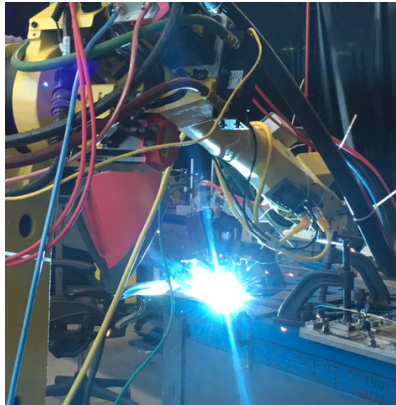


Moduflex IO-Link

Smart Control of Pneumatic Valve Manifolds



Markets:

- Automotive
- Packaging
- Industrial
- Process Control

Superior Value

This product reduces overall machine cost via low cost connection to a network while also providing diagnostic information. The **Moduflex IO-Link** communicates diagnostic information through the PLC, and also has local LED status lights to help diagnose a problem.

- IO-Link com status
- Module error
- Output error
- Auxillary power



Moduflex **IO-Link** Module
Diagnostic LEDs

IO-Link communication is quickly expanding within the Factory Automation market space as a low cost method of connecting I/O "on the network." The **Moduflex IO-Link** module brings this exciting technology to Parker's key valve manifold products. Process data is easily accessible and can be monitored by PLC to help reduce or even prevent downtime.

Features:

- Certified according to latest IO-Link standard: V1.1.2
- Industry standard pin-out configurations for easy connection.
- Class B module offers one M12 connector for communications and power for easy connection to Class B IO-Link Masters.
- Class A module offers one M12 for connection to Class A IO-Link Master and one M12 for easy connection to auxiliary power for solenoids.
- Connection to valve manifolds with Cv from .18 to 6.0
- Easy access to Prognostic & Diagnostic data.
- Easy connection to SAFE power source for valve control.

Class B Module



Moduflex Valve

Class A Module



H Series ISO Valve



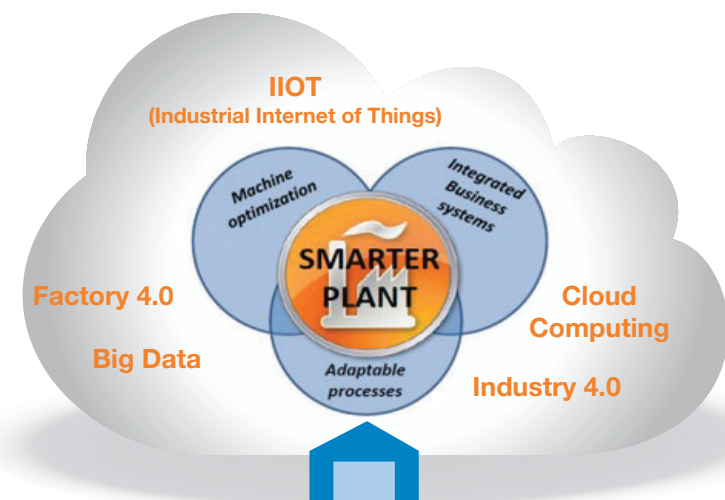
ENGINEERING **YOUR** SUCCESS.

IO-Link masters communicate point to point with all connected IO-Link devices and sends the combined data to the PLC.

IO-Link uses standard 4 or 5 pin M12 cables

Parker IO-Link module compatible with SAFE power source for valve control

- Industrial Network / Fieldbus Wired
- IO-Link
- Discrete Wired Input / Output
- ★ 24 VDC Power
- ★ 24 VDC SAFE Power Source
- Pneumatic



IO-Link is another step towards the Smarter Plant by lowering the cost for gathering component level prognostics and diagnostics.

- Out of Tolerance Warnings
- * Voltage
 - * Temperature
- Error Descriptors
- * Solenoid Short Circuit
 - * IO-Link Communication Error
- Cycle Count for each valve

Network to Remote IO-Link Master

Reduce cabinet size by using De-centralized "on-machine" IO-Link Master

- * Master on the existing network
- * Control all local I/O with IO-Link
 - "Smart" I/O
 - Discrete I/O

Node Expansion Using IO-Link

Reduce node count by adding IO-Link Master module onto BL67 manifold

- * 20m max length for I/O-Link cables
- * Control all "smart I/O" on 1 node
- * Reduce cost of secondary valve manifold
 - Using Moduflex IO-Link module

Non-Network I/O Control Using IO-Link

Use PLC with integrated IO-Link Master for machines with smaller I/O counts

- * 20m max length for I/O-Link cables
- * Control all local I/O with IO Link
 - "Smart" I/O
 - Discrete I/O

THIS IS **EASIER**

Faster Install than Discrete Wire
Standard IP67 M12 Cable

THIS IS **SAVINGS**

Fewer Network Nodes
Easy Expandability

THIS IS **VALUE**

Easy Access Diagnostics
Prognostics to Prevent Downtime

Moduflex IO-Link Module

Connection Types and Power:

Class A Master:



Class A Module with (2) M12 connectors for IO-Link and auxiliary power up to 3.6 A valve power.

Class B master:

Class B Module with (1) M12 connector for IO-Link and valve power up to limit of Class B Master output. Use Class A module with auxiliary power if Class B Master cannot provide enough power.

M12 Pins	Class B 5 pins P2M...B	Class A 3 pins P2M...A	Class A 3 Pins P2M...A13 P2M...A43 P2m...A42		
1	L+	L+	Aux +	Not used	Not used
2	Aux +	-	-	-	Aux -
3	L-	L-	Aux -	Aux -	Not used
4	C/Q	C/Q	Not used	Aux +	Aux +
5	Aux -	-	-	-	Not used

Class A and B units are compatible with SAFE power source for valve control. See user manual document number 30048690201W05 at www.Parker.com/pdn/io-link

IO-Link Class	IO-Link	Aux Power	Aux. Power Pinout	Weight (g)	Order Code
	3 Pins	3 Pins	1 & 3	160	P2M2HBVL12400A13
	3 Pins	3 Pins	4 & 3	160	P2M2HBVL12400A43
	3 Pins	5 Pins	4 & 2	160	P2M2HBVL12400A42
	5 Pins		2 & 5	140	P2M2HBVL12400B25

See offer of sale: www.parker.com/offersale

Valve Series

Choose valve series based on flow required for application. Check maximum solenoid current consumption against limit of power supply.



Moduflex Valve

Cv: .18 - 0.80
19 Solenoids
42mA per Sol.



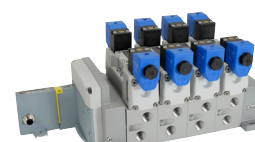
H Micro

Cv: 0.35
24 Solenoids
42mA per Sol.



H ISO 15407-2

Cv: 0.55 - 1.1
24 Solenoids
42mA per Sol.



H ISO 5599-2

Cv: 1.5 - 6.0
24 Solenoids
133mA per Sol.



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