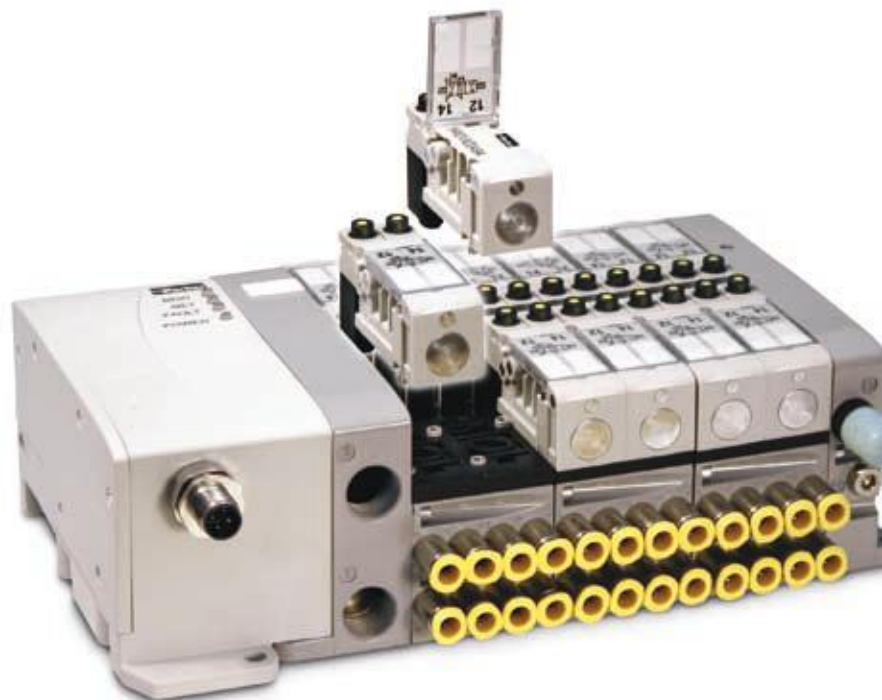




aerospace  
climate control  
electromechanical  
filtration  
fluid & gas handling  
hydraulics  
**pneumatics**  
process control  
sealing & shielding



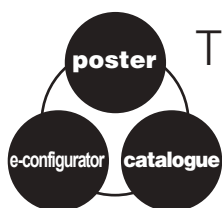
# Isys Micro

Plug-in valve island

PDE2597TCUK-ev February 2009



ENGINEERING YOUR SUCCESS.



## The machine designer Isys Micro workshop

Valves are the centre of electro-pneumatic automation. They are now designed into compact islands that are easily configured to each application.

For full efficiency in this enhanced automation practice, machine designers are helped by 3 complementary design tools :

- 1 - The Isys Micro valve island **e-configurator** and **3D models** are available on website:  
**<http://www.parker.com/pneu/isysmicro>**
- 2 - The Isys-Micro functional **poster**
- 3 - This **catalogue**, which includes technical data and ordering guide



### Important !

Before carrying out any service work, ensure that the valve and manifold have been vented. Remove the primary supply air hose to ensure total disconnection of the air supply before dismantling valves or blank connection blocks.



### NB !

All technical data in this catalogue is typical only.  
The air quality is decisive for the valve life:  
see ISO 8573.



### WARNING

FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS AND/OR SYSTEMS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.

This document and other information from Parker Hannifin Corporation, its subsidiaries and authorized distributors provide product and/or system options for further investigation by users having technical expertise. It is important that you analyze all aspects of your application and review the information concerning the product or system in the current product catalog. Due to the variety of operating conditions and applications for these products or systems, the user, through its own analysis and testing, is solely responsible for making the final selection of the products and systems and assuring that all performance, safety and warning requirements of the application are met. The products described herein, including without limitation, product features, specifications, designs, availability and pricing, are subject to change by Parker Hannifin Corporation and its subsidiaries at any time without notice.

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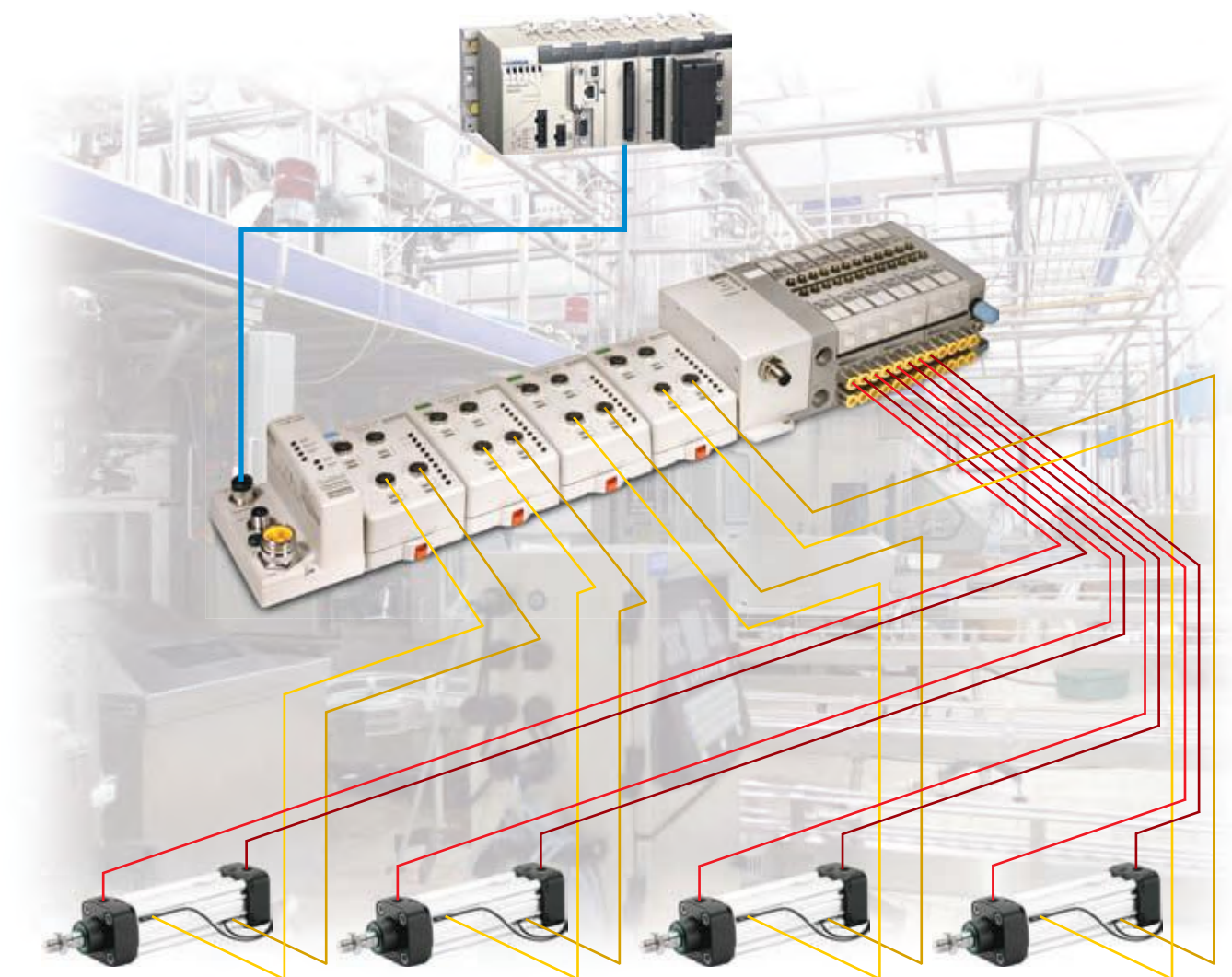
### **Dimensions**

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## Valve Islands for centralized application

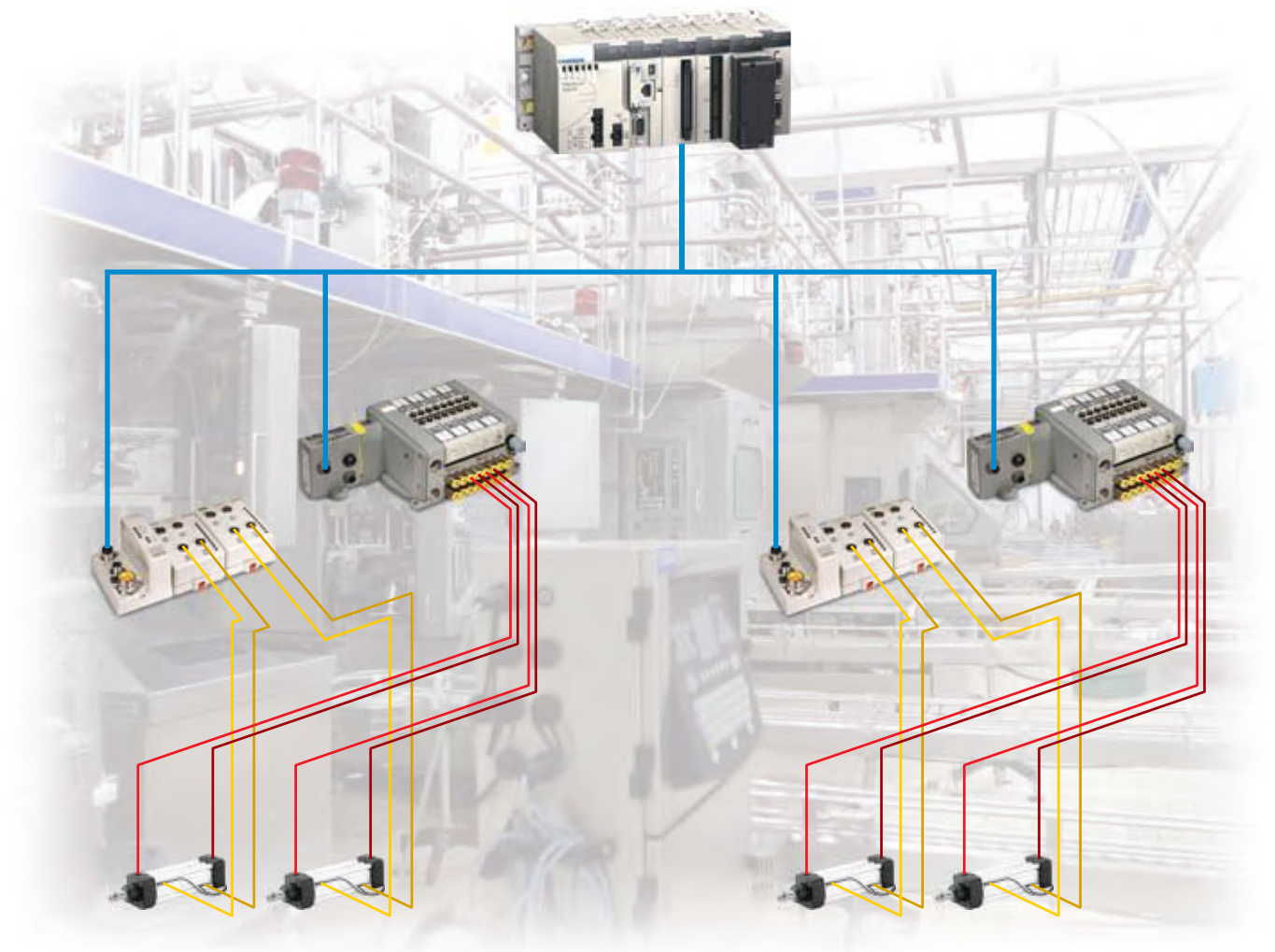


### Valve islands for centralized applications

Depending upon the machine configuration and design, all of the pneumatic actuators may be controlled from a centralized control panel complete with all the necessary pneumatic valves. The control valves would normally be grouped together into a 'valve island' enabling the solenoids to be eclectically interconnected and in turn linked to a PLC via an industrial network. In this configuration all the solenoids can be connected to either remote devices positioned around the machine or back to the centralized panel and signals transmitted to the PLC via the valve island and industrial network. Other digital or analogue I/O can be connected if required.



## Valve Islands for decentralized application



### Valve islands for decentralized applications

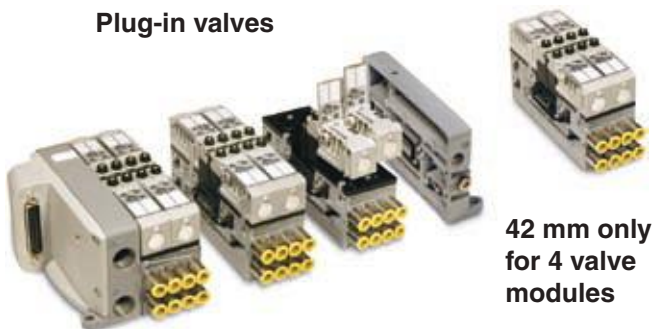
On larger machines where pneumatic actuators are distributed around the machine, a better solution may be to position smaller 'valve islands' closer to groups of actuators. This enables shorter runs of pneumatic tubing and can result in reduced air consumption and improved cycle times. Other digital or analogue I/O can be connected to the remote devices or directly to the PLC. All devices can be connected to the PLC using traditional wiring, multi-pole connection or an industrial fieldbus network.

