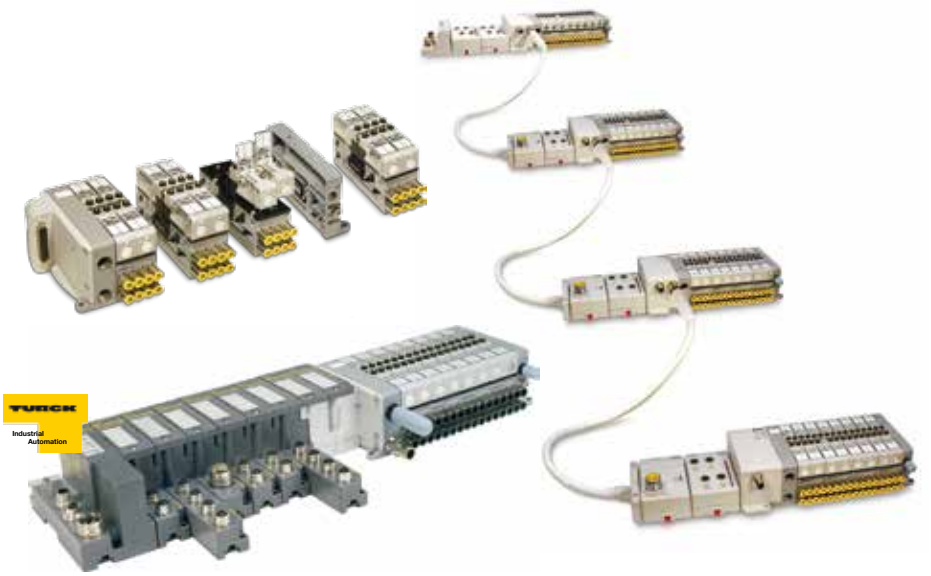
# H Series Micro

## Plug-in valve island

*Parker's newest and most innovative valve design offers functionality for **every** machine configuration.*




The H Series Micro valve redefines flexibility for pneumatic users. When either configured from basic components or ordered as pre-assembled and tested valve islands, H Series Micro valves are the answer to all your needs.

**Flexible in use**
The H Series Micro range is fully dedicated to centralized applications where a high quantity of valves have to be concentrated in a single location.

Solenoid valve island can also be implemented with digital or analogical electrical I/O.

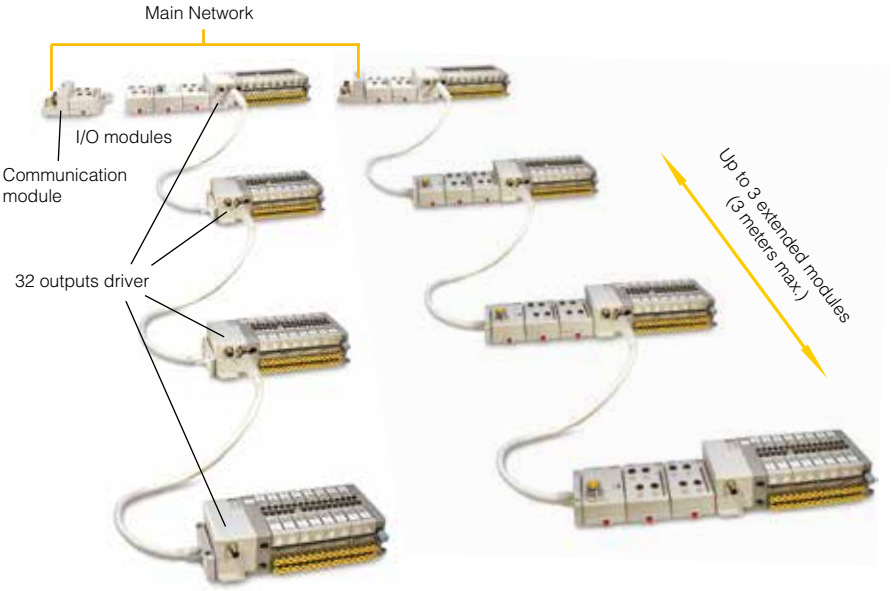
From a centralized application high complexity level to a basic configuration, with H Series Industrial Communication or traditional multi-connection, an H Series Micro valve island can be designed.

## One communication module for 256 Inputs and 256 Outputs

The combination of 32 output drivers and electrical I/O modules linked to the main communication module allows H Series Micro valve islands to drive up to 512 I/O, including up to 128 solenoids splited between 4 interconnected devices.

Both electrical inputs and outputs modules can also be assembled either on the main or extended islands.

Expansion power supply may be used to provide additional Pointbus backplane current.



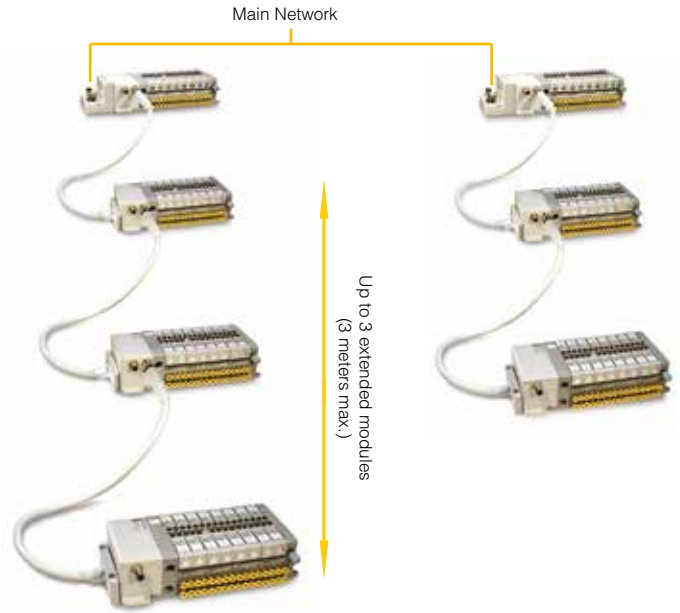

## Up to 128 solenoid valves configuration

If a high quantity of valves is required in a centralized application, up to 3 extended islands can be connected to the main device communication module.

All extended islands are connected through a bus extension cable PSSVEXT1 (including 1 m cable and head plate).

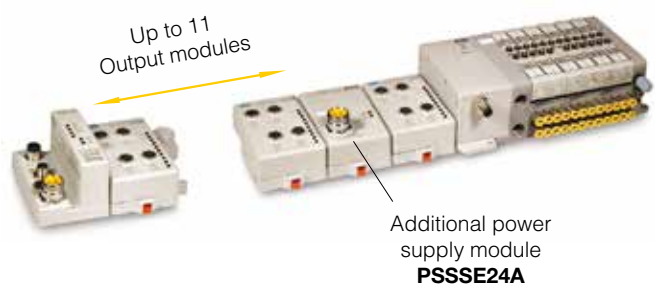
In this configuration, the 32 outputs driver module, on the main island and the extended island, have to be equiped with a "bus extention" M12 connector, excepted for the last extended island.

All 32 outputs driver modules need to be equiped with a M12 solenoids power supply connector.



