

COMPACT 8

PNEUMATIC SPOOL VALVE ISLANDS





High performance

COMPACT 8 pneumatic spool valve islands offer the highest level of miniaturisation with 4 mm instant fittings or push-in hose connection 6 mm O.D. and the highest flow for a 8 mm wide spool valve, offering:

- 300 l/min ANR (depending on the type of spool valve)
- IP 65 protection for direct mounting on machines
- new multiwire configuration/optimisation features
- fieldbus compatibility
- configuration flexibility
- easy installation and simple operation (real modular design in step of 1)

Small and smart for full integration capability

COMPACT 8 offers the most reduced size of the market as well as a low weight, what enable these spool valve islands to be easily incorporated in systems where space saving is a priority.

The new **COMPACT 8'** addressable pinning combined with its small size guarantee an easy installation on existing machines or plants

• MULTIWIRE



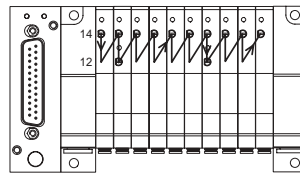
IP65 MULTIPOL connection with a 25-pin SUB-D connector

Standard version: 16 spool valves maximum

Standard/optimised addressing modes

Possible extension: 21 coils for a maximum of 16 spool valves

Addressing with standard pinning



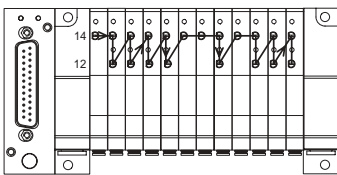
2 pins are reserved on the SUB-D socket for each spool valve.

Advantages:

- Same connector reference irrespective of island configuration
- Replace one function by another without pin address modification

new

Addressing with optimised pinning



Optimised mode

When the spool valve island is switched on for the first time, the connector pins are automatically assigned to each spool valve in accordance with its function (1 pin for monostable, 2 pins for bistable spool valves). The configuration is stored in the spool valve island.

- Advantages:
- Optimisation of the number of pins used (no address is lost)
 - The pin assignment is adapted to the spool valve island

• FIELDBUS



Electrical connection with M8 (power supply) and M12 (bus connection) connectors

Extension up to 16 spool valves



DeviceNet™
CANopen



Electrical connection with vampire-type connector or M12 socket

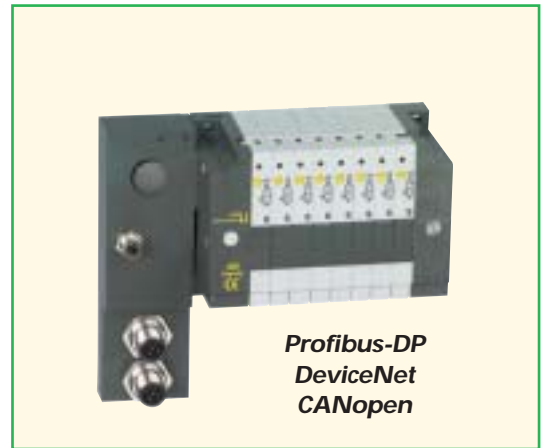
Extension up to 2 bistable or 4 monostable spool valves

With or without 4 M8 sensor inputs.

