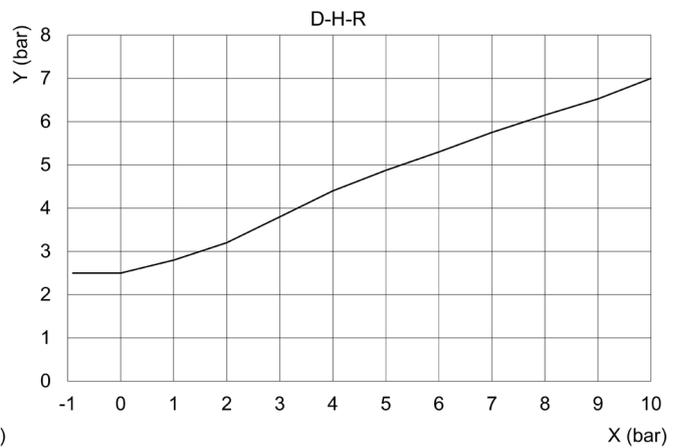
x = Supply pressure
 y = Pilot pressure

Valve model



x = Supply pressure
 y = Pilot pressure

Valve model



x = Supply pressure
 y = Pilot pressure

Free position L

The supply includes:

- 1x fake valve
- 2x fixing screws



Mod.
D1EVC-L

DIAPHRAGM SUBBASE CODING EXAMPLE

D	AM	1	S	-	QH	-	C	T
D	SERIES							
AM	ACCESSORIES AM = modular accessories							
1	SIZE 1 = 10,5 mm							
S	COMPONENT S = modular subbase							
QH	INTERMEDIATE DIAPHRAGM SUBBASE Q = diaphragm on channels 1, 3, 5 R = diaphragm on channel 1 S = diaphragm on channels 3, 5 DIAPHRAGM WITH EXTERNAL SERVO-PILOT SUPPLY QT = diaphragm on channels 1, 3, 5; 12/14 external RT = diaphragm on channels 1; 12/14 external ST = diaphragm on channels 3, 5; 12/14 external DIAPHRAGM WITH INTEGRATED SILENCER QH = diaphragm on channels 1, 3, 5 RH = diaphragm on channel 1 SH = diaphragm on channels 3, 5 SUBBASE FOR ADDITIONAL FLOW X = supply (1) and exhausts (3,5) XH = supply (1) and exhausts (3,5) with integrated silencer INTERFACE SUBBASE FOR ADDITIONAL FLOW WITH EXTERNAL SERVO-PILOT SUPPLY XT = additional supply (1) and exhausts (3,5) FOR ELECTRICAL SUPPLY K = separation of electrical supply - additional supply (1) and and exhausts (3,5) Z = separation of electrical supply - diaphragm on channel 1							
C	VERSION C = cartridge for tube Ø8 / C = cartridge for tube Ø5/16"							
T	TIE RODS = without tie rods T = with tie rods							

The supply of intermediate subbases includes: circuit board and connector, side seal.

The presence of single position tie rods (DA1K-MF) and the cartridges depend on the code.

MODULE K, Z TO SEPARATE POWER SUPPLY

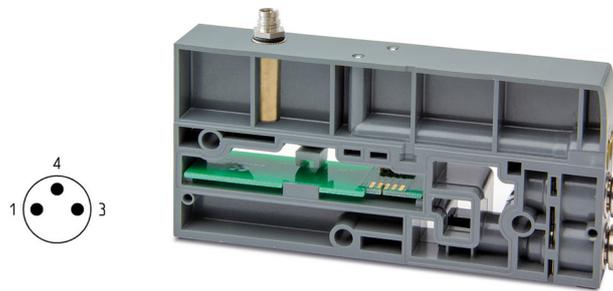
This module allows to interrupt and provide a separate power supply to the subsequent solenoid valves besides additional supply and exhaust. The Z version also allows to separate the pneumatic supply channel.

You only need to connect the +24V to one of the three pins

1 = +24V

3 = +24V

4 = +24V

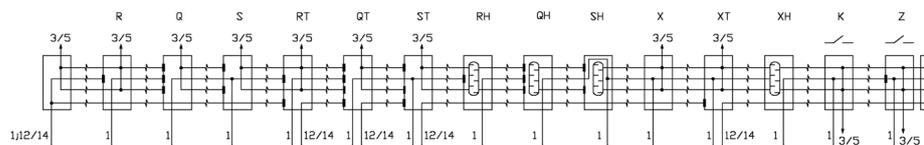
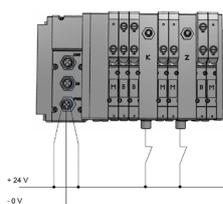


Connection	M8 3 pins
Dimensions	117 x 20 mm
Signalling	None
Supply	24 V DC (+/- 10%)
Protection class	IP 65
Temperature	0°C + 50°C
Material	technopolymer
Weight	320 g

AVAILABLE FUNCTIONS – DIAPHRAGM SUBBASE TYPES

- R = diaphragm on channel 1
- Q = diaphragm on channels 1, 3, 5
- S = diaphragm on channels 3, 5
- X = additional supply channel 1 and exhaust channels 3, 5
- RT = diaphragm on channels with external supply 12/14
- QT = diaphragm on channels with external supply 12/14
- ST = diaphragm on channels with external supply 12/14
- XT = additional supply channel 1, 12/14 and exhausts channels 3, 5
- RH = diaphragm on channel 1 with integrated silencer
- QH = diaphragm on channels 1, 3, 5 with integrated silencer
- SH = diaphragm on channels 3, 5 with integrated silencer
- XH = additional supply channel 1 and exhaust channels 3, 5 with integrated silencer
- K = separation of electrical supply - supply (1) and exhausts (3, 5)
- Z = separation of electrical supply - diaphragm on channel 1

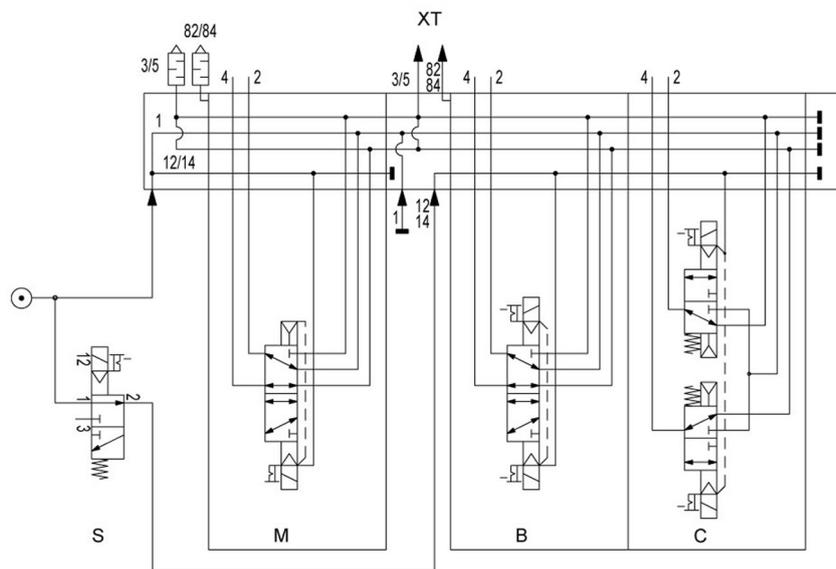
The electrical supply separation modules (K, Z) allow the valves in the positions subsequent to the modules to be excluded. The Z version also allows a differentiated pneumatic supply.



