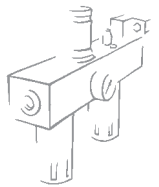


Skillair® PADLOCKABLE REGULATOR



The padlockable regulator has a pin with a hole in it that projects from the top of the knob. When the knob is in the push-lock position, the padlock can be inserted in the hole, preventing the knob from being operated. A padlock and two keys are supplied with the regulator.

The new Skillair regulator uses a rolling diaphragm which gives a much better performance than the flat version.

Advantages of this system:

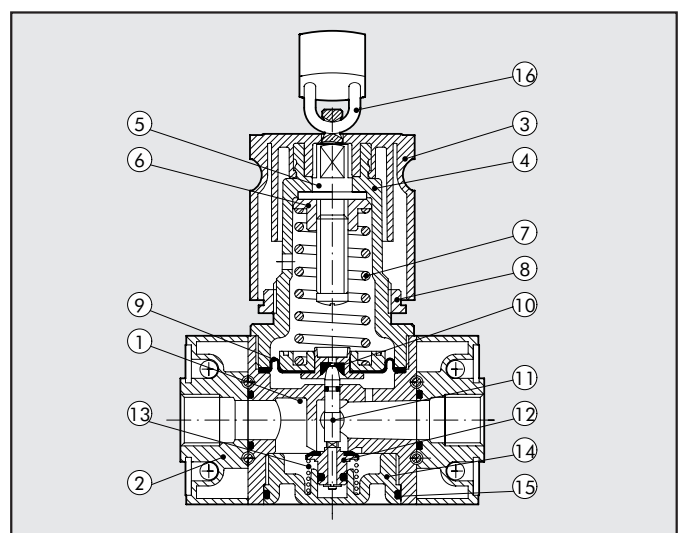
- Increased stroke, increased valve opening and hence higher flow rate.
- Decreased dynamic and inrush friction; prompter, more sensitive operation.
- Reduced working stress and hence longer life allowing the use of thinner diaphragms (0.45 mm versus 1.5 mm for a flat one) which increases regulator sensitivity 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 KEY	REG 100 KEY	REG 200 KEY	REG 200 KEY	REG 200 KEY	REG 300 KEY	REG 300 KEY	REG 300 KEY
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	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	bar	1.5	1.3			1.3		
	MPa	15	13			13		
	bar	217	188			188		
	psi	1100	2500			3500		
Flow rate at 6.3 bar (0.63 MPa-91 psi)	NI/min	39	88			124		
ΔP 0.5 bar (0.05 MPa - 7 psi)	scfm	1600	3500			7000		
Flow rate at 6.3 bar (0.63 MPa-91 psi)	NI/min	57	124			247		
ΔP 1 bar (0.1 MPa - 14 psi)	scfm	Filtered lubricated or unlubricated compressed air. Lubrication, if used, must be continuous.						
Fluid								
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	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 pressure gauge ports.							

COMPONENTS

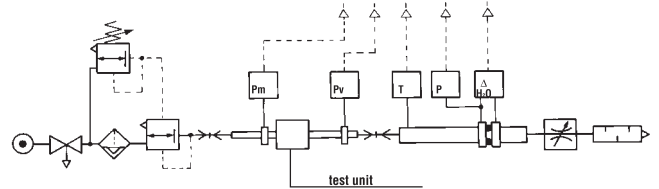
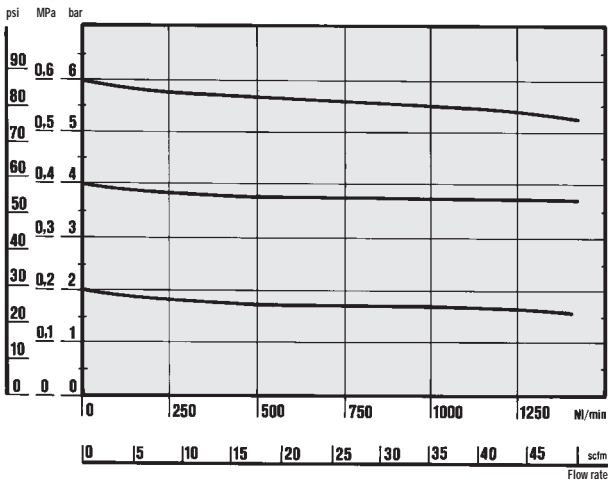
- ① Technopolymer body
- ② Zamak end plate
- ③ Technopolymer knob
- ④ Technopolymer bell
- ⑤ Nickel-plated brass OT58 adjusting screw
- ⑥ OT58 brass scroll
- ⑦ Steel adjusting spring
- ⑧ Technopolymer ring nut
- ⑨ Rolling diaphragm
- ⑩ NBR relieving gaskets
- ⑪ OT58 brass stem
- ⑫ Valve with NBR vulcanized gasket
- ⑬ Stainless steel valve spring
- ⑭ Technopolymer plug
- ⑮ NBR gaskets
- ⑯ Padlock