## Up to 256 electrical outputs including 32 solenoid valves

Communication modules include a main 24 VDC power supply for the Bus and up to 10 digital or analogical output modules. Additional power supply is only requested if there are more than 11 output modules.




## Up to 32 solenoid valves

Communication modules include a main 24 VDC power supply for the bus and the 32 output driver modules.
All solenoids can be energized at the same time.

## Island up to 16 or 32 solenoid valves linked to the Turck BL67 remote I/O device series

This electro-mechanical interface allows, with its modularity up to 16 or 32 solenoid valves, an inter-connection to the TURCK BL67 Series, offering a wide choice of H Series Industrial Communication with Field bus and Industrial Ethernet protocols and a complete range of electrical I/O modules.

## Island for fieldbus communication in decentralized application

In a decentralized application where a serial communication is required and only a few valves are necessary, different fieldbus protocol modules are also available.

In that case, the valve island has to be equiped with a bus communication head module adaptor.

Depending on the protocol, the head module can pilot up to 16 solenoid valves.

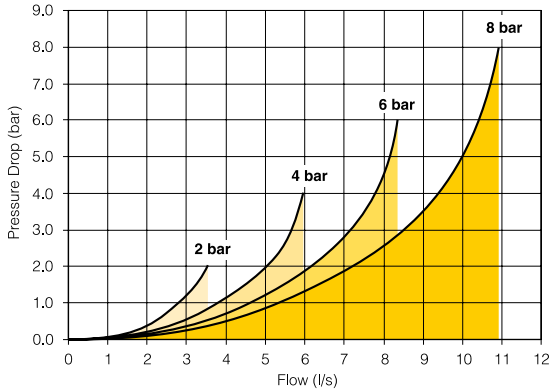
## Island with multi-pole connection

In a decentralized application, when a multi-pole connection is required, the valve island head module can be equiped with a standard Sub-D25 connector.

With this Sub-D25 connection, up to 24 solenoid valves can be piloted.

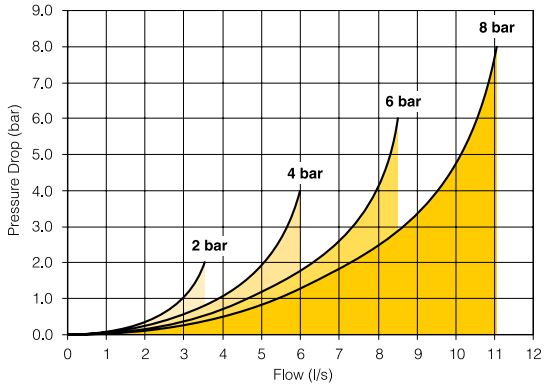
## Flow Characteristics

### Dual 3/2



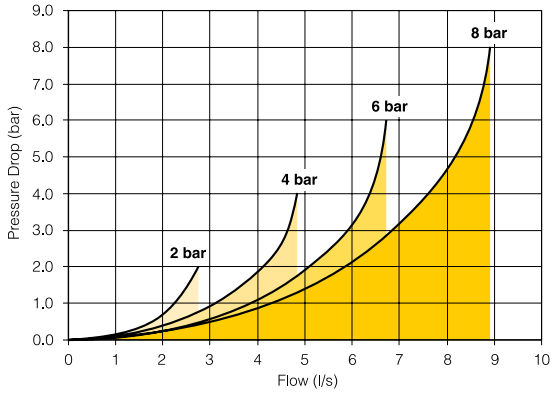

| | |
|---|---|
| Operating pressure : | 2,7 to 8,3 bar |
| Change-over time (side 14) | Actua. 15 ms<br>Return 20 ms P = 6b |
| Change-over time (side 12) | 15 ms / 25 ms P = 6b |
| Flow (acc. to ISO 6358) : | c = 1,2 Nl/s x bar<br>b = 0,13<br>Qn = 4,6 Nl/s<br>Qmax = 8,4 Nl/s |

### 5/2 single and double solenoid




| | |
|---|---|
| Operating pressure single solenoid: | 2,7 to 8,3 bar |
| Operating pressure double solenoid: | 1,7 to 8,3 bar |
| Change-over time single solenoid: | Actua. 15 ms<br>Return 25 ms P = 6b |
| Change-over time double solenoid: | 13 ms / 13 ms P = 6b |
| Flow (acc. to ISO 6358) : | c = 1,2 Nl/s x bar<br>b = 0,13<br>Qn = 4,7 Nl/s<br>Qmax = 8,5 Nl/s |

### 5/3 all ports blocked




| | |
|---|---|
| Operating pressure : | 2,7 to 8,3 bar |
| Change-over time | Actua. 20 ms<br>Return 20 ms P = 6b |
| Flow (acc. to ISO 6358) : | c = 1 Nl/s x bar<br>b = 0,14<br>Qn = 3,8 Nl/s<br>Qmax = 6,7 Nl/s |

## Characteristics

| | |
|---|---|
| Fluid : | Air or inert gas<br>Filtered 40 µ<br>Class 5 (according to ISO 8573-1)<br>Dry class 4 (according to ISO 8573-1)<br>Non-lubricated or lubricated |
| Storage temperature : | -40 °C to + 70 °C |
| Working temperature | -15 °C to + 50°C |
| Vibration : | according to IEC 68-2-6<br>2G to 150 Hz |
| Shock : | according to IEC 68-2-27<br>15G 11 ms |

| | |
|---|---|
| Operating pressure : | -0.9 to 8,3 bar<br>with external pressure 6 bar |
| Piloting pressure : | 2.7 to 8.3 bar |
| Exhaust collection : | Independant exhaust collection |
| Rated coil voltage : | 24 VDC -15 % / +10 % |
| Electrical connection: | Not polarised |
| Coil insulation : | Class B |
| Power consumption : | 1 W (42 mA) with LED |
| Duty factor : | 100 % at 20°C |

## Solenoid operated valve fitted with 24 VDC solenoid

| | Symbol | Description | Weight (g) | Order code |
|---|---|---|---|---|
| Including multi-function manual override cap  |  | Double 3/2 NC + NC | 60 | **HMNVX2049A** |
| |  | Double 3/2 NO + NO | 60 | **HMPVX2049A** |
| |  | Double 3/2 NC + NO | 60 | **HMQVX2049A** |
| |  | 5/2 single solenoid - Spring return | 49 | **HMEVX2049A** |
| |  | 5/2 double solenoid | 60 | **HM2VX2049A** |
| |  | 5/3 all ports blocked (APB) | 65 | **HM5VX2049A** |
|  |  | Blanking module kit (including two M7 plugs for manifold) | 30 | **HMBVX00XXA** |
| |  | Additional pressure module | 30 | **HMCVX00XXA** |

## Metal manifold for 4 valves (M7 threaded)

| | Description | Weight (g) | Order code |
|---|---|---|---|
| Side ported  | 4 position manifold single electrical address | 332 | **PSM21JAP** |
| | 4 position manifold double electrical address | 332 | **PSM21MAP** |
| Bottom ported  | 4 position manifold single electrical address | 310 | **PSM22JAP** |
| | 4 position manifold double electrical address | 310 | **PSM22MAP** |