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



## Solenoid operated Valve fitted with 24 VDC solenoids

### Plug-in valves



**42 mm only  
for 4 valve  
modules**

- Up to **8 pneumatic functions** on a **42 mm width** metal sub-base manifold.
- 4 valves modules **back to back** mounted for a compact design.
- Optimized flow with 6 mm OD tube allows 0,5 m/s speed on a 50 mm diameter cylinder with 1/4 fittings.

Optimized flow for a 6 mm OD tube

$Q_n = 282 \text{ NI/mn}$

$Q_{max} = 510 \text{ NI/mn}$

### Side ported manifold design



- Manifold with common ducts for ports 1, 3 and 5, outlet port 2 and 4, and supply port for 12 and 14 are available side or bottom ported.

### Bottom ported manifold design



- Mounting in an enclosure is easy with the bottom ported design.

### An easy-man-machine dialogue

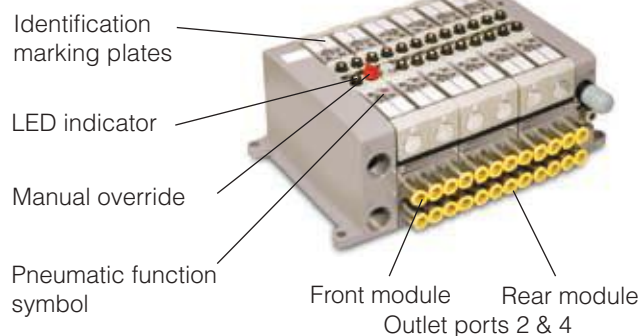
#### • Multifunction manual override

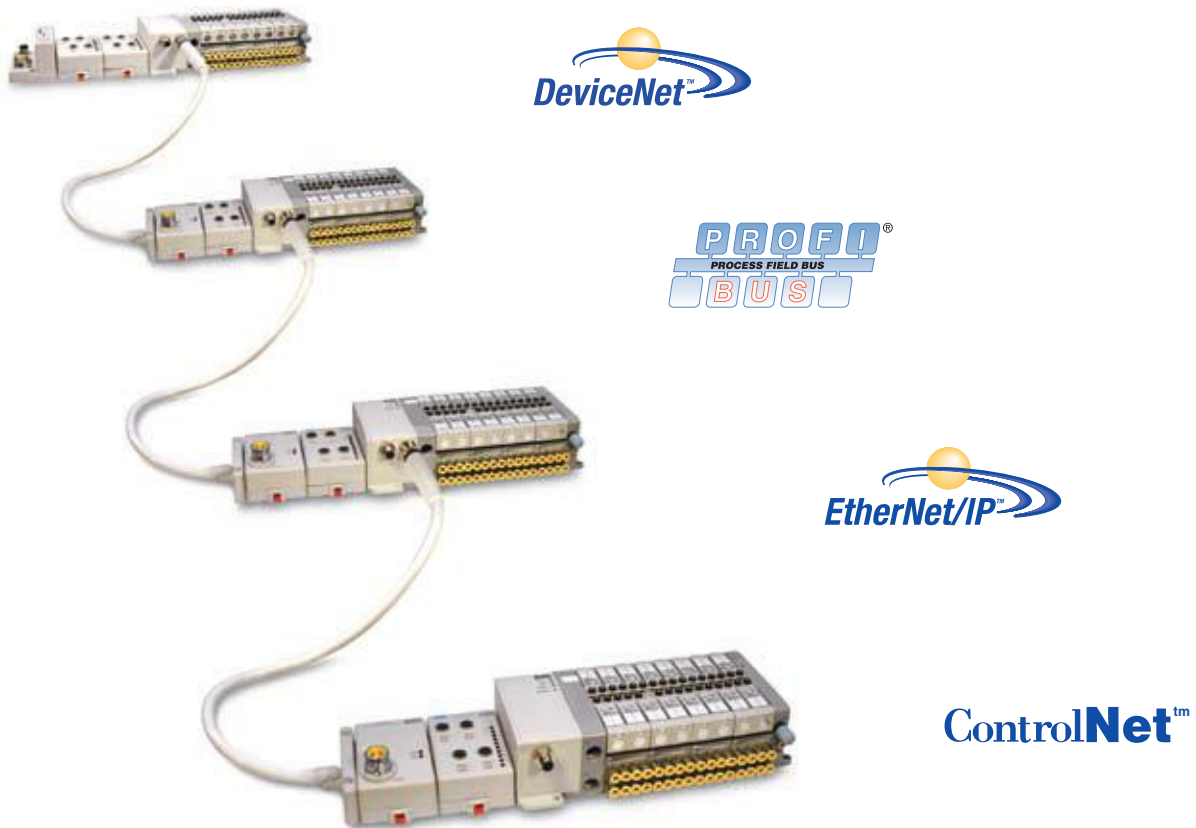
Standard non-locking manual overrides can be easily changed to locking or blocked with accessories available with valves.

#### • Customer identification

Have your own identification on the product protected with a transparent flip-up cover.

### A quick visual diagnostic face



**Isysnet : A centralized Fieldbus and Industrial Ethernet system****Integrated Solution**

- A complete Fieldbus and Industrial Ethernet communication offering for all Isys Micro range.
- Extremely fast I/O backplane uses change-of-state (COS) connections to maximise performance.
- UL, C-UL and CE certifications (as marked).

**Modularity**

- Ease of module replacement with unique latching mechanisms eliminating the need for screws.
- Auto Device Replacement allows OEMs to add I/O modules without making changes to the control software.
- Built-in panel grounding.
- Electronic and mechanical keying prevents users from placing I/O modules in the wrong sequence.

**Communication Modules**

- A Communication Module supports up to 63 I/O modules and up to 256 Inputs and 256 Outputs.

**I/O Modules**

- Accepts signals from sensors, photo eyes, limits and other field input devices.
- Provides signals to remotely operating solenoid valves and other field operating output devices.
- Choice of digital, analogue, high watt I/O Modules.
- Choose from a broad range of colour coded I/O types with connector choices of M8, M12 or M23.
- Built-in miswiring, short circuit, open circuit detection with electronic feedback.



### Flexible in use

The Isys 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.

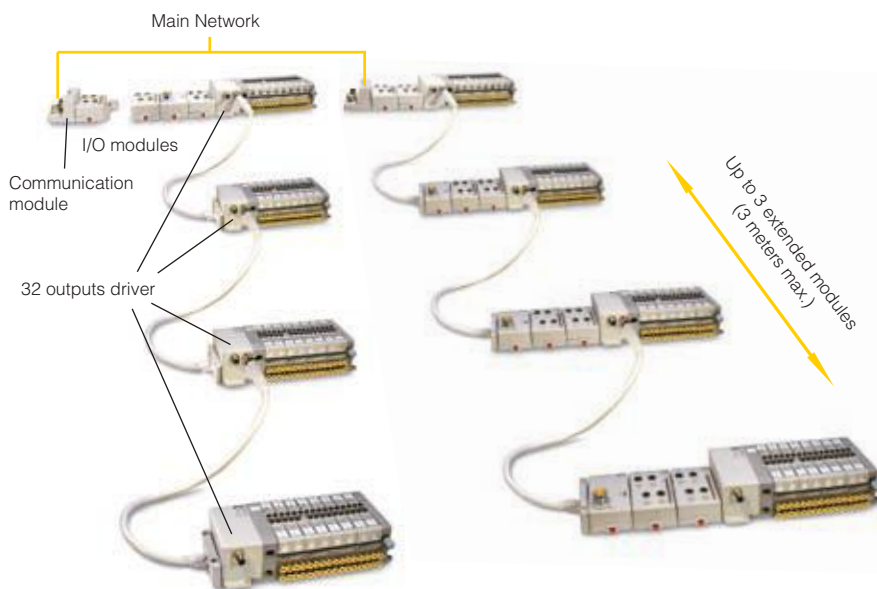
From a centralized application high complexity level to a basic configuration, with industrial communication or traditional multi-connection, an Isys Micro valve island can be designed.

## 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 Isys Micro valve islands to drive up to 512 I/O, including up to 128 solenoids split 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.



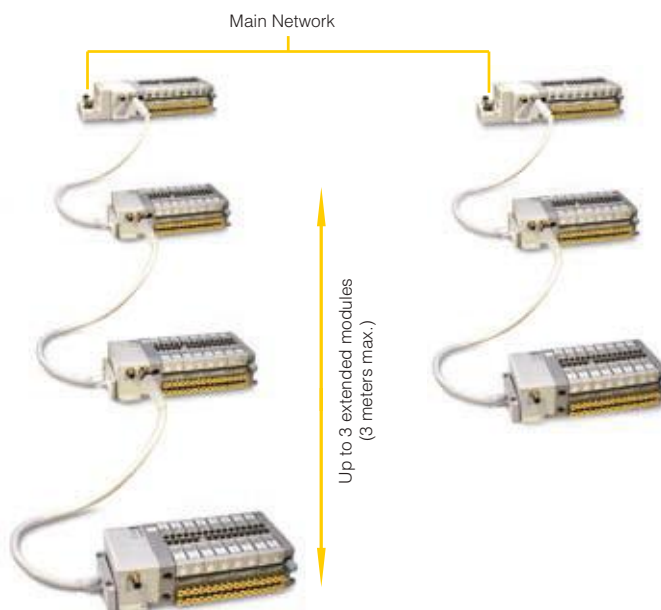
## Up to 128 solenoid valves configuration

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 equipped with a "bus extension" M12 connector, excepted for the last extended island.

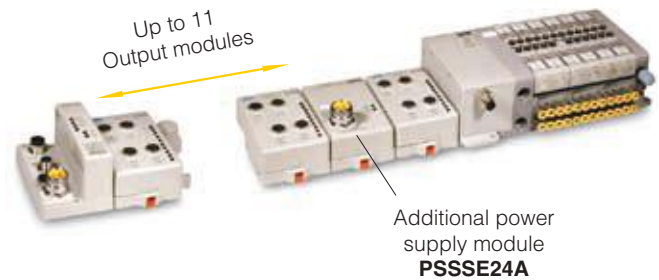
The 32 output driver modules need to be equipped with a M12 solenoids power supply connector.





## Up to 256 electrical outputs including 32 solenoid valves

Communication modules include a main 24 VDC power supply for the Bus and up to 11 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 energised at the same time.

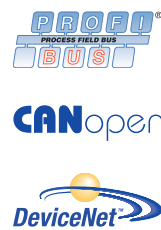


## Island for fieldbus communication in decentralized application

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 equipped with a bus communication head module adaptor.