SEPARATE SERVO-PILOT SUPPLY WITH EXTERNAL VALVE / SOLENOID VALVE (OUTSIDE THE ISLAND)

The XT, QT, RT and ST intermediate subbases are always closed on pilot supply channel 12/14, and must therefore be supplied by an external source. In the example the solenoid valve M is supplied both by channel 1 and by channel 12/14, the next solenoid valve B is supplied by the same channel 1, while channel 12/14 is closed by intermediate subbase XT. The pneumatic supply of this channel depends on the position of the external solenoid valve S.

Solenoid valve S, under normal operating conditions is always activated (like in the example), allowing a regular operation of all solenoid valves after subbase XT. In case of anomalies, removing the signal of solenoid valve S, it returns to its position, cutting off the air from channel 12/14 and thus avoiding the switching of the solenoid valves in the following positions.

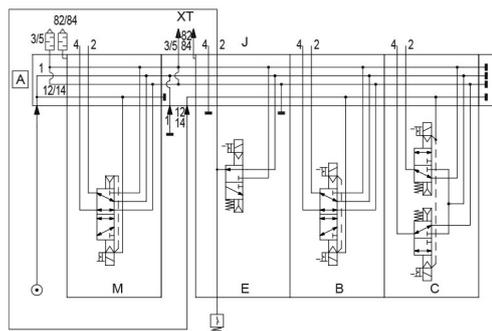
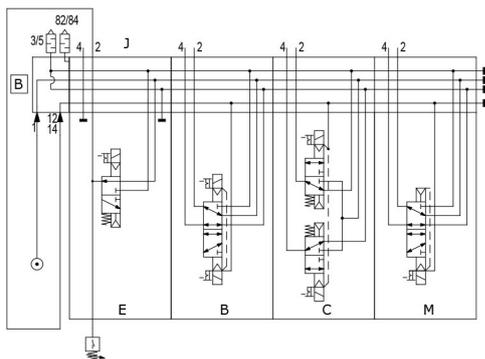


SEPARATE SERVO-PILOT SUPPLY WITH SOLENOID VALVE INTEGRATED IN THE ISLAND

Solenoid valves E and F with their special subbase J manage the servo-pilot supply of the entire island, or of parts of it. They must be positioned next to one another or next to a separation module XT-ST-QT-RT or after the supply/servo-pilot supply module. Subbase J with solenoid valve E (shown in the ON status) can be installed in the first position of the island, using the initial module B only (Figure 1).

If installed in any of the subsequent positions, it is possible to have either initial module A or B, but immediately before subbase J there must be any of the separation modules XT, QT, RT or ST (Figure 2).

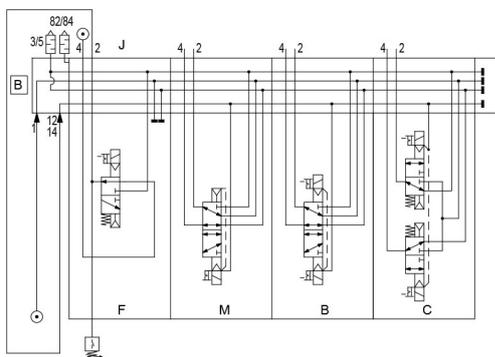
Outlet 2 of subbase J must be connected to either channel 12/14 of the supply/servo-pilot supply module or to the channel of one of the aforementioned separation modules.



In case vacuum, different pressures than standard (3-7 bar), or other requirements are needed in the valve island, it is necessary to use initial module B (external servo-pilot supply) and subbase J with solenoid valve F (shown in the ON status).

Subbase J must be connected to an external pressure supply ranging from 3-7 bar through channel 4 (Figure 3).

Channel 2 must be connected either to channel 12/14 of the supply/servo-pilot supply module or to the channel of one of the aforementioned separation modules.



CODING EXAMPLE SOLENOID VALVE FOR SERVOPILOT MANAGEMENT

Solenoid valves E and F need an external electric signal to the island through an M8 connection.
Subbase J does not affect the maximum number of valve positions.

D	1	E	VC	-	E	P
----------	----------	----------	-----------	----------	----------	----------

D	SERIES
1	SIZE 1 = 10,5 mm
E	VERSION E = solenoid valve
VC	COMPONENT VC = plug-in valve
E	TYPE OF SOLENOID VALVE E = 3/2 NC working line servo pump 1 F = 3/2 NC servo transmission from external line
P	MANUAL OPERATION P = pressure drive



PRESSURE SWITCH FOR VALVES E, F

SWMN	-	AP	-	M	-	2
-------------	----------	-----------	----------	----------	----------	----------

SWMN	SERIES SWMN SWMS	
AP	OUTPUT SIGNAL (SWMN) PP = PNP output - pressure	OUTPUT SIGNAL (SWMS) NO = normally open NC = normally closed
M	TYPE OF CONNECTION M = M5 thread	
2	ELECTRIC CONNECTION 2 = cable of 2 meters M = M8 3 pin connector	



Serial, multipole island with module E, F



FIELDBUS AND MULTIPOLES SYSTEMS

SUBBASE FOR SOLENOID VALVE MANAGEMENT

7

The supply includes:
 pass-through board, covering label, seals, single position tie-rods,
 cartridges $\varnothing 4$ ($\varnothing 5/32''$) and connection tube.



Mod.
DAM1S-JT

VALVE SUBBASES CODING EXAMPLE

D	AM	1	S	-	A	T
----------	-----------	----------	----------	----------	----------	----------

D	SERIES	
AM	ACCESSORIES AM = modular accessories	
1	SIZE 1 = 10,5 mm	
S	COMPONENT S = modular subbase	
A	TYPE OF CONNECTION T = subbase without cartridges A = cartridge tube Ø4 B = cartridge tube Ø6 A = cartridge tube Ø5/32" G = cartridge tube Ø1/4"	
T	TIE RODS = without tie rods T = with tie rods	



The supply includes:
 valve subbase complete with circuit boards, connectors and seals; with and without tie rods (DA1K-1) and cartridges.
 N.B.: The subbase with tie rods has to be used when expanding the island.

SUPPLY MODULE/SERVOPILOT CODING EXAMPLE

D	AM	1	0	-	KC
----------	-----------	----------	----------	----------	-----------

D	SERIES	
AM	ACCESSORIES AM = modular accessories	
1	SIZE 1 = 10,5 mm	
0	SERVO-PILOT SUPPLY 0 = internal / external	
KC	INITIAL PNEUMATIC TERMINAL PLATE KC = cartridge tube Ø8 (Ø5/16")	



The supply includes:
 module with cartridges, servo-pilot selector and seals.
 N.B. This module does not need tie-rods. Its tie rod value is included in the relative number of valve positions.

CODING EXAMPLE

D	AM	1	T	-	Q	0
----------	-----------	----------	----------	----------	----------	----------

D	SERIES	
AM	ACCESSORIES AM = modular accessories	
1	SIZE 2 = 16 mm	
T	COMPONENT T = electrical terminal plate	
Q	TYPE OF TERMINAL PLATE M = multipole 25 pins Q = multipole 44 pins	
0	INTERFACE 0 = without interface W = WLAN	



The supply includes:
 module with circuit boards, screws and seals.

