PROPORTIONAL PRESSURE REGULATOR WITHOUT CONTROL ELECTRONICS PG
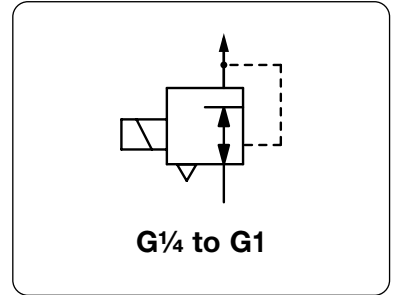
Description	Proportional pressure regulator without integrated control electronics and without internal pressure sensor. The setpoint is given to the solenoid as a 24V PWM signal. The output pressure of the proportional pressure controller can be measured with an external sensor. This turns an „open" control loop into a closed control loop.
Media	dry, lubricated or non-lubricated and 50 µm filtered compressed air or neutral gases
Signal voltage	24 V DC +/-10%
PWM frequency	G¼: 330 to 1000 Hz G½ and G1: 330 to 700 Hz
Rated current	DN6: 1000 mA (24 W); DN12: 1400 mA (34 W); DN20: 1800 mA (44 W)
Electrical connector	Coupling socket according to DIN 43650
Accuracy	depending on the quality of the external sensor and the design of the control loop, < 1% possible
Regulating time	1s over the control range, 70 ms over 90% of the range at 0 liter volume
Mounting position	vertical **Protection class:** IP 65
Temperature range	Ambience: -10 °C bis +60 °C / 14 °F to 140 °F
Material	Body: Aluminium Inner valve: stainless steel and brass Elastomer: NBR/Buna-N

G¼ to G1

Dimensions			Nominal size	K_v-value	Flow rate	P1 max.	Connection thread	Pressure range	Order number
A	B	C	DN	(m³/h)	l/min*¹	bar	G	bar	E*
mm	mm	mm							

Proportional pressure regulator without electronics PG

A	B	C	DN	K_v	Flow	P1	G	range	Order
52	115	35	6	0.6	700	8	G¼	0… 6	**PG2-0600**
						16		0… 16	**PG2-1600**
70	151	45	12	1.2	1400	12	G½	0… 12	**PG4-1200**
96	188	60	20	4.8	5600	12	G1	0… 10	**PG8-1000**

PG2

Special options, add the appropriate letter

FKM elastomers	PG . - . . . . **V**

PG4

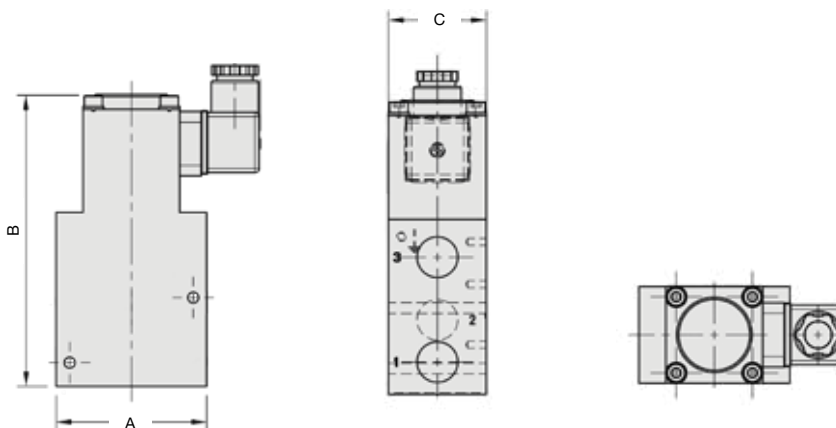## Accessories, enclosed

Plug amplifier	Electrical connection M12, 5-pin
	Configuration via PC interface and programming adapter
	or alternatively via switches integrated in the line socket.
	Supply voltage: 24 V DC Rated current: max. 1.1 A
	command signal: 0-10V for PG2 **PVY-02U**
	command signal: 4-20mA for PG2 **PVY-02I**

Plug amplifier
PVY-02.

PG4

1: Input
2: Output
3: Exhaust

* product group

Order example:
PG2-0600

Prop.-D.

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