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IINIATURE REDUCER/ECONOMIZER, SERIES RML, RMC AND RMS

The RML R miniature pressure regulator belongs to the LINE ON LINE $^{\odot}$ family and can be connected in series or in parallel with all the other

The miniature pressure regulator is available in five different types:

In-line with push-in input and output fitting

In-line with threaded input port and push-in output fitting

In-line with push-in input fitting and threaded output port
At an angle with threaded input port and push-in output fitting
Cartridge type for direct assembly in suitably worked slot.
The miniature pressure regulator is fitted with a relief valve for

 Particularly suitable for use between the valve and actuator and as a pressure regulator in secondary branches of the pneumatic system.



TECHNICAL DATA		RML Ø 6	RMC 1/8	RMS 1/8	RML Ø 1/4"	RML Ø 8 (Ø5/16")	RMC 1/4	RMS 1/4
Threaded ports	G (BSP)	1/8"-1/4"	1/8"	1/8"	-	1/8"-1/4"-3/8"	1/4"	1/4"
Pipe coupling	Ø	6	4 4 - 6 - 8 4	-	1/4"	8 ▲	6 - 8 📤 - 10	-
Regulation range		1 to 8 bar - 0.1 to 0.8 MPa - 14.5 to 116 psi						
Inlet pressure	MPa	0.2 to 1						
	bar	2 to 10						
	psi	29 to 145						
Flow rate at 6.3 bar (0.63 MPa - 91 psi) ΔP 1 bar	NI/min		150		150		260	
Flow rate on exhaust at 6.3 bar (0.63 MPa - 91 psi)			400		400		600	
Fluid		Lubricated or unlubricated filtered compressed air; if used, must be continuous						
Max. temperature at 1 MPa; 10 bar; 145 psi	°C	- 20 to + 60						
	°F	- 4 to + 140						
Assembly position		Available						
Notes		In the miniature regulator the pressure must always be set upwards						
Compatibility with oils		See chapter Z1						
		·						

COMPONENTS

▲ Ø4 = Ø5/32"; **Ø8** = Ø5/16"

Technopolymer body (brass for RMC)
 Nickel-plated brass insert

3 Nickel-plated brass adjusting screw

Steel adjusting spring
 Brass piston rod

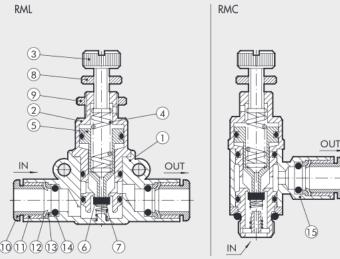
NBR shutter

Stainless steel shutter spring

(3) Technopolymer spring ring

MBR gasket
 Nickel-plated brass rotating ring

Stainless steel shutter spring
 Adjusting screw ring nut
 Nickel-plated brass wall ring nut
 Technopolymer release bushing
 Technopolymer stop bushing (brass for RMC)
 Stainless steel crimping spring



How to assembly RML/RMC:

UNF or NPT

ASSEMBLY OPTIONS

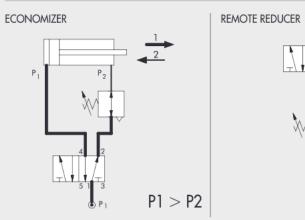
A G (BSP)

- Fig. (a) G (BSP): Thanks to the male threaded part it's possible to assembly directly on the actuator or on the valve.

 UNF or NPT: Adding a RU6 fitting, with his male UNF or NPT thread, it is possible to mount the RML straight on to the actuator or the control

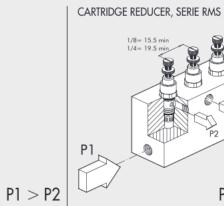
Fig. (B) By using the ring nut screwed on the threaded body it's possible the assembling on panels.
Fig. (C) On the plastic body there are two strong ring for the direct wall assembly.
Fig. (D) Fixing on plate trought the proper small square SQU L.
Fig. (E) For maintaining the tube the most parallel possible to the system, had been designed a specific version (RMC) with inlet and outlet at 90°.

POSSIBLE APPLICATIONS



If in a cylinder you require a thrust in one direction only, e.g. piston rod extension, and a lower thrust and pressure is sufficient in the oth er direction, you can save a lot of energy by mounting an economizer valve.

Example
Cylinder Ø 80 mm, stroke 200 mm, 6 bar,
12 cycles/min, 16 hours a day, 230 days a year. Consumption: 144 NI/min => 3460 kWh/year => 880 litres of oil => 2428 kg of CO₂ => € 346/year. If you install an economizer that reduces the pressure from 6 to 2 bar, you SAVE: € 115/year.



The cartridge regulator can be used:

• Fitted directly into the structure or along the air

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supply ducting.
 Package with common feed and separate regulated outlets.