

MINIATURE REDUCER/ECONOMIZER, SERIES RML

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:

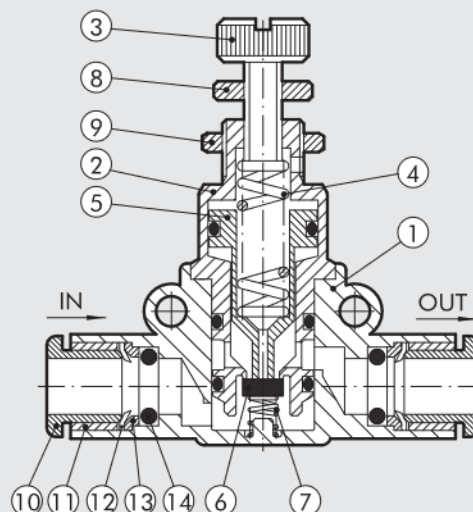
- In-line with push-in input and output fitting
- In-line with threaded input port and push-in output fitting
- In-line with push-in input fitting and threaded output port
- At an angle with threaded input port and push-in output fitting
- Cartridge type for direct assembly in suitably worked slot. The 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.



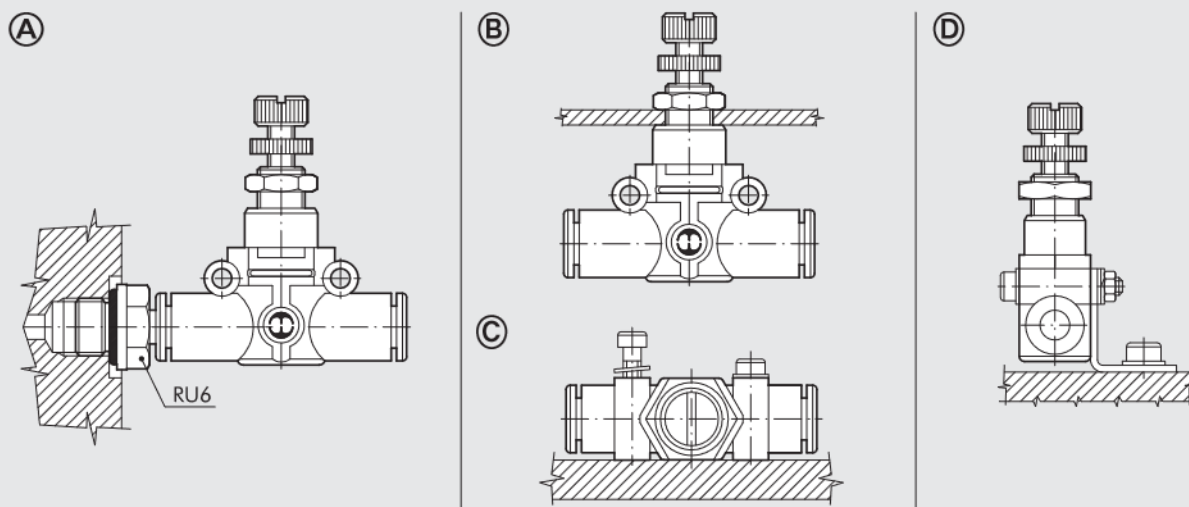
TECHNICAL DATA		RML Ø 1/4	RML Ø 5/16
Regulation range		1 to 8 bar - 0.1 to 0.8 MPa - 14.5 to 116 psi	
Inlet pressure	MPa	0.2 - 1	
	bar	2 - 10	
	psi	29 - 145	
Flow rate at 6.3 bar (0.63 MPa - 91 psi) ΔP 1 bar (0.1 MPa - 14.5 psi)	Nl/min	150	260
	scfm	5.3	9.2
Flow rate on exhaust at 6.3 bar (0.63 MPa - 91 psi)	Nl/min	400	600
	scfm	14	21.2
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.	

COMPONENTS

- ① Technopolymer body
- ② Nickel-plated brass insert
- ③ Nickel-plated brass adjusting screw
- ④ Steel adjusting spring
- ⑤ Brass piston rod
- ⑥ NBR shutter
- ⑦ Stainless steel shutter spring
- ⑧ Adjusting screw ring nut
- ⑨ Nickel-plated brass wall ring nut
- ⑩ Technopolymer release bushing
- ⑪ Technopolymer stop bushing
- ⑫ Stainless steel crimping spring
- ⑬ Technopolymer spring ring
- ⑭ NBR gasket



ASSEMBLY OPTIONS

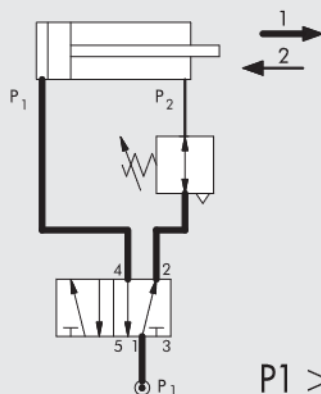


How to assembly RML:

- Fig. (A) Adding a RU6 fitting, with his male NPT thread, it is possible to mount the RML straight on to the actuator or the control valve.
- 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 trough the proper small square SQU L.

POSSIBLE APPLICATIONS

ECONOMIZER



$P_1 > P_2$

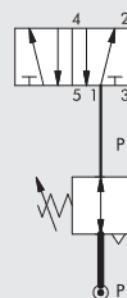
If in a cylinder you require a thrust in one direction only, e.g. piston rod extension, and a lower thrust and pressure is sufficient in the other direction, you can save a lot of energy by mounting an economizer valve.

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 $\Rightarrow$ 3460 kWh/year $\Rightarrow$
880 litres of oil $\Rightarrow$ 2428 kg of CO₂ $\Rightarrow$
€ 346/year.

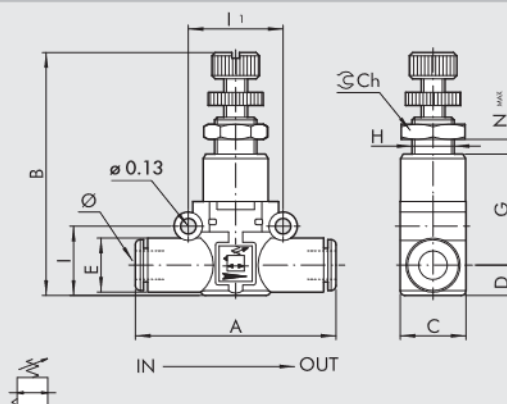
If you install an economizer that reduces the pressure from 6 to 2 bar, you SAVE: € 115/year.

REMOTE REDUCER



$P_1 > P_2$

LINE-MOUNTED MINIATURE REDUCER, SERIES RML



Code	Ref.	Ø	A	B	C	D	E	G	H	I	II	Ch	Nmax
9061316U	RML 1/4-1/4	1/4	1.85	1.81-2.05	0.58	0.25	0.45	0.98	M9x0.75	0.57	0.79	0.43	0.18
9061324	RML 5/16-5/16	5/16	2.18	2.05-2.28	0.74	0.36	0.54	1.08	M11x1	0.74	0.94	0.51	0.15