

CAME GROUP

URBACO



AUTOMATIC BOLLARDS

**TECHNICAL MANUAL
HEAVY DUTY VERTICAL
MICRO-COMPRESSOR
Reference: RCMPV**

**THIS MANUAL IS INTENDED FOR TECHNICAL STAFF IN CHARGE OF
THE INSTALLATION, THE OPERATION AND THE MAINTENANCE OF THIS
PRODUCT**



**CAUTION!
ELECTRICAL SHOCK
HAZARD**

Do not remove cover from
box when power is on

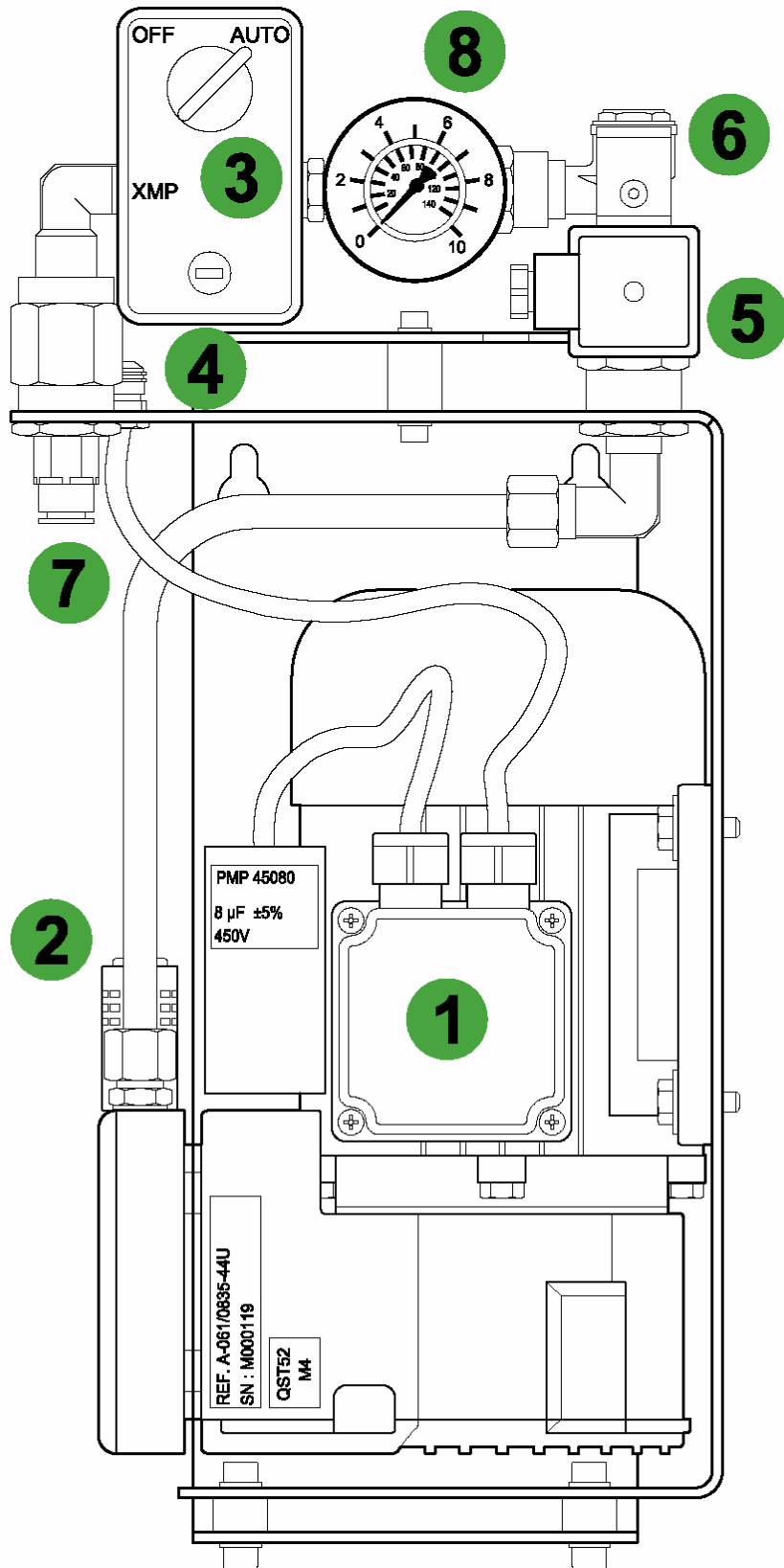


**BEWARE OF
HOT PARTS!**



**CAUTION!
MOVING PART
HAZARD**

PRESENTATION OF COMPRESSOR



SPARE PARTS

The compressor is for sale as a whole set under ref. code RCMPV

1	Motor-Compressor	1	RMTCMP
2	Filter	1	RFLTA
3	Pressure switch 0-6 bar	1	RPRST
4	Safety valve	1	RCSS
5	Pressure relief / Air vent valve	1	REVV
6	Check valve	1	RCSR
7	Straight connection plug	1	RRPD1/4A
8	Pressure gauge / Manometer	1	RCMCMP