Pneumatic terminal plate

The supply includes:
 1x terminal plate
 3x fixing screws



Mod.
 DAM10-RT

Connection interface between electrical section and valves

The supply includes:
 1x terminal plate
 3x fixing screws for valve section
 2x fixing screws for serial section
 1x interface



Mod.
 ME4-00D2-DI

Closing terminal of Fieldbus electrical section

The supply includes:
 1x terminal plate
 2x fixing screws



Mod.
 CX4AP-L

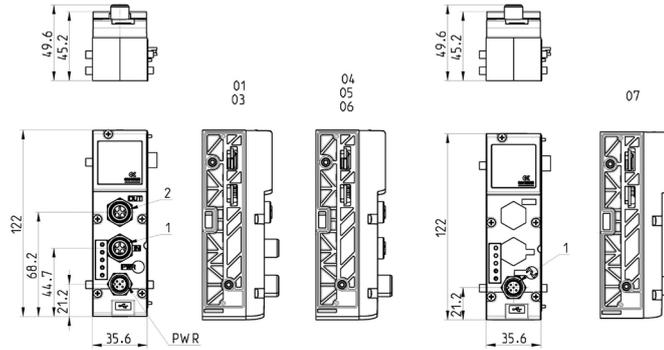
Multi-serial Modules



The supply includes:
 2x tie-rods

On this Module there are three connectors, one for supply on which it is possible to separate logic supply from power supply and two connectors for the inlet and outlet of the protocol. A Micro-USB port enables to interface with a PC and by means of the UVIX configuration software it is possible to monitor and configure both the Multi-serial Module and the I/O Modules. Connectable on the left side. These can be configured as PNP or NPN for the digital inputs, while for the analog inputs, both voltage and current is possible.

The configuration of the Multi-serial Module and the components connected to it is also possible through different communication protocols. In the event of malfunction or breakage, even without power supply, a NFC function enables to download the configuration data, by means of a special App, on an external device to transmit them to a new Multi-serial Module.



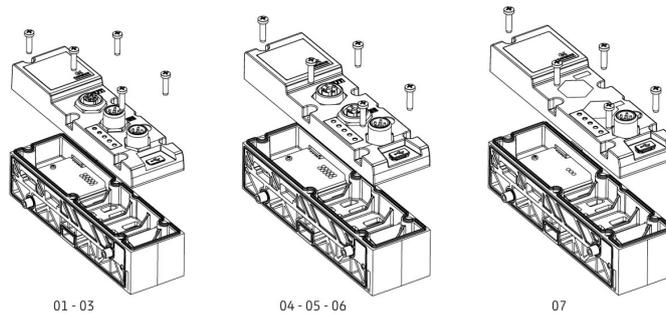
NO WLAN / WITH WLAN	Mod.	Fieldbus Protocol	1	2	Bus-IN connector	Bus-OUT connector
CX4010-0/CX401W-0	01	PROFIBUS	Bus-OUT	Bus-IN	M12 B 5-pin male	M12 B 5-pin female
CX4030-0/CX403W-0	03	CANopen	Bus-OUT	Bus-IN	M12 A 4-pin male	M12 A 4-pin female
CX4040-0/CX404W-0	04	EtherNet/IP	Bus-IN	Bus-OUT	M12 D 4-pin female	M12 D 4-pin female
CX4050-0/CX405W-0	05	EtherCAT	Bus-IN	Bus-OUT	M12 D 4-pin female	M12 D 4-pin female
CX4060-0/CX406W-0	06	PROFINET	Bus-IN	Bus-OUT	M12 D 4-pin female	M12 D 4-pin female
CX4070-0/CX407W-0	07	IO-link	Bus	-	M12 B 5-pin male	-

Multi-serial Modules cover



The supply includes:
 1x cover
 5x fixing screws

It is possible to configure a valve island using only the housing base of the Fieldbus cover, this allows to use the island with different Fieldbus types simply by integrating the relative cover. It is not possible to assemble an I/O-link cover on a Fieldbus base or a Fieldbus cover on an I/O-Link base. The position of the fixing screws on the front of the cover allows a quick installation or replacement.



NO WLAN / WITH WLAN	Mod.	Fieldbus Protocol
CX4510-0/CX451W-0	01	PROFIBUS
CX4530-0/CX453W-0	03	CANopen
CX4540-0/CX454W-0	04	EtherNet/IP
CX4550-0/CX455W-0	05	EtherCAT
CX4560-0/CX456W-0	06	PROFINET
CX4570-0/CX457W-0	07	I/O LINK

Digital Input Module Mod. ME4-0800-DC, ME4-0800-DL and ME4-1600-DT

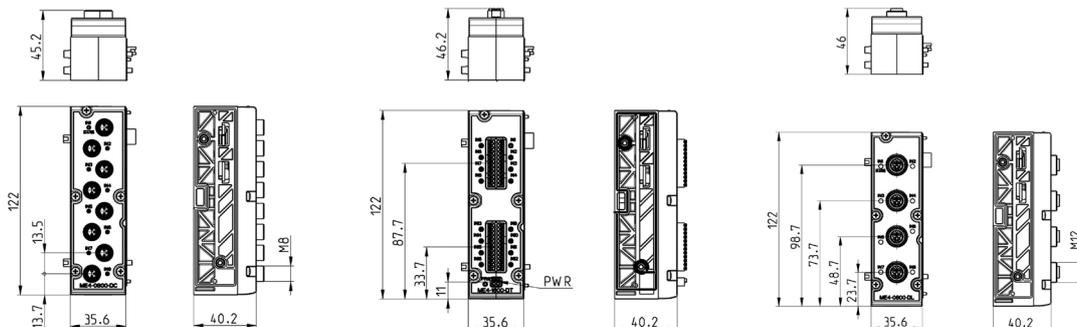


The Digital Input Module can be connected at the left of the Multi-serial module and can be placed in any order with other, both Digital and analog input/output modules. The module integrates diagnostic functions and is available in versions with:

- 8 M8 3-pin connectors
- 4 M12 connectors - terminal block (Push-in) for the connection of 16 inputs

In the terminal block version, power supply is normally provided by the valve island directly. In case of loads exceeding 800mA, power supply is provided by an external power supply to be connected to a 2-pin terminal block connector (PWR).

The supply includes:
2x tie-rods



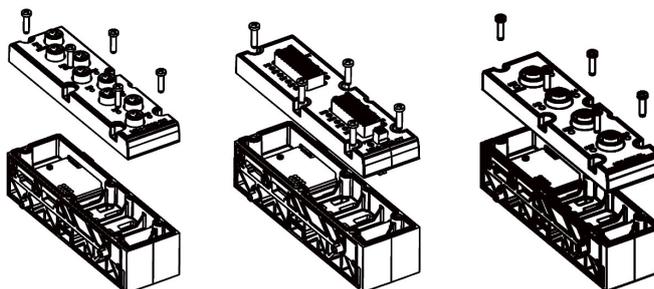
Mod.	Coding reference	Connection	Number of connectors	Dimensions	Signalling	Sensor supply	Overvoltage protection	Absorption	Type of signal	Protection class	Operating temperature	Weight
ME4-0800-DC	A	M8 3 pin female	8	122x35,6 mm	8 yellow led 1 red led	24 V DC	400 mA for 4 sensors	10 mA	PNP	IP65	0 ÷ 50°C	110 g
ME4-0800-DL	P	M12 5 pin female	4	122x35,6 mm	4 yellow led 1 red led	24 V DC	400 mA for 4 sensors	10 mA	PNP	IP65	0 ÷ 50°C	110 g
ME4-1600-DT	B	2 terminal blocks 24 pin (push-in)	-	122x35,6 mm	8 yellow led 1 red led	24 V DC	Internal: 800 mA for 16 sensors External: 2 A for 16 sensors	10 mA	PNP	IP65	0 ÷ 50°C	110 g

Digital Input Module Cover Mod. ME4-0800-DC, ME4-0800-DL and ME4-1600-DT

It is possible to configure a valve island with free electric positions. You can integrate further electrical signals in a valve island by replacing the cover plate with the relative I/O Cover.