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

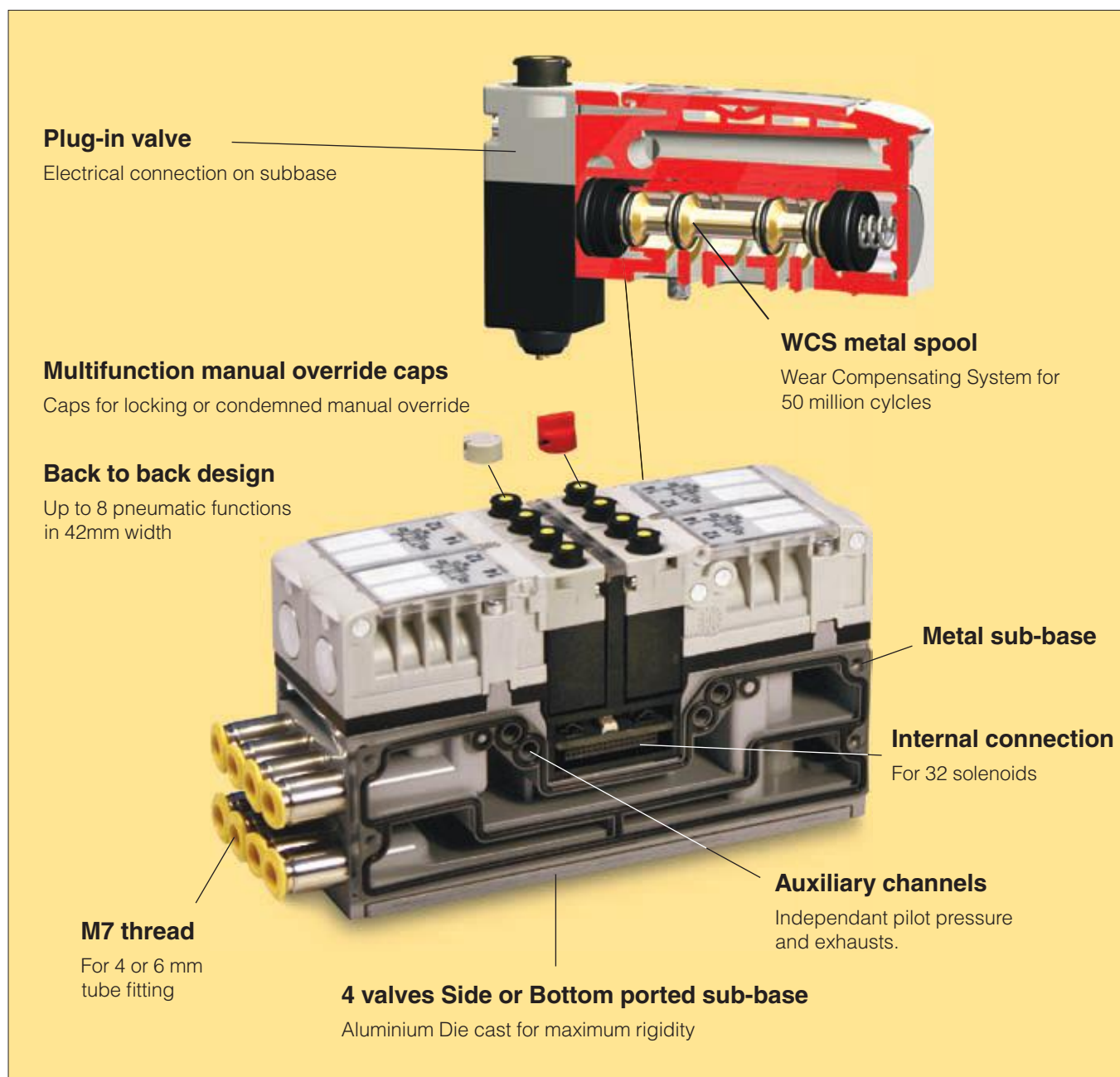


## Island with multi-pole connection

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

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





## Material Specification

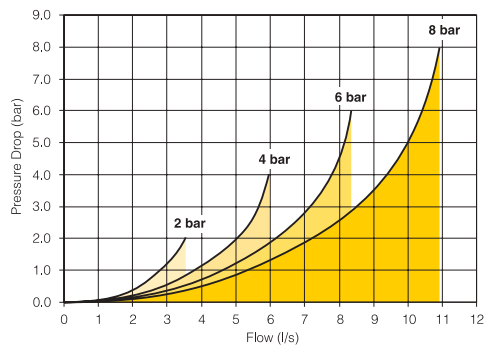
|                         |                                 |
|-------------------------|---------------------------------|
| Valve spool :           | Brass                           |
| Valve spool enclosure : | Brass                           |
| Dynamic seals :         | Nitrile                         |
| Valve body :            | Polyamide reinforced fibreglass |
| Seals :                 | Nitrile                         |
| Springs :               | Stainless steel                 |
| Top cover :             | Polyester                       |
| Subbase - End plates :  | Painted aluminium               |

## Certification

|                           |                            |
|---------------------------|----------------------------|
| EMC / CE mark. :          | According to EN 61 000-6-2 |
| Dust & water protection : | IP65 according to EN 60529 |

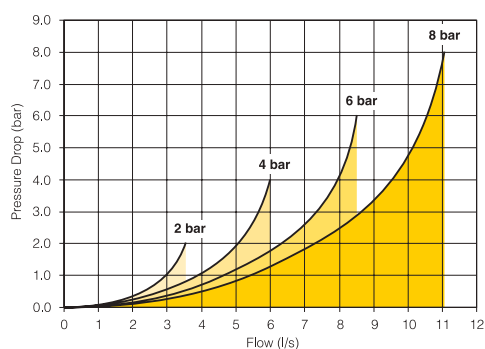
## Flow Characteristics

### Dual 3/2



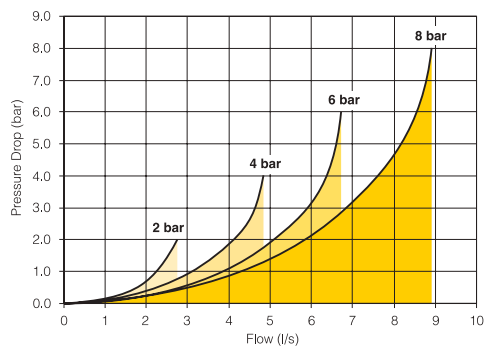
|                            |                                                                    |
|----------------------------|--------------------------------------------------------------------|
| Operating pressure :       | 2,7 to 8,3 bar                                                     |
| 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 NI/s x bar<br>b = 0,13<br>Qn = 4,6 NI/s<br>Qmax = 8,4 NI/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. 15ms<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 NI/s x bar<br>b = 0,13<br>Qn = 4,7 NI/s<br>Qmax = 8,5 NI/s |

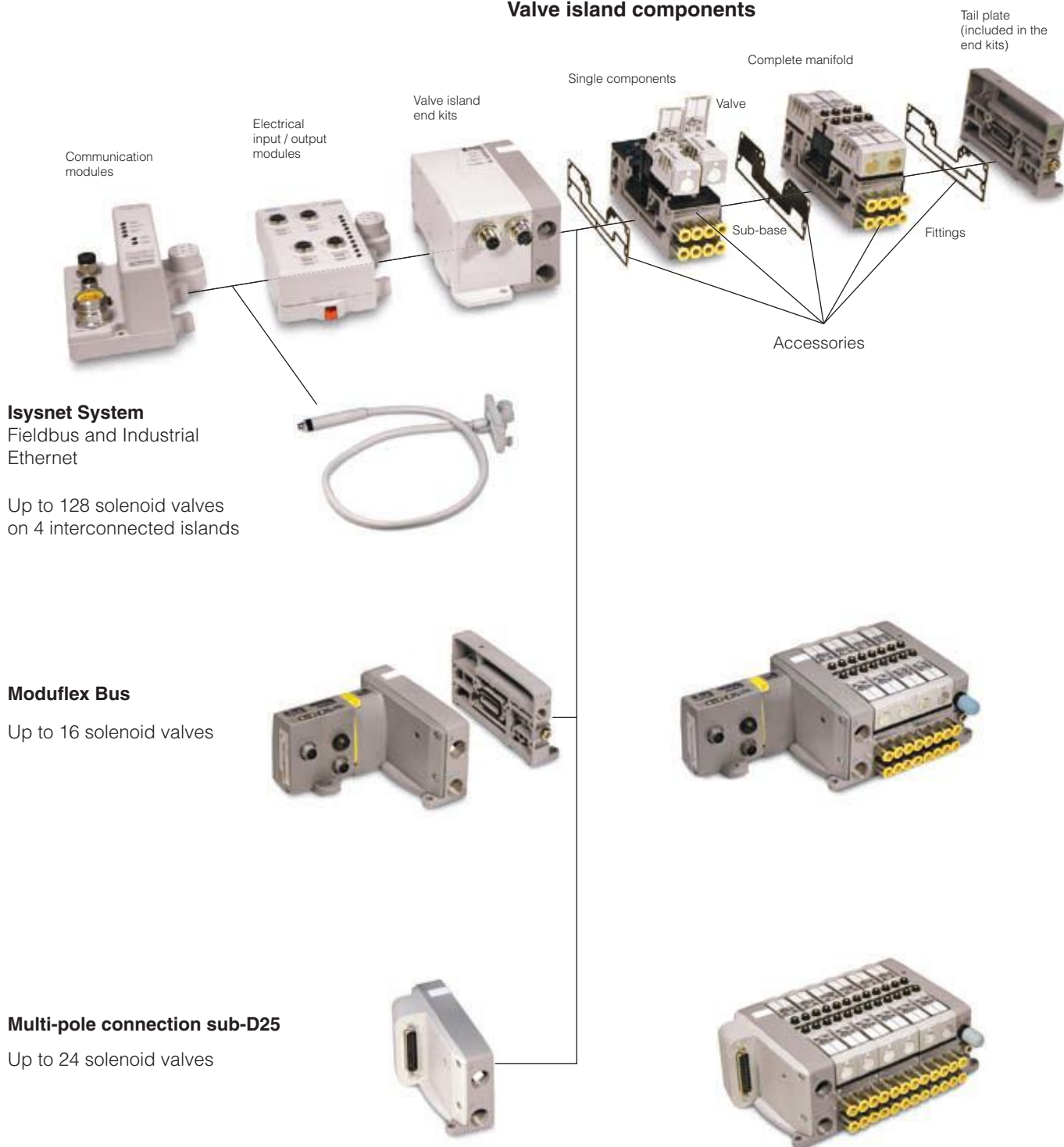
### 5/3 closed center



|                           |                                                                  |
|---------------------------|------------------------------------------------------------------|
| 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 NI/s x bar<br>b = 0,14<br>Qn = 3,8 NI/s<br>Qmax = 6,7 NI/s |

## Characteristics

|                       |                                                                                                                                                     |                        |                                                |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|------------------------------------------------|
| Fluid :               | Air or inert gas<br>Filtered 40 µ<br>Class 5 (according to ISO 8573-1)<br><br>Dry class 4 (according to ISO 8573-1)<br>Non-lubricated or lubricated | Operating pressure :   | -0.9 to 10 bar<br>with external pressure 6 bar |
| Storage temperature : | -40 °C to + 70 °C                                                                                                                                   | Piloting pressure :    | 2.7 to 8.3 bar, (6 for 10 bar operating)       |
| Working temperature   | -15 °C to + 50°C                                                                                                                                    | Exhaust collection :   | Independant exhaust collection                 |
| Vibration :           | according to IEC 68-2-6<br>2G to 150 Hz                                                                                                             | Rated coil voltage :   | 24 VDC -15 % / +10 %                           |
| Shock :               | according to IEC 68-2-27<br>15G 11 ms                                                                                                               | Electrical connection: | Not polarised                                  |
|                       |                                                                                                                                                     | Coil insulation :      | Class B                                        |
|                       |                                                                                                                                                     | Power consumption :    | 1 W (42 mA) with LED                           |
|                       |                                                                                                                                                     | Duty factor :          | 100 % at 20°C                                  |

**Build your device configuration****Valve island components**



## Valve island components

### Manifold components:

Pages 14 & 15



Valve



Sub-base



Complete manifold

### Fittings and accessories:

Pages 16 & 17



Fittings



Multi-pressure manifold seals

## Isysnet components

### Valve island end kits:

Pages 18 & 19



32 outputs driver

### Fieldbus & Industrial Ethernet modules, I/O modules and accessories:

Pages 20 & 21



FieldBus & Industrial Ethernet modules



Bus extender



I/O modules



Accessories

## Moduflex Bus components

### Valve island end kits, Fieldbus modules and accessories:

Pages 22 & 23



Fieldbus module



Fieldbus adaptor



Accessories

## Multi-pole connection components

### Sub-D25 ends kit and cables:

Pages 24 & 25



Sub-D25 ends kit



Cables

## Valve ordering chart



**H M E V X 2 0 4 9 A**

| Pneumatic function |                                     | Manual override |                                      |
|--------------------|-------------------------------------|-----------------|--------------------------------------|
| <b>E</b>           | 5/2 Single solenoid - Spring return | <b>0</b>        | None, No solenoid *                  |
| <b>2</b>           | 5/2 Double solenoid                 | <b>2</b>        | Non locking, Flush, Multi-functional |
| <b>5</b>           | 5/3 All ports blocked (APB)         |                 |                                      |
| <b>N</b>           | Double 3/2 NC                       |                 |                                      |
| <b>P</b>           | Double 3/2 NO                       |                 |                                      |
| <b>Q</b>           | Double 3/2 NC + NO                  |                 |                                      |

| Solenoid pilot |                     |
|----------------|---------------------|
| <b>49</b>      | None, No solenoid * |
| <b>XX</b>      | No solenoid pilot * |

| Blanking plate / Pressure module |                 |
|----------------------------------|-----------------|
| <b>B</b>                         | Blanking plate  |
| <b>C</b>                         | Pressure module |

\* Only available with B & C

## Manifold ordering chart (without valve module and fitting)



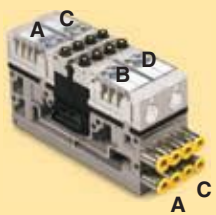
**P S M 2 1 J A P**

| Subbase design |               | Thread type |
|----------------|---------------|-------------|
| <b>J</b>       | Side ported   | M7          |
| <b>M</b>       | Bottom ported | M7          |

| Electronic circuit board |                |
|--------------------------|----------------|
| <b>J</b>                 | Single address |
| <b>M</b>                 | Double address |

Single solenoid sub-base are only used with 5/2 single solenoid for saving the address

