

# Clean design valve terminal CDVI with DeviceNet

FESTO



## DeviceNet

### Clean combination – direct interfacing of the valve terminal CDVI to the DeviceNet fieldbus system

The CDVI combines proven valve technology encapsulated in a highly resistant polymer material.

- NEW:** a built-in DeviceNet node for integration in DeviceNet-controlled systems, thus enabling the requirements of the foodstuffs industry to be met.
- Clean-design valves for the foodstuffs industry. Corrosion-resistant valves that are easy to clean.
  - Installation-saving solution thanks to integrated DeviceNet fieldbus in a clean design.
  - Possibility of expansion via CP connection. CP expansion with all CP valve terminals via the well-known CP range.
  - The technical data: valve functions 5/2, 5/2 double solenoid, 5/3, 2 x 3/2 valves, modular in a basic pattern of 4 and 8 and expansion modules in blocks of 2.
  - Extensive diagnostic concept: LEDs, module-oriented diagnostics, preventive maintenance (condition monitoring).



Easy to clean,

corrosion resistant

suitable for splash zones!

230.2.PSI →

Product Short Information

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## Technical specifications

| Designation          | CDVI-DN  |
|----------------------|--|
| Protection class     | IP65/IP67 (in preparation: IP69k up to 80 °C and 50 bar, NEMA 6)   |
| Display elements     | 4 x LED for network status, load voltage of valves, power supply and CP system   |
| Interface/connection | "Bus IN/OUT" (M12 A-coded) for DeviceNet<br>"24V DC" (M12 A-coded) for system and load supply<br>"CP" (M9) for expansion with IO modules of the CP installation system   |
| System capacity      | Fixed groups of 4 or 8 valves, each capable of modular expansion by 2 x 2 valves positions, up to three pressure zones possible. Possibility of expansion via CP connection with modules of the CP installation system |
| Valve functions      | 5/2, 5/2 double solenoid, 5/3, 2 x 3/2 way valve   |
| Standards            | In conformity with the DeviceNet specification (ODVA V2.0, Errata 5.0)   |



## CDVI with DeviceNet connections

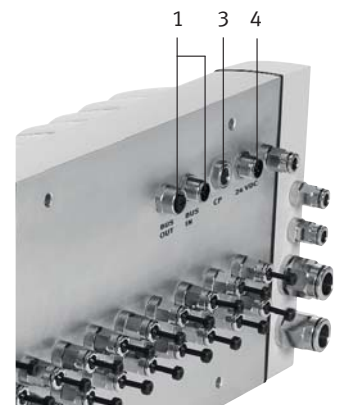
Connections for fieldbus input/output, CP interface and 24 V DC are located on the rear – this is why they are suitable as a cleaning-friendly design.

## Diagnostic functions

Extensive diagnostic concept reduces maintenance and commissioning complexity thanks to: LED diagnosis for valves and fieldbus on-site, acquisition of all operating data via the fieldbus (voltage tolerance, short-circuits, CP module error, etc.), module-oriented diagnostics, integrated hours-run meter and switching cycle counter allow preventive diagnostics and maintenance (condition monitoring).

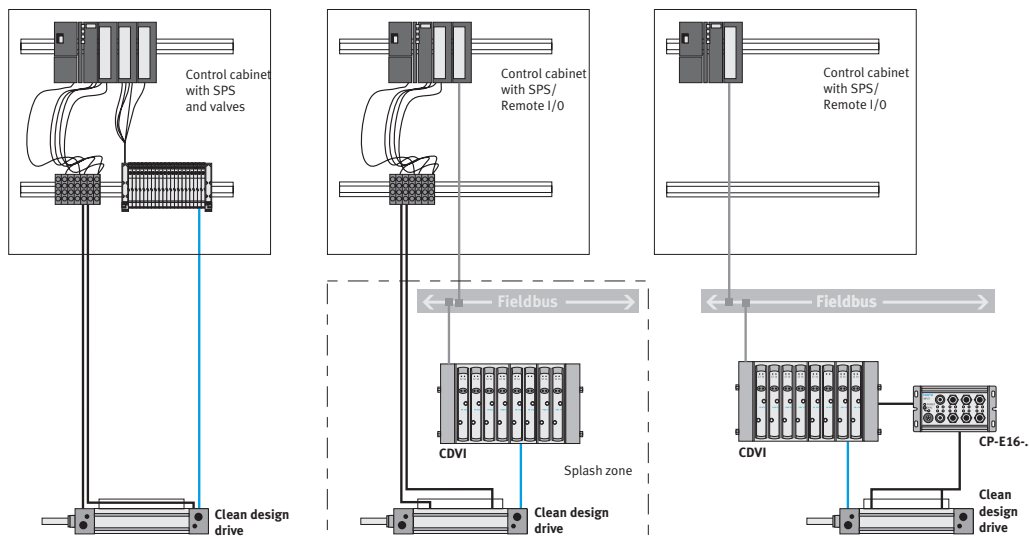


- PS Power system  
Operating voltage of electronics
- PL Power load: Load voltage of valves
- MNS Module/network status
- CP CP expansion modules
- 12/14 Status indication of valve functions



- 1 DeviceNet bus connection (T-tap or daisy chain)
- 3 CP extension connection
- 4 Power supply connection

## Control architecture



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