The supply includes:
1x cover
5x fixing screws



Mod.	Connection
ME4-0800-DC-C	M8 3-pin female
ME4-0800-DL-C	M12 5-pin female
ME4-1600-DT-C	2 terminal blocks 24-pin (Push-in)

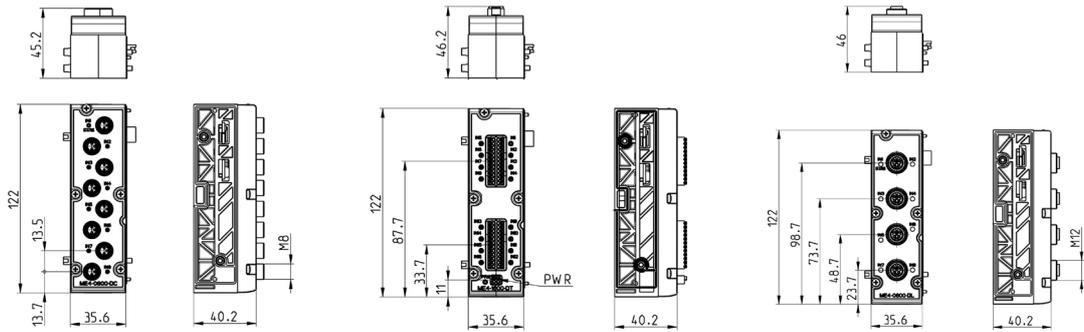
Digital power Output Module Mod. ME4-0008-DC, ME4-0008-DL and ME4-0016-DT



The supply includes:
 2x tie-rods

The Digital Output Module is connected on the left side of the Multi-serial module and can be positioned as desired with other both Digital and Analog I/O devices. Available in three versions:
 - 8 M8 3 pin connectors
 - 4 M2 connectors - (Push-In) terminal block for the connection of 16 Outputs (8+8). The wire connection part is removable from the Module.

For all versions, the outputs can be configured as PNP or NPN by means of a software UVIX (the standard version is configured as PNP). The 8 output M8 version can supply 24W and is supplied directly by the valve island. In the terminal block version, the power supply must always be supplied externally with 12-32V voltages, on the 2-pole connector. A maximum absorption of 48 W is possible. The Module is equipped with diagnostics (Status).



Mod.	Coding reference	N° of digital outputs	Connection	Number of connectors	Dimensions	Signalling	Supply outputs	Max. current per module	Max. power per digital output	Type of signal	Protection class	Operating temperature	Weight
ME4-0008-DC	Q	8	M8 3-pin female	8	122x35,6 mm	8 yellow led 1 red led	24 V DC	24 W	3 W	NPN/ PNP	IP65	0 ÷ 50°C	100 g
ME4-0008-DL	Y	8	M12 5-pin female	4	122x35,6 mm	4 yellow led 1 red led	24 V DC	24 W	3 W	NPN/ PNP	IP65	0 ÷ 50°C	100 g
ME4-0016-DT	R	16	2 terminal blocks 24-pin (Push-in)	-	122x35,6 mm	8 yellow led 1 red led	12-32 VDC	48 W	3 W	NPN/ PNP	IP20	0 ÷ 50°C	100 g

FIELDBUS AND MULTIPLES SYSTEMS

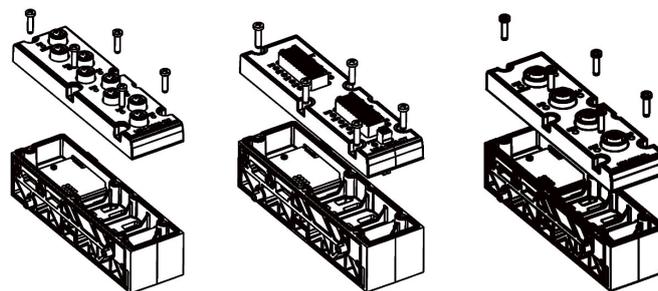
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Digital Output Module Cover Mod. ME4-0008-DC, ME4-0008-DL and ME4-0016-DT



The supply includes:
 1x cover
 5x fixing screws

It is possible to configure a valve island with free electric positions. You can integrate further electrical signals in a valve island by replacing the cover plate with the relative I/O cover.



Mod.	Connection
ME4-0008-DC-C	M8 3-pin female
ME4-0008-DL-C	M12 5-pin female
ME4-0016-DT-C	2 terminal blocks 24-pin (Push-in)

Analog Input Module Mod. ME4-C000-AL and ME4-C000-AT

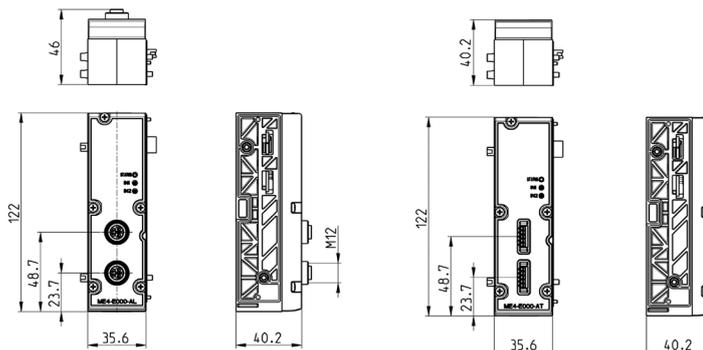


The supply includes:
2x tie-rods

The Analog Input Module can be connected at the left of the CPU module and can be placed in any order with other input/output devices. It is possible to configure every analog input as differential input 0-10V, $\pm 10V$, 0-20mA, 4-20mA, $\pm 20mA$ with a resolution up to 16 bit.

External voltage of 24 V is available to supply the sensor connected (max 0,25A/channel). The output is protected against short-circuit.

The module is equipped with diagnostics (Status) and is available both in the version with two M12 connectors with 5 contacts, and in terminal block version with Push-in connection.



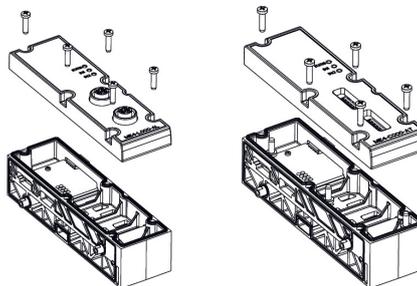
Mod.	Coding reference	Numbers of analog inputs	Connection	Number of connectors	Dimensions	Signalling	Sensor supply	Overvoltage protection	Absorption	Protection class	Operating temperature	Weight
ME4-C000-AL	C	2 (Config. 0-10V, $\pm 10V$, 0-20mA, 4-20mA, $\pm 20mA$)	M12 A 5-pin female	2	122x35,6 mm	2 yellow led 1 red led	24 V DC	500 mA shared between the two channels	max 20 mA	IP65	0 + 50°C	110 g
ME4-C000-AT	D	2 (Config. 0-10V, $\pm 10V$, 0-20mA, 4-20mA, $\pm 20mA$)	Terminal block 5-pin (Push-in)	2	122x35,6 mm	2 yellow led 1 red led	24 V DC	500 mA shared between the two channels	max 20 mA	IP20	0 + 50°C	110 g

Analog Input Module Cover Mod. ME4-C000-AL and ME4-C000-AT



The supply includes:
1x cover
5x fixing screws

It is possible to configure a valve island with free electric positions. You can integrate further electrical signals in a valve island by replacing the cover plate with the relative I/O cover.



