Skillair REGULATORS



Each system served by the air supply mains (e.g. actuators and general appliances) requires its own constant operating pressure. It is necessary to use a regulator to regulate the pressure within a set range by means of regulating springs, with the pressure never exceeding the mains pressure. The new Skillair regulator uses a rolling diaphragm which gives a much better performance than the flat version. Advantages of this system:

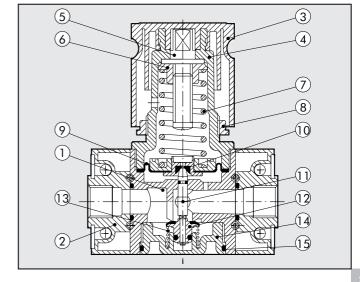
- Increased stroke, increased valve opening and hence higher flow rate.
- Decreased dynamic and inrush friction; prompter, more sensitive operation.
- Reduced working stress and hence longer life allowing the use of thinner diaphragms (0.45 mm versus 1.5 mm for a flat one) which increases regulator sensitivity and prompt action.
- Increased accuracy in maintaining the set pressure with both variable flow rates and different feed pressures.
- Downstream overpressures relieved quickly.



TECHNICAL DATA		REG 100	REG 100	REG 200	REG 200	REG 200	REG 300	REG 300	REG 300
Threaded port		G 1/4"	G 3/8''	G 1/4''	G 3/8"	G 1/2"	G 1/2''	G 3/4''	G 1"
Setting range	bar	0÷2 - 0÷4 - 0÷8 - 0÷12		0÷2 - 0÷4 - 0÷8 - 0÷12			0÷2 - 0÷4 - 0÷8 - 0÷12		
Max. input pressure MPa		1.5		1.3			1.3		
	bar	15		13			13		
	psi	217		188			188		
Flow rate at 6.3 bar (0.63 MPa-91 psi)	NI/min	1100		2500			3500		
ΔP 0.5 bar (0.05 MPa – 7 psi)	scfm	39		88			124		
Flow rate at 6.3 bar (0.63 MPa-91 psi)	NI/min	1600		3500			7000		
ΔP 1 bar (0.1 MPa – 14 psi)	scfm	57		124			247		
Fluid		Filtered lubricated or unlubricated compressed air. Lubrication, if used, must be continuous.							
Max temperature at 1 MPa; 10 bar; 145 psi	°C	50		50			50		
	°F	122		122			122		
Weight	Kg	0.4		0.7			1.4		
Wall fixing screws		M4x50		M5x60			M5x70		
Mounting		In any position							
Pressure gauge port	G 1/8"								
Notes on use	on use The regulator pressure must always be set upwards. For increased sensitivity, use a pressure regulator with a rai						rated pressure		
		as close as possible to the required value. Do not take air from pressure gauge ports.							

COMPONENTS

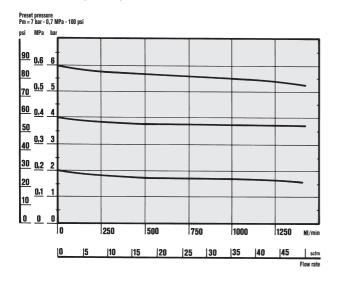
- 1 Technopolymer body
- 2 Zamak end plate
- 3 Technopolymer knob
- 4 Technopolymer bell
- ⑤ OT58 brass adjusting screw
- 6 OT58 brass scroll
- 7 Steel adjusting spring
- (8) Technopolymer ring nut
- Rolling diaphragm
- (10) NBR relieving gaskets
- ① OT58 brass stem
- (12) Valve with NBR vulcanized gasket
- (3) Stainless steel valve spring
- (4) Technopolymer plug
- (5) NBR gaskets



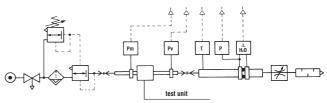


FLOW CHARTS

REG 100 1/4 - 3/8

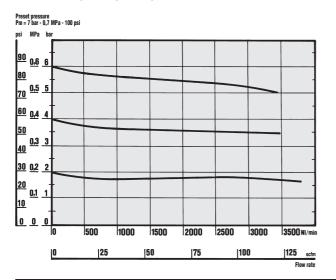




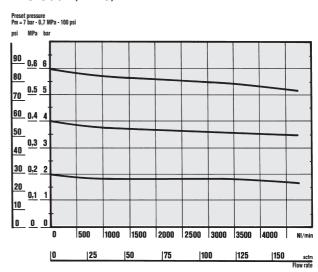


• Flow tests carried out at the Department of Mechanics, Turin Polytechnic, using the computerized test bench following CETOP RP50R recommendations (ISO DIS 6358-2-approved) with ISO 5167 diaphragm gauge.

REG 200 1/4 - 3/8 - 1/2



REG 300 1/2 - 3/4 - 1



DIMENSIONS REG 100 REG 100 REG 200 REG 200 REG 300 REG 300 REG 300 G 1/4 G 3/8 G1/4 G 3/8 G 1/2 G 1/2 G 3/4 G 1" Α 110 Α 93.5 112 78 Ε С В 98 125 148 50 C 63 72 D 43 55 65 63 78.5 92 Ε F 26 36 42 G 1/4 | G 3/8 G 1/4 | G 3/8 | G 1/2 G 1/2 | G 3/4 | G 1" G Н 48x1.5 40x1.5 Н 30x1.5 21.5 27.5 32.5 മ L M4 hole M5 hole M5 hole М 43 55.5 65 Р 46 58 69 \Box 1 G M