FLOW CHARTS

REG 100 1/4 - 3/8

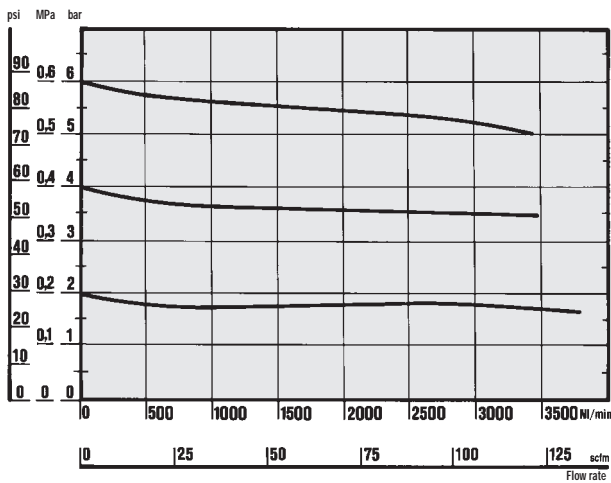
Preset pressure
Pm = 7 bar - 0,7 MPa - 100 psi



• 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.

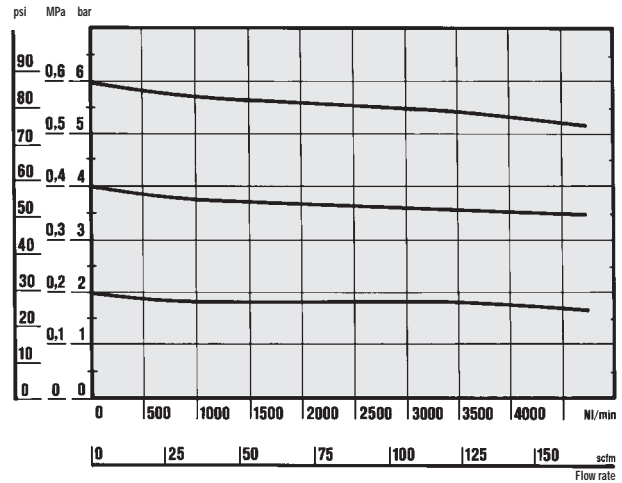
REG 200 1/4 - 3/8 - 1/2

Preset pressure
Pm = 7 bar - 0,7 MPa - 100 psi

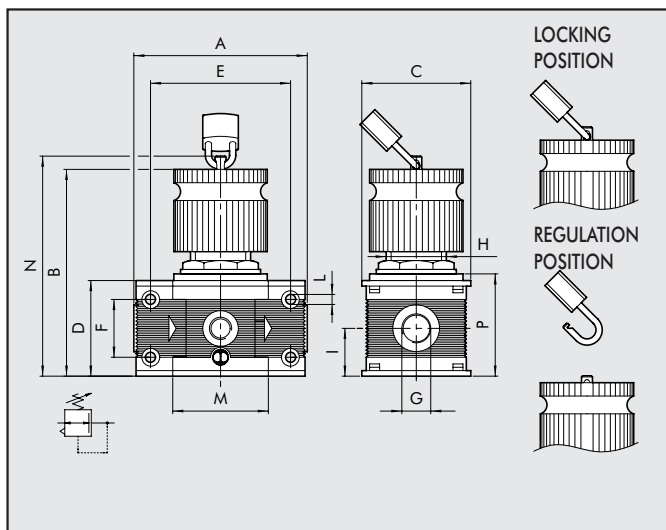


REG 300 1/2 - 3/4 - 1

Preset pressure
Pm = 7 bar - 0,7 MPa - 100 psi



DIMENSIONS



	REG 100 KEY	REG 100 KEY	REG 200 KEY	REG 200 KEY	REG 200 KEY	REG 300 KEY	REG 300 KEY	REG 300 KEY
	G 1/4	G 3/8	G 1/4	G 3/8	G 1/2	G 1/2	G 3/4	G 1"
A	78			93.5			110	112
B	95 ÷ 98			123 ÷ 125			145 ÷ 148	
C	50			63			72	
D	43			55			65	
E	63			78.5			92	
F	26			36			42	
G	G 1/4	G 3/8	G 1/4	G 3/8	G 1/2	G 1/2	G 3/4	G 1"
H	30x1.5			40x1.5			48x1.5	
I	21.5			27.5			32.5	
L	M4 hole			M5 hole			M5 hole	
M	43			55.5			65	
N	101			127			151	
P	46			58			69	

Skillair® PILOT PADLOCKABLE 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.

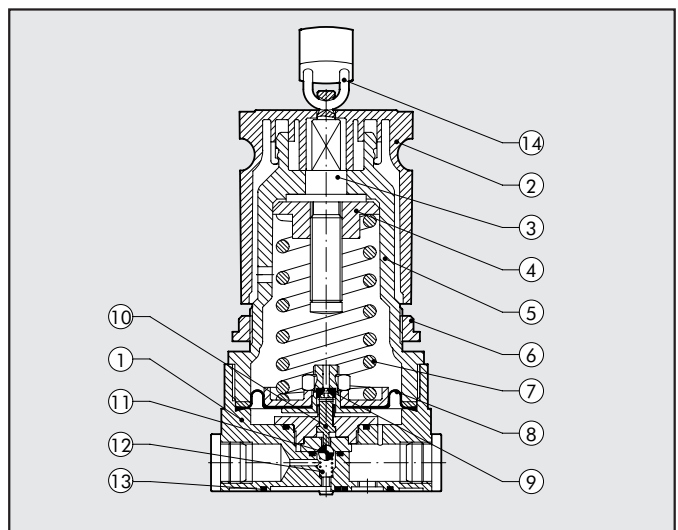