Mod.	Connection
ME4-C000-AL-C	M12 A 5-pin female
ME4-C000-AT-C	Terminal block 5-pin (Push-in)

Analog Output Module Mod. ME4-T000-AL and ME4-T000-AT



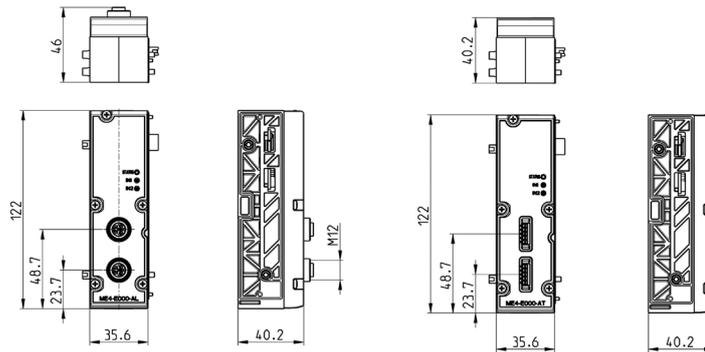
The Analog Output Module can be connected at the left of the Multi serial module and can be placed in any order with other input/output devices.

It is possible to configure every analog output as 0-10V, 0-5V, 4-20mA, 0-20mA output with a resolution up to 16 bit.

External voltage of 24 V is available to supply the device connected (max 0,25A/channel). The output is protected against short-circuit.

The supply includes:
 2x tie-rods

The module is equipped with diagnostics (Status) and is available both in the version with two M12 connectors with 5 contacts, and in terminal block version with Push-in spring connection.



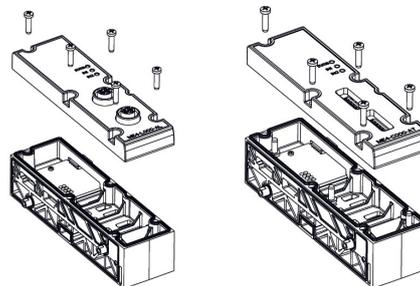
Mod.	Coding reference	Number of analog outputs	Connection	Number of connectors	Dimension	Signalling	Sensor supply	Overvoltage protection	Absorption	Protection class	Operating temperature	Weight
ME4-T000-AL	T	2 (Config. 0-10V,0-5V,0-20mA,4-20mA)	M12 A 5 pin female	2	122x35,6 mm	2 yellow led 1 red led	24 V DC	500 mA shared between the two channels	max 6 mA	IP65	0 ÷ 50°C	110 g
ME4-T000-AT	U	2 (Config. 0-10V,0-5V,0-20mA,4-20mA)	Terminal block 5-pin (Push-In)	2	122x35,6 mm	2 yellow led 1 red led	24 V DC	500 mA shared between the two channels	max 6 mA	IP20	0 ÷ 50°C	110 g

Analog Output Module Cover Mod. ME4-T000-AL and ME4-T000-AT



It is possible to configure a valve island with free electric positions. You can integrate further electrical signals in a valve island by replacing the cover plate with the relative I/O cover.

The supply includes:
 1x cover
 5x fixing screws



Mod.	Connection
ME4-T000-AL-C	M12 A 5-pin female
ME4-T000-AT-C	Terminal block 5-pin (Push-in)

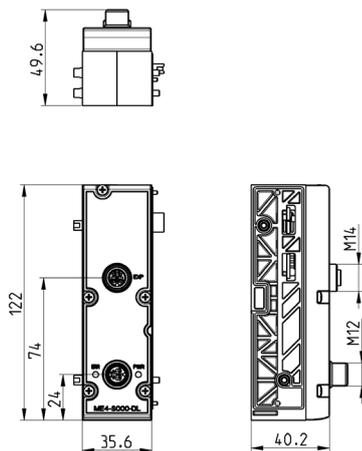
Subnet expansion module Mod. ME4-S000-DL



The supply includes:
2x tie-rods

Through this module it is possible to optimally manage proportional regulators Mod. PME of the CANopen version. Some applicative features of this module are:

- single connection cable for proportional regulators
- possibility to manage up to maximum 8 proportional regulators (PME) with a single module
- max. connection distance: 25 mt
- mounting of regulators near the device to control
- improved precision of pressure of the volume to control as there is no tube length that may interfere
- use of standard components present on catalogue
- command and feedback of single regulators are handled through the island's communication protocol



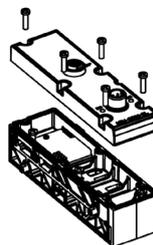
Mod.	Coding reference	Connection	Number of connectors	Dimensions	Protection class	Operating temperature	Weight
ME4-S000-DL	S	M12	2	122x35,6	IP65	0-50°C	110 g

Subnet expansion module Cover Mod. ME4-S000-DL



The supply includes:
1x cover
5x fixing screws

It is possible to configure a valve island with free electric positions. You can integrate further electrical signals in a valve island.



Mod.	Connection
ME4-S000-DL-C	power M12 5 pin female exp M12 5 pin male

Analog Input Module Mod. ME4-E000-A*, ME4-G000-A* and ME4-L000-A*



The supply includes:
 2x tie-rods

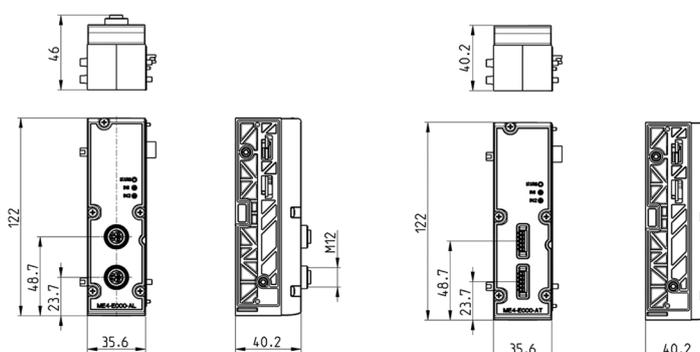
The analog input module can be connected at the left of the CPU module and can be placed in any order with other, both digital and analog Input/Output devices.

Analog, 2-channel Bridge module (ME4-E000-A*): Sensor data acquisition module with Resistor Bridge-type (4-wire) output, like strain gauge, non isolated. The module is able to process the two channel inputs with gain factor from 1mV/V to 255mV/V, with a resolution of up to 24bit. Supply voltage of the sensor +5V (max 0,05A/channel). The output is protected against short-circuit.