## Complete manifold without fitting (M7 threaded)

| | Symbol | Description | Weight (g) | Order code |
|---|---|---|---|---|
| Side ported  |  | 4 x Double 3/2 NC + NC | 572 | **PSM31MAPN0N0N0N0** |
| |  | 4 x 5/2 single solenoid - Spring return | 528 | **PSM31JAPE0E0E0E0** |
| |  | 4 x 5/2 double solenoid | 572 | **PSM31MAP20202020** |
| |  | 4 x 5/3 all ports blocked (APB) | 592 | **PSM31MAP50505050** |
| Bottom ported  |  | 4 x Double 3/2 NC + NC | 550 | **PSM32MAPN0N0N0N0** |
| |  | 4 x 5/2 single solenoid - Spring return | 506 | **PSM32JAPE0E0E0E0** |
| |  | 4 x 5/2 double solenoid | 550 | **PSM32MAP20202020** |
| |  | 4 x 5/3 all ports blocked (APB) | 570 | **PSM32MAP50505050** |

## Pneumatic accessories

| | Description | Size | Tube OD | Material | Order code |
|---|---|---|---|---|---|
|  | Straight pneumatic connector for sub-base and **Px** | M7 | 4 mm | Metal | **F28PMB4M7MD** |
| | | M7 | 6 mm | Metal | **F28PMB6M7MD** |
| | Straight pneumatic connector for **Ex** | 1/8" | 6 mm | Metal | **F4PMB6-1/8** |
| | Straight pneumatic connector for Pressure and Exhaust ports | 3/8" | 8 mm | Metal | **F4PB8-3/8** |
| | | 3/8" | 10 mm | Metal | **F4PB10-3/8** |
| | | 3/8" | 12 mm | Metal | **F4PB12-3/8** |
|  | Muffler for **Ex** | 1/8" | | Metal | **ESB12MC** |
| | | 1/8" | | Plastic | **P6M-PAB1** |
| | Muffler for exhaust port | 3/8" | | Metal | **ESB37MC** |

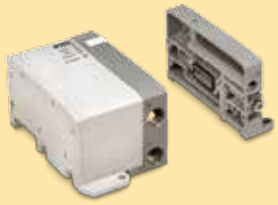
## Multi-pressure inter-manifold seal plate

| | Description | Pressure port | Exhaust port | Weight (g) | Order code |
|---|---|---|---|---|---|
|  | Inter-manifold seal plate | Passing / Passing | Passing | 16 | **PSM0001** |
| | | Passing / Block | Passing | 20 | **PSM0002** |
| | | Passing / Block | Block | 30 | **PSM0003** |
| | | Block / Block | Block | 40 | **PSM0004** |

## Spare parts

| | Description | Weight (g) | Order code |
|---|---|---|---|
|  | 24 VDC Pilot solenoid with screws | 11 | **PSM0010** |
| | Set of 10 multifunction manual override caps | 15 | **PSM0011** |
| | Set of 5 valve manifold gaskets and 10 screws | 25 | **PSM0012** |
| | Set of 10 M7 plugs for auxiliary pressure selection | 30 | **PSM0013** |
| | Set of 10 labels (in the P/N, **x** has to be replaced with the valve function letter) | 5 | **PSM002x** |
| | Set of 10 manifold to manifold M3 screws | 20 | **PSM0014** |

## 32 output driver end modules ordering chart



**P S M L 6 1 A P**

| 32 Output driver end modules | | |
|---|---|---|
| | 24 VDC power supply connector | Extender bus connector |
| **L6** | NO | NO |
| **M5** | NO | YES |
| **M6** | YES | NO |
| **M7** | YES | YES |

| | Ported design | Thread type |
|---|---|---|
| **1** | Side ported | 3/8" BSPP |
| **2** | Bottom ported | 3/8" BSPP |
| **5** | Side ported | 3/8" NPT |
| **6** | Bottom ported | 3/8" NPT |

## 32 outputs driver selection guide :

### L6 type

- 32 outputs driver with internal solenoids power supply from the communication head module
- Extended valve island not possible

Up to 32 solenoid valves per island

### M6 type

- 32 outputs driver with external solenoids power supply by M12 male connector
- Extended valve island not possible

Up to 32 solenoid valves per island

### M7 type

- 32 outputs driver with external solenoids power supply by separated M12 male connector
- Extended Bus link connection for additional valve islands by separate M12 female connector

Up to 32 solenoid valves per island

### M5 type

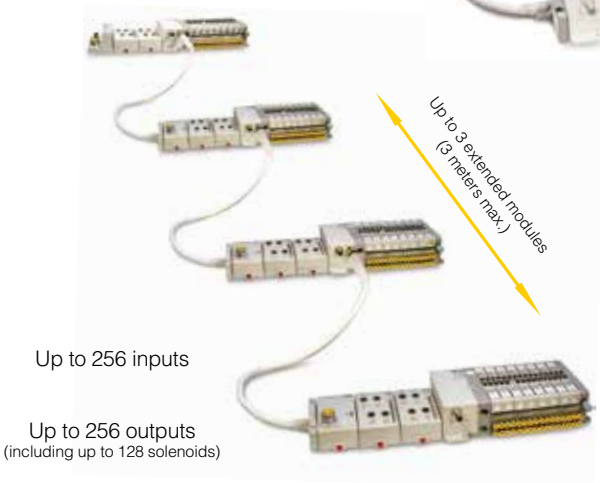
- 32 outputs driver with internal solenoids power supply from the communication head module
- Extended Bus link connection for additional valve islands by separate M12 female connector

Up to 32 solenoid valves per island

## Bus extender

Bus extender communication 1 meter cable for instant valve island plug-in by M12 male connector and direct head connection plate on device

Every extended island has to be separately power supplied




## Technical data

### 32 Outputs driver modules

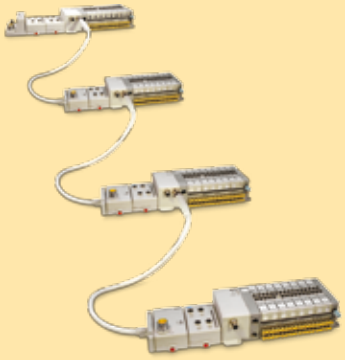
| | |
|---|---|
| Number of Outputs : | 32 |
| Operating Voltage Range : | 20,4 to 26.4 VDC |
| Output current rating Nom. : | 50 mA per chanel (100 mA Max) |
| | 3.2A per module |
| Pointbus current : | 200 mA |
| Working temperature : | -15°C to 50°C |
| Dust and water protection : | IP65 |

