Proportional pressure regulator VPPX

Top process quality!

The performance of the proportional valve VPPX from the valve series VPPM leaves nothing to be desired. The freely parameterisable PID controller and the external sensor input make realising even customer-specific tasks quick and easy. All in all, it offers maximum flexibility and top process quality.

Highlights

- Programmable, freely adjustable PID controller
- Actual value input for external sensors increases process quality
- FCT plug-in for easy and optimised parameterisation
- High control precision for applications with an external sensor

Better performance
The freely adjustable PID controller offers better performance than standard controllers for many applications.

Better flexibility
The free choice of setpoint and actual value inputs and outputs makes the VPPX extremely flexible: everything is individually adjustable, the in- and outputs can be set to the same or different units and defined as either current or voltage.

Better process quality
An actual value input for external sensors increases the process quality by providing an easy way of controlling all influences and interference in the controlled system.

Easy and precise parameterisation
The plug-in for the “Festo Configuration Tool” (FCT) enables easy parameterisation. The oscilloscope function immediately shows the effect of the controller setting. The setpoint value, internal actual value as well as the external sensor curve are displayed and provide a quick overview of the control. This means that the entire system can be easily adjusted for the optimum control characteristics or system requirements.

Good compatibility
The actual value input is compatible with all sensors that supply a current or voltage signal. This means that all physical variables that can be directly influenced with air or an appropriate actuator can be controlled.

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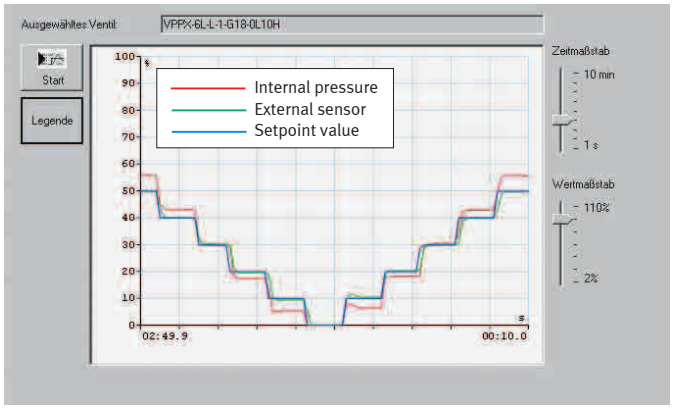
Parameterisation using FCT software tool



Oscilloscope function of the FCT for a quick overview of the controller settings

Y cable for programming

Programming adapter

Functions

- PID parameterisation via FCT
- Configuration via FCT
- Parameter memory in flash memory
- Parameter storage as file on PC or laptop
- Parameter download from the valve

Applications

- Pressure control with internal sensor
- Pressure control with external pressure sensor
- Force control
- Torque control
- Vacuum control via Venturi nozzle
- Flow control

Technical data					
Valve function	3-way proportional pressure regulator				
Flow rate	10 bar	NG6	NG8	NG8 flange	NG12[1]
		1,400 l/min	2,750 l/min	1,650 l/min	7,000 l/min
Pressure range	0.1 ... 10 bar				
Pneumatic connection	G1/8", 1/4", 1/2"[1], flange				
Design	Inline (G1/8", 1/4", 1/2"[1]) or flange (NG6/NG8)				
Setpoint value	Current or voltage (can be set via FCT)				
Actual value	Current or voltage (can be set via FCT)				
Electrical connection	M12 plug, 8-pin				
Connecting cables	Pre-assembled 5 m cable with open cable ends				
	Y connecting cable for parameterisation				
	Programming adapter				
Protection class	IP65				

[1] Available in Q2/2014