DESCRIPTION

GENERAL FEATURES

URBACO's RCMPV compressor is intended for the supply of compressed air to URBACO's automatic bollards with pneumatic cylinders. Its vertical assembly makes it easy to integrate inside a case or a cabinet.

This compressor presents all control and air circuit elements (pressure gauge, manometer, safety valve, air vent, air filter, etc).

OPERATION

An electrical motor drives a 1-cylinder oil free compressor which enables operation in all positions. The pressure gauge checks that pressure within pneumatic circuit is correct and the manometer indicates the pressure in the tank.

CONDITIONS OF USE

Because it operates without oil, this compressor may be used non stop in certain conditions. The environment surrounding the compressor must be ventilated enough to guaranty this continuous operating ratio. The ambient temperature is the first criterion to be considered for long life operation.

The number of times the compressor is started per hour is also a wearing factor. Each time the compressor is turned on, it heats up more than on normal duty. A «comfortable» use should not exceed 20 starts per hour.

The maximum capacity of the micro-compressor is described in the chart below.

Bollards Diameter	Generation 6					
	Ø 120 / 4.72		Ø 200 / 7.87		Ø 250 / 9.84	
Height (mm/ in)	500 / 20	750 / 30	500 / 20	750 / 30	500 / 20	750 / 30
Max. number of automatic bollards (BEAs)	4	3	3	2	2	2

TECHNICAL DATA & SPECS

GENERAL SPECIFICATIONS:

- Micro-compressor 1-cylinder, oil-free
- Non-stop operatable
- Weight: 10 kg
- Dimensions (L x B x H) : 360 mm x 180 mm x 210 mm // 14 x 7 x 8.2 in.
- Temperature range for use: 0°C /+32°F // +40°C / + 104°F
- Protection index: IP54
- Noise level: 66 dB

ELECTRICAL SPECIFICATIONS:

Mains Voltage (V)	Frequency (Hz)	Amperage (A)	Motor power (W)	Rotation Speed (turns /min)
230 mono	50	2.60	505	2740
230 mono	60	2.60	590	3170

A compressor surveillance contact is available to control length of operating time of compressor. This contact is closed when the motor is on and it is open when the motor stops.

PNEUMATIC SPECIFICATIONS:

- Maximum pressure tolerance: 7 bar
- Maximum pressure tolerance by solenoid: 6 bar
- Pressure on duty: 5.5 bar
- Flow: 60 l/min at 0 bar
 25 l/min at 6 bar (50Hz)

INSTALLATION AND COMMISSIONING

ALL CABLING AND WIRING MUST BE DONE BY TECHNICALLY QUALIFIED PERSONNEL

- Fix compressor on its bearings using 4 x M6 bolts
- Connect flexible air tube (outer diameter 10 mm / 0.4 inches)
- Connect compressor according to the electrical diagram (main supply 230V with 3G1.5 cable and compressor surveillance with 2G1 cable).
- The compressor must be protected by a 30mA ground fault circuit interrupter and 6A aM fuse.
- Turn power on and check pressure level on gauge. It must be set on 5.5 bar. If necessary, adjust pressure on gauge by turning screw one way or the other way round.