## 32 outputs driver modules

| | Sub-base design | Thread type | 24 VDC power supply | Extender bus | Weight (g) | Order code |
|---|---|---|---|---|---|---|
|  | Side ported | 3/8" BSPP | NO | NO | 400 | **PSML61AP** |
| | Bottom ported | 3/8" BSPP | NO | NO | 400 | **PSML62AP** |
| | Side ported | 3/8" BSPP | YES | NO | 400 | **PSMM61AP** |
| | Bottom ported | 3/8" BSPP | YES | NO | 400 | **PSMM62AP** |
| | Side ported | 3/8" BSPP | NO | YES | 400 | **PSMM51AP** |
| | Bottom ported | 3/8" BSPP | NO | YES | 400 | **PSMM52AP** |
| | Side ported | 3/8" BSPP | YES | YES | 400 | **PSMM71AP** |
| | Bottom ported | 3/8" BSPP | YES | YES | 400 | **PSMM72AP** |

## Bus extender

| | Description | Weight (g) | Order code |
|---|---|---|---|
|  | Head plate<br>1 meter cable / M12 male connector<br>for extended island inter-connection | 380 | **PSSVEXT1** |



Communication modules :
- Fieldbus
- Industrial Ethernet

Digital and Analogical I/O modules
Extended power supply module
IP67 modules

## H Series Industrial Communication and I/O modules

### H Series Industrial Communication modules

H Series Industrial Communication modules are available in :

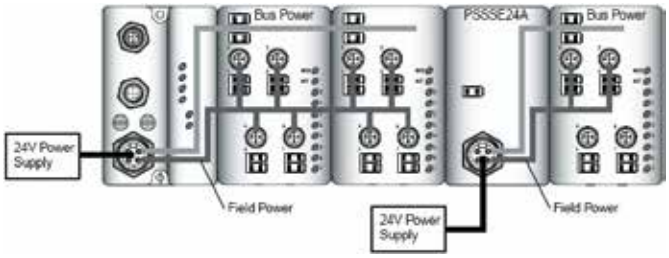
- DeviceNet
- Profibus DP
- Ethernet I/P
- ControlNet

### Digital or Analogical electrical I/O modules

Some modules have diagnostic features, electronic fusing, or individually isolated inputs/ outputs. The H Series Industrial Communication family provides a wide range of input and output modules to span many applications, from highspeed discrete to process control. H Series Industrial Communication supports producer/consumer technology, which allows input information and output status to be shared among multiple Logix controllers.

## Extension Power Unit

The auxiliary power supports up to 10 I/O modules and 32 output driver with a maximum of 10 A field power.
The 24 VDC extension power unit (PSSSE24A) extends the backplane bus power to support up to 10 more I/O modules.
Connect additional extension power units to expand the I/O assembly up to 63 I/O modules




## Technical data

### Industrial Communication modules & Extension power unit

| | |
|---|---|
| Bus power supply : | 24 VDC at 400 mA |
| Power supply input voltage : | 24 VDC |
| Operative voltage range : | 10 to 28.8 VDC |
| Input overvoltage protection : | Reverse polarity protected |

### Analogue Input modules

| | |
|---|---|
| Number of Outputs : | 2 |
| Input signal Range : | 4 to 20 mA / 0 to 10 VDC |
| Pointbus current : | 75 mA |

### Analogue Output modules

| | |
|---|---|
| Number of Outputs : | 2 |
| Input signal Range : | 4 to 20 mA / 0 to 10 VDC |
| Pointbus current : | 75 mA |

### Digital Input modules

| | |
|---|---|
| Number of Outputs : | 8 – PNP or NPN |
| Operating Voltage Range : | 10 to 28.8 VDC |
| Input current on-state : | 2 to 5 mA |
| Input current off-state : | 1,5 mA |
| Pointbus current : | 75 mA |

### Digital Ouput modules

| | |
|---|---|
| Number of Outputs : | 8 |
| Operating Voltage Range : | 10 to 28.8 VDC |
| Output current rating Max. : | 1 A per channel<br>3 A per module |
| Pointbus current : | 75 mA |

### Relay Output modules

| | |
|---|---|
| Number of Outputs : | 4 – NO contacts |
| Operating Voltage Range : | 5 to 28.8 VDC |
| Output current rating Max. : | 2 A per channel<br>8 A per module |
| Pointbus current : | 90 mA |

## H Series Industrial Communication modules

| | Description | Fieldbus connection | Power supply connector | Weight (g) | Order code |
|---|---|---|---|---|---|
|  PSSCENA | DeviceNet | M18 | 7/8" - 4 pins | 400 | **PSSCDM18PA** |
| | | M12 - A coding | 7/8" - 4 pins | 400 | **PSSCDM12A** |
| | Profibus DP | M12 - B coding | 7/8" - 5 pins | 380 | **PSSCPBA** |
| | Ethernet I/P | M12 - D coding | 7/8" - 4 pins | 380 | **PSSCENA** |
|  PSSCCNA | ControlNet | M12 - D coding | 7/8" - 4 pins | 380 | **PSSCCNA** |

## Electrical I/O modules

| | Description | Polarity | Connector type | Weight (g) | Order code |
|---|---|---|---|---|---|
|  PSSN8M8A | 8 Digital Inputs | PNP | 8 x M8 | 400 | **PSSN8M8A** |
| | | | 4 x M12 | 380 | **PSSN8M12A** |
| | | NPN | 4 x M12 | 380 | **PSSP8M12A** |
|  PSST8M12A | 8 Digital Ouputs | PNP | 8 x M8 | 400 | **PSST8M8A** |
| | | | 4 x M12 | 380 | **PSST8M12A** |
|  PSST8M23A | | | 1 x M23 | 400 | **PSST8M23A** |
| | 4 Digital Ouputs | Relay | 4 x M12 | 410 | **PSSTR4M12A** |
|  PSSNACM12A | 2 Analogue Inputs | 0 - 10 V | 2 x M12 | 400 | **PSSNAVM12A** |
| | | 4 - 20 mA | 2 x M12 | 400 | **PSSNACM12A** |
| | 2 Analogue Outputs | 0 - 10 V | 2x M12 | 400 | **PSSTAVM12A** |
|  PSSTACM12A | | 4 - 20 mA | 2 x M12 | 400 | **PSSTACM12A** |

## Auxiliary electrical modules

| | Description | Connector type | Weight (g) | Order code |
|---|---|---|---|---|
|  PSSSE24A | 24 VDC expansion power unit | 7/8" - 4 pins | 420 | **PSSSE24A** |

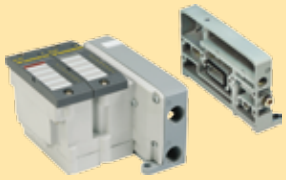
## Bus extender

| | Description | Length | Weight (g) | Order code |
|---|---|---|---|---|
|  PSSVEXT1 | Bus extender cable for module interconnection | 1 meter | 380 | **PSSVEXT1** |
| | | 3 meters | 760 | **PSSVEXT3** |
|  PSSTERM | Termination module | | 200 | **PSSTERM** |