The pilot padlockable regulator has a pin with a hole in it that projects from the top of the knob. When the knob is in the push-lock position, the padlock can be inserted in the hole, preventing the knob from being operated. A padlock and two keys are supplied with the regulator.

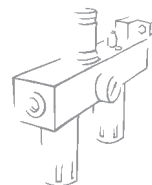


TECHNICAL DATA		PILOT PADLOCKABLE REGULATOR	
Threaded port		G 1/4"	
Setting range	bar	0÷2 - 0÷4 - 0÷8 - 0÷12	
Max. input pressure	MPa	1.3	
	bar	13	
	psi	188	
Flow rate at 6.3 bar (0.63 MPa-91 psi) ΔP 0.5 bar (0.05 MPa – 7 psi)		120 NI/min - 4,3 scfm	
Flow rate at 6.3 bar (0.63 MPa-91 psi) ΔP 1 bar (0.1 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 Nickel-plated brass OT58 adjusting screw
- ④ OT58 brass scroll
- ⑤ Technopolymer bell
- ⑥ Technopolymer ring nut
- ⑦ Steel adjusting spring
- ⑧ Rolling diaphragm
- ⑨ NBR relieving gaskets
- ⑩ OT58 brass stem
- ⑪ Stainless steel ball valve
- ⑫ Stainless steel valve spring
- ⑬ NBR gaskets
- ⑭ Padlock