Analog, 2-channel RTD module (ME4-G000-A*): RTD Temperature sensor data acquisition module, in 2/3/4-wire configuration, non isolated. The module is able to process the following sensor types: PT100, PT200, PT500, PT1000, Ni100, Ni120, Ni1000, with a resolution of up to 16bit. Typical measuring fields range from -200 ÷ +850 °C (PT sensors) and -60 ÷ +250 °C (Ni sensors) Analog, 2-channel TC (thermocouples) module (ME4-L000-A*):

TC temperature sensor data acquisition module in 2-wire configuration, non isolated. The module is able to process the following sensor types: J, K, B, E, N, R, S, T, with a resolution of up to 16bit.

All modules are equipped with diagnostics (Status). The characteristics of the single input can be configured by a software for all analog module types. The modules are available both in the version with two M12 connectors with 5 contacts, and in the terminal block version with Push-in spring connection.



Mod.	Coding reference	Numbers of analog inputs	Connection	Number of connectors	Dimension	Signalling	Absorption	Protection class	Operating temperature	Weight
ME4-E000-AL	E	2 M12 bridge inputs	M12 A 5-pin female	2	122x35,6 mm	2 yellow led 1 red led	max 20 mA	IP65	0 ÷ 50°C	110 g
ME4-E000-AT	F	2 bridge inputs with terminal block (Push-in)	Terminal block (Push-in) 5-pin	2	122x35,6 mm	2 yellow led 1 red led	max 20 mA	IP20	0 ÷ 50°C	110 g
ME4-G000-AL	G	2 RTD M12 inputs	M12 A 5-pin female	2	122x35,6 mm	2 yellow led 1 red led	max 20 mA	IP65	0 ÷ 50°C	110 g
ME4-G000-AT	H	2 RTD inputs with terminal block (Push-in)	Terminal block (Push-in) 5-pin	2	122x35,6 mm	2 yellow led 1 red led	max 20 mA	IP20	0 ÷ 50°C	110 g
ME4-L000-AL	L	2 TC M12 inputs	M12 A 5-pin female	2	122x35,6 mm	2 yellow led 1 red led	max 20 mA	IP65	0 ÷ 50°C	110 g
ME4-L000-AT	M	2 TC inputs with terminal block (Push-in)	Terminal block (Push-in) 5-pin	2	122x35,6 mm	2 yellow led 1 red led	max 20 mA	IP20	0 ÷ 50°C	110 g

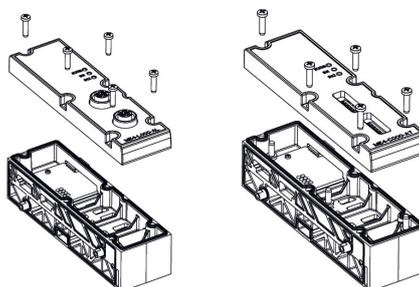
Analog Input Module Cover Mod. ME4-E000-A*, ME4-G000-A* and ME4-L000-A*

It is possible to configure a valve island with free electric positions. You can integrate further electrical signals in a valve island by replacing the cover plate with the relative I/O cover.



The supply includes:

- 1x cover
- 5x fixing screws



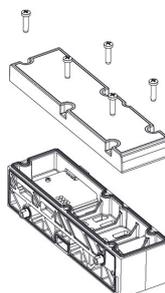
Mod.	Connection
ME4-E000-AL-C	M12 A 5-pin female
ME4-E000-AT-C	Terminal block (Push-in) 5-pin
ME4-G000-AL-C	M12 A 5-pin female
ME4-G000-AT-C	Terminal block (Push-in) 5-pin
ME4-L000-AL-C	M12 A 5-pin female
ME4-L000-AT-C	Terminal block (Push-in) 5-pin

Closed base without I/O cover



The supply includes:

- 2x tie-rods



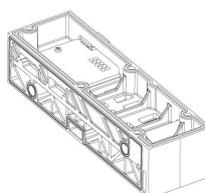
Mod.
ME4-0000-FP

Base without Fieldbus cover



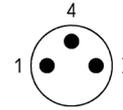
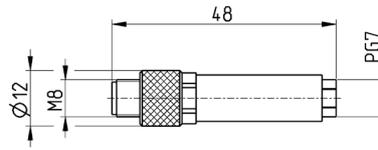
The supply includes:

- 2x tie-rods



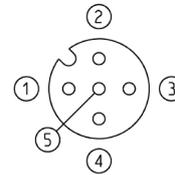
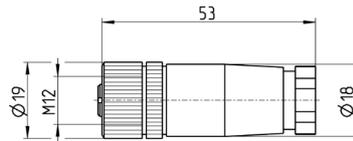
Mod.
CX4000-0

3 pin male M8 wiring connector for digital input modules



Mod.	Description	Type of connector	Connection
CS-DM03HB	for metal wiring	straight	M8 3 pin male

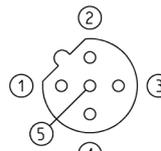
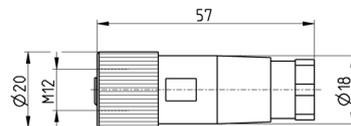
Connector M12, 5 pin, female, straight



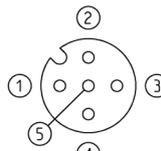
Connector for power supplies (PWR)

Mod.	Description	Type of connector	Connection	Cable length (m)
CS-LF04HB	for wiring	straight	M12 A 4 pin female - Pin 5 is not connected	-

Connector M12, 5 pin, female, straight



CS-MF05HC



CS-LF05HC

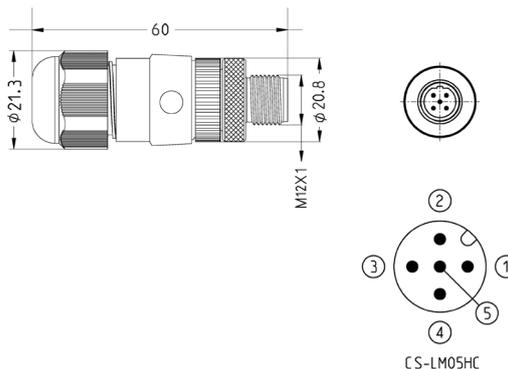
CANopen bus IN

Mod.	Description	Type of connector	Connection	Fieldbus
CS-LF05HC	for wiring	straight	M12 A 5 pin female	CANopen
CS-MF05HC	for wiring	straight	M12 B 5 pin female	PROFIBUS

Connector M12, 5 pin, male, straight



CANopen bus OUT

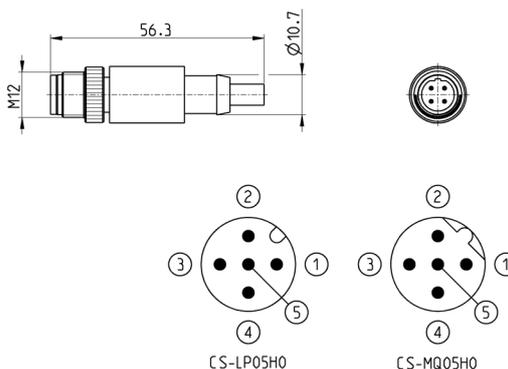


Mod.	Description	Type of connector	Connection	Fieldbus
CS-LM05HC	for metal wiring	straight	M12 A 5 pin male	CANopen

