

# Valve terminal MPA-FB-AP-VI

Part number: 550808

FESTO



## Data sheet

Feature	Value
Electrical control	AP interface Fieldbus
Terminal type	32
Type of mounting	Direct mounting via through-hole On H-rail via accessories On mounting frame Screw-clamped With through-hole for M5 screw with accessories With through-hole for M6 screw with accessories Via through-hole for M5 screw Via through-hole for M6 screw
Mounting position	Any, on H-rail: horizontal
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]
Media temperature	-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
Note 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 mark (see declaration of conformity)	To EU EMC Directive In accordance with EU RoHS Directive
Approval	RCM trademark
Note on materials	RoHS-compliant Free of halogen Free of phosphoric acid ester
Valve terminal structure	Modular, valve sizes can be mixed
Max. number of valve positions	64

Feature	Value
Max. number of pressure zones	17
Type of actuation	Electric
Valve function	2/2-way, closed, monostable 2x3/2-way, monostable, closed 2x3/2-way, open, monostable 2x3/2-way, open/closed, monostable 3-way proportional pressure regulator 3/2-way, closed, monostable 3/2 open, single solenoid 5/2 double solenoid 5/2-way, monostable 5/3-way, pressurised 5/3 exhausted 5/3 closed
Design	Piston gate valve Poppet valve with spring return
Pilot air supply	External Internal
Suitability for vacuum	yes
Flat silencer	on one side
Signal status display	LED
Field bus, 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
Field bus, connection type	2x socket
Field bus, connection system	M12x1, D-coded to EN 61076-2-101 RJ45 to IEC 61076-3-117 (V14) SCRJ to IEC 61754-24-21
Field bus, connection pattern	2 ...8
Note on inputs	EP: 488 bytes Modbus: 4096 bytes
Power supply, function	Incoming electronics/sensors and load and functional earth
Power supply, connection type	Plugs
power supply, connection system	7/8" to NFPA/T3.5.29 M12x1, L-coded to EN 61076-2-111 M18x1 Push-pull to 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 to IEC 60204-1
Permissible voltage fluctuations	+/- 25%
Nominal DC operating voltage, electronics/sensors	24 V
Permissible voltage fluctuations for electronics/sensors	± 25%
Power failure bridging	10 ms
Potential separation between the supply voltages electronics/sensor technology and load/valves	Yes

Feature	Value
Reverse polarity protection	yes