## Manifold ordering chart (complete with valve module and/or fittings)



**1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16**

**P S M 3 1 J A P N 6 N 6 2 4 5 6**

| Subbase design |               | Thread type |
|----------------|---------------|-------------|
| <b>J</b>       | Side ported   | M7          |
| <b>M</b>       | Bottom ported | M7          |

| Electronic circuit board |                |
|--------------------------|----------------|
| <b>J</b>                 | Single address |
| <b>M</b>                 | Double address |

| Pneumatic function |                                      |
|--------------------|--------------------------------------|
| <b>X</b>           | without valve module - fittings only |
| <b>E</b>           | 5/2 Single solenoid - Spring return  |
| <b>2*</b>          | 5/2 Double solenoid                  |
| <b>5*</b>          | 5/3 All ports blocked (APB)          |
| <b>N*</b>          | Double 3/2 NC                        |
| <b>P*</b>          | Double 3/2 NO                        |
| <b>Q*</b>          | Double 3/2 NC + NO                   |

| Straight fittings |                           |
|-------------------|---------------------------|
| <b>0</b>          | Without fittings          |
| <b>4</b>          | 4 mm OD                   |
| <b>6</b>          | 6 mm OD                   |
| <b>7</b>          | 1/4" OD                   |
| <b>P</b>          | Plug (for blanking plate) |

| Pressure module / Blanking plate |                 |
|----------------------------------|-----------------|
| <b>C</b>                         | Pressure module |
| <b>E</b>                         | Blanking plate  |

\* Double address electronic circuit board (type M) required

## Solenoid operated valve fitted with 24 VDC solenoid

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

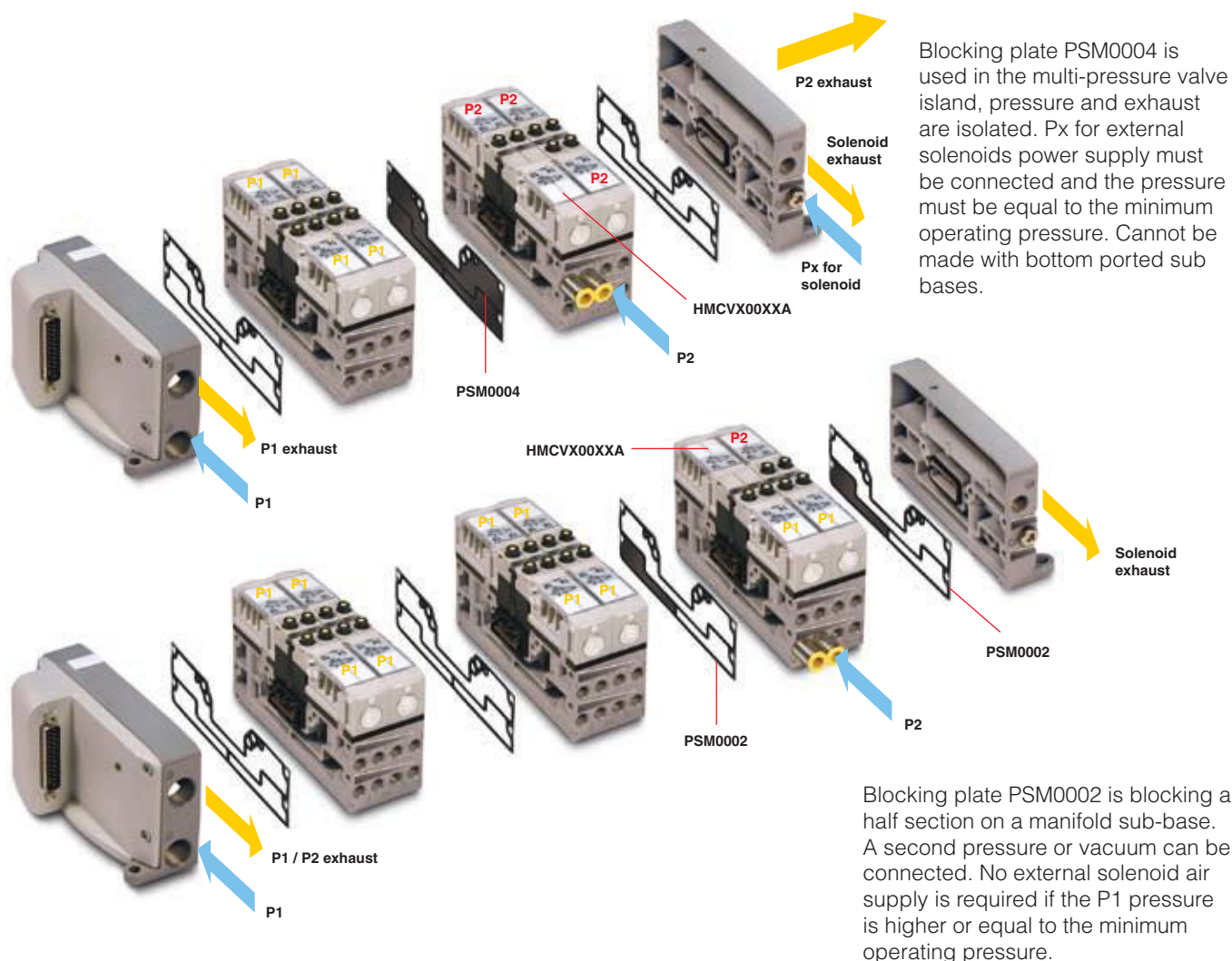
## Metal manifold for 4 valves

|                                                                                                          | Description                                   | Port size | Weight (g) | Order code      |
|----------------------------------------------------------------------------------------------------------|-----------------------------------------------|-----------|------------|-----------------|
|  <p>Side ported</p>   | 4 position manifold single electrical address | M7 thread | 33.2       | <b>PSM21JAP</b> |
|                                                                                                          | 4 position manifold double electrical address | M7 thread | 33.2       | <b>PSM21MAP</b> |
|  <p>Bottom ported</p> | 4 position manifold single electrical address | M7 thread | 31.0       | <b>PSM22JAP</b> |
|                                                                                                          | 4 position manifold double electrical address | M7 thread | 31.0       | <b>PSM22MAP</b> |

## Complete manifold without fitting

|                                                                                                          | Symbol                                                                              | Description                             | Port size | Weight (g) | Order code              |
|----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------|-----------|------------|-------------------------|
|  <p>Side ported</p>   |  | 4 x Double 3/2 NC + NC                  | M7 thread | 57.2       | <b>PSM31MAPN0N0N0N0</b> |
|                                                                                                          |  | 4 x 5/2 single solenoid - Spring return | M7 thread | 52.8       | <b>PSM31JAPE0E0E0E0</b> |
|                                                                                                          |  | 4 x 5/2 double solenoid                 | M7 thread | 57.2       | <b>PSM31MAP20202020</b> |
|                                                                                                          |  | 4 x 5/3 all ports blocked (APB)         | M7 thread | 59.2       | <b>PSM31MAP50505050</b> |
|  <p>Bottom ported</p> |  | 4 x Double 3/2 NC + NC                  | M7 thread | 55.0       | <b>PSM32MAPN0N0N0N0</b> |
|                                                                                                          |  | 4 x 5/2 single solenoid - Spring return | M7 thread | 50.6       | <b>PSM32JAPE0E0E0E0</b> |
|                                                                                                          |  | 4 x 5/2 double solenoid                 | M7 thread | 55.0       | <b>PSM32MAP20202020</b> |
|                                                                                                          |  | 4 x 5/3 all ports blocked (APB)         | M7 thread | 57.0       | <b>PSM32MAP50505050</b> |

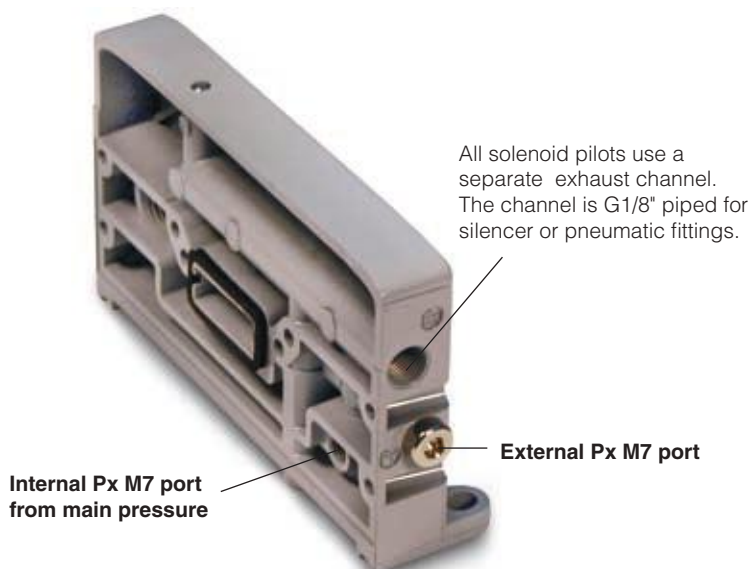
## Multi-pressure Manifold with blocking plates



## Auxiliary pressure for solenoid pilots and Exhaust channel

All end plates are delivered with an internal solenoid power supply version and can be easily changed to external solenoid power supply by simply moving a plug, if the main pressure is below the minimum operating pressure.

Auxiliary pressure supply port for solenoid pilots: This is an M7 port. The internal pilot supply end plate version includes an M7 plug. To change from internal supply to external supply mode, remove the plug and screw it into the internal Px port.





## Pneumatic accessories

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

## Multi-pressure inter-manifold seal plate

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

## Spare parts

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

## Isysnet 32 outputs driver ends module ordering chart



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

**ISYSNET 32 Outputs driver ends module**

|           | 24V DC power supply connector | Extender bus connector |
|-----------|-------------------------------|------------------------|
| <b>L6</b> | NO                            | NO                     |
| <b>M5</b> | NO                            | YES                    |
| <b>M6</b> | YES                           | NO                     |
| <b>M7</b> | YES                           | YES                    |

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

## 32 outputs driver selection guide :

## L6 type

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



Up to 32 solenoid valves /island

## M6 type

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



Up to 32 solenoid valves /island

## M7type

- Isysnet 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 /island

## M5 type

- Isysnet 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

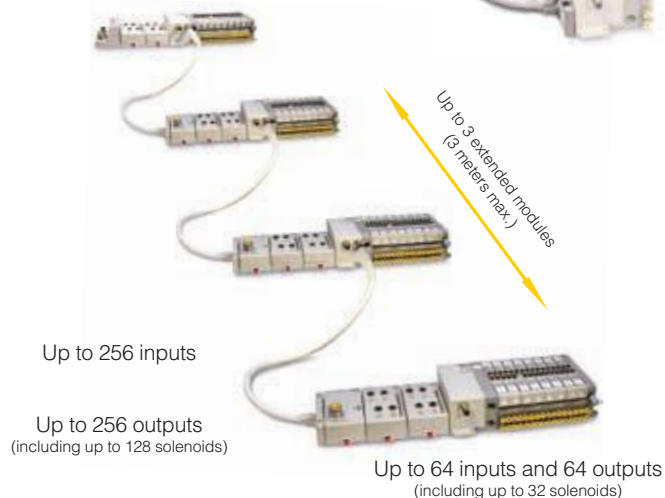


Up to 32 solenoid valves /island

## Isysnet 32 bus extender

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

Every extended island has to be separately power supplied.