M12 male terminating resistor

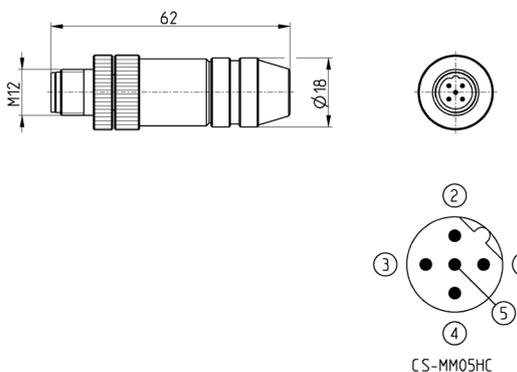


For PROFIBUS, CANopen



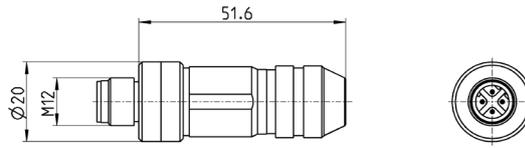
Mod.	Description	Type of connector	Connection	Fieldbus
CS-MQ05H0	moulded terminating resistor	straight	M12 B 4 pin male - Pin 5 is not connected	PROFIBUS
CS-LP05H0	moulded terminating resistor	straight	M12 A 5 pin male - Pin 5 is not connected	CANopen

Straight male M12 connectors for Bus-OUT PROFIBUS

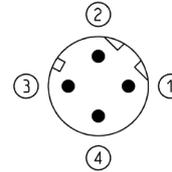


Mod.	Description	Type of connector	Connection	Fieldbus
CS-MM05HC	for metal wiring	straight	M12 A 5 pin male	PROFIBUS

Male wiring connector for Bus-IN and Bus-OUT

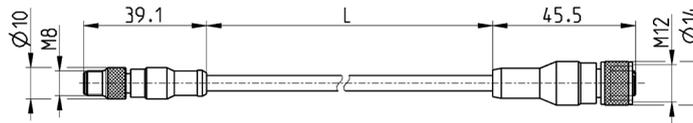


For PROFINET, EtherCAT, EtherNet/IP and subnet

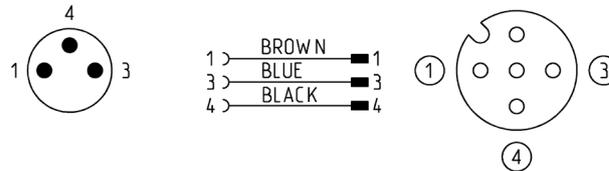


Mod.	Description	Type of connector	Connection	Cable length (m)
CS-SM04H0	For metal wiring	Straight	M12 D 4 pin	-

Adapter cable, M8 3-pin male - M12 4-pin female



Protection class: IP69K



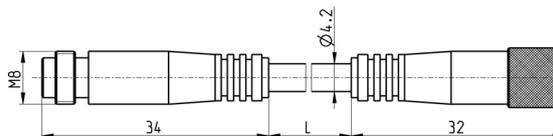
Mod.	Description	Max. voltage	Max. current	Nr conn. wires	Connections	Outer sheath	Cable "L" (m)
CS-AG03HB-C250	3-pin cable 24 AWG, high flexibility	50V AC / 60V DC	3 A	3	M8 3-pin male - M12 4-pin fem.	PUR black	2,5
CS-AG03HB-C500	3-pin cable 24 AWG, high flexibility	50V AC / 60V DC	3 A	3	M8 3-pin male - M12 4-pin fem.	PUR black	5

Extension with M8 connector, 3 pin male/female

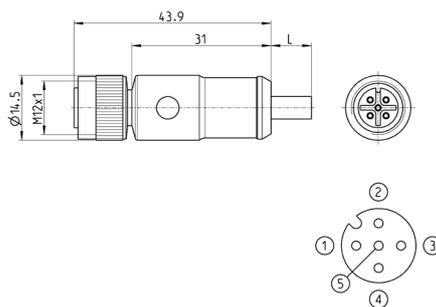
Non shielded



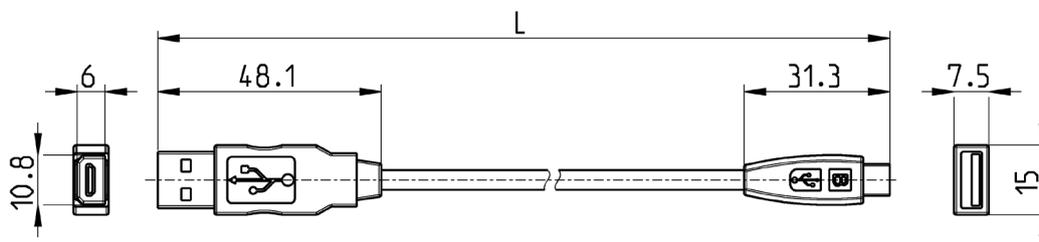
General Purpose Input/ Output (GPIO)



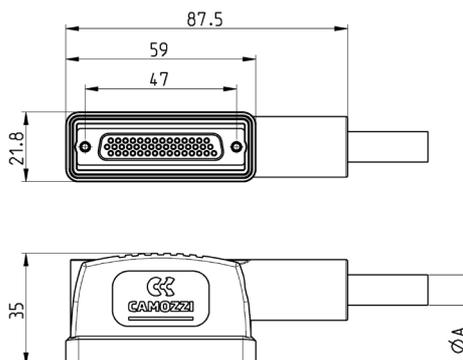
Mod.	Description	Type of connector	Connection	L [cable length] (m)
CS-DW03HB-C250	Moulded cable	Straight	M8 3 pin male / female	2,5
CS-DW03HB-C500	Moulded cable	Straight	M8 3 pin male / female	5

Cable with M12, 5 pin, connector, female, straight, shielded


Mod.	Description	Type of connector	Connection	Cable length (m)
CS-LF05HB-D200	moulded cable	straight	M12, 5 pin, female	2
CS-LF05HB-D500	moulded cable	straight	M12, 5 pin, female	5

USB to Micro USB cable Mod. G11W-G12W-2


Mod.	Description	Connections	Material for outer sheath	Cable length "L" (m)
G11W-G12W-2	Black shielded cable 28 AWG	Standard USB to Micro USB	PVC	2

Right angle Sub-D female connector 25-44 pins


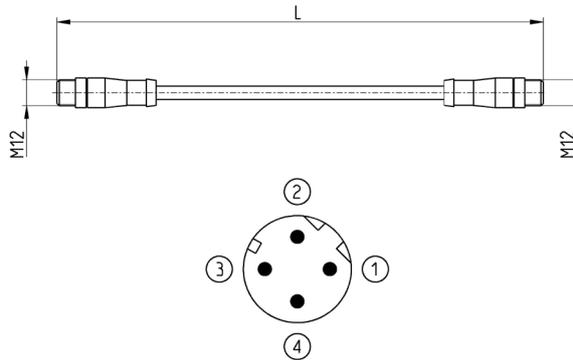
Protection class IP65

Mod.	A	PIN	Cable length (m)
G25X1-3	10	25	3
G25X1-5	10	25	5
G25X1-10	10	25	10
G25X1-15	10	25	15
G25X1-20	10	25	20
G25X1-25	10	25	25
G44X1-3	13	44	3
G44X1-5	13	44	5
G44X1-10	13	44	10
G44X1-15	13	44	15
G44X1-20	13	44	20
G44X1-25	13	44	25

