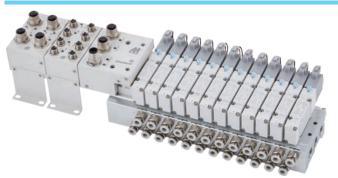
## FIELDBUS SYSTEM SERIES MVE

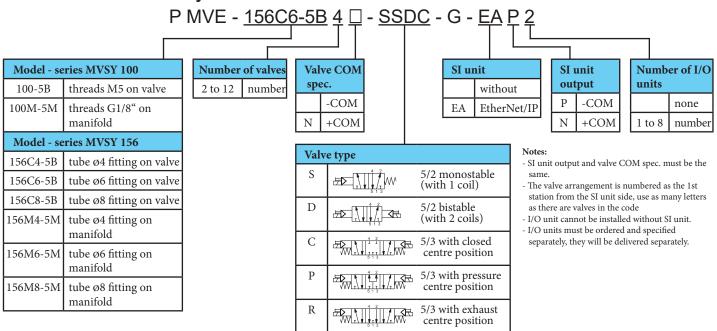


# **9** STRÁNSKÝ <sub>A</sub> PETRŽÍK



The fieldbus system of the MVE series system allows the connection and control of valves and other inputs and outputs using the EtherNet / IP protocol. Up to 23 channels are available in one set for the control of associated valves (MVSY 100 and MVSY 156 series) as well as up to 8 input and output units, with 8 inputs or 8 outputs in each unit. It is therefore easy to connect and control the island with valves and send back to the control system, for example, the states of the end position sensors. The configuration can be modified using a web browser or using a configuration program on a computer. Both the main and I/O units have LEDs that inform the user of the status.

### Order codes of fieldbus system with valve and serial interface



blocking plate (w/o valve)

В

#### Order codes of I/O units

Order code	Description
PMVE-100-DIPA	DI unit - 8 inputs PNP
PMVE-100-DINA	DI unit - 8 inputs NPN
PMVE-100-DOPB	DO unit - 8 outputs PNP
PMVE-100-DONB	DO unit - 8 outputs NPN

#### Technical data of SI unit (serial interface)

Description	Value
Interface protocol	EtherNet/IP
Communication speed	10/100 Mbps
Configuration file	EDS
Power connector	M12 (5 pins)
Control & input power supply	24V DC class 2, 2A
Output power supply	24V DC class 2, 2A
Consumption	12W
Polarity of output for valves	PNP (-COM), NPN (+COM)
Power supply of valves	24V DC class 2, 2A
Number of valve outputs	23
Suitable valves	MVSY 100, MVSY 156, 24V DC
Fail safe of valves	hold, off, setting value
Protective function for valve	short circuit protrction
Working environment	temperature -20°C to +50°C, humidity 10% to 90% RH

#### Example of order codes of fieldbus system assembly with valves and I/O units

PMVE-156M4-5M6-DSSSSS-G-EAP3

- Set of 6 valves MVSY 156 (1x 5/2 bistable, 5x 5/2 monostable) with tube ø4 fittings on the manifold, -COM, incl. SI unit for 3 I/O units. 2 pcs ... PMVE-100-DIPA 2 digital input units PNP (total 16 inputs) 1 pc ... PMVE-100-DOPB Digital output unit PNP (total 8 outputs)
  - DO DI 3 MVSY-156M-4E1-DC24 (5 pcs) MVSY-156M-4E2-DC24 (1 pc)
    - For more information please visit our web page on www.sappv.cz/r/e13e

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## **9** STRÁNSKÝ A PETRŽÍK

#### Technical data of DI unit (digital input)

Description	Value
Inpout type	PNP or NPN
Input connector	8x M8 (3 pins)
Number of inputs	8 (1 input / connector)
Sensor supplied voltage	24V DC
Max. sensor supplied current	0.25A / connector, 2A / unit
Rated input current	9 mA
ON voltage (NPN input)	≥17V
OFF voltage (PNP input)	≤5V
Features	Short / open - circuit detection
Power supply voltage	24V DC class 2, 2A
Working environment	temperature -10°C to +50°C, humidity 35% to 85% RH
Isolation	500V AC, 10MΩ

#### Technical data of DO unit (digital output)

Description	Value
Output type	PNP or NPN
Output connector	4x M12 (5 pins)
Number of outputs	8 (2 outputs / connector)
Rated load voltage	24V DC
Max. load current	0.5A / connector, 2A / unit
Features	Short / open - circuit detection
Power supply voltage	24V DC class 2, 2A
Working environment	temperature -10°C to +50°C, humidity 35% to 85% RH
Isolation	500V AC, 10MΩ