## Accessories

| | Description | Bus protocol | Connector type | Weight (g) | Order code |
|---|---|---|---|---|---|
| P8CS0803J  | Power supply connector | DeviceNet, ControlNet & Ethernet | 7/8" - 4 pins | 40 | **P8CS7804AA** |
| | | Profibus DP | 7/8" - 5 pins | 40 | **P8CS7805AA** |
| | Line termination | DeviceNet | M12 - A coding | 25 | **P8BPA00MA** |
| | | Profibus DP | M12 - B coding | 25 | **P8BPA00MB** |
| | Bus IN female connector | DeviceNet | M12 - A coding | 25 | **P8CS1205AA** |
| | | Profibus DP | M12 - B coding | 25 | **P8CS1205AB** |
| | Bus OUT male connector | DeviceNet | M12 - A coding | 25 | **P8CS1205BA** |
| P8CSY1212A  | | Profibus DP | M12 - B coding | 25 | **P8CS1205BB** |
| | Cable quick connect connector | | M8 | 25 | **P8CS0803J** |
| | | | M12 - A coding | 25 | **P8CS1204J** |
| | "Y" shape, thread to thread | | M12 - 2 x M12 | 25 | **P8CSY1212A** |

## 16 Outputs Moduflex Bus ends module adaptator



| P | S | M | T | 2 | 1 | A | P |
|---|---|---|---|---|---|---|---|

| TURCK BL67 Series adaptor | |
|---|---|
| T0 | Valve Driver Module without output module |
| T1 | Valve Driver Module for 16 Outputs |
| T2 | Valve Driver Module for 32 Outputs |

For T0 version, 16 output module and blank module can be ordered separately from the next page or directly from TURCK under the same part number.

| | Ported design | Thread type |
|---|---|---|
| 1 | Side ported | 3/8" BSPP |
| 2 | Bottom ported | 3/8" BSPP |
| 5 | Side ported | 3/8" NPT |
| 6 | Bottom ported | 3/8" NPT |

## Valve driver Module for 16 or 32 Outputs

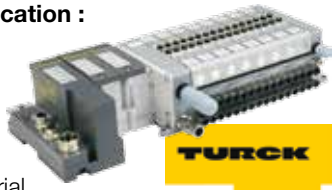
**Modularity up to 16 or 32 Outputs :**

- Populated with 1 or 2 standard TURCK 16 Output modules BL67-16DO-0. 1A-P, the Valve Driver Module can handle up to 16 or 32 solenoid valves.
- For a 16 Outputs configuration, the second slot has to be populated with 1 standard TURCK blank module BL67-E.

## TURCK BL67 communication gateway

**H Series Industrial Communication :**

- Linked to a TURCK BL67 communication module (programmable or not programmable), the device can be connected to a wide choice of Field Bus or Industrial Ethernet protocols.



## TURCK BL67 I/O and Base modules

The 2 piece design allows to complete the device with a choice through a full digital or analogue **I/O modules** range populating the **base module** existing with a multiple choice of electrical connection (M8, M12, M23, 7/8")
The complete resulting configuration can handle :

- Up to 32 electrical modules (up to 2 in the Valve Driver Module)
- Up to 256 digital I/O (up to 32 outputs in the Valve Driver Module)
- Up to 64 analog I/O


Full description or TURCK BL67 Series on http://www.turck.com

## Valve Driver Module - TURCK BL67 adaptor

| | Description | Solenoid Valves | Sub-base design | Thread type | Weight (g) | Order code |
|---|---|---|---|---|---|---|
|  | Valve Driver Module | 0<br>Without 16 O module | Side ported | 3/8" BSPP | 200 | **PSMT01AP** |
| | | | Bottom ported | 3/8" BSPP | 200 | **PSMT02AP** |
| | | 16 Outputs or blank module to be ordered separately (see below) | | | | |
| | | 16<br>Including :<br>- 1 x 16 O module<br>- 1 blank module | Side ported | 3/8" BSPP | 270 | **PSMT11AP** |
| | | | Bottom ported | 3/8" BSPP | 270 | **PSMT12AP** |
| | | 32<br>Including :<br>- 2 x 16 O modules | Side ported | 3/8" BSPP | 310 | **PSMT21AP** |
| | | | Bottom ported | 3/8" BSPP | 310 | **PSMT22AP** |

## Standard TURCK BL67 module

| | Description | Weight (g) | Order code |
|---|---|---|---|
|  | 16 Outputs module for 16 or 32 solenoid valves configuration | 55 | **BL67-16DO-0.1A-P** |
| | Blank module for 16 solenoid valves configuration | 15 | **BL67-E** |

Both standard TURCK BL67 Outputs module and Blank module can be ordered directly from TURCK under the same part number.

## 16 Outputs module BL67-16DO-0.1A-P technical specifications

| | |
|---|---|
| Number of channels | 16 |
| Nominal voltage $V_O$ | 24 VDC |
| Rated current from field supply | ≤ 100 mA |
| Rated current from module bus | ≤ 30 mA |
| Power loss, typical | ≤ 1.5 W |
| Output type | PNP |
| Output voltage | 24 VDC |
| Output current per channel | 140 mA rated current (with VN 01-05 or higher) |
| Output delay | 3 ms |
| Load type | resistive, inductive |
| Short-circuit protection | yes |
| Simultaneity factor | 1 |
| Electrical isolation | electronics for the field level |

| | |
|---|---|
| Dimensions (W x L x H) | 32 x 91 x 59 mm |
| Approvals | CE, cULus |
| Operating temperature | Refer to solenoid valve |
| Storage temperature | -40°C to +70°C |
| Vibration | According to IEC68-2-6 : 2g to 150 Hz |
| Shock test | According to IEC68-2-27 : 15g to 11 ms |
| Electro-magnetic compatibility | acc. to EN61131-2 |
| Protection class | IP 65 |
| Tightening torque fixing screws | 0.9 ... 1.2 Nm |

## 16 Outputs Moduflex Bus ends module adaptator

| P | S | M | M | C | 1 | A | P |
|---|---|---|---|---|---|---|---|

| Moduflex 16 Outputs adaptator | |
|---|---|
| **M4** | Adaptor without bus module |
| **MC** | Adaptor with CANopen module |
| **MD** | Adaptor with DeviceNet module |
| **MP** | Adaptor with Profibus DP module |

For AS-i communication, use M4 and see Moduflex Valve catalogue for AS-i module part number.

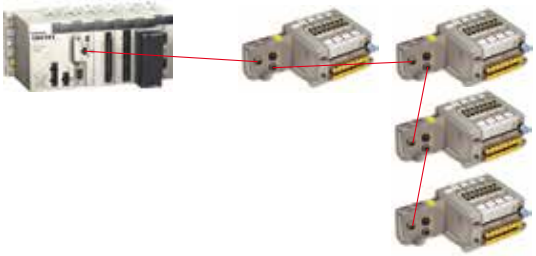
| | Ported design | Thread type |
|---|---|---|
| **1** | Side ported | 3/8" BSPP |
| **2** | Bottom ported | 3/8" BSPP |
| **5** | Side ported | 3/8" NPT |
| **6** | Bottom ported | 3/8" NPT |

## Moduflex Bus 16 Outputs

16 solenoids fieldbus modules available in DeviceNet, CANopen, and Profibus DP protocols.

## Closer to the cylinder

Decentralized application when solenoid valves have to be closer to the pneumatic actuators.



