



# Smartly positioned

High-precision positioner for industrial valves

- Precisely approach and hold any valve position
- Extensive diagnostic functions enable condition monitoring via IO-Link
- Individually adjustable RGB LEDs for clear visual feedback and localisation
- Flexible, modular system: sensor, solenoid valve, throttle plate and connection cables in a set



**ifm** – close to you!

### Precise positioning of valves

Positioners are used to move valves and ball valves precisely to the required position, based on a signal from the control level indicating the degree to which the valve is to open in percent.

The positioner developed by ifm is based on the proven MVQ sensor and is supplemented by a new control unit. The connected solenoid valve is precisely controlled using the algorithms integrated in the MVQ. By controlling the supply and exhaust air, the valve is reliably moved to the required position and held there securely. The positioner provides feedback via its indicators and the control system when the valve has reached the required position.

The device has several teach-in modes to maximise efficiency and ease of set-up. Besides, a self-learning algorithm has been developed that continuously monitors, improves and expands the performance of the positioner.

### Complete set

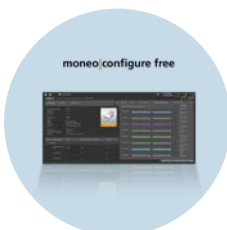
The MVQ positioner is supplied as a comprehensive set consisting of the MVQ301 sensor and control unit, a pneumatic solenoid valve, a throttle plate and a Y cable. Its modular design makes it easy to install directly on the NAMUR interface of the actuator. Different versions of the set are available, which differ, for example, in their behaviour to power or compressed air failures.

Available sets		Order no.	
MVQ301 sensor and control unit, EVC508 Y connection cable, throttle plate, silencer (pre-mounted)	+	3/3-way solenoid valve (NAMUR)	<b>ZZ0687</b>
	+	5/3-way solenoid valve (NAMUR)	<b>ZZ0686</b>
	+	5/3-way solenoid valve (NAMUR) with fail-safe position	<b>ZZ0688</b>

Common technical data of the sets		
Operating range of the actuator	[°]	50...300
Indication of the operating range	[%]	0 corresponds to CLOSE, 100 corresponds to OPEN
Control accuracy	[%]	± 0,5
Operating pressure of the solenoid valve	[bar]	3...8
Compressed air flow rate	[l/min]	max. 1250
Environmental conditions	[°C]	-25...70 (sensor) -10...50 (solenoid valves)
Communication interface		IO-Link
Required master port class		B
Protection rating		IP65

## BEST FRIENDS

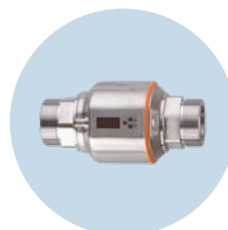
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**moneo|configure free**  
Software for parameter setting of the IO-Link infrastructure



**IO-Link masters**  
Masters with Profinet interface for use in the field



**Flow meters**  
Flow, total quantity and temperature measurement



For further technical details, please visit:  
[ifm.com/fs/MVQ301](https://ifm.com/fs/MVQ301)