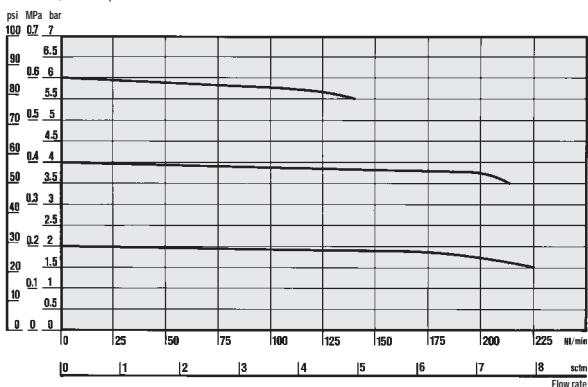




FLOW CHARTS

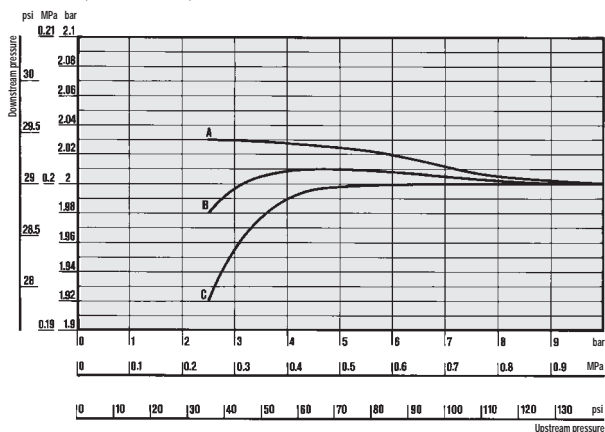
FLOW FEATURES REG. P 1/4''

Preset pressure
Pm = 7 bar - 0,7 MPa - 100 psi



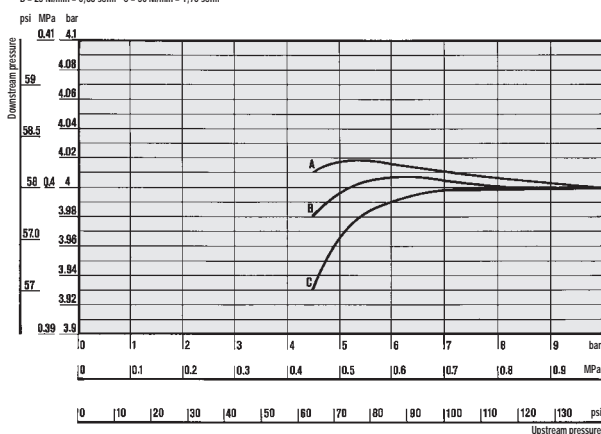
REGULATION FEATURES REG. P 1/4'' *

Flow: A = 0 Nl/min = 0 scfm
B = 25 Nl/min = 0,88 scfm - C = 50 Nl/min = 1,76 scfm



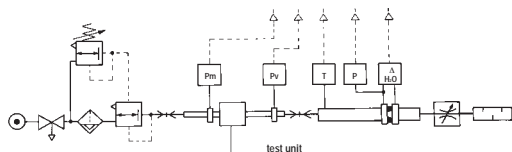
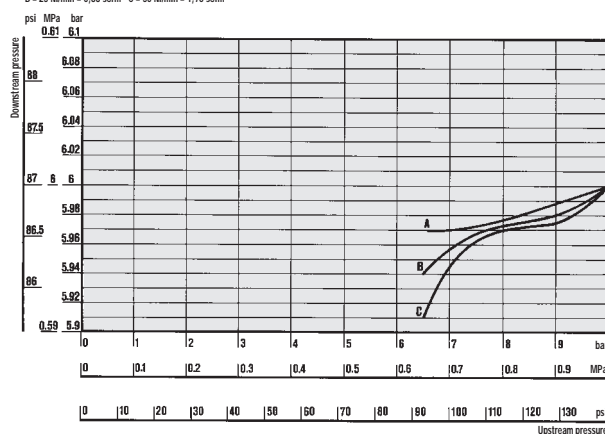
REGULATION FEATURES REG. P 1/4'' *

