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.

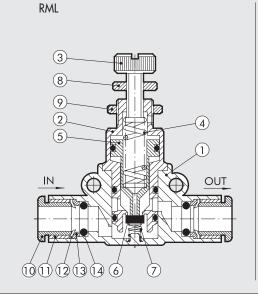


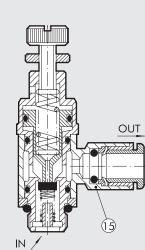
TECHNICAL DATA		RMLØ6	RMC 1/8	RMS 1/8	RML Ø 1/4"	RML Ø 8 (Ø5/16")	RMC 1/4	RMS 1/4			
Threaded ports	G (BSP)	1/8″-1/4″	1/8″	1/8″	-	1/8″-1/4″-3/8″	1/4"	1/4"			
Pipe coupling	Ø	6	4 - 6 - 8 4	-	1/4"	8 ▲	6 - 8 📤 - 10	-			
Regulation range				1 to 8 bar -	0.1 to 0.8 MPc	a - 14.5 to 116 psi					
Inlet pressure	MPa				0.2 to 1						
	bar				2 to 10						
	psi				29 to 14	5					
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		Lul	oricated or un	lubricated fil	tered compres	sed air; if used, must	be continuo	US			
Max. temperature at 1 MPa; 10 bar; 145 psi	°C				-20 to + 6	50					
	°F				-4 to + 14	40					
Assembly position					Available	е					
Notes In the miniature regula						e regulator the pressure must always be set upwards					
Compatibility with oils					See chapte	· Z1					
\triangle $O(1 - O(5/32)'' \cdot O(8 - O(5/16)'')$											

▲ \emptyset **4** = \emptyset 5/32"; \emptyset **8** = \emptyset 5/16"

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
- Stainless steel shutter spring
- 8 Adjusting screw ring nut
- Nickel-plated brass wall ring nut
- 10 Technopolymer release bushing
- 11) Technopolymer stop bushing (brass for RMC)
- 12 Stainless steel crimping spring
- (13) Technopolymer spring ring
- (4) NBR gasket
- 15 Nickel-plated brass rotating ring

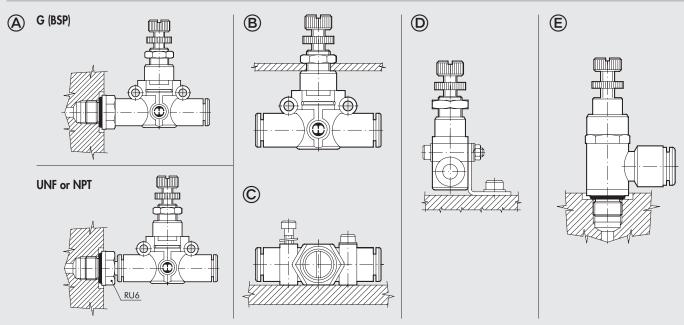




RMC



ASSEMBLY OPTIONS



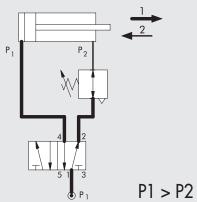
How to assembly RML/RMC:

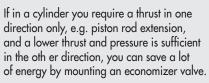
- Fig. (a) G (BSP): Thanks to the male threaded part it's possible to assembly directly on the actuator or on the valve.

 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 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

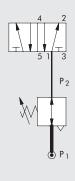




Example

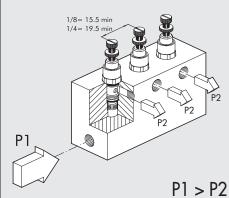
Cylinder Ø 80 mm, stroke 200 mm, 6 bar, 12 cycles/min, 16 hours a day, 230 days a year. Consumption: 144 Nl/min => 3460 kWh/year => 880 litres of oil => 2428 kg of $CO_2 =>$ € 346/year. If you install an economizer that reduces the pressure from 6 to 2 bar, you SAVE: € 115/year.

REMOTE REDUCER



P1 > P2

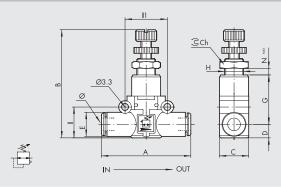
CARTRIDGE REDUCER, SERIE RMS



The cartridge regulator can be used:

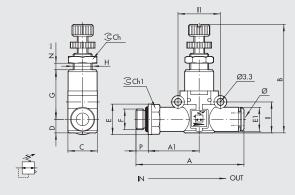
- Fitted directly into the structure or along the air supply ducting.
- Package with common feed and separate regulated outlets.

