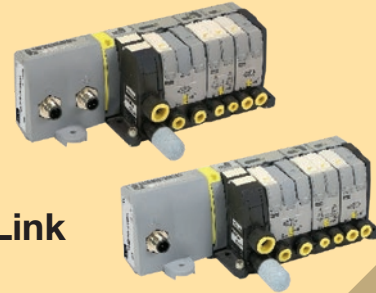


### Valve Island V Series with IO-Link connection

The P2M Moduflex IO-Link 24 DO node allows a very simple and cost efficient connection to any IO-Link master, centralised into the PLC or decentralised through an industrial Ethernet network.

Designed in both Class A and Class B versions with an isolated auxiliary power, it can easily be adapted to all power supply architectures and follow machine directives

IO-Link



### P2M IO-link 24 DO Class A node with independent Auxiliary Power Supply



The P2M IO-Link 24 DO Class A node can handle a Moduflex Valve bank having up to 19 pilot solenoid valves.

Thanks to its 2 x M12 A coded male connectors, it can be connected to any IO-Link Class A masters and separately receive its auxiliary power supply for valves from an independent source.

The P2M IO-Link 24 DO Class A node exists in 3 versions with the Auxiliary Power M12 connector pin out adapted to any sourcing through a standard M12 cable:

- P2M2HBVL12400A13 / -SPC version: 24 Vdc / 0 Vdc on pins 1 & 3 – Standard version
- P2M2HBVL12400A43 / -SPC version: 24 Vdc / 0 Vdc on pins 4 & 3 – Compatible with Siemens wiring
- P2M2HBVL12400A42 / -SPC version: 24 Vdc / 0 Vdc on pins 4 & 2 – Compatible with Rockwell wiring

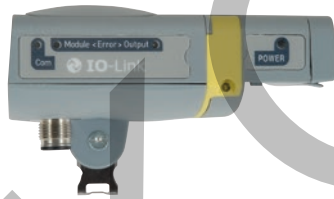
### P2M IO-link 24 DO Class B node



The P2M IO-Link 24 DO Class B node can handle a Moduflex Valve bank having up to 19 pilot solenoid valves.

Thanks to its single M12 A coded male connectors, it can be connected to any IO-Link Class B masters receiving its auxiliary power supply for valves on pins 2 & 5 from the only cable simplifying the connection.

### Diagnostic



The P2M IO-Link 24 DO node offers a local diagnostic through 4 LED's located on the visible top side, showing:

- IO-Link com status
- Node error
- Output error
- Auxiliary power

Additional useful diagnostic information can be read by the PLC through the network simplifying diagnostic and allowing predictive maintenance (all details in the user manual)

### Safe Power Capable version (-SPC)

Auxiliary power of -SPC version of P2M IO-Link 24 DO node can be supplied from a safe output device following machinery directives. This includes:

- Output Signal Switch Device (OSSD) test pulse compatible
- Galvanic isolation between 0 Vdc Logic and Aux power
- PP or PM cabling modes

For more details, refer to the "Communication nodes – connection and configuration" section.

**V series valve island: Communication node for IO-Link**

Communication node for 19 outputs (Moduflex Pilot Valves)  
 (The last 5 outputs of this 24 DO node can't be used with Moduflex Valve)



Description	IO-Link Class	M12 A coded Connector connection			Weight (g)	Order code
		IO-Link	Aux. Power	Aux. Power Pinout		
P2M IO-Link Communication Node	Class A	3 Pin's	3 Pin's	1 & 3	160	<b>P2M2HBVL12400A13</b>
		3 Pin's	3 Pin's	4 & 3	160	<b>P2M2HBVL12400A43</b>
		3 Pin's	5 Pin's	4 & 2	160	<b>P2M2HBVL12400A42</b>
	Class B	5 Pin's		2 & 5	140	<b>P2M2HBVL12400B25</b>
P2M IO-Link Communication Node <b>Safe Power Capable</b>	Class A	3 Pin's	3 Pin's	1 & 3	165	<b>P2M2HBVL12400A13-SPC</b>
		3 Pin's	3 Pin's	4 & 3	165	<b>P2M2HBVL12400A43-SPC</b>
		3 Pin's	5 Pin's	4 & 2	165	<b>P2M2HBVL12400A42-SPC</b>
	Class B	5 Pin's		2 & 5	145	<b>P2M2HBVL12400B25-SPC</b>