Cables with straight connectors



Profinet, EtherCAT,
 EtherNet/IP

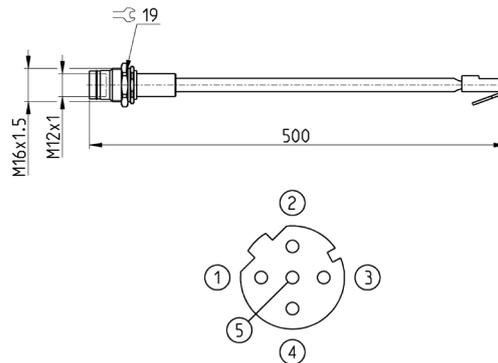


Mod.	Description	Type of connector	Connection	L [cable length] (m)
CS-SB04HB-D100	moulded cable	straight	2x M12 D 4 pin male	1
CS-SB04HB-D500	moulded cable	straight	2x M12 D 4 pin male	5
CS-SB04HB-DA00	moulded cable	straight	2x M12 D 4 pin male	10
CS-SB04HB-DD00	moulded cable	straight	2x M12 D 4 pin male	15
CS-SB04HB-DG00	moulded cable	straight	2x M12 D 4 poli maschio	20
CS-SB04HB-DJ00	moulded cable	straight	2x M12 D 4 poli maschio	25

Adaptor and panel mount for Ethernet RJ45 to M12 D networks

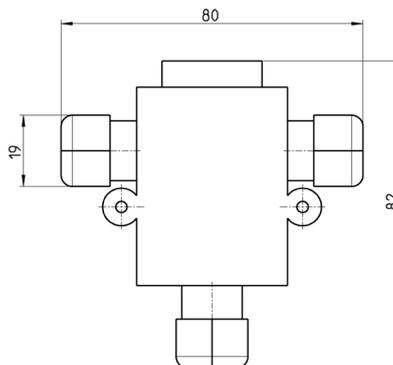


Profinet, EtherCAT,
 EtherNet/IP



Mod.	Description	Type of connector	Connection	Cable length (m)
CS-SE04HB-F050	Moulded cable	Straight	RJ45 male, M12 D 4 pin female - Pin 5 is not connected	0,5

CANopen data line tee

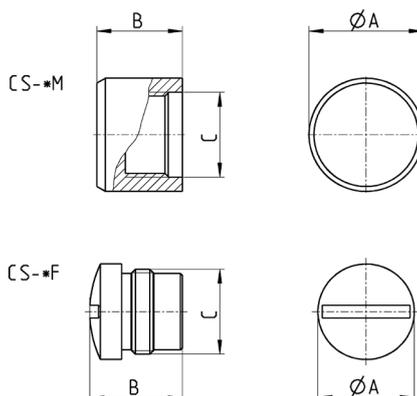


Mod.
CS-AA05EC

M8 and M12 connector cover caps

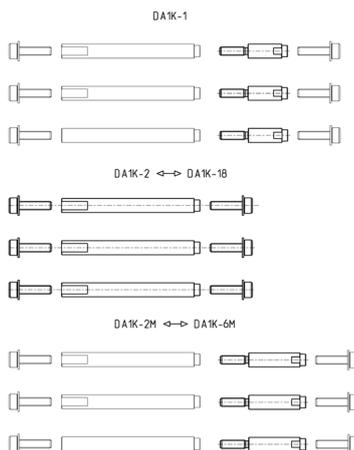


For digital and analog
input/output modules and
subnet



Mod.	A	B	C [Connection]
CS-DFTP	10	11	M8
CS-LFTP	13,5	13	M12

Tie-rods for valve - size 1



Mod.	Valve positions	Note
DA1K-1	-	**
DA1K-2	2	*
DA1K-4	4	*
DA1K-6	6	*
DA1K-8	8	*
DA1K-10	10	*
DA1K-12	12	*
DA1K-14	14	*
DA1K-16	16	*
DA1K-18	18	*
DA1K-20	20	*
...		
DA1K-64	64	***
DA1K-MF	(Q..., QT..., QH..., K, Z)	****
DA1K-2M	2	#
DA1K-4M	4	#
DA1K-6M	6	#

* Tie-rod.

The supply includes 3 tie-rods and 6 screws.

** Joint bolt for odd positions.

The supply includes 3 joint bolts.

*** The supply includes a kit of tierods and 6 screws.

**** The supply includes 3 tie-rods.

Joint bolt for addition (2, 4, 6 valves).

The supply includes 3 tie-rods and 3 screws.

Identification plates



The supply includes:
 45x identification plates
 9x5mm

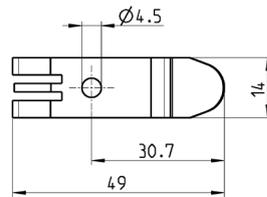
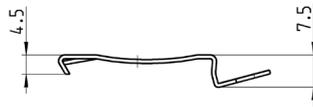
Mod.
HP1/E

Mounting brackets for DIN rail



DIN EN 50022 (mm 7,5 x 35 - width 1)

Supplied with:
 2x plates
 2x screws M4x6 UNI 5931



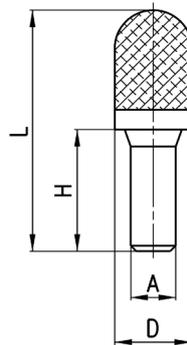
Mod.
PCF-D1

Silencers Series 2929



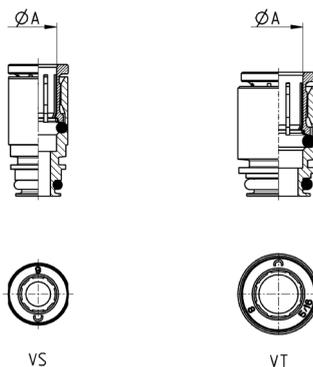
SIL1

Operating temperature:
 -40 / +80 °C



Mod.	A	D	H	L	Max. oper. pressure	Flow rate (NL/min)	Noise db (A)
2929 4	4	7	15,5	31,5	10	380	66
2929 6	6	12,5	20,5	45	10	660	80
2929 8	8	13,5	21,5	43,5	10	1300	83
2929 10	10	15,5	26,5	57,5	10	2800	92
2929 12	12	18,5	29	83	10	4200	94

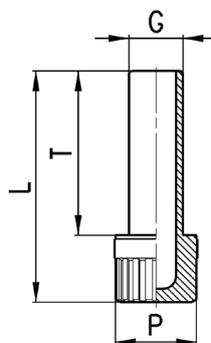
Interchangeable cartridges for subbases and terminal plates/diaphragms



Mod.	A	VS	VT
6700 4-D1	4	×	
6700 6-D1	6	×	
6700 8-D2/1	8		×
6700 4-D1	5/32"	×	
6700 04-D1	1/4"	×	
6700 8-D1	5/16"		×

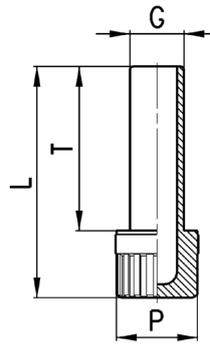
× = compatible with
 VS = subbase version
 VT = terminal plate/diaphragm version

Plastic male plug



Mod.	G	L	P	T	Weight (g)
6900 4	4	29	8	20	1
6900 6	6	31,5	8	22,5	1
6900 8	8	34,5	12	24,5	2

Plastic male plug



Mod.	G	L	P	T
6900 53-00	5/32	1,141	.315	.787
6900 04-00	1/4	1,240	.315	.885
6900 05-00	5/16	1,358	.472	.964