MINIATURE REDUCER/ECONOMIZER, SERIES RML, RMC AND RMS

The RML R miniature pressure regulator belongs to the LINE ON LINE® family and can be connected in series or in parallel with all the other products. 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 over-pressure exhaust.
- Particularly suitable for use between the valve and actuator and as a pressure regulator in secondary branches of the pneumatic system.

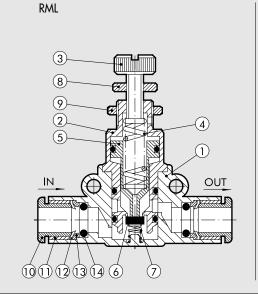
The data in brackets refer to the angle version.

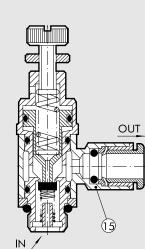


TECHNICAL DATA		RMLØ6	RMC 1/8	RMS 1/8	RML Ø 8	RMC 1/4	RMS 1/4	
Threaded ports		1/8″-1/4″	1/8″	1/8″	1/8"-1/4"-3/8"	1/4"	1/4"	
Pipe coupling		Ø6	Ø4-Ø6-Ø8	-	Ø8	Ø6-Ø8-Ø10	-	
Regulation range		1 to 8 bar - 0.1 to 0.8 MPa - 14.5 to 116 psi						
Inlet pressure	MPa	0.2 - 1						
	bar	2 - 10						
	psi		29 - 145					
Flow rate at 6.3 bar (0.63 MPa - 91 psi) ΔP 1 bar	NI/min	150 260						
Flow rate on exhaust at 6.3 bar (0.63 MPa - 91 psi)		400 600						
Fluid		Lubricated or unlubricated filtered air						
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					rds	
Compatibility with oils			Please refer to page 6-7 of the tecnical documentation					

COMPONENTS

- (1) Technopolymer body (brass for RMC)
- ② Nickel-plated brass insert
- 3 Nickel-plated brass adjusting screw
- Steel adjusting spring
- ⑤ Brass piston rod
- 6 NBR shutter
- Transfer of the state of the st
- 8 Adjusting screw ring nut
- Nickel-plated brass wall ring nut
- 10 Technopolymer release bushing
- (1) Technopolymer stop bushing (brass for RMC)
- Stainless steel crimping spring
- 13 Technopolymer spring ring
- (4) NBR gasket
- (§) Nickel-plated brass rotating ring

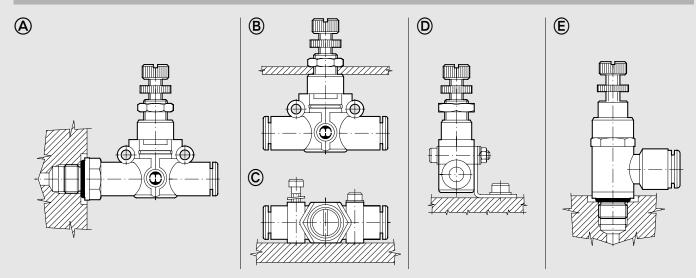




RMC



ASSEMBLY OPTIONS

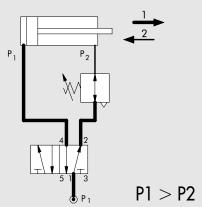


How to assembly RML/RMC:

- Fig. (A) Thanks to the male threaded part it's possible to assembly directly on the actuator or on the valve.
- Fig. ® By using the ring nut screwed on the threaded body it's possible the assembling on panels.
- Fig. © 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. © 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

ECONOMIZER

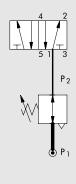


If in a cylinder you require a thrust in one direction only, e.g. piston rod extension, and a lower thrust and pressure is sufficient in the oth er direction, you can save a lot of energy by mounting an economizer valve.

Example

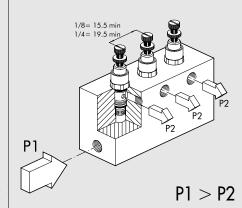
Cylinder Ø 80 mm, stroke 200 mm, 6 bar, 12 cycles/min, 16 hours a day, 230 days a year. Consumption: 144 Nl/min => 3460 kWh/year => 880 litres of oil => 2428 kg of $CO_2 => 0.000$ 346/year. If you install an economizer that reduces the pressure from 6 to 2 bar, you SAVE: 0.000 115/year.

REMOTE REDUCER



P1 > P2

CARTRIDGE REDUCER, SERIE RMS



The cartridge regulator can be used:

- Fitted directly into the structure or along the air supply ducting.
- Package with common feed and separate regulated outlets.