



Parker P2H IO-Link System

The **Parker P2H IO-Link system** is an H-Series ISO pneumatic valve manifold with an integrated IO-Link network node. The major advantage is that it turns a conventional pneumatic valve bank into a networked, diagnosable device without requiring a large amount of point-to-point wiring.

Key features/advantages

- **Reduced wiring**
 - Instead of running individual I/O wires for every solenoid back to the PLC, the P2H connects to an IO-Link master through a single communication connection.
 - This can reduce wiring, terminal blocks, I/O cards, and installation labor. Parker specifically positions the P2H as a cost-effective alternative to hard-wired or higher-level Ethernet approaches.
- **Built-in diagnostics**
 - The P2H can communicate diagnostic information such as voltage warnings, temperature warnings, communication errors, and output errors.
 - That makes troubleshooting considerably easier than simply seeing that a PLC output is off. The diagnostic information can also support preventive/predictive maintenance.
- **Up to 24 solenoid outputs**
 - One P2H node can support a valve manifold with up to 24 solenoid outputs, making it well suited to relatively large pneumatic valve banks.
- **Flexible valve sizing**
 - The H-Series Universal Manifold allows different valve sizes/flow capacities to be combined on the same manifold. Parker lists flow capacities ranging from approximately 0.5 Cv to 3 Cv.
- **Class A or Class B IO-Link**
 - You can select a Class A or Class B architecture depending on how you want to handle logic and valve power.
 - Class A versions provide separate auxiliary valve power and, importantly, power IN and power OUT, allowing power to be distributed



onward.

- **Simpler machine architecture**
 - With IO-Link, the valve manifold becomes an intelligent field device rather than just a collection of solenoids.
 - This can simplify panel design and make the machine easier to commission and maintain.
- **Safety-power capability**
 - Parker offers P2H versions capable of receiving valve power from a safety device and supporting OSSD/test-pulse applications.
 - Class A versions can also daisy-chain safe power through the power-out connection.
- **Industrial construction**
 - The node is designed for industrial environments, with a weld-splatter-resistant housing, IP65 protection, and specified shock, vibration and EMC performance.
- **Easy status indication**
 - Four LEDs provide local indication for IO-Link communication, module error, output error, and auxiliary power, which can save troubleshooting time at the machine.
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Where the *Parker P2H IO-Link System* stands out is:

Traditional hardwired valve bank

- Many individual I/O wires
- PLC sees mostly ON/OFF
- Troubleshooting requires checking wiring/outputs
- More terminal blocks/I/O hardware
- More panel wiring
- Limited device information
- Conventional valve manifold

Parker P2H IO-Link

- One IO-Link connection
- Network provides diagnostics
- Diagnostic information available through network
- IO-Link master handles the field connection
- Wiring is localized at the valve manifold
- Voltage/temp/error information
- Networked "smart" valve manifold

The main improvements are: digital communication, diagnostics and simplified wiring around the valve manifold.

The [Parker P2H IO-Link system](#) is an H-Series ISO pneumatic valve manifold.

For more product details and application review, please call Flow Products at 773-528-2000 or email us at sales2@flowprod.com.

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