## Technical data

### Moduflex Bus communication modules

Bus power supply : 20 to 30 VDC
Power supply output voltage : 24 VDC
Module consumption :
- DeviceNet : 1,5 W
- CANopen : 1,5 W
- Profibus DP : 1,5 W

Water and dust Protection : IP65
Output protection : overload protected

## Moduflex Bus modules

| | Description | Bus protocol | Sub-base design | Thread type | Weight (g) | Order code |
|---|---|---|---|---|---|---|
|  | Moduflex Bus module | CANopen | Side ported<br>Bottom ported | 3/8" BSPP<br>3/8" BSPP | 250<br>250 | **PSMMC1AP**<br>**PSMMC2AP** |
| | | DeviceNet | Side ported<br>Bottom ported | 3/8" BSPP<br>3/8" BSPP | 250<br>250 | **PSMMD1AP**<br>**PSMMD2AP** |
| | | Profibus DP | Side ported<br>Bottom ported | 3/8" BSPP<br>3/8" BSPP | 250<br>250 | **PSMMP1AP**<br>**PSMMP2AP** |
| Also available, AS-i interface protocol, standard version or extended version (A - B coded). See Moduflex Valve catalogue. | | | | | | |
|  | End modules adaptator without Moduflex Bus module | All | Side ported<br>Bottom ported | 3/8" BSPP<br>3/8" BSPP | 200<br>200 | **PSMM41AP**<br>**PSMM42AP** |

For configuration files, go to : http://www.parker.com/pneu/moduflex.

## Decentralized Device bus accessories

| | Description | Bus protocol | Connector type | Weight (g) | Order code |
|---|---|---|---|---|---|
|  P8CS0803J | Power supply female straight connector | All | M12 - A coding | 25 | **P8CS1205AA** |
| | Line termination | DeviceNet CANopen | M12 - A coding | 25 | **P8BPA00MA** |
| | | Profibus DP | M12 - B coding | 25 | **P8BPA00MB** |
| | Bus IN female connector | DeviceNet CANopen | M12 - A coding | 25 | **P8CS1205AA** |
| | | Profibus DP | M12 - B coding | 25 | **P8CS1205AB** |
| | Bus OUT male connector | DeviceNet CANopen | M12 - A coding | 25 | **P8CS1205BA** |
| | | Profibus DP | M12 - B coding | 25 | **P8CS1205BB** |
| | Cable quick connect connector | | M8<br>M12 - A coding | 25<br>25 | **P8CS0803J**<br>**P8CS1204J** |
| P8CSY1212A  | "Y" shape, thread to thread | | M12 - 2 x M12 - A coding | 25 | **P8CSY1212A** |



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## Multi-connection head module

| P | S | M | L | 2 | 1 | A | P |
|---|---|---|---|---|---|---|---|

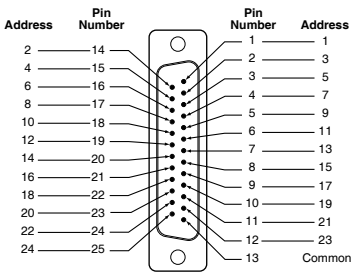
| Multi-wire connection | |
|---|---|
| **L2** | Sub-D25 connector |

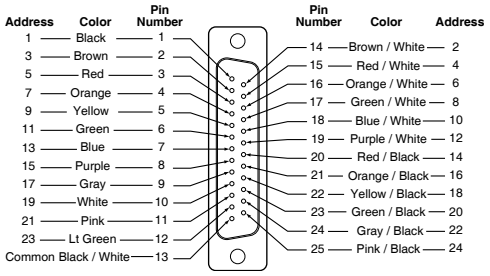
| | Ported design | Thread type |
|---|---|---|
| **1** | Side ported | 3/8" BSPP |
| **2** | Bottom ported | 3/8" BSPP |
| **5** | Side ported | 3/8" NPT |
| **6** | Bottom ported | 3/8" NPT |

## Sub-D25 connection

Up to 24 solenoids on standard Sub-D25 connector.

## Technical data




| | |
|---|---|
| Rated voltage : | 24 VDC |
| Maximum addresses : | 24 |
| Maximum energised simultaneously : | 24 |
| Electrical connection : | Sub-D25 pin DIN 41652, MIL-C-24308, NFC93425 type HE5 |
| Polarity : | PNP and NPN compatible (solenoids not polarized) |
| Dust and water protection : | IP65 rated with properly assembled IP65 rated cable |

## Electrical multi-pole end modules

| | Description | Sub-base design | Thread type | Weight (g) | Order code |
|---|---|---|---|---|---|
|  | Sub-D25 ends module | Side ported | 3/8" BSPP | 250 | **PSML21AP** |
| | | Bottom ported | 3/8" BSPP | 250 | **PSML22AP** |

## Electrical accessories

| | Description | Cable length | Weight (g) | Order code |
|---|---|---|---|---|
|  **P8LMH25M3A** | Sub-D25 connector IP40 with flying leads multi-cable | 3 m | 380 | **P8LMH25M3A** |
| | | 9 m | 780 | **P8LMH25M9A** |
| | Sub-D25 connector IP65 with flying leads multi-cable | 9 m | 790 | **P8LMH25B9A** |