## Technical data

## Isysnet 32 Outputs driver module

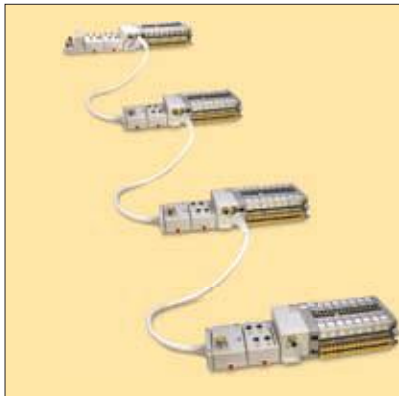
|                              |                                |
|------------------------------|--------------------------------|
| Number of Outputs :          | 32                             |
| Operating Voltage Range :    | 20.4 to 26.4 VDC               |
| Output current rating Nom. : | 50 mA per channel (100 mA Max) |
|                              | 3 .2A per module               |
| Pointbus current :           | 200 mA                         |
| Working temperature :        | -15°C to 50°C                  |
| Dust and water protection :  | IP65                           |

## Isysnet 32 outputs driver modules

|                                                                                   | Subbase design | Thread type | 24 VDC power supply | Extender bus | Weight (g) | Order code      |
|-----------------------------------------------------------------------------------|----------------|-------------|---------------------|--------------|------------|-----------------|
|  | Side ported    | 3/8" BSPP   | NO                  | NO           | 40         | <b>PSML61AP</b> |
|                                                                                   | Bottom ported  | 3/8" BSPP   | NO                  | NO           | 40         | <b>PSML62AP</b> |
|                                                                                   | Side ported    | 3/8" BSPP   | YES                 | NO           | 40         | <b>PSMM61AP</b> |
|                                                                                   | Bottom ported  | 3/8" BSPP   | YES                 | NO           | 40         | <b>PSMM62AP</b> |
|                                                                                   | Side ported    | 3/8" BSPP   | NO                  | YES          | 40         | <b>PSMM51AP</b> |
|                                                                                   | Bottom ported  | 3/8" BSPP   | NO                  | YES          | 40         | <b>PSMM52AP</b> |
|                                                                                   | Side ported    | 3/8" BSPP   | YES                 | YES          | 40         | <b>PSMM71AP</b> |
|                                                                                   | Bottom ported  | 3/8" BSPP   | YES                 | YES          | 40         | <b>PSMM72AP</b> |

## Isysnet bus extender

|                                                                                    | Description                                                                              | Weight (g) | Order code      |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|------------|-----------------|
|  | Head plate<br>1 meter cable / M12 male connector<br>for extended island inter-connection | 38         | <b>PSSVEXT1</b> |



Communication modules :

- Fieldbus
- Industrial Ethernet

Digital and Analogical I/O modules

Expended power supply module

IP67 modules

## Isysnet Communication and I/O modules

### Isysnet Communication modules

Isysnet communication modules are available in :

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



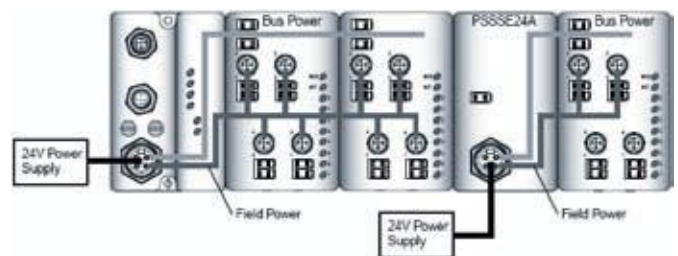
### Digital or Analogical electrical I/O modules

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



## Isysnet Expansion Power Unit

The auxiliary power supports up to 13 I/O modules and 32 output driver with a maximum of 10 A field power. The 24VDC expansion power unit (PSSSE24A) extends the backplane bus power to support up to 13 more I/O modules. Connect additional expansion power units to expand the I/O assembly up to the maximum of 63 I/O modules



## Technical data

### Isysnet Communication modules & Expansion 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 |

### Isysnet Analogue Input modules

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

### Isysnet Analogue Output modules

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

### Isysnet 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          |

### Isysnet Digital Output 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                             |

### Isysnet 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                             |



## Isysnet communication modules

|                                                                                   | Description  | Fieldbus connection | Power supply connector | Weight (g) | Order code        |
|-----------------------------------------------------------------------------------|--------------|---------------------|------------------------|------------|-------------------|
|  | DeviceNet    | M18                 | 7/8"                   | 40         | <b>PSSCDM18PA</b> |
|                                                                                   |              | M12 - A coding      | 7/8"                   | 40         | <b>PSSCDM18PA</b> |
|                                                                                   | Profibus DP  | M12 - B coding      | 7/8"                   | 40         | <b>PSSCDM18PA</b> |
|                                                                                   | Ethernet I/P | M12 - D coding      | 7/8"                   | 40         | <b>PSSCDM18PA</b> |
|                                                                                   | ControlNet   | M12 - D coding      | 7/8"                   | 40         | <b>PSSCDM18PA</b> |

## Isysnet bus extender

|                                                                                   | Description                                                                                  | Weight (g) | Order code      |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|------------|-----------------|
|  | Head plate<br>with 1 metre cable / M12 male connector<br>for extended island interconnection | 48         | <b>PSSVEXT1</b> |

## Isysnet electrical I/O modules

|                                                                                     | Description        | Polarity  | Connector type | Weight (g) | Order code        |
|-------------------------------------------------------------------------------------|--------------------|-----------|----------------|------------|-------------------|
|    | 8 Digital Inputs   | PNP       | 8 x M8         | x          | <b>PSSN8M8A</b>   |
|                                                                                     |                    |           | 4 x M12        | x          | <b>PSSN8M12A</b>  |
|   | 8 Digital Outputs  | NPN       | 8 x M8         | x          | <b>PSSP8M8A</b>   |
|                                                                                     |                    |           | 4 x M12        | x          | <b>PSSP8M12A</b>  |
|  | 8 Digital Outputs  | PNP       | 8 x M8         | x          | <b>PSST8M8A</b>   |
|                                                                                     |                    |           | 4 x M12        | x          | <b>PSST8M12A</b>  |
|                                                                                     |                    |           | 1 x M23        | x          | <b>PSST8M23A</b>  |
|  | 4 Digital Outputs  | Relay     | 4 x M12        | x          | <b>PSSNAVM12A</b> |
|                                                                                     | 2 Analogue Inputs  | 0 - 10 V  | 2 x M12        | x          | <b>PSSNACM12A</b> |
|  | 2 Analogue Outputs | 4 - 20 mA | 2 x M12        | x          | <b>PSSNACM12A</b> |
|                                                                                     |                    | 0 - 10 V  | 2x M12         | x          | <b>PSSTAVM12A</b> |
|                                                                                     |                    | 4 - 20 mA | 2 x M12        | x          | <b>PSSTACM12A</b> |

## Isysnet auxiliary electrical modules

|                                                                                     | Description                 | Weight (g) | Order code      |
|-------------------------------------------------------------------------------------|-----------------------------|------------|-----------------|
|  | Termination module          | 20         | <b>PSSTERM</b>  |
|                                                                                     | 24 VDC expansion power unit | 42         | <b>PSSSE24A</b> |
|                                                                                     | 1 metre cable 24 V DC       | 38         | <b>PSSEXT1</b>  |
|                                                                                     | 3 metre cable 24 V DC       | 76         | <b>PSSEXT3</b>  |

## Isysnet accessories

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

## 16 Outputs Moduflex Bus ends module adaptator



**PSMMC1AP**

| Moduflex 16 Outputs adaptator |                                 |
|-------------------------------|---------------------------------|
| <b>M4</b>                     | Adaptor without bus module      |
| <b>MC</b>                     | Adaptor with CANopen module     |
| <b>MD</b>                     | Adaptor with DeviceNet module   |
| <b>MP</b>                     | Adaptor with Profibus DP module |

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

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

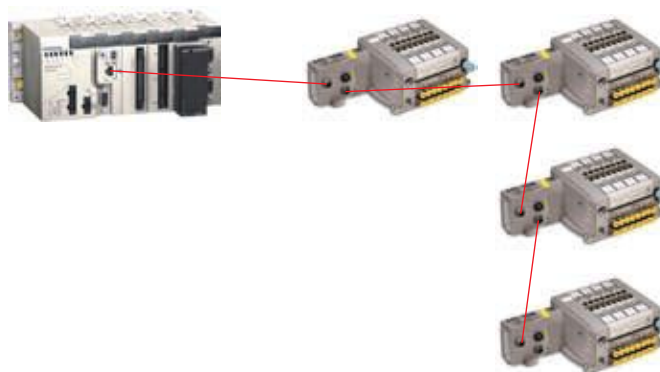
## Moduflex Bus 16 Outputs

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     | 3/8" BSPP   | 25         | <b>PSMMC1AP</b> |
|                                                                                   |                     |              | Bottom ported   | 3/8" BSPP   | 25         | <b>PSMMC2AP</b> |
|                                                                                   | DeviceNet           |              | Side ported     | 3/8" BSPP   | 25         | <b>PSMMD1AP</b> |
|                                                                                   |                     |              | Bottom ported   | 3/8" BSPP   | 25         | <b>PSMMD2AP</b> |
|                                                                                   | Profibus DP         |              | Side ported     | 3/8" BSPP   | 25         | <b>PSMMP1AP</b> |
|                                                                                   |                     |              | Bottom ported   | 3/8" BSPP   | 25         | <b>PSMMP2AP</b> |

Also available, AS-i interface protocol, standard version or extended version (A - B coded). See Moduflex Valve catalogue.

|                                                                                   |                                                 |     |               |           |    |                 |
|-----------------------------------------------------------------------------------|-------------------------------------------------|-----|---------------|-----------|----|-----------------|
|  | Ends module adaptor without Moduflex Bus module | All | Side ported   | 3/8" BSPP | 20 | <b>PSMM41AP</b> |
|                                                                                   |                                                 |     | Bottom ported | 3/8" BSPP | 20 | <b>PSMM42AP</b> |

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

## Decentralized Device bus accessories

| Symbol                                                                                                   | Description                            | Bus type    | Connector                | Weight (g) | Order code        |
|----------------------------------------------------------------------------------------------------------|----------------------------------------|-------------|--------------------------|------------|-------------------|
| <br><b>P8CS0803J</b>  | Power supply female straight connector | All         | M12 - A coding           | 25         | <b>P8CS1205AA</b> |
|                                                                                                          | Line termination                       | DeviceNet   | M12 - A coding           | 25         | <b>P8BPA00MA</b>  |
|                                                                                                          |                                        | CANopen     |                          |            |                   |
|                                                                                                          |                                        | Profibus DP | M12 - B coding           | 25         | <b>P8BPA00MB</b>  |
|                                                                                                          | Bus In female connector                | DeviceNet   | M12 - A coding           | 25         | <b>P8CS1205AA</b> |
|                                                                                                          |                                        | CANopen     |                          |            |                   |
| <br><b>P8CSY1212A</b> | Bus Out male connector                 | DeviceNet   | M12 - A coding           | 25         | <b>P8CS1505BA</b> |
|                                                                                                          |                                        | CANopen     |                          |            |                   |
|                                                                                                          |                                        | Profibus DP | M12 - B coding           | 25         | <b>P8CS1205BB</b> |
|                                                                                                          | Cable quick connect connector          |             | M8                       | 25         | <b>P8CS0803J</b>  |
|                                                                                                          |                                        |             | M12 - A coding           | 25         | <b>P8CS1204J</b>  |
|                                                                                                          | "Y" shape, thread to thread            |             | M12 - 2 x M12 - A coding | 25         | <b>P8CSY1212A</b> |

Multi-connection head module



P

S

M

L

2

1

A

P

Multi-wire connection

L2 Sub-D 25 connector

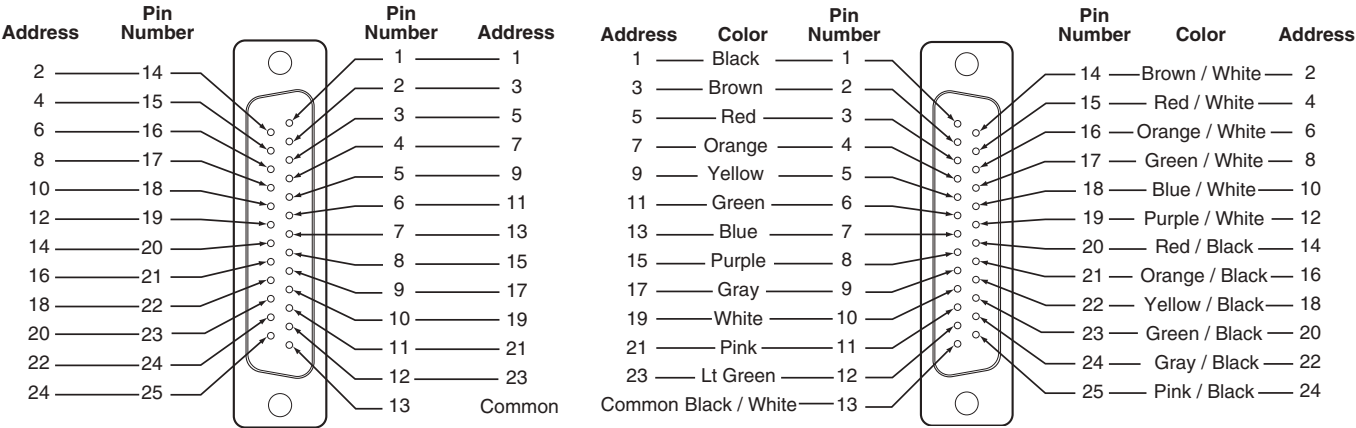
|   | Ported design | Thread type |
|---|---------------|-------------|
| 1 | Side ported   | 3/8" BSPP   |
| 2 | Bottom ported | 3/8" BSPP   |
| 5 | Side ported   | 3/8" NPT    |
| 6 | Bottom ported | 3/8" NPT    |

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                                |
| Dust and water protection :        | IP65 rated with properly assembled IP65 rated cable   |

