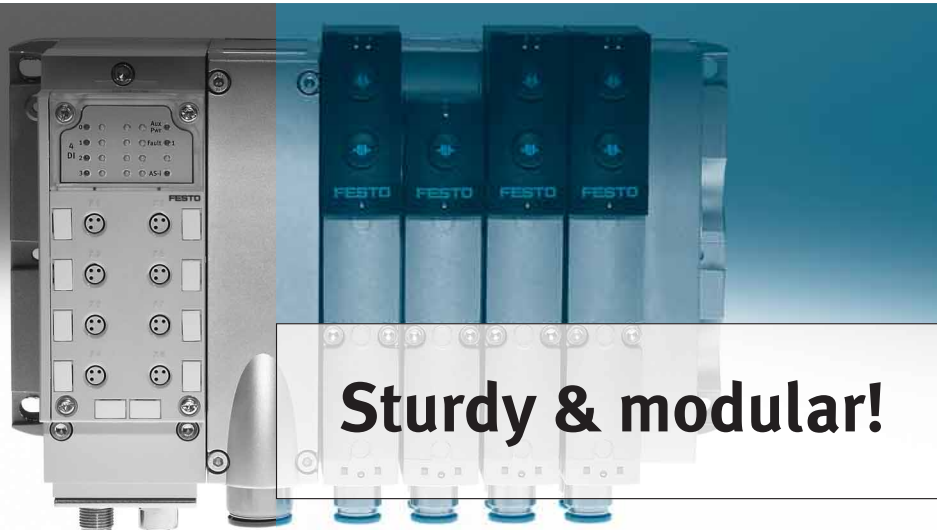


# VTSA valve terminal for AS-interface

## Modular, flexible and with three valve sizes



**Flexible decentralisation and cost-effective installation made easy with the VTSA valve terminal, with its high flow rates, and an AS-interface system.** In total, the advantages of innovative valve technology and a high-performance bus interface. Typical of AS-interface: A simple systematic solution.



### Electrical performance

“Flexible” here means compact, with integrated inputs and choice of electrical connection systems. Moreover, the cost of component stocks is halved, thanks to the choice of power supply via yellow or black cables. 4 I/Os or 8 I/Os as a double slave. With ample power: 350 mA per input.

gauges for precision pressure at each valve position.

### AS-interface performance

Specification 2.1 with a fault bit and LED per slave. Bus and additional power supply looped through via 2x M12 plugs. Diagnostics for each slave. Watchdog. A/B operation on request.

### Pneumatic performance

On one platform: 1 ... 8 modular valve positions, all valve functions, several pressure zones, mix of three valve sizes possible for different flow rates. Together with pressure regulators and

### Applications

Highly modular e.g. for special machines or applications with option of modification. Sturdy, with high flow rate; ISO 15407, ISO 5599-2 – all told: ISO unlimited. Ideal for chain-link trunking or humid environments.



Bus 2x M12: Easy expansion



Any desired mix of 3 valve sizes



Exploit the modularity for I/Os

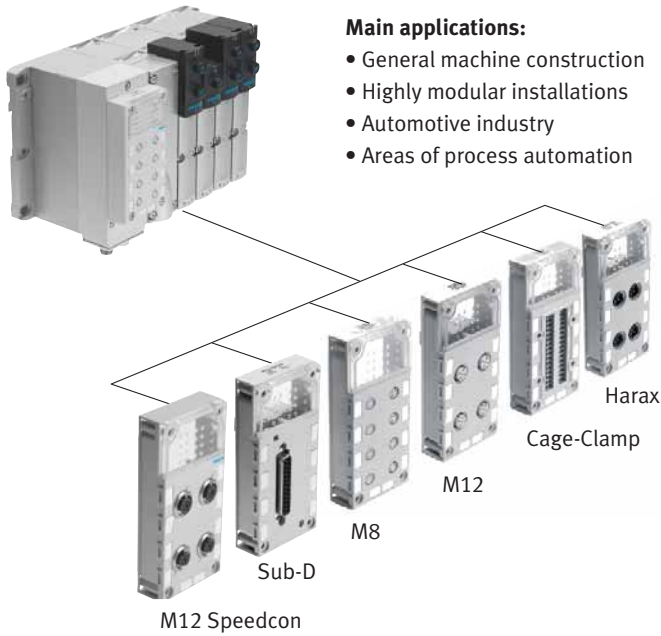
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Product Short Information

