# Skillair PILOT REGULATOR



The pilot regulator is used when great accuracy is required in maintaining the set pressure under changing operating conditions.

It is ideal for use as:

- a precision regulator for flow rates < 100 NI/min.
- a pilot in general typically for large size regulators (see **REG** 400)

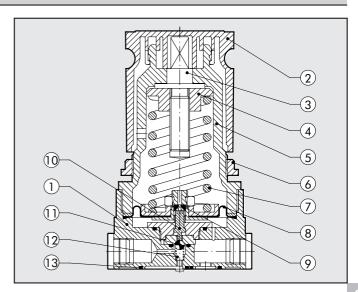
The system's high operating accuracy and low hysteresis are determined by the virtually total lack of friction. The presence of a slight air leak is necessary for the regulator to operate properly – it is not a malfunction. It is advisable to use filtered air.



TECHNICAL DATA		PILOT REGULATOR
Threaded port		G 1/4"
Setting range	bar	0÷2 - 0÷4 - 0÷8 - 0÷12
Max. input pressure	MPa	1.3
	bar	13
	psi	188
Flow rate at 6.3 bar (0.63 MPa-91 psi) ΔP 0.5 bar (0.05 MPa – 7 psi)		120 NI/min - 4,3 scfm
Flow rate at 6.3 bar (0.63 MPa-91 psi) ΔP 1 bar (0.1 MPa – 14 psi)		140 NI/min - 5 scfm
Fluid		Filtered, lubricated or unlubricated compressed air.
		Lubrication, if used, must be continuous.
Max temperature at 1 MPa; 10 bar; 145 psi	°C	50
	°F	122
Weight	Kg	0.6
Mounting		In any position
Pressure gauge port		G 1/8"
Notes on use		The regulator pressure must always be set upwards. For increased sensitivity,
		use a pressure regulator with a rated pressure as close as possible to the required value.
		Do not take air from the pressure gauge ports. Mount directly on REG 400.

## **COMPONENTS**

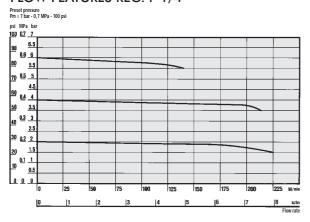
- 1 Aluminium body
- ② Technopolymer knob
- 3 OT58 brass adjusting screw
- 4 OT58 brass scroll
- (5) Technopolymer bell
- **6** Technopolymer ring nut
- 7 Steel adjusting spring
- ® Rolling diaphragm
- NBR relieving gaskets
- (10) OT58 brass stem
- (11) Stainless steel ball valve
- 12 Stainless steel valve spring
- (13) NBR gaskets



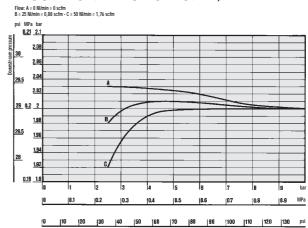


## **FLOW CHARTS**

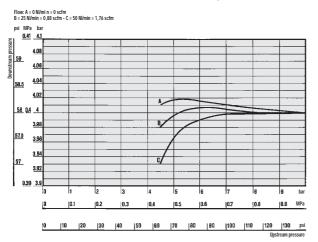
#### FLOW FEATURES REG. P 1/4"



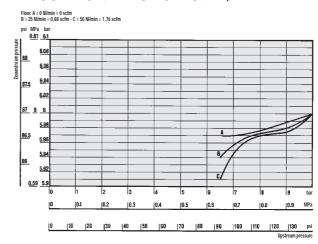
#### REGULATION FEATURES REG. P 1/4" \*



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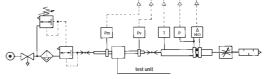


## REGULATION FEATURES REG. P 1/4" \*



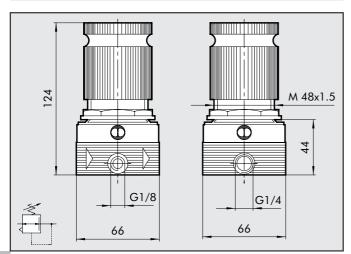






 Flow tests carried out at the Department of Mechanics, Turin Polytechnic, using the computerized test bench following CETOP RP50R recommendations (ISO DIS 6358-2-approved) with ISO 5167 diaphragm gauge.

## **DIMENSIONS**



# **ORDERING CODES**

Code	Description
3206001	REG. P 1/4" 02
3206002	REG. P 1/4" 04
3206003	REG. P 1/4" 08
3206004	REG. P 1/4" 012

<sup>\*</sup> Pressure stability adjusted according to changes in upstream pressure.