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Moduflex Valve System

Instant control for all pneumatic actuators, modular valve islands and stand-alone valves

Catalogue no. PDE2536SLUK September 2015

aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
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process control
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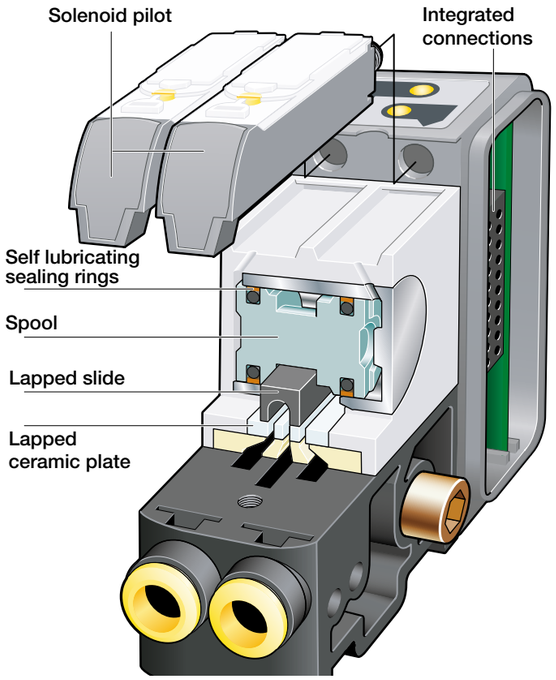
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Moduflex Valve System: The New Pneumatic Generation

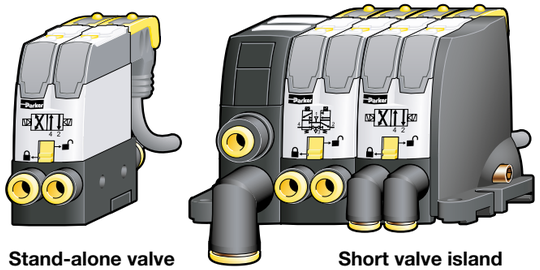
High Performance Technology

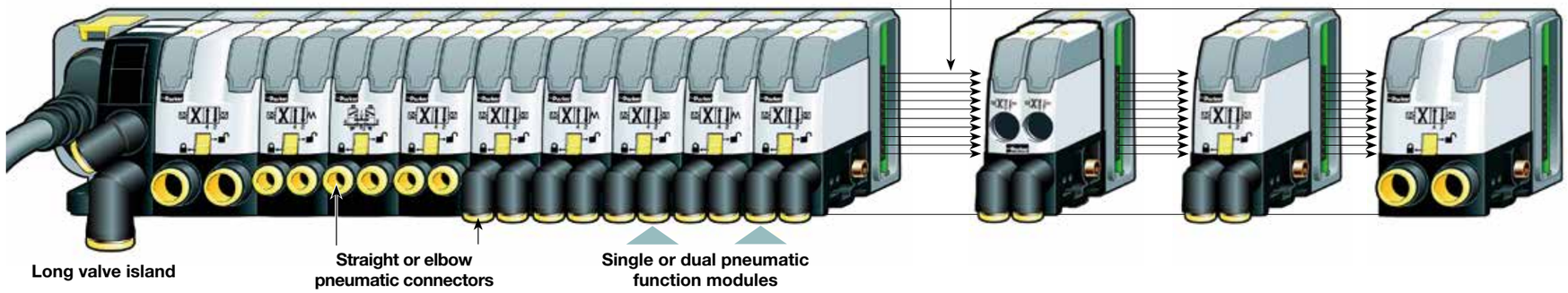
Super compact 4/2 slide valve for the best flow to size ratio, reliable long life and short response times.



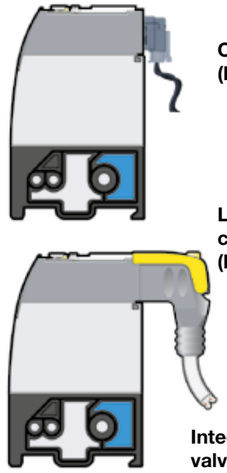
A Complete System

Covering all pneumatic installation requirements with a choice of either stand-alone, short or long valve islands.