IODD file can be downloaded from IODD Finder or the Moduflex web site:  
<https://ioddfinder.io-link.com>  
[www.parker.com/pde/io-link](http://www.parker.com/pde/io-link)

**Accessories**

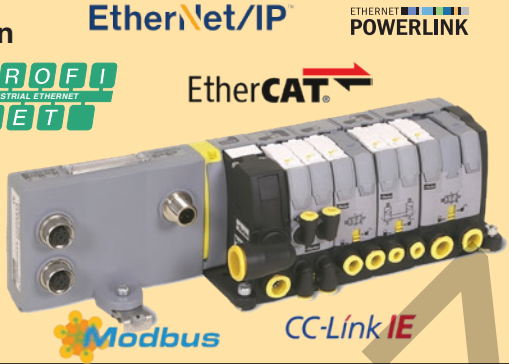


Description	Connector type	Weight (g)	Order code
Quick connect straight connector for both IO-Link communication and auxiliary power supply	M12 - 5 Pin's Female - A Coding	25	<b>P8CS1205AA</b>

**Valve Island V Series with Industrial Ethernet connection**

The P2M Industrial Ethernet 24 DO node allows a very simple and cost efficient connection to the most popular Industrial Ethernet networks.

Designed with an isolated auxiliary power, it can easily be adapted to all power supply architectures and follow machine directives.



**Product Set-Up**



The P2M Industrial Ethernet 24 DO node offers an IP addressing through 3 rotary switches located on the top side.

The 3 rotary switches allow also a Factory Reset, IP address storage, and DHCP mode addressing.

As soon as supported by protocol, this IP address can be modified through an imbedded web page.

For an application requiring a regular disconnection / reconnection of the node, Profinet and EtherNet/IP protocols allow respectively a Fast Start-Up (FSU) and Quick Connect mode. This mode can be enable or disable .

**Technology / Integrated Ethernet Switch**



The P2M Industrial Ethernet 24 DO node offers 2 Ethernet ports allowing a line topology without external switch. The Ring topology can also be supported (enable/disable) for Profinet, EtherNet/IP and Modbus TCP/IP.

The integrated Ethernet switch support Class C Services allowing used in an isochronous real time (IRT) structure.

**Diagnostic**



The P2M Industrial Ethernet 24 DO node offers a local diagnostic through 7 LED's located on the visible top side, showing:

- Logic status
- Ethernet activity on both ports
- Standard Status due to protocol
- Output error / Auxiliary power

This local information as well as trouble shooting and predictive maintenance diagnostics (Power monitoring, Life cycle counting, ...) are available in PLC through the network and reported on imbedded web page.

When PLC is in "STOP", the web page allows to force ON/OFF solenoids state. This function has a password protection.

**Safe Power Capable**

Auxiliary power of P2M Industrial Ethernet 24 DO node can be supplied from a safe output device following machinery directives. This includes:

- Output Signal Switch Device (OSSD) test pulse compatible
- Galvanic isolation between 0 Vdc Logic and Aux power
- PP or PM cabling modes

For more details, refer to the "Communication nodes – connection and configuration" section.