MAINTENANCE SCHEDULE

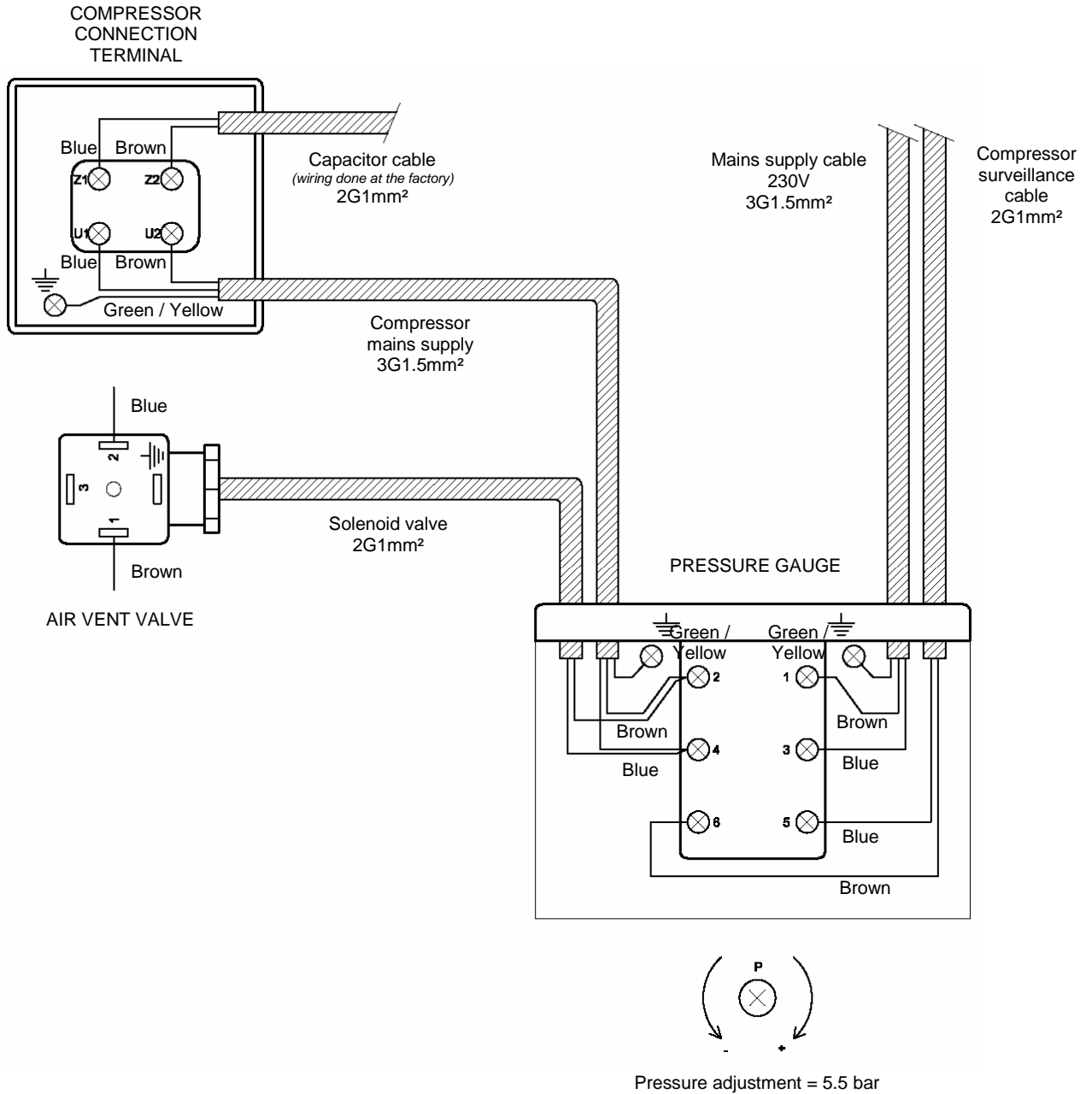
Control and maintenance interventions are given for information only. The various points below are to be checked depending on frequency of use.

	1 st month	2 nd month	3 rd month	4 th month	5 th month	6 th month	7 th month	8 th month	9 th month	10 th month	12 th month	13 th month
Check pressure gauge / manometer		X		X		X		X		X		X
Check motor fixings												X
Check compressor fixings												X
Check pressure switch		X		X		X		X		X		X
Check air vent valve		X		X		X		X		X		X
Check for air leaks		X		X		X		X		X		X
Check air filter		X		X		X		X		X		
Replace air filter												X

FIRST DEGREE TROUBLE SHOOTER

Fault	Explanations / Solutions
The compressor will not start	Check 220V supply Check fuse
The compressor runs but pressure does not rise	Check that anti-return valve is not blocked (which is the most common explanation) Check that inlet (/suction) filter is not blocked. Check for leak on connections The piston may be worn.
Power is on, but the compressor will not start and makes a humming.	Temperature is below 0°C Air vent may be faulty.
Power is on but the compressor will not start or no longer stops when maximum pressure is reached	Check pressure gauge and replace if faulty.

ELECTRICAL DIAGRAM



INTERNATIONAL SALES DEPARTMENT:

Available Monday through Friday from 8:00 a.m. till 12:30 and from 2:00 p.m. till 6:00 p.m. (local time)

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GAME GROUP



AUTOMATIC BOLLARDS



Type: RCMPV

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