Individual Connector Valve Islands



3 Valve Sizes Into the Same Valve Island

	Size 01 Dual 4/2 Sgl Sol 270 Nl/mn Section nominal 4mm²	Size 1 All functions 400 Nl/mn Section nominal 12mm²		Size 2 All functions 1200 Nl/mn * Section nominal 40mm²	
Tube size to cylinder	Ø ext. 4mm	Ø ext. 4mm	Ø ext. 6mm	Ø ext. 8mm	Ø ext. 10mm
Cylinder bore size	Ø 6 to Ø 25mm	Ø 6 to Ø 25mm	Ø 25 to Ø 40mm	Ø 40 to Ø 63mm	Ø 63 to Ø 100mm

* 2 x 3/2 = 800 Nl/min

Pneumatic Specification

- **Working pressure of -0.9 to 8 bar**

- Flow	Size 01	Size 1	Size 2
Flow channel	7mm²	12mm²	40mm²
Air flow	275 Nl/min	400 Nl/min[1)]	1200 Nl/min[1)]

[1)] 2 x 3/2 = 800 Nl/min

- **All exhausts are collectable**
  including solenoid pilot exhaust
- **100 million operations**
  with dry or lubricated air 40 µ filtration

Electrical Specification

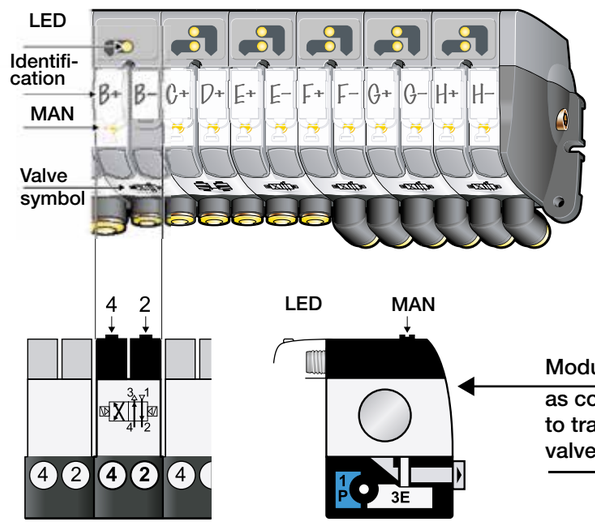
- **Voltage 24V DC. Voltage surge protection**
- **Non polarity sensitive***
  (same product for both PNP and NPN)

* Except Pilot Solenoid Valve Clip Connector version

- Protection	Individual connector	Integrated connections
Clip connector	IP40	IP65
Lockable connector	IP67	

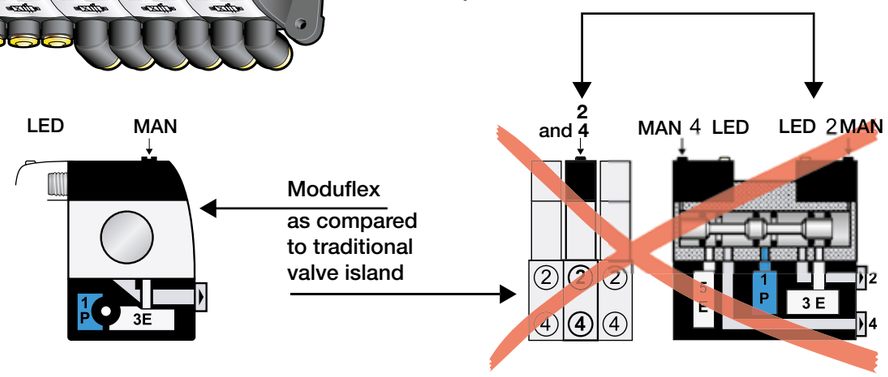
- **Consumption 1W**
- **Shift time < 10 ms****

** shift time for 4/2 bistable size 1 valve



Easy Man-Machine Dialogue

Diagnostic and manual operations are simple: marking, LED and manual override (MAN) all lined-up with corresponding output to cylinder. Much simpler than with traditional valves.