## Electrical multi-pole end modules

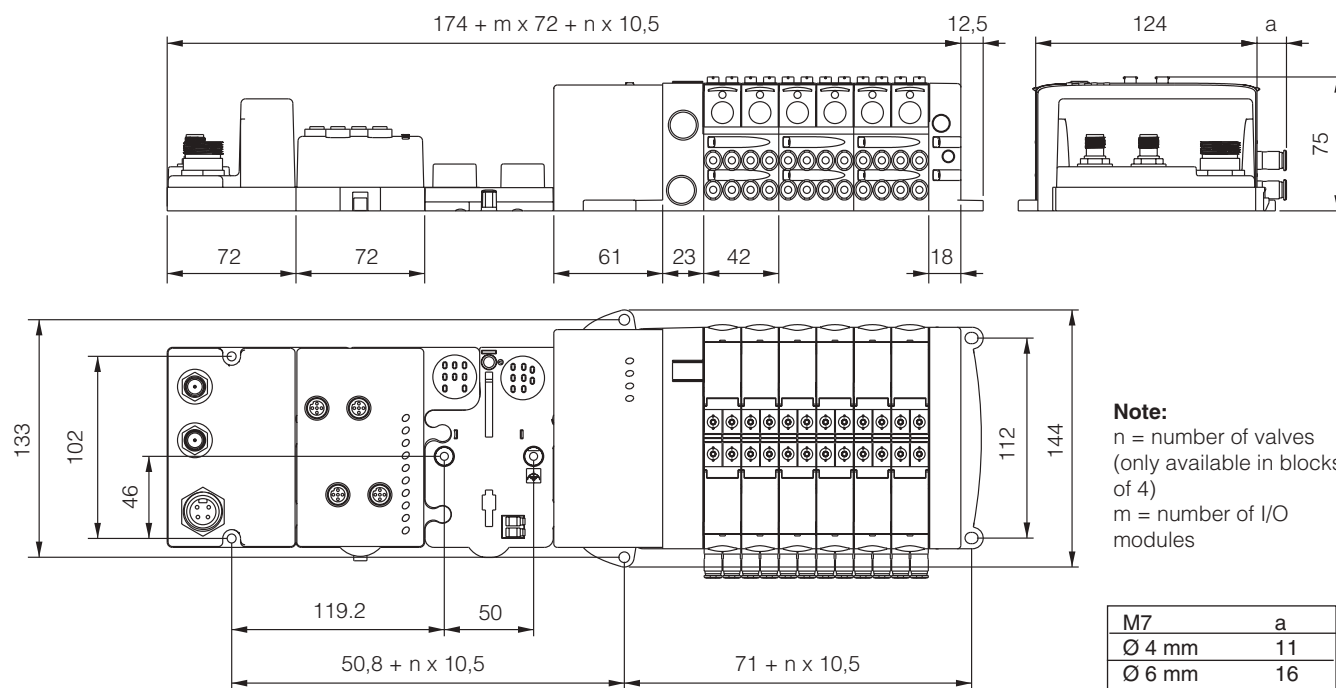
|                                                                                   | Description         | Sub-base design | Thread type | Weight (g) | Order code      |
|-----------------------------------------------------------------------------------|---------------------|-----------------|-------------|------------|-----------------|
|  | Sub-D25 ends module | Side ported     | 3/8" BSPP   | 25         | <b>PSML21AP</b> |
|                                                                                   |                     | Bottom ported   | 3/8" BSPP   | 25         | <b>PSML22AP</b> |

## Electrical accessories

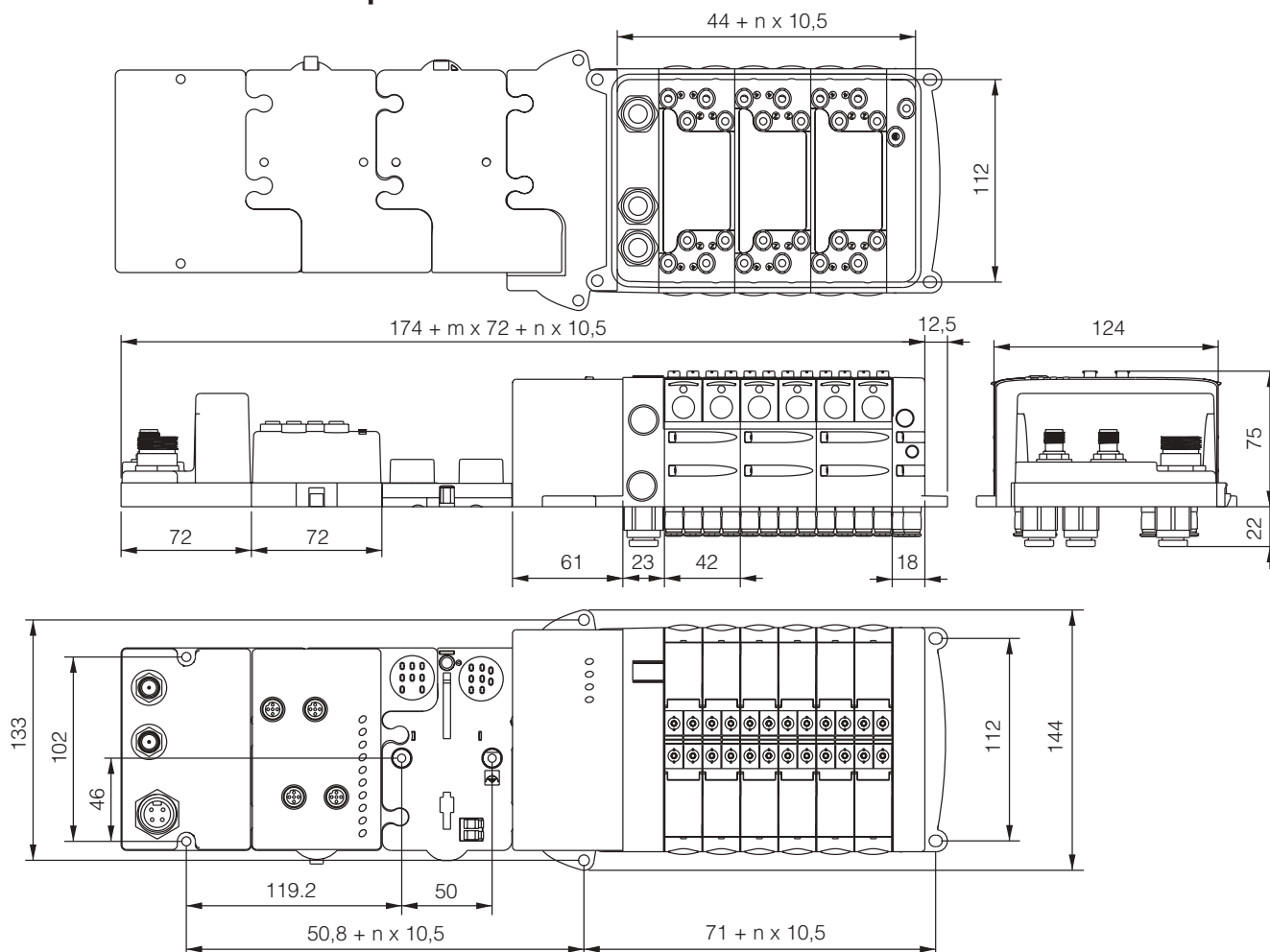
|                                                                                                        | Description                                          | Sub-base design | Weight (g) | Order code        |
|--------------------------------------------------------------------------------------------------------|------------------------------------------------------|-----------------|------------|-------------------|
| <br><b>P8LMH25M3A</b> | Sub-D25 connector IP40 with flying leads multi-cable | 3 m             | 38         | <b>P8LMH25M3A</b> |
|                                                                                                        |                                                      | 9 m             | 78         | <b>P8LMH25M9A</b> |
|                                                                                                        | Sub-D25 connector IP65 with flying leads multi-cable | 9 m             | 79         | <b>P8LMH25B9A</b> |