Flow: A = 0 Nl/min n = 0 scfm
B = 25 Nl/min = 0,88 scfm - C = 50 Nl/min = 1,76 scfm



REGULATION FEATURES REG. P 1/4'' *

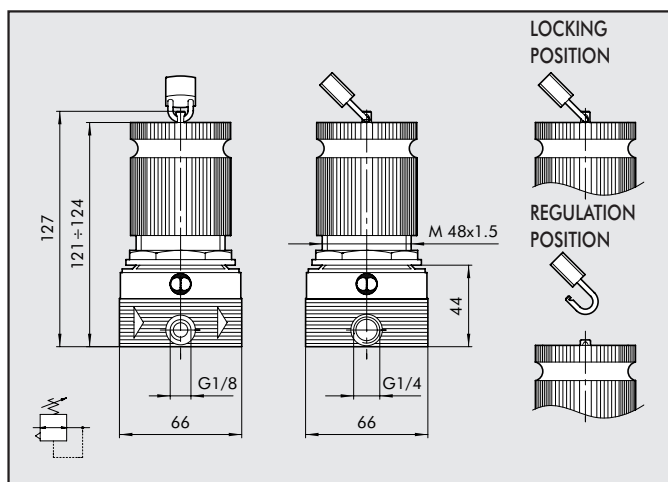
Flow: A = 0 Nl/min n = 0 scfm
B = 25 Nl/min = 0,88 scfm - C = 50 Nl/min = 1,76 scfm



• 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.

* Pressure stability adjusted according to changes in upstream pressure.

DIMENSIONS

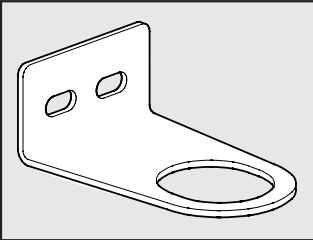


ORDERING CODES

Code	Description
3208001	REG. P KEY 1/4'' 02
3208002	REG. P KEY 1/4'' 04
3208003	REG. P KEY 1/4'' 08
3208004	REG. P KEY 1/4'' 012

Skillair® ACCESSORIES

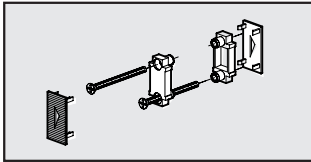
MOUNTING BRACKET FOR REG.



Code Description

- 9200701 SF100- BIT-ND1/4
- 9400701 SF200-ND-3/8 1/2
- 9400702 SF300

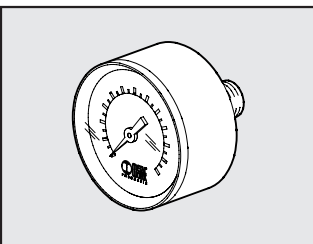
CONNECTOR KIT FOR SKILLAIR CODE A



Code Description

- 9230301 ACC. CONNECTOR KIT 100
- 9330301 ACC. CONNECTOR KIT 200
- 9430301 ACC. CONNECTOR KIT 300

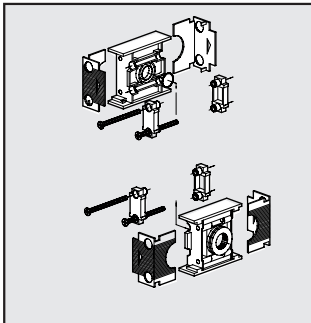
PRESSURE GAUGES



Code Description

- 9700101 ACC. M 40 1/8 12
- 9700102 ACC. M 40 1/8 04
- 9800101 ACC. M 50 1/8 12
- 9800102 ACC. M 50 1/8 04

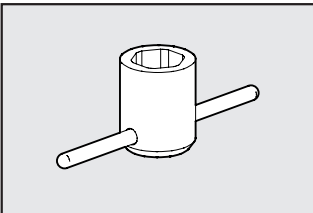
INPUT/OUTPUT END PLATE KIT



Code Description

- 9230401 ACC. IN/OUT END PLATE KIT 100 1/4
- 9330501 ACC. IN/OUT END PLATE KIT 100 3/8
- 9330601 ACC. IN/OUT END PLATE KIT 200 1/4
- 9330701 ACC. IN/OUT END PLATE KIT 200 3/8
- 9330801 ACC. IN/OUT END PLATE KIT 200 1/2
- 9430701 ACC. IN/OUT END PLATE KIT 300 1/2
- 9530901 ACC. IN/OUT END PLATE KIT 300 3/4
- 9531001 ACC. IN/OUT END PLATE KIT 300 1"

