

Modular valve terminal CDVI

1-step modularity and separate voltage zones

FESTO



Clean & modular

Clean Design with new modularity: Can be expanded mechanically, pneumatically and electrically. Easy to clean throughout, corrosion-resistant and suitable for installation in splash zones – at all levels from individual valves to complete valve terminals.

New: Modularity in steps of 1 module

Even more flexible assembly, precisely matching the needs of a given application. Saves space and money. Can be expanded up to 16 valve positions.

New: Expanded pressure range

Auxiliary pilot air up to 8 bar reduces the cost of external pilot air.

New: New valve functions

3/2-valve functions with external compressed-air supply allow creation of flexible pneumatic control chains.

New: Just one CDVI is enough!

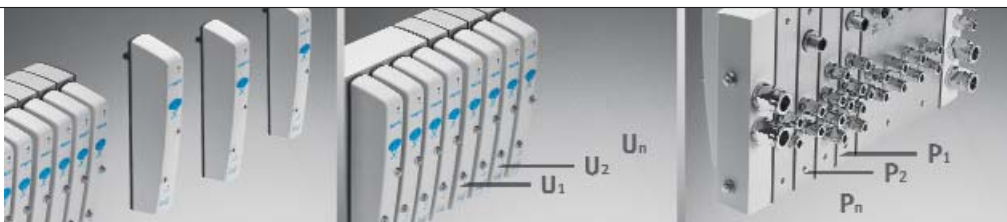
With an extra compressed-air supply for each expansion module, it is even possible to cover applications with numerous pressure zones with just one CDVI. The result – simpler installation!

New: Additional electrical power supplies

Valves can be switched off individually during an emergency stop, thus giving greater safety.

Comprehensive diagnostic concept

LEDs, module-oriented diagnosis, preventive maintenance (condition monitoring) via DeviceNet.



Flexible³: Facility for mechanical, electrical and

pneumatic expansion!

204.3.PSI →

Product Short Information

Modular valve terminal CDVI

1-step modularity and separate voltage zones

	Multi-pin	Field bus
Valve positions max.	16	16
Valve coils max.	24	24
Modularity	4+1+1+1+...	8+1+1+1...
	4+2+1...	8+2+1...
Expansion modules	2-fold: 4 valve coils 1-fold: 2 valve coils 1-fold: 1 valve coil	
Pilot pressure [bar]	3-8	
Pressure zones max.	3	13
With valves X, W	12	16
Operating voltage [V]	24 V DC +/- 10 %	
Power consumption [W]	2.8 per solenoid coil (with LED)	
Max. voltage zones	1	13
Valve functions	5/2, 5/2 double-solenoid, 5/3, 2x3/2-way valves	
Valves X, W	3/2-way valve with external supply air	

Diagnostic functions

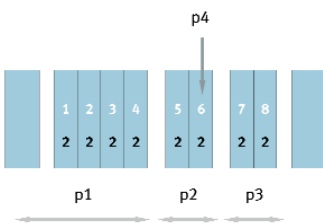
Comprehensive diagnostic concept reduces maintenance and commissioning costs with local LED diagnosis for valves and field bus, acquisition of all operating data via field bus (voltage tolerance, short circuits, CP module errors, etc.), module-oriented diagnosis, integrated operating-hour and switching-cycle counters allow preventive diagnosis and maintenance (condition monitoring).

CDVI with DeviceNet

The electrical connections are at the rear, helping to achieve an easy-to-clean design.

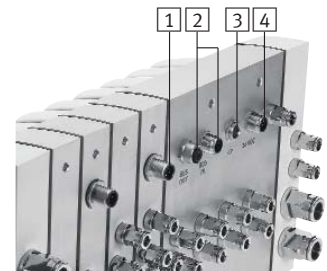
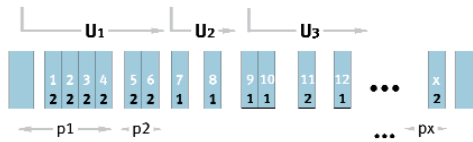
Example:

Pressure zones and additional air supply at X valve



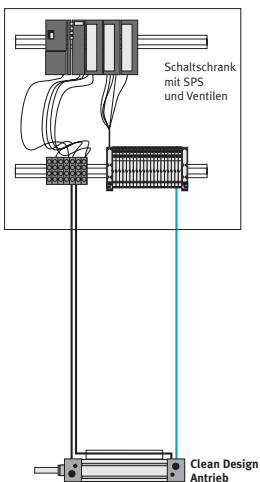
Example:

Additional electrical power supplies, e.g. for selective emergency stop

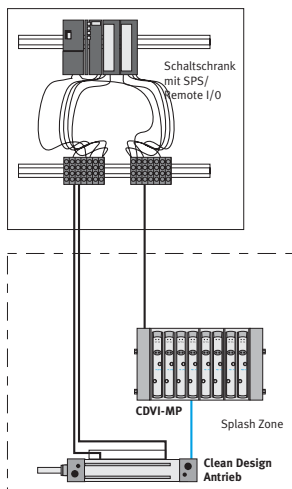


Control system architecture

Conventional

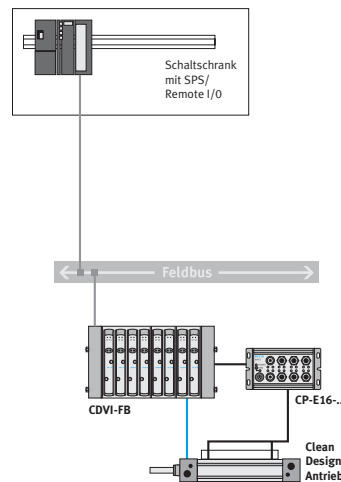


CDVI multi-pin



- Shorter cycle times
- Ultra-simple servicing

CDVI field bus



- Shorter cycle times
- Ultra-simple servicing
- Diagnosis/condition monitoring
- Can be expanded up to 16 valve positions
- Flexible voltage zones
- Less wiring

- 1 Additional electrical supply
- 2 DeviceNet bus interface (T-tap or daisy chain)
- 3 CP expansion connection
- 4 Electrical power supply connection

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