# VTSA valve terminal for AS-interface

## Modular, flexible and with three valve sizes

### Choice of connection system for inputs



#### Main applications:

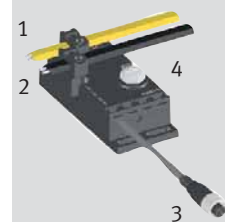
- General machine construction
- Highly modular installations
- Automotive industry
- Areas of process automation

### Three good reasons ...

... to choose Festo AS solutions

1. Up to 40% faster cycle times, thanks to shorter tubing lengths. Optimum decentralised AS-interface installations with VTSA-ASI valve terminals and AS-i I/O modules.
2. Lower energy consumption and optimised pneumatic sequences with optimally-sized control chains. Switchable power supply gives flexibility and reduces need for component stocks. Ideal pairings of 4 valves and 8 inputs create transparency and reduces faults.
3. Cut installation costs by as much as 40% compared with conventional solutions – using AS-interface!

### Flat cable distributor – M12 connection

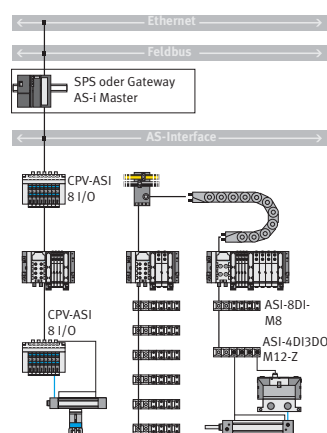


- 1 AS-interface flat cable
- 2 External power supply
- 3 Pre-fitted cable with M12 socket
- 4 M12 socket for connection of AS Interface slave

Technical data	AS-interface (AS-interface Spec. 2.1)	
Int. power consumption	Electronics 4 I/Os 15 mA, 8 I/Os 25 mA	
AS-interface display	Green/red LEDs	
Bus connection	M12 4-pin or AS-interface yellow profile cable 2x1.5 mm via adapter	
Degree of protection	IP65	
Mounting	DIN top-hat rails and wall mounting	
<b>External power supply</b>		
Operating voltage	24 V, ± 10%	
Connection	M12 4-pin via bus connection	
<b>Technical data for I/Os</b>		
4E/A	4x inputs, 1-4 valve coils	
8E/A	8x inputs, 1-8 valve coils	
<b>Technical data for outputs</b>		
Max. switching current with external power supply 24 VDC		
4E/A	266 mA (all sizes) <sup>1)</sup>	
8E/A	533 mA (all sizes) <sup>2)</sup>	
Valves	Supports 18, 26 and 42 mm valves	
Display	Yellow LED	
<b>Technical data for inputs</b>		
Sensor power supply	Max. 350 mA per input	
Total current	350 mA (with/without ext. p/supply) <sup>1)</sup>	
Short-circuit protection	Yes, short-circuit and overload protection (complete module)	
	4 I/Os	8 I/Os
No. of AS-interface chips	1	2
ID code	Fh	Fh
Expanded ID code	Fh	Fh
I/O code	7h	7h

### Control system architecture

Valve terminals and “Compact Line” I/O modules in an AS-interface network



### AS-interface accessories



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<sup>1)</sup> Auxiliary power supply, can be switched on/off. Without auxiliary power supply, max. 500 mA for valves and inputs  
<sup>2)</sup> Always with auxiliary power supply