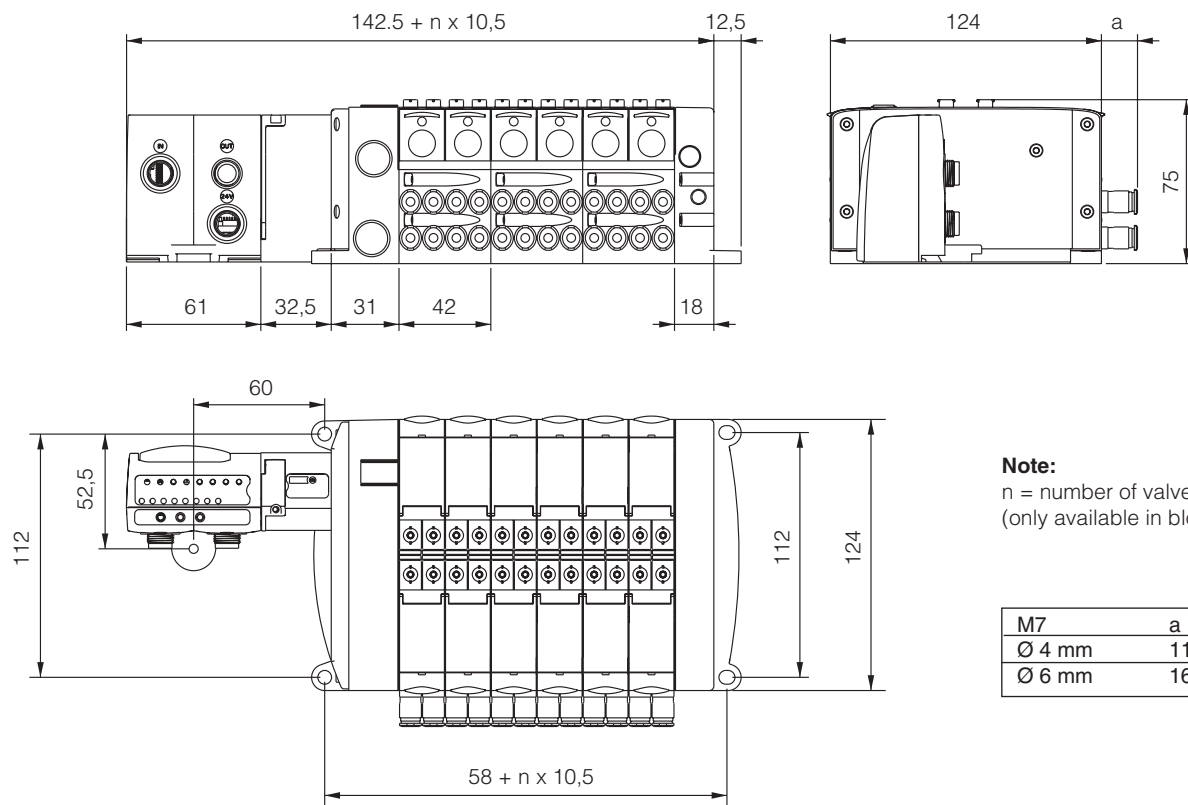
## Centralized bus - Side ported



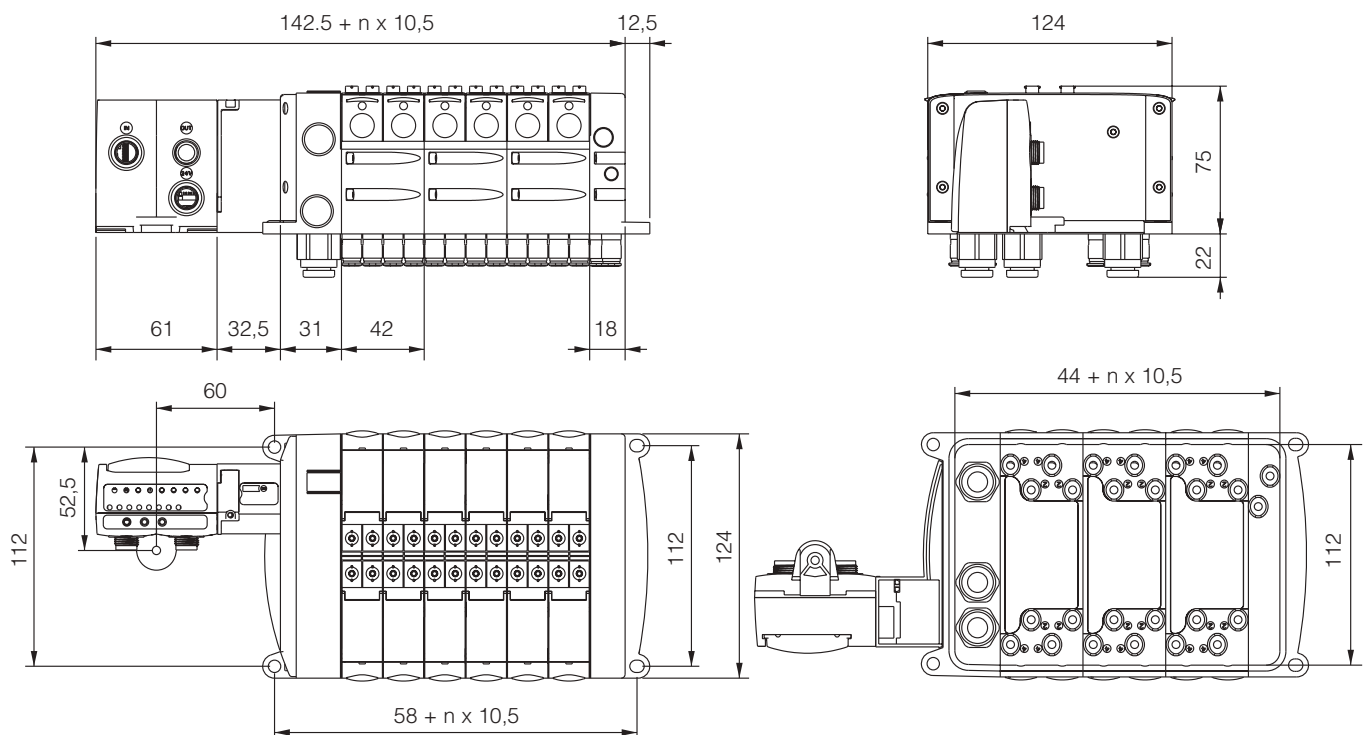
## Centralized bus - Bottom ported



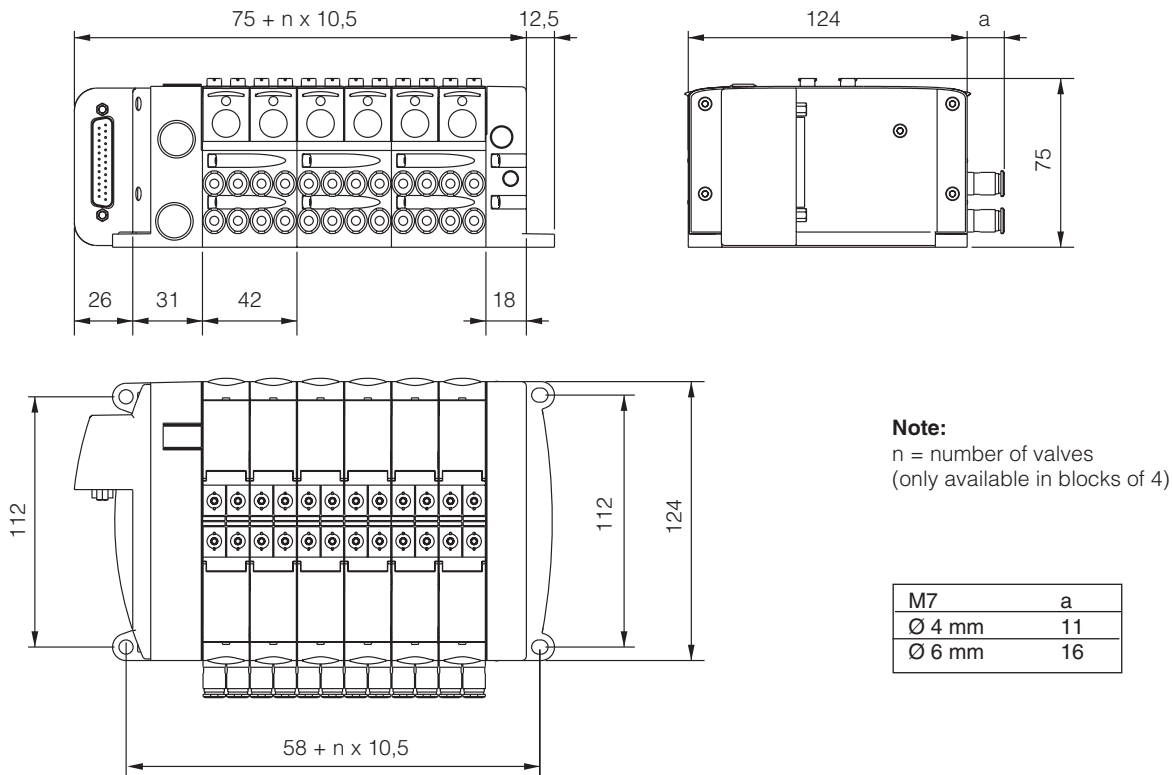
## Fieldbus - Side ported



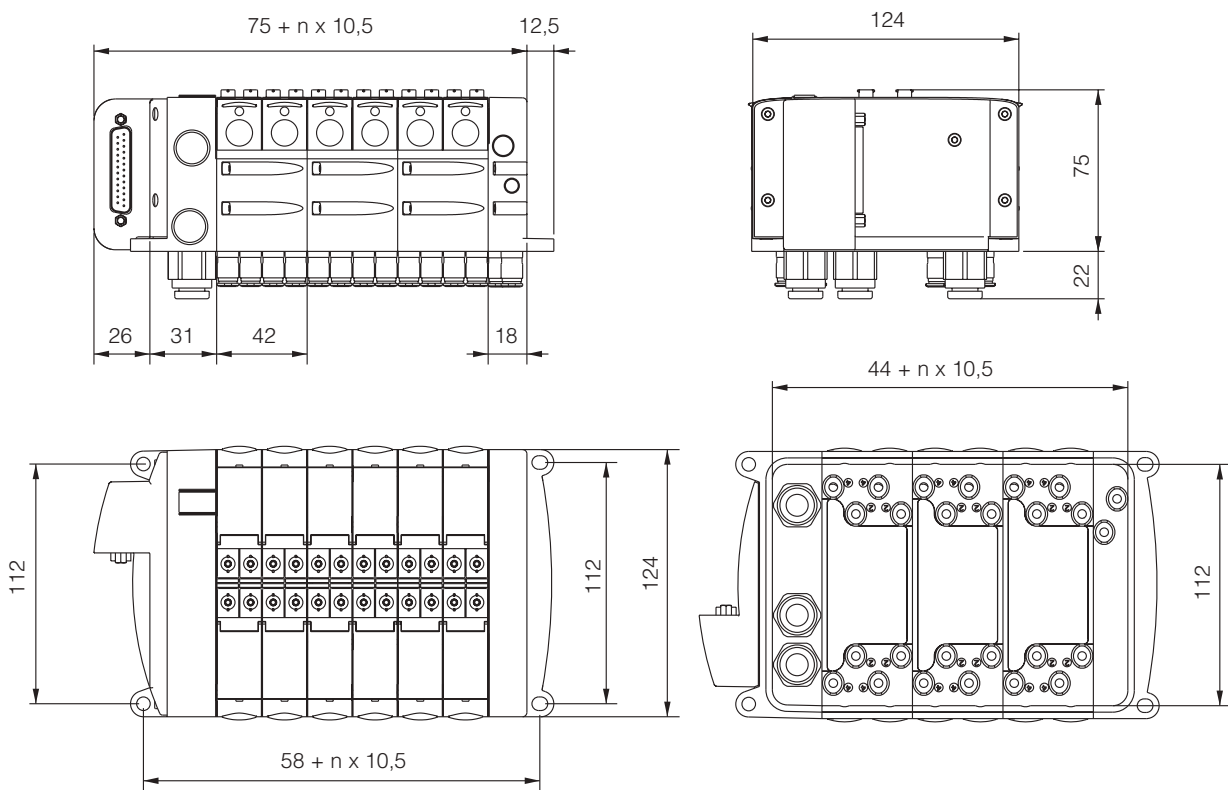
## Fieldbus - Bottom ported

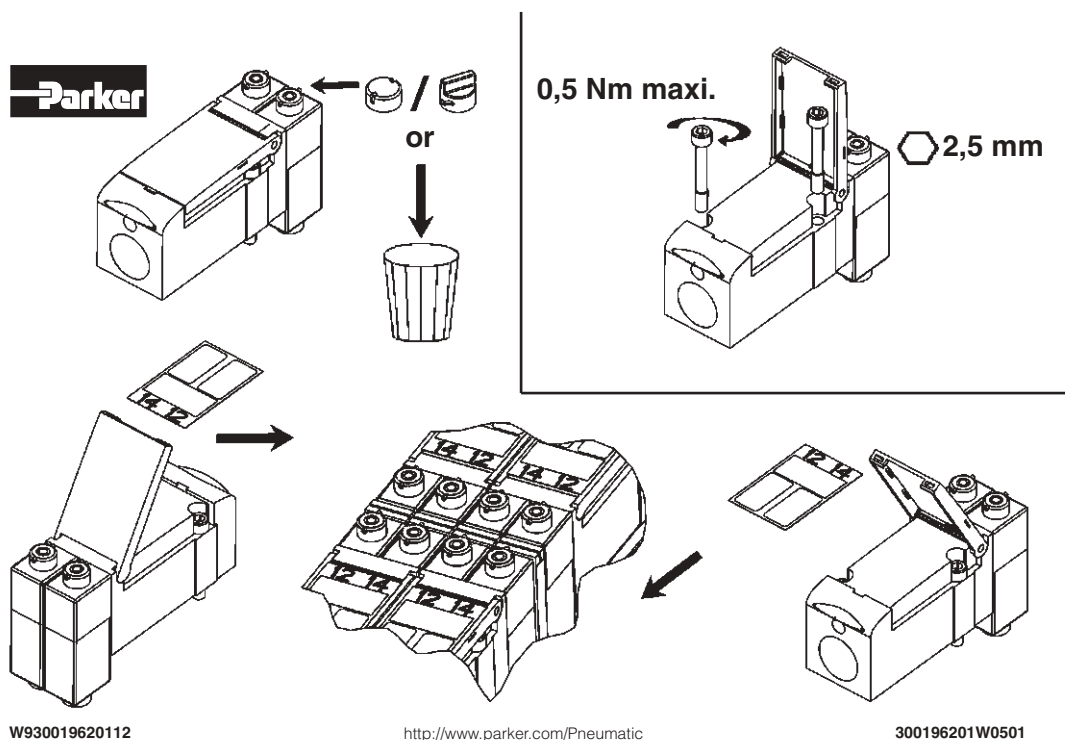


SubD25 - Side ported



SubD25 - Bottom ported





### Isys Micro Installation & Service Instructions Sheet B

**ISSUED: 06 2008**  
**Supersedes: None**

**WARNING:** Failure to follow all precautions, warnings, instructions, and information contained herein, and from the Parker website, may cause death, personal injury, and/or property damage. More detailed information, in several languages, may be obtained from the Parker website:

[www.parker.com](http://www.parker.com) or call 1-800-C PARKER in the USA or  
00 800 27 27 53 74 in Europe.

W930019620112

<http://www.parker.com/Pneumatic>

300196201W05 01

#### GENERAL SAFETY GUIDELINES

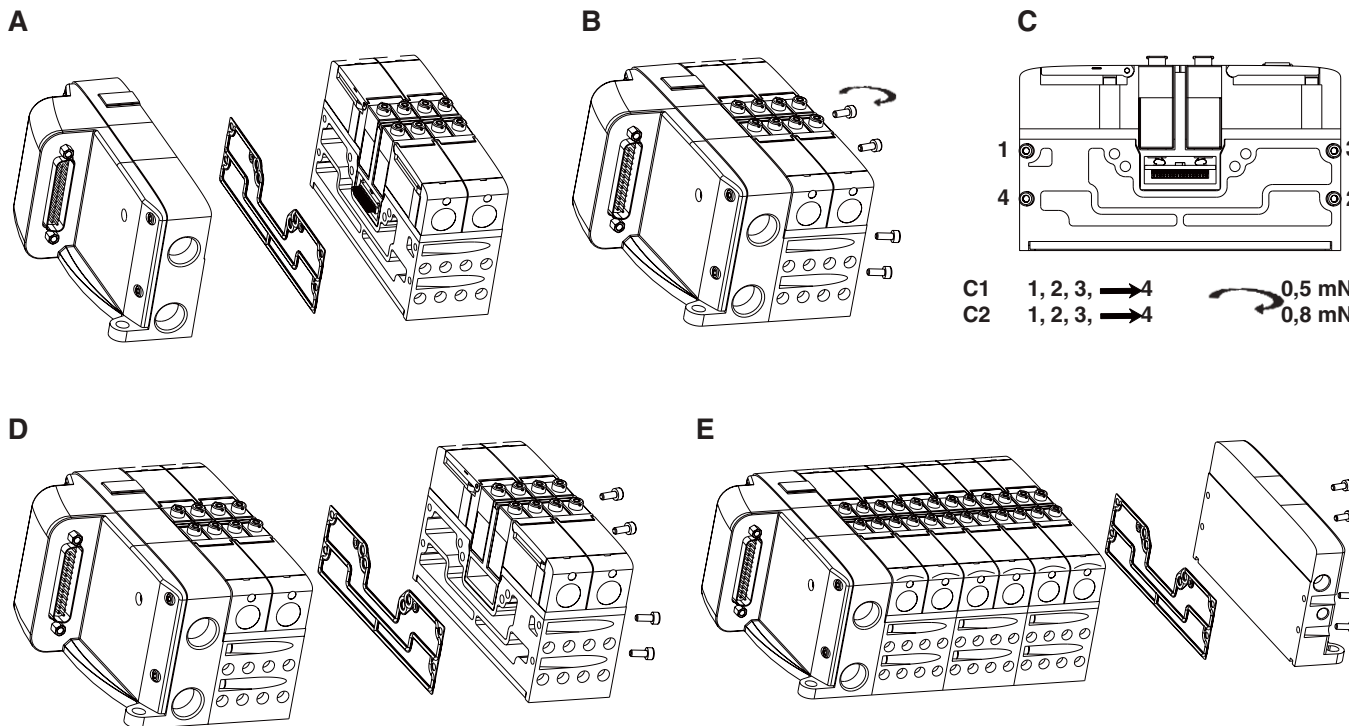
- Always disconnect the electric and air supply to the valve before adjusting.
- Always lockout power to machinery that the valve is attached to before adjusting.
- Keep hands and clothing away from any pinch points & paths of moving cylinders.
- Never disassemble valves without proper instruction and manuals. This may be obtained from a distributor or the website described above.