## Moduflex Valve System - P2M

### V series valve island: Communication node for Industrial Ethernet

Industrial Ethernet node for 19 outputs (Moduflex Pilot Valves)  
 (The last 5 outputs of this 24 DO node can't be used with Moduflex Valve)



Description	Protocol	Eth. ports	Aux. Power	Weight (g)	Order code
P2M industrial Ethernet Communication Node	Profinet IO	2 x M12 D-coded	M12 A-coded	190	<b>P2M2HBVN12400</b>
	EtherNet/IP	2 x M12 D-coded	M12 A-coded	190	<b>P2M2HBVE12400</b>
	EtherCAT	2 x M12 D-coded	M12 A-coded	190	<b>P2M2HBVT12400</b>
	PowerLink	2 x M12 D-coded	M12 A-coded	190	<b>P2M2HBVW12400</b>
	Modbus /TCP	2 x M12 D-coded	M12 A-coded	190	<b>P2M2HBVM12400</b>
	CC-Link IE	2 x M12 X-coded	M12 A-coded	190	<b>P2M2HBVK12400*</b>

\*) Coming soon  
 Configuration file can be download from the dedicated product web page:  
[www.parker.com/pde/P2M\\_IE](http://www.parker.com/pde/P2M_IE)

### Accessories

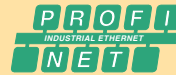


Description	Connector type	Weight (g)	Order code
Quick connect straight connector for module power supply	M12 - 5 Pin's Female - A Coding	25	<b>P8CS1205AA</b>

**Valve Island V Series with Industrial Ethernet connection** **EtherNet/IP™**

The P2M Industrial Ethernet Lite node 24DO allows a very simple and cost efficient connection to the most popular Industrial Ethernet networks.

In its compact IP40 version equipped with two RJ45 Ethernet ports, it saves size in cabinet applications and offers an easy connection to the network in a line topology.



**Product Set-Up**



The P2M Lite Node 24DO is by default in DHCP mode. The module must be assigned to a static IP-Address in order to be controlled via the network.

The Network Configuration settings can be done through the embedded web server of the node as well as "IPconfig", "TIA Portal" or similar methods.

For an application requiring a regular disconnection / reconnection of the node, Profinet and EtherNet/IP protocols allow respectively a Fast Start-Up (FSU) and Quick Connect mode. This mode can be enable or disable .

**Technology / Integrated Ethernet Switch**



The P2M Industrial Ethernet Lite node 24DO offers 2 RJ45 ports allowing a line topology without external switch. The Ring topology can also be supported (enable/disable) for Profinet and EtherNet/IP.

The integrated Ethernet switch support Class C Services allowing used in an isochronous real time (IRT) structure.

**Diagnostic**



The P2M Industrial Ethernet Lite node 24DO offers a local diagnostic through 5 LED's located on the visible top side and 4 additional on both Ethernet connectors showing:

- Logic status
- Ethernet activity on both ports
- Standard Status due to protocol
- Output error / Power Supply

This local information as well as trouble shooting and predictive maintenance diagnostics (Power monitoring, Life cycle counting, ...) are available in PLC through the network and reported on imbedded web page.

When PLC is in "STOP", the web page allows to force ON/OFF solenoids state. This function has a password protection.

**V series valve island: Communication node for Industrial Ethernet**

P2M Lite Industrial Ethernet node for 19 outputs (Moduflex Pilot Valves)  
 (The last 5 outputs of this 24 DO node can't be used with Moduflex Valve)



Description	Protocol	Eth. ports	Power	Weight (g)	Order code
P2M Industrial Ethernet Communication Node	Profinet IO	2 x RJ45	3 PIN's male*	190	<b>P2M2HBVN12400RJ</b>
	EtherNet/IP	2 x RJ45	3 PIN's male*	190	<b>P2M2HBVE12400RJ</b>
	EtherCAT	2 x RJ45	3 PIN's male*	190	<b>P2M2HBVT12400RJ</b>

\*) Female 3,81 mm pitch connector included

Configuration file can be download from the dedicated product web page:  
[www.parker.com/pde/P2M\\_IE](http://www.parker.com/pde/P2M_IE)