

Valve Manifold CPV-SC, Type 80

The CPV Smart Cubic Fixed-Grid Valve Manifold

FESTO



Multipin Connection

Festo CPI Fieldbus Connection

High Performance, Revolutionary Compact Valve Manifold

The CPV-SC valve manifold offers a revolutionary compact format of 40 x 40 mm [1.57 x 1.57 inches].

Key Features

- Up to 16 valve positions per manifold
- 5/2-way, 3/2-way, and 2/2-way functions
- 10 mm grid size, manifold integrated valves
- Flow rates of up to 170 l/min [0.17 Cv]
- Electrical connections include:
 - Sub-D plug
 - Flat ribbon cable
 - DeviceNet
 - Profibus DP
 - Festo CPI

Benefits

- Especially well suited for the operation of small pneumatic drives in cramped installation spaces
- Integrated, large surface mounted silencers or ducted exhaust air
- Suitable for vacuum
- Allows for several pressure zones at a single valve manifold
- Sturdy thanks to metal housing and connector thread
- LEDs indicate the signal status of each valve position at the control unit
- Minimized ordering, installation and commissioning expenses
- Can even be directly mounted to moving system components
- Easily interchangeable valve slices

Smart Cubic Applications

CPV-SC is targeted primarily at the electronics industry and light assembly (e.g. manufacturing and assembly of small, lightweight parts), and the semiconductor industry (e.g. chip manufacturing and processing).

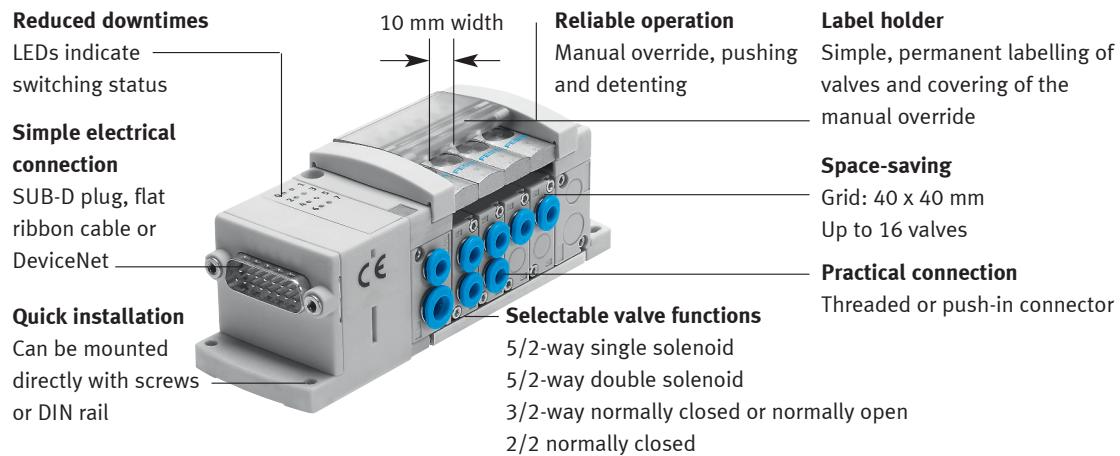
System Expansion per Manifold

- DeviceNet + Profibus, additional 16 coils with expansion, plus 16 inputs
- Festo CPI – up to 512 coils for most CPX/CPI systems, plus 512 inputs

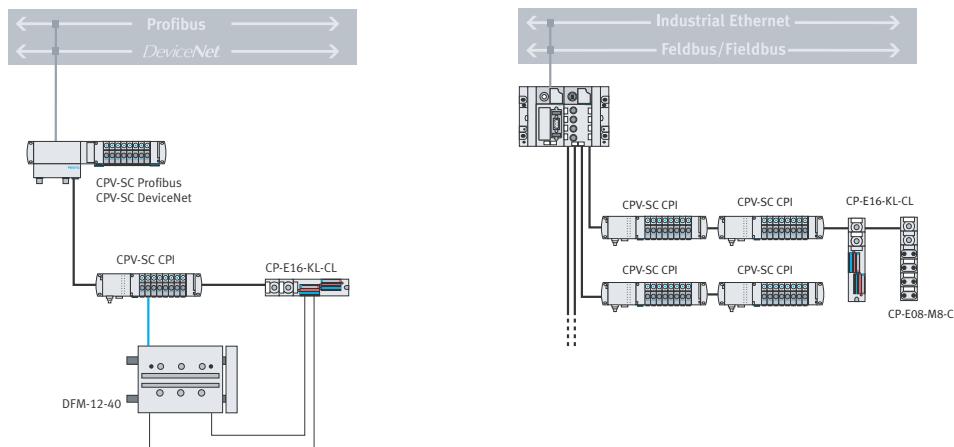
CPV-SC.PSI.US

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Control Architectures for Fieldbus Versions



Technical Data

Operating medium	Filtered compressed air, lubricated or unlubricated, inert gases
Design	Electromagnetically actuated piston spool valve
Type of mounting	Wall mounting, DIN rail mounting
Valve width	10 mm
Size	Height: 40 mm; width: 40 mm; length depends upon included valves
Flow rate	Up to approx. 0.17 Cv [170 l/min]
Valve positions	Up to 16 per manifold
Operating pressure:	
with internal pilot air supply	45 ... 105 psi [3 ... 7 bar]
with external pilot air supply	26.6 in Hg ... 105 psi [-0.9 ... +7 bar]
Pilot pressure	45 ... 105 psi [3 ... 7 bar]
Response time	10 ms
Ambient temperature	23 ... 104°F [-5 ... +40°C]
Operating voltage:	
Individual connections	5 V DC ±10%, 12 V DC ±10%, 24 V DC ±10%
Multipin and Fieldbus Direct	24 V DC ±10%
Electrical power consumption	1.0 W
Protection	IP40

Festo Corporation

For ordering assistance, or to find your nearest Festo Distributor,
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Fax: 1.800.96.FESTO
Email: customer.service@us.festo.com
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