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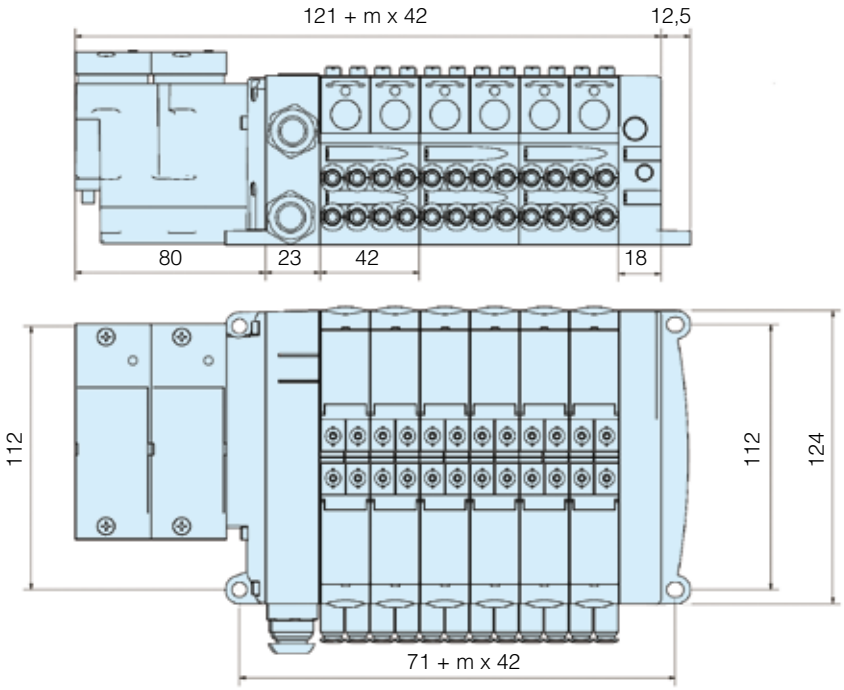
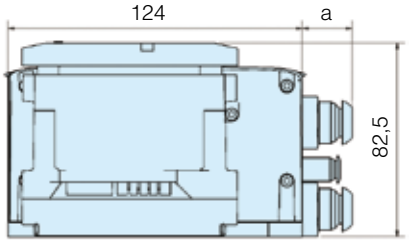
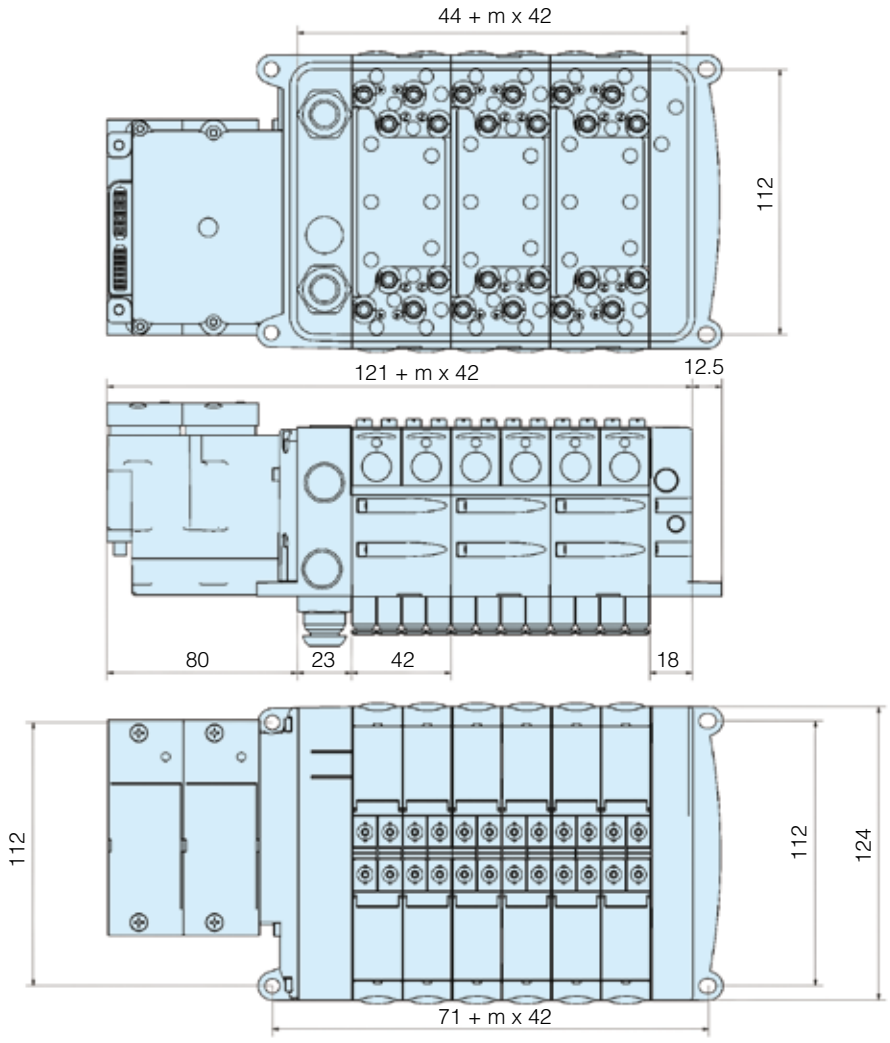
## H Series Micro Valve with TURCK BL67 adaptor - Side ported



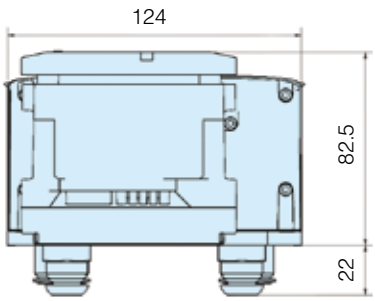




| M7 fittings | a |
|---|---|
| Ø 4 mm | 11 |
| Ø 6 mm | 16 |

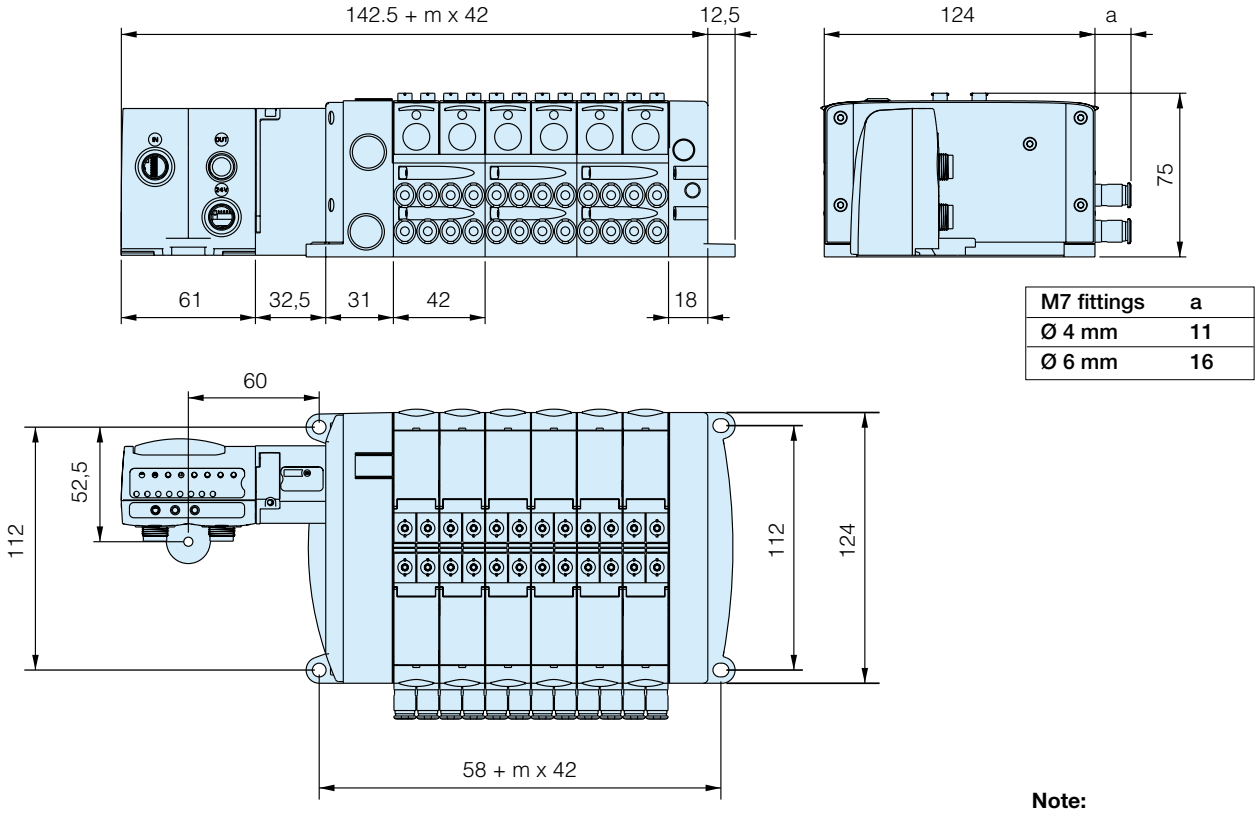
## H Series Micro Valve with TURCK BL67 adaptor - Bottom ported




