Maintaining constant pressure

of gas supply to a gas burner

in compressed air equipment

of gas flow in medical equipment

in a supply line

Pressure control

Pressure control

Pressure control

• CO<sub>2</sub> pressure control

in the food industry

Control of liquid supply

in water treatment facilities

Fluid Control Systems

•



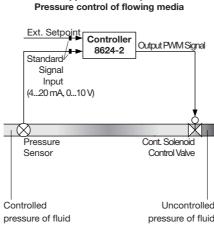
This PI-controller allows to setup a closed loop control for controlling pressure. It can be combined with a solenoid control valve (i.e. 6022, 6023, 6223 and 2832, 2834, 2836) and a pressure sensor with standard signal 4...20mA.

The setpoint can be programmed not only manually, but also from an external PLC or other process controller.

The PI-controller can be used to control the pressure of flowing gas or liquids. In the latter case, the standard signal input from the pressure sensor of the controlled fluid is constantly compared to the programmable setpoint.

Flexibility to the process is given by many different features, such as scaling, programming of process control parameters, setting of the external or internal setpoints as well as by monitoring the process value on the display.

Application example:



 Pressure controlled processes in the chemical industry

Uncontrolled pressure of fluid

Basic demand: Pressure of fluid > controlled pressure

burkert

# PI-Controller for Easy Pressure Control

## Type 8624-2

Technical Data			
Operating voltage	24 V DC	LCD-display	4 digit numeric display
Power consumption	Max. 1.5 W		4 letter text display
INPUTS		OUTPUTS	
Sensor	Standard signal	Outputs to valve	
	420 mA or 010 V	Output signal	electr. PWM-signal
Resolution	10 Bit		(pulse-width-modulation)
External setpoint	Standard signal	Output current	max. 1.0 A
	420 mA or 010 V	Electr. connection	Plug-on acc. to DIN 43 650 A
Resolution	10 Bit	to valve	(secured with a screw)
Electrical connections to			Can be mounted in rotational
Sensor	1 Male connector		increments of 90°
	M8 (3 pins)	Rating (plugged-on)	IP 65
Power supply and		Ambient temperature	-10 °C +60 °C
external setpoint	1 Male connector	Housing material	Polyamide (PA)
	M12 (4 pins)	Weight	approx. 130 g
Programming	- Setting of internal or external setpoint		
	-Elimination of turn-down ratio		
	-Non-inverted and inverted		
	control direction		

-Zero-point switch off

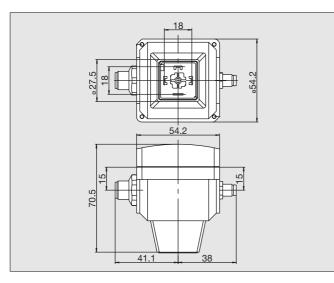
#### **Ordering Chart**

Туре:	Item-No.:
Pressure Controller 8624-2	143 570 G

### Ordering Chart Accessories (Cables and Connectors)

Description / Feature:	Connecting PI-Controller with:	Item-No.:
Connector M12 with 5.0 m cable (4 wire)	Power supply / External setpoint	918 038 T
Connector M8 with 2.0 m cable (3 wire)	-	918 039 U

#### Dimensions [mm]





We reserve the right to make technical changes without notice. 001-GB/ 1-0207