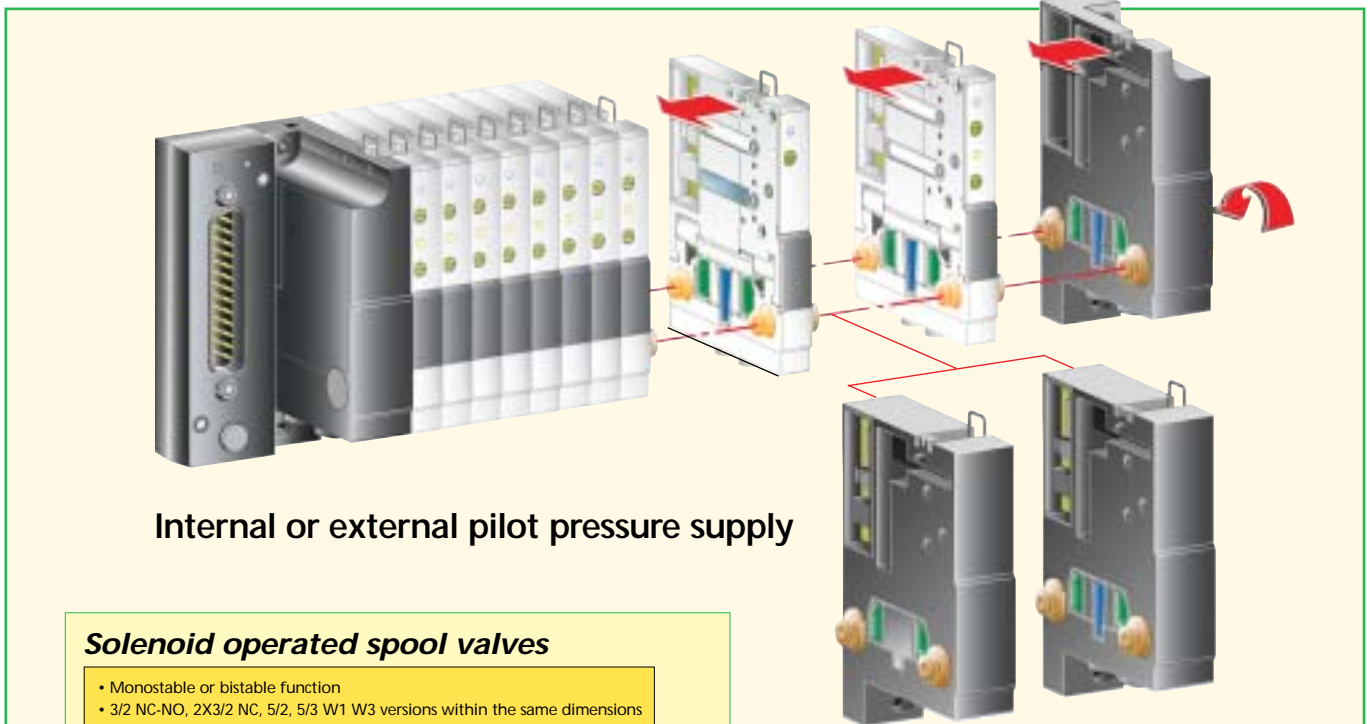


MODULAR

Connection choices



Spool valves/accessories combinations



Internal or external pilot pressure supply

Solenoid operated spool valves

- Monostable or bistable function
- 3/2 NC-NO, 2X3/2 NC, 5/2, 5/3 W1 W3 versions within the same dimensions
- One or two integrated pilots with low power coil 0.15 W (hold)
- Air filtration 40 µm
- 30 million cycles

Small size

8 mm width for one or two integrated pilots with low power coil (0.15 W)

Reduced time for tubing

With instant fittings for flexible hose 4 mm or push-in hose connection 6 mm O.D.



Easy assembly

2 retention knobs and 1 assembly key

Installation assistance and monitoring

Impulse-type or push-turn type manual override.
LEDs displaying the on/off status of the pilot valve.

Intermediary pressure supply module

Separation plate

PNEUMATIC SPOOL VALVE ISLANDS RANGE

Due to the increasing performances, functionalities, spool valve islands meet the OEM's and end users' requirements for automated installations, packaging, food processing, automotive, textile, pharmaceutical, process control ...

In order to answer the different needs of those industries, ASCO/JOUCOMATIC has developed different island concepts.



Modular concept

Mega

900 l/min ANR
3/2, 2x 3/2, 5/2, 5/3 spool valves
Instant fittings
Individual connector IP 20/IP 65
Multipol, Profibus-DP, ASinterface
Up to 16 monostable or bistable spool valves
Air operated version



Monobloc subbase concept

Generation C

175 l/min, 600 l/min, 1050 l/min ANR
3/2, 2x 3/2, 5/2, 5/3 spool valves
M5, G 1/8", G 1/4", or instant fittings

ISO 1, 2 islands

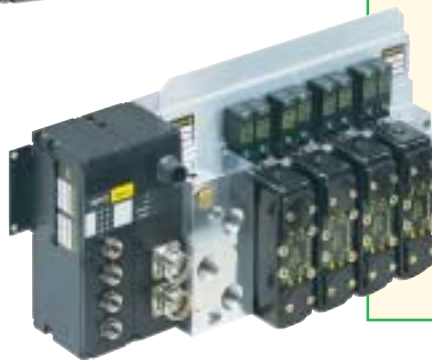
1400 l/min, 2800 l/min ANR
5/2, 5/3 W1 W2 W3 spool valves
G 1/4", G 1/2"

ISO 01 (VDMA G01) ISO 02 (VDMA G02) islands

950 l/min, 500 l/min ANR
5/2, 5/3 spool valves
G 1/4", G 1/8"

Common characteristics

Multipol, Profibus-DP, Interbus-S,
DeviceNet, Modbus, FIPIO
Up to 16 monostable or bistable spool valves
Up to 32 inputs per island
(including spool valve outputs)



Besides standard solutions, we have been developing customised islands to specific requirements for many years. For example, islands including isolation valves which act on the pneumatic circuit during operation, pressure switches, additional input/output modules, specific mounting plates ...



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