**Note:**
m = number of manifolds (one manifold for 4 valves modules)



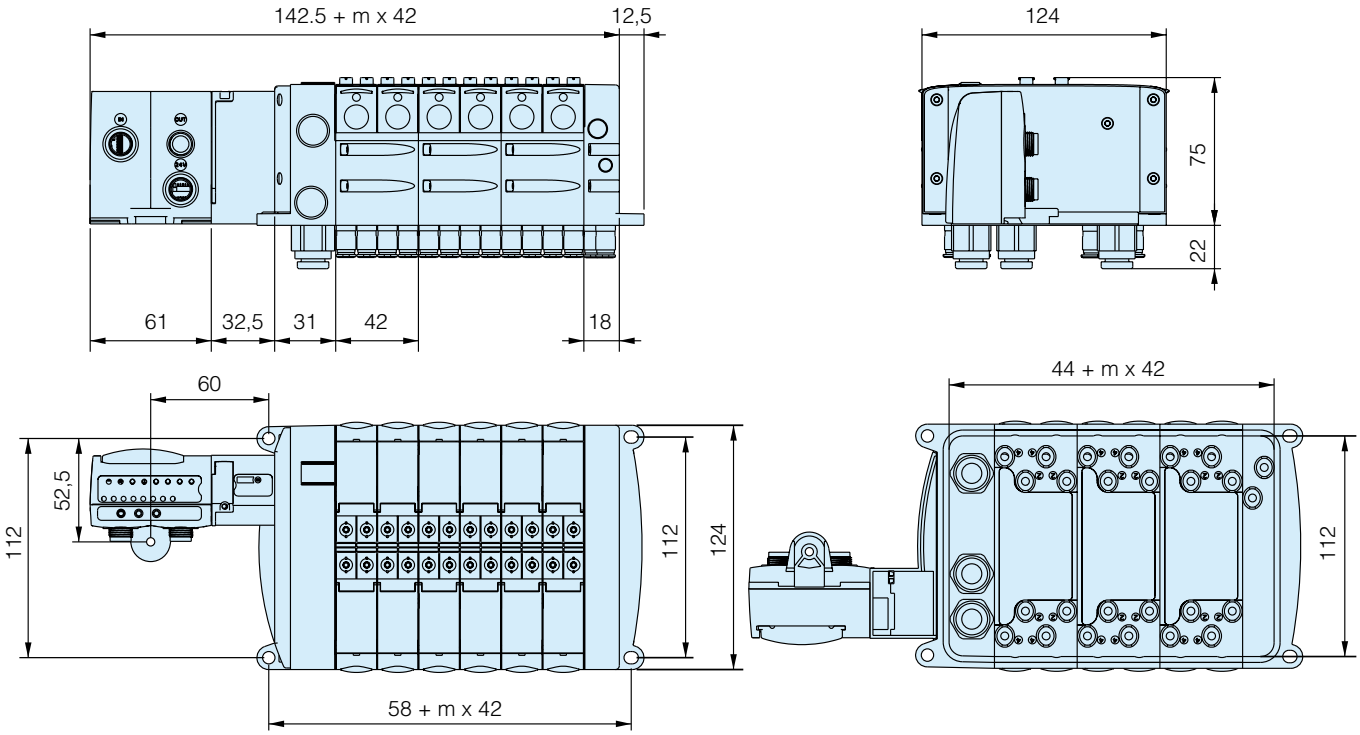
## Fieldbus - Side ported



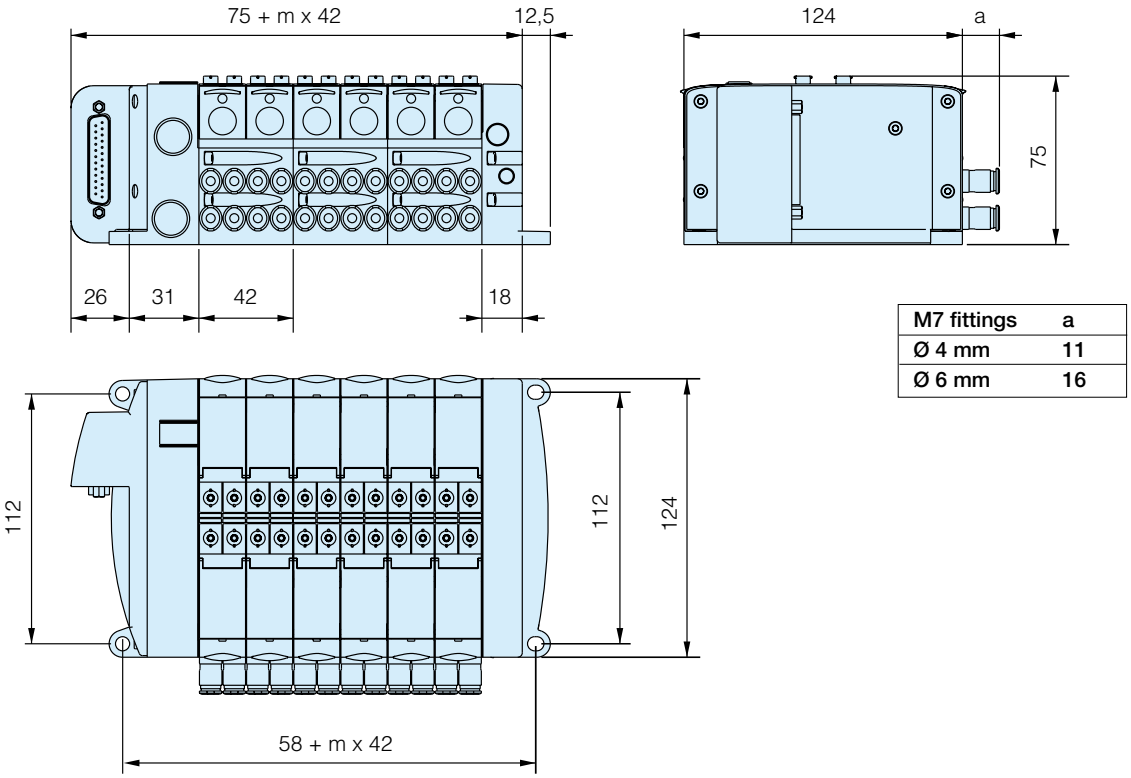

| M7 fittings | a |
|---|---|
| Ø 4 mm | 11 |
| Ø 6 mm | 16 |

**Note:**
m = number of manifolds (one manifold for 4 valves modules)

## Fieldbus - Bottom ported



## SubD25 - Side ported




| M7 fittings | a |
|---|---|
| Ø 4 mm | 11 |
| Ø 6 mm | 16 |

**Note:**
m = number of manifolds (one manifold for 4 valves modules)

## SubD25 - Bottom ported