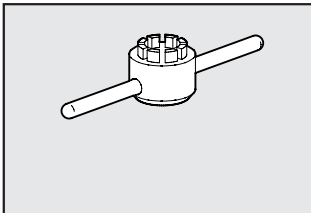
REG VISUAL DOME DISASSEMBLY SPANNER



Code Description

- 9220401 SPARES DOME DIS. SPANNER 100
- 9323401 SPARES DOME DIS. SPANNER 200
- 9420401 SPARES DOME DIS. SPANNER 300

POPPET DISASSEMBLY SPANNER (FOR REG.)

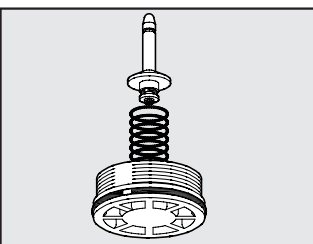


Code Description

- 9220501 SPARES R CAP DISASS. WR. 100
- 9323501 SPARES R CAP DISASS. WR. 200
- 9420501 SPARES R CAP DISASS. WR. 300

Skillair® SPARE PARTS

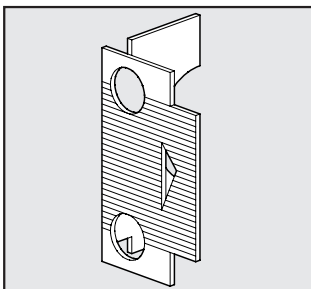
COMPLETE POPPET FOR REGULATORS



Code Description

- 9250704 SPARES OTR 100
- 9350704 SPARES OTR 200
- 9450704 SPARES OTR 300

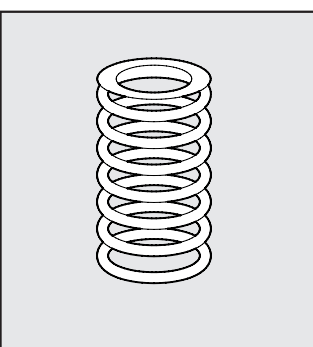
INPUT/OUTPUT COVER PLATE



Code Description

- 9152103 SPARES OUTPUT COVER PLATE 100
- 9152105 SPARES INPUT COVER PLATE 100
- 9152115 SPARES OUTPUT COVER PLATE 200
- 9152116 SPARES INPUT COVER PLATE 200
- 9152104 SPARES OUTPUT COVER PLATE 300
- 9152106 SPARES INPUT COVER PLATE 300

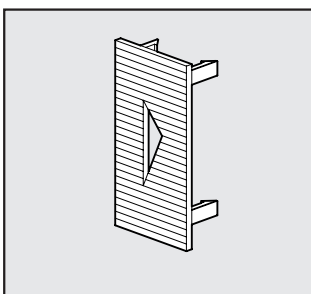
SPRINGS FOR REGULATORS



Code Description

- 9250605 RIC.MO 100 02
- 9250606 RIC.MO 100 04
- 9250607 RIC.MO 100 08
- 9250608 RIC.MO 100 012
- 9350605 RIC.MO 200 02
- 9350606 RIC.MO 200 04
- 9350607 RIC.MO 200 08
- 9350608 RIC.MO 200 012
- 9450605 RIC.MO 300 04
- 9450606 RIC.MO 300 08
- 9450607 RIC.MO 300 012
- 9450608 RIC.MO 300 02

INTERMEDIATE COVER PLATE



Code Description

- 9152107 SPARES INTERM. COVER PLATE 100
- 9152114 SPARES INTERM. COVER PLATE 200
- 9152108 SPARES INTERM. COVER PLATE 300