

# Valve terminal MPA-FB-AP-VI

Part number: 550808

FESTO



## Data sheet

Feature	Value
Electrical actuation	AP interface Fieldbus
Valve terminal type	32
Type of mounting	Direct mounting via through-hole On H-rail with accessories On mounting frame Screwed tightly with through-hole for M5 screw with accessories with through-hole for M6 screw with accessories with through-hole for M5 screw with through-hole for M6 screw
Mounting position	Arbitrary, on H-rail: horizontal
Operating medium	Compressed air as per ISO 8573-1:2010 [7:4:4]
Temperature of medium	-5 °C...50 °C
Ambient temperature	-5 °C...50 °C
Note on ambient temperature	Observe ambient temperature derating according to IEC 61131-2:2017
Storage temperature	-20 °C...40 °C
Relative air humidity	5 – 90% at 40 °C Non-condensing
Max. installation height	3500 m
Information on max. installation height	> 2000 m ASL (< 79.5 kPa) Observe ambient temperature derating according to IEC 61131-2:2017
Degree of protection	IP67
Corrosion resistance class (CRC)	1 - Low corrosion stress
Operating pressure	-0.9 bar...10 bar
Pilot pressure	3 bar...8 bar
LABS (PWIS) conformity	VDMA24364-B1/B2-L
CE marking (see declaration of conformity)	As per EU EMC directive As per EU RoHS directive
Certification	RCM compliance mark
Note on materials	RoHS-compliant Halogen-free Free of phosphoric acid ester
Valve manifold design	Modular, pneumatic valve sizes can be mixed
Max. no. of valve positions	64

Feature	Value
Max. no. of pressure zones	17
Actuation type	Electrical
Valve function	2/2, closed, monostable 2x3/2, closed, monostable 2x3/2, open, monostable 2x3/2, open/closed, monostable 3-way proportional pressure control valve 3/2, closed, monostable 3/2, open, monostable 5/2, bistable 5/2, monostable 5/3, pressurized 5/3, exhausted 5/3, closed
Structural design	Piston gate valve Poppet valve with return spring
Pilot air supply port	External Internal
Suitability for vacuum	yes
Flat plate silencer	At one end
Signal status display	LED
Fieldbus interface, protocol	ACD (Address Conflict Detection) DLR (Device Level Ring) EtherCAT EtherCAT CoE EtherCAT Distributed Clocks (DC) EtherCAT EoE EtherCAT FoE EtherCAT Modular Device Profile (MDP) EtherNet/IP EtherNet/IP QoS EtherNet/IP Quickconnect LLDP MRP, MRPD (ring redundancy) Modbus/TCP (Modbus/UDP) PROFINET FSU PROFINET I&MO ..3 PROFINET IRT PROFINET RT PROFINET Shared device S2 system redundancy SNMP
Fieldbus interface, connection type	2x socket
Fieldbus interface, connection technology	M12x1, D-coded as per EN 61076-2-101 RJ45 as per IEC 61076-3-117 (V14) SCRJ as per IEC 61754-24-21
Fieldbus interface, number of poles/wires	2 ...8
Information on inputs	EP: 488 bytes Modbus: 4096 bytes
Power supply, function	Incoming electronics/sensors and load and functional earth
Power supply, type of connection	Plug
Power supply, connection technology	7/8" as per NFPA/T3.5.29 M12x1, L-coded as per EN 61076-2-111 M18x1 Push-pull as per IEC 61076-3-126
Power supply, number of pins/wires	4 ...5
Nominal operating voltage DC	24 V
Note on nominal operating voltage DC	Protected Extra-Low-Voltage as per IEC 60204-1
Permissible voltage fluctuations	+/- 25 %
Nominal operating voltage DC for electronics/sensors	24 V
Permissible voltage fluctuations for electronics/sensors	± 25 %
Power failure buffering	10 ms
Potential separation between the supply voltages electronics/sensor technology and load/valves	yes

Feature	Value
Reverse polarity protection	yes