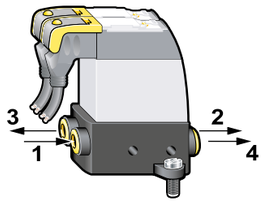
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Stand-Alone Modules

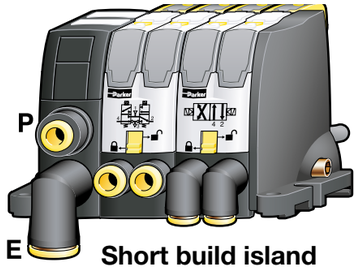


Each module is complete with individual connections:

- Pneumatic: pressure supply, exhaust connection and outputs to cylinder
- Electrical: IP67 protected individual connectors

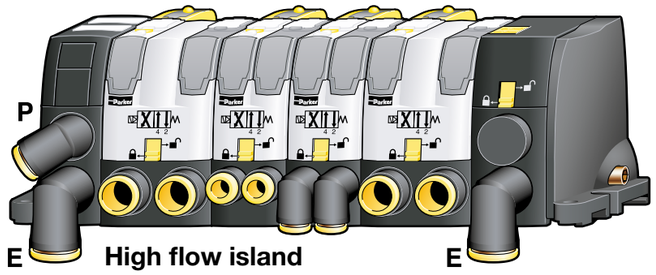


Islands with Individual Connectors



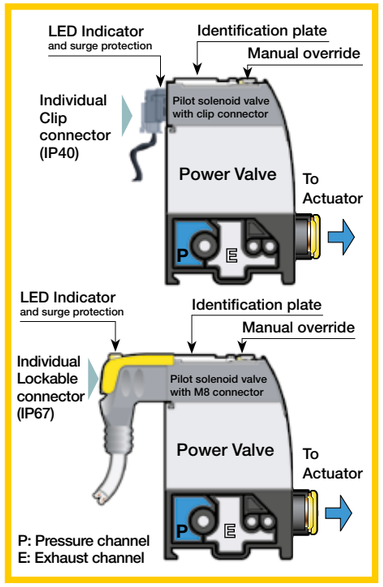
Short build island

Each module is assembled into an island with a simple modular screw:



High flow island

- Remote short build islands require only one pressure supply and one exhaust connection
- Longer high flow islands may require two exhaust connections



Islands With Integrated Connections

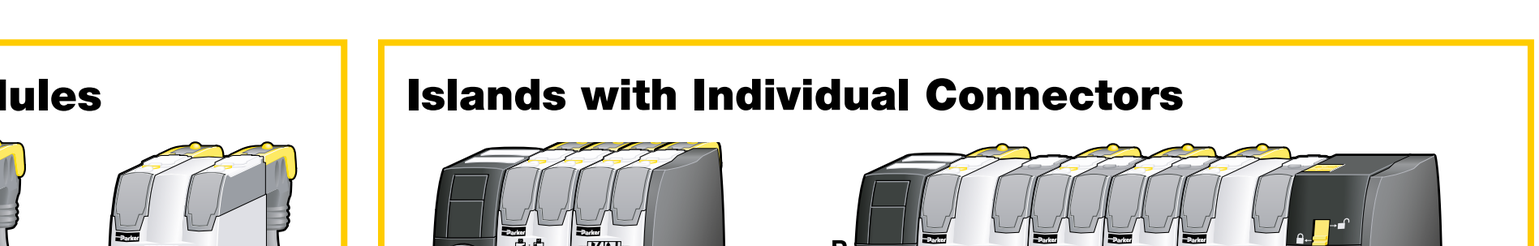
Each module is assembled into an island that includes:

- The pressure and the exhaust channels
- The modular integrated electrical connections

At the head, the island electrical connection is terminated:

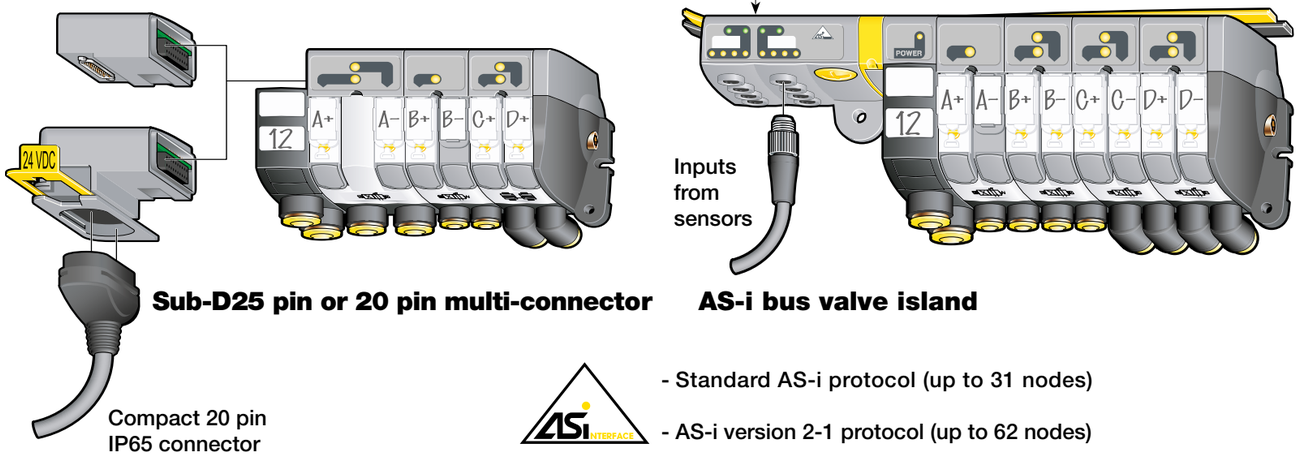
- Either with one multi-pin plug-in connector
- Or with a field-bus connection

Intermediate supply module



Multi-section long island

Vampire bus connection

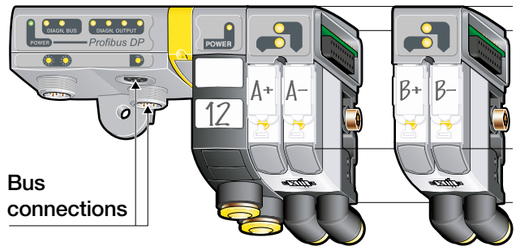


Sub-D25 pin or 20 pin multi-connector

AS-i bus valve island

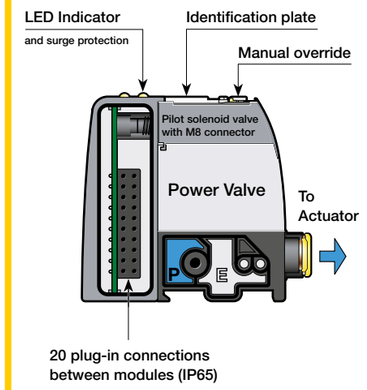
Compact 20 pin IP65 connector

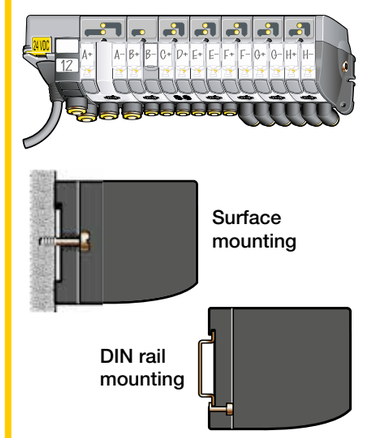
- Standard AS-i protocol (up to 31 nodes)
- AS-i version 2-1 protocol (up to 62 nodes)