#### GENERAL INSTALLATION GUIDELINES

- Push plug-in pneumatic connectors securely into the modules and assemble the valve islands as shown on reverse side.
- Secure the valve or valve island using the din-rail fasteners or the mounting holes.
- Attach Parker tubing to the pneumatic connectors. Completely push clean, square-cut precision tubing into the pneumatic connectors.
- Attach electrical connections with power off.
- Test the system operation for function and leakage. Do not put into operation until the function is as intended and there is no leakage.

## Isys Micro Installation & Service Instructions Sheet B

ISSUED: 09 2008  
Supersedes: None



**AVERTISS** Danger : Le non-respect des précautions, mises en garde, instructions et informations décrites dans le présent document ou sur le site Parker peut provoquer des dommages matériels et des blessures graves même mortelles. Des précisions complémentaires en plusieurs langues peuvent être obtenues en visitant le site web Parker: [www.parker.com](http://www.parker.com) ou appeler le 00 800 27 27 53 74 en Europe.

### CONSIGNES GENERALES DE SECURITE

- Débrancher toujours les alimentations électrique et pneumatique du distributeur avant réglage.
- Couper toujours l'énergie de l'équipement avant réglage.
- Garder les mains et les vêtements hors de portée des points de pincement des pièces en mouvement.
- Ne jamais démonter les distributeurs sans les instructions ou manuels appropriés. Ces derniers peuvent être obtenus chez nos distributeurs ou sur le site web.

### CONSIGNES GENERALES D'INSTALLATION

- S'assurer du bon positionnement des connecteurs pneumatiques dans leur logement.
- Fixer l'isolant sur un bâti à l'aide des logements.
- Utiliser des tubes Parker. Ils doivent être propres, coupés droits, sans résidu, et enfoncés complètement.
- Connecter électriquement les distributeurs ou l'isolant hors tension.
- Tester les fonctions et fuites du système. Ne jamais mettre en service sans s'assurer préalablement du bon fonctionnement et de l'absence de fuites.

**ACHTUNG** : Nichtbeachten der hier und auf der Parker Website aufgeführten Vorsichtsmaßnahmen, Hinweise, Anleitungen und Informationen kann zu Tod, Personenschäden und/oder Zerstörung der Einrichtungen führen. Genauere Informationen in verschiedenen Sprachen können von der Parker Website : [www.parker.com](http://www.parker.com) abgerufen werden. T : 00 800 27 27 53 74.

### Allgemeine Sicherheitsrichtlinien

- Vor jeglicher Einstellarbeit an den Ventilen bzw. der Ventileinseln sind die Druckluftleitungen zu trennen.
- Vor jeglicher Einstellarbeit an den Ventilen bzw. der Ventileinseln ist der entsprechende Anlagenteil energie-machtungslos zu machen.
- Halten Sie Abstand mit Händen und Kleidung von Klemmstellen (z.B. von Zylindern).
- Bauen Sie niemals Komponenten auseinander ohne entsprechende geeignete Anleitungen. Sie können diese erhalten von unseren Fachhändlern, eigenen Niederlassungen oder von der Webseite abrufen.

### Allgemeine Installationsrichtlinien

- Drücken Sie die Einsteck-Schnellverbinder fest und sicher in die Basismodule wie gezeigt.
- Sichern Sie die Ventileinseln durch Befestigungsschrauben an auf einer Montagefläche.
- Benutzen Sie nur Parker Kunststoffrohr in Verbindung mit den Schnellsteckverbindern.
- Das Rohr muss sauber, rechteckig abgeschnitten, ohne lose Partikel und komplett in die Verbinder gesteckt sein.
- Stellen Sie die elektrische Verbindung in spannungslosem Zustand her.
- Testen Sie das System auf Funktion und Leckagen. Nehmen Sie das System erst in Betrieb wenn die Funktionen wie geplant ablaufen und keine Leckagen vorhanden sind.

**WARNING** : Failure to follow all precautions, warnings, instructions, and information contained herein, and from the Parker website, may cause death, personal injury and/or property damage. More detailed information, in several languages, may be obtained from the Parker website: [www.parker.com](http://www.parker.com) or call 1-800-C PARKER in the USA or 00 800 27 27 53 74 in Europe.

### GENERAL SAFETY GUIDELINES

- Always disconnect the electric and air supply to the valve before adjusting.
- Always lockout power to machinery that the valve is attached to before adjusting.
- Keep hands and clothing away from any pinch points & paths of moving cylinders.
- Never disassemble valves without proper instruction and manuals. This may be obtained from a distributor or the website described above.

### GENERAL INSTALLATION GUIDELINES

- Push plug-in pneumatic connectors securely into the modules and assemble the valve islands as shown on reverse side.
- Secure the valve or valve island using the di-nail fasteners or the mounting holes.
- Attach Parker tubing to the pneumatic connectors. Completely push clean, square-cut precision tubing into the pneumatic connectors.
- Attach electrical connections with power off.
- Test the system operation for function and leakage. Do not put into operation until the function is as intended and there is no leakage.

**ADVERTÊNCIA** : O não cumprimento de todas as advertências, instruções e informações contidas nesta, pode causar morte, danos pessoais e/ou danos materiais. Maiores detalhes, em outras línguas, podem ser obtidos do website Parker : [www.parker.com](http://www.parker.com) T : 00 800 27 27 53 74 (Europa).

### INSTRUÇÕES GERAIS PARA SEGURANÇA

- Sempre desconecte a eletricidade e o suprimento de ar da válvula antes da regulagem ou instalação das unidades.
- Sempre desconecte a válvula de qualquer máquina/equipamento antes da regulagem ou instalação.
- Mantenha as mãos e vestuário longe de pontos onde há riscos de agarramentos ou movimentos de cilindros para evitar acidentes.
- Nunca desmonte as válvulas sem manuais e instruções apropriados. Estes podem ser obtidos da fábrica ou do website descrito anteriormente.

### INSTRUÇÕES GERAIS PARA INSTALAÇÃO

- Pressione os conectores especiais dentro das unidades de válvulas como mostrado.
- Instale o conjunto do manifold na superfície utilizando parafusos nos furos de montagem.
- Conecte somente tubos Parker. Estes devem estar limpos, com corte das extremidades no esquadro, sem partículas soltas, e pressionadas completamente dentro das conexões.
- Faça as conexões elétricas com a linha desenergizada.
- Teste o sistema para checar o funcionamento e vazamentos. Não coloque o sistema em operação antes de checar se o funcionamento está adequado e não há vazamentos.

**WAARSCHUWING** : Verzuimen tot het volgen van alle voorzorgsmaatregelen, en informaties zoals hier samengevat en op de Parker website, kan persoonlijk letsel, eigendomschade, of zelfs de dood tot gevolg hebben. Meer detail informatie, zie [www.parker.com](http://www.parker.com) T : 00 800 27 27 53 74 (Europe).

### Allgemeine veiligheidsrichtlijnen

- Altijd de lucht- en stroomtoevoer naar het ventiel afsluiten voor men gaat afstellen.
- Altijd de energie naar de machine waar het ventiel op gemonteerd zit afsluiten voor men gaat afstellen.
- Handen en kleding weghouden van de klem punten en bewegende cilinders.
- Nooit ventielen demonteren zonder de juiste instructie en handleidingen.

### Allgemeine installatie voorschrift

- Bevestig speciale koppelingen precies zoals hierboven wordt getoond.
- Bevestig de ventielunit op ondergrond door schroeven te plaatsen.
- Alleen Parker leidingen in de koppelingen bevestigen. Deze moeten schoon en recht afgesneden zijn, zodat ze goed in de koppeling passen.
- Elektrische aansluitingen plaatsen, alleen als de voeding uit staat.
- Systeem testen op werking en lekkage, en niet in gebruik nemen voordat aan beide eisen voldaan is.

**PRECAUCIÓN** : La Negligencia a los avisos de precaución, instrucciones e información contenida aquí y en el sitio Web de Parker pueden causar la muerte, daños personales y/o daño a la propiedad. Mas información detallada en diferentes idiomas pueden ser obtenidos del sitio Web de Parker: [www.parker.com](http://www.parker.com) o llamando al teléfono 1-800-C PARKER en los Estados Unidos de América o 00 800 27 27 53 74 en Europa.

### NORMAS GENERALES DE SEGURIDAD

- Siempre desconecte el suministro de energía eléctrica y aire comprimido a la válvula antes de ajustar o instalar unidades.
- Siempre baje el interruptor de energía eléctrica de la maquinaria en la que la válvula esta instalada antes de ajustarla.
- Mantenga las manos y ropa fuera de cualquier punto apriete o partes móviles de los cilindros.
- Nunca desensamble válvulas sin los manuales o instrucciones adecuados. Estos pueden ser obtenidos de un distribuidor o del sitio Web descrito arriba.

### NORMAS GENERALES DE INSTALACION

- Presione los conectores especiales asegúrelos contra las bases como se muestra.
- Asegure el ensamble de manifold a la superficie usando conectores rápidos.
- Conecte solamente tubing Parker a las conexiones. Estos deberán de estar limpios, cortados en escuadra, sin partículas sueltas, y presionados completamente dentro de las conexiones.
- Realice las conexiones eléctricas con el interruptor de energía en apagado (OFF).
- Pruebe la operación del sistema verificando funcionamiento y fugas. No lo ponga en operación hasta que cumpla con la operación requerida y que no haya fugas.

**VARNING** : Instruktioner, varningar och information i denna handling, och på Parkers webbsida, skall alltidas noggrant. Följden av att bortas från dessa kan medföra dödsfall, personskador och/eller skador på egendom. Detaljerad information, på flera språk kan hämtas från Parkers webbsida [www.parker.com](http://www.parker.com) eller ring 00 800 27 27 53 74 (Europe).

### GENERELLA SÄKERHETSANVISNINGAR

- Stäng alltid av både el och luftförsörjningen innan justeringar på ventilen genomförs.
- Bryt alltid huvudsströmmen till maskinen som ventilen betjänar.
- Se till att hålla undan händer och kläder från klämrisker.
- Plocka aldrig isär en ventill utan att ha först hämtat underlag för detta från webbsidan eller leverantören.

### GENERELLA INSTALLATIONSANVISNINGAR

- Tryck de speciella anslutningarna ordentligt fast i underdelen, se bilden.
- Sätt fast ventilen ordentligt på ett stabilt underlag.
- Montera enbart Parker slang i instickskoppningarna. Dessa måste skäras av rakt och vara utan s.k.slagg eller lösa partiklar samt tryckas helt in i koppningen.
- Koppla in elen med huvudbrytaren i främälje.
- Test systemet sedan för funktion och läckage. Starta ej maskin förrän fullgod funktion och läckhet uppnåtts.

**ATTENZIONE** ! Il mancato rispetto delle precauzioni, avvertenze, istruzioni, ed informazioni contenute di seguito e nel sito web Parker, può provocare danni a cose o persone, anche con conseguenze letali. Per informazioni più dettagliate nelle varie lingue, consultare sito web Parker: [www.parker.com](http://www.parker.com) o, negli Stati Uniti, chiamare il 00 800 27 27 53 74 (Europe).

### ISTRUZIONI DI SICUREZZA

- Scollegare sempre la valvola dall'alimentazione elettrica e pneumatica prima di regolare le periferiche.
- Interrompere sempre l'alimentazione elettrica ai macchinari cui la valvola è collegata prima di procedere alla regolazione.
- Tenere le mani e gli abiti lontani dai cilindri in movimento in modo che non rimangano impigliati o intrappolati.
- Non smontare mai le valvole senza aver prima seguito scrupolosamente i manuali di istruzioni che si possono richiedere al distributore, o scaricare dal sito web sopra citato.

### ISTRUZIONI GENERALI D'INSTALLAZIONE

- Inserire e fissare i raccordi speciali nelle basi come indicato nel disegno.
- Fissare il manifold ad un piano mediante i dispositivi di fissaggio indicati.
- Collegare ai raccordi esclusivamente tubi Parker. I tubi devono essere puliti con le estremità tagliate a squadra, senza parti libere e inseriti nel raccordo fino in fondo.
- Attaccare le connessioni elettriche ad apparecchio spento.
- Collaudare il sistema per controllare il funzionamento ed individuare eventuali perdite. Non utilizzare finché il funzionamento non risulta corretto e senza perdite.





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