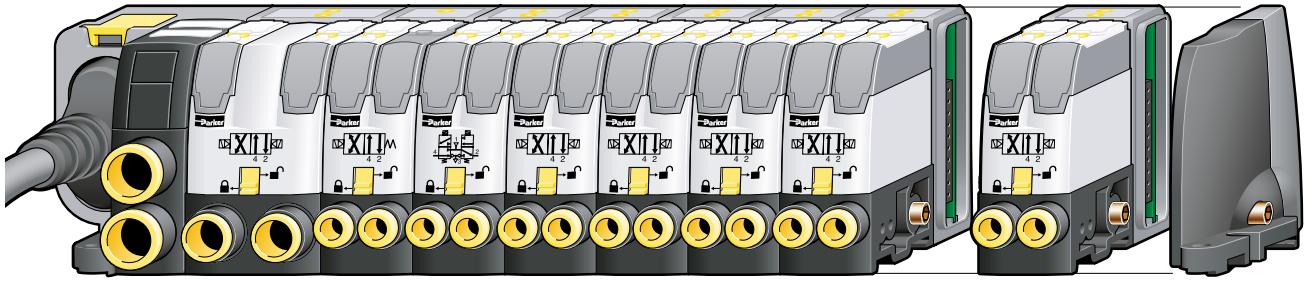
Device bus valve island

DeviceNet™ PROFIBUS INTERBUS-S CANopen



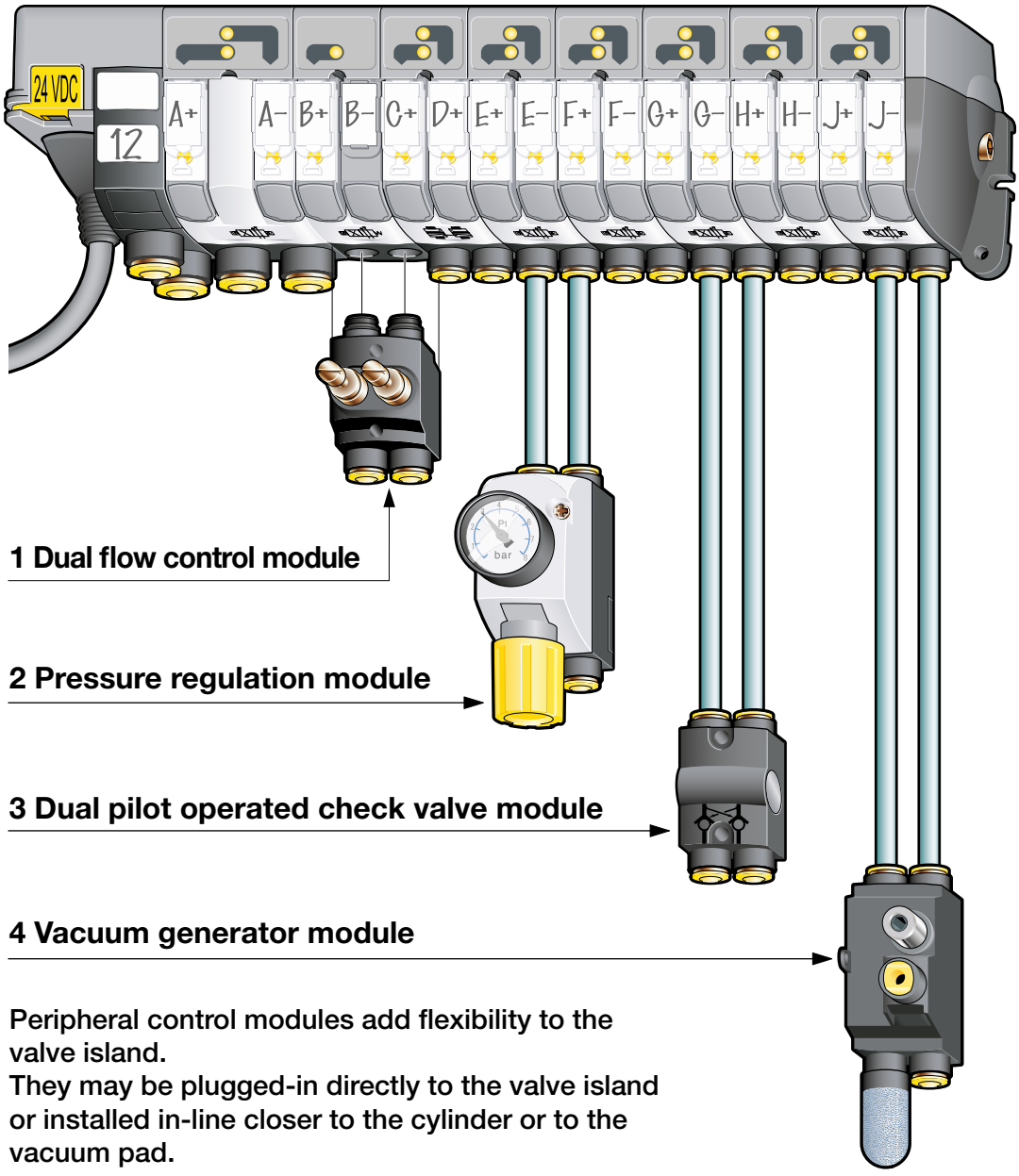


Total Modularity, Total Flexibility...



Valve island internal flexibility

+



Valve island peripheral flexibility

1 Dual flow control module

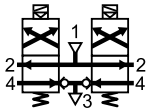
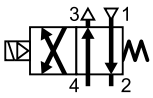
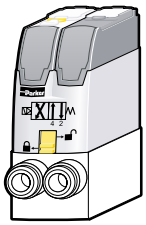
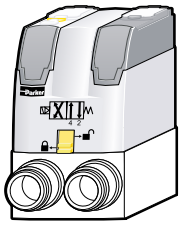
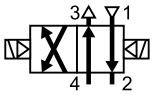
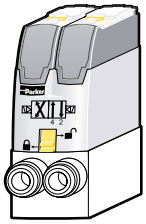
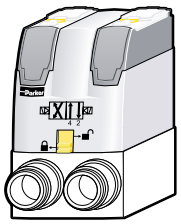
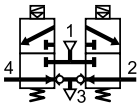
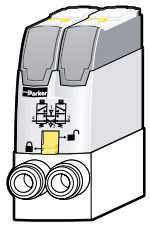
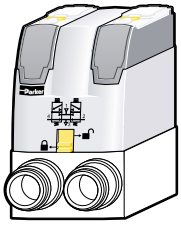
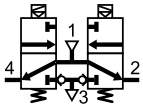
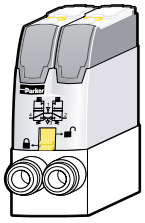
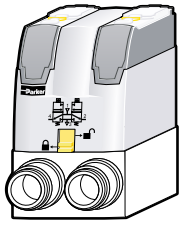
2 Pressure regulation module

3 Dual pilot operated check valve module

4 Vacuum generator module

Peripheral control modules add flexibility to the valve island.
They may be plugged-in directly to the valve island or installed in-line closer to the cylinder or to the vacuum pad.

Moduflex: Valve functions and flow channel

	Size 1 12mm² flow channel 400 Nl/min 1)		Size 2 40mm² flow channel 1200 Nl/min 2)
2 x 4/2 - way valve single solenoid 			—
4/2 - way valve single solenoid 			
4/2 - way valve double solenoid 			
2 x 3/2 - way valve NC single solenoid  Note: this module can also achieve 3 position functions: - 3 position vented centre - 3 position closed centre, with the addition of a dual pilot operated check valve			
2 x 3/2 - way valve NO single solenoid  Note: this module can also achieve the 3 position pressure centre function			

1) 2 x 4/2 = 150 Nl/min
2) 2 x 3/2 = 800 Nl/min

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