LINE-MOUNTED MINIATURE REDUCER, SERIES RML



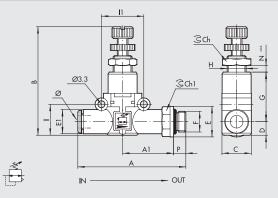
Code	Ref.	Ø	Α	В	С	D	E	G	Н	I	11	Ch	Nmax
9061316	RML Ø6-Ø6	6	49.4	46-52	14.7	6.4	11.4	24.8	M9x0.75	14.6	20	11	4.5
9061316U	RML Ø1/4-Ø1/4	1/4	49.4	46-52	14.7	6.4	11.4	24.8	M9x0.75	14.6	20	11	4.5
9061324	RML Ø8-Ø8	8 🔺	57.3	52-58	18.7	9.1	13.8	27.4	M11x1	18.7	24	13	3.8
A 00 - 05	/14"												

LINE-MOUNTED G (BSP) THREAD - PIPE MINIATURE REDUCER SERIES RML



Code	Ref.	F	Ø	P	Α	A1	В	С	D	E	E1	G	Н	I	11	Ch	Ch1	Nmax
9061408	RML 1/8-Ø6	1/8	6	6	58.5	27.8	46-52	14.7	6.4	14	11.4	24.8	M9x0.75	14.6	20	11	12	4.5
9061409	RML 1/4-Ø6	1/4	6	8	61.5	28.8	46-52	14.7	6.4	18	11.4	24.8	M9x0.75	14.6	20	11	14	4.5
9061410	RML 1/8-Ø8	1/8	8 🔺	6	66.2	31.8	52-58	18.7	9.1	15	13.8	27.4	M11x1	18.7	24	13	14	3.8
9061411	RML 1/4-Ø8	1/4	8 🔺	8	70.6	34.2	52-58	18.7	9.1	18	13.8	27.4	M11x1	18.7	24	13	14	3.8
9061412	RML 3/8-Ø8	3/8	8 🛦	9	72.2	34.8	52-58	18.7	9.1	22	13.8	27.4	M11x1	18.7	24	13	17	3.8
▲ Ø8 = Ø5	5/16"																	

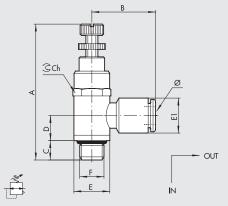
LINE-MOUNTED PIPE - G (BSP) THREAD MINIATURE REDUCER, SERIES RML



Code	Ref.	Ø	F	P	Α	A1	В	С	D	E	El	G	Н	I	- 11	Ch	Ch1	Nmax
9061508	RML Ø6-1/8	6	1/8	6	58.5	27.8	46-52	14.7	6.4	14	11.4	24.8	M9x0.75	14.6	20	11	12	4.5
9061509	RML Ø6-1/4	6	1/4	8	61.5	28.8	46-52	14.7	6.4	18	11.4	24.8	M9x0.75	14.6	20	11	14	4.5
9061510	RML Ø8-1/8	8 🔺	1/8	6	66.2	31.8	52-58	18.7	9.1	15	13.8	27.4	M11x1	18.7	24	13	14	3.8
9061511	RML Ø8-1/4	8 🔺	1/4	8	70.6	34.2	52-58	18.7	9.1	18	13.8	27.4	M11x1	18.7	24	13	14	3.8
9061512	RML Ø8-3/8	8 🔺	3/8	9	72.2	34.8	52-58	18.7	9.1	22	13.8	27.4	M11x1	18.7	24	13	17	3.8
▲ Ø8 = Ø5	5/16"																	



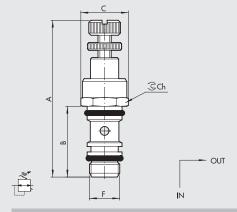
MINIATURE REDUCER, SERIES RMC



Code	Ref.	Ø	F	Α	В	С	D	E	E1	Ch
9061102	RMC 1/8-Ø4	4 ▲	1/8	51-57	20.4	7.1	12.7	14	9.5	14
9061108	RMC 1/8-Ø6	6	1/8	51-57	23.7	7.1	12.7	14	11.3	14
9061110	RMC 1/8-Ø8	8 🛦	1/8	51-57	25.6	7.1	12.7	14	13.8	14
9061109	RMC 1/4-Ø6	6	1/4	57-63	25.1	9	11	18	11.3	17
9061111	RMC 1/4-Ø8	8 🛦	1/4	57-63	27	9	11	18	13.8	17
9061112	RMC 1/4-Ø10	10	1/4	57-63	32.2	9	11	18	16.5	17

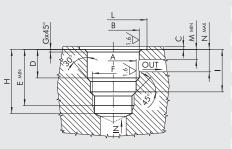
▲ Ø4 = Ø5/32"; **Ø8** = Ø5/16"

CARTRIDGE REDUCER, SERIES RMS



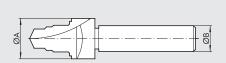
Code	Ref.	F	Α	В	С	Ch
9061001	RMS 1/8	1/8	51-57	24.3	15	14
9061002	RMS 1/4	1/4	57-63	27.8	19	17

SEAT OF A MINIATURE CARTRIDGE REDUCER



Code	F	Α	В	C	D	E	G	Н	1	L	M	N
SE.RMS 1/8	1/8	9.8 +0.1/-0	11.2 ±0.05	$0.5^{\pm0.5}$	15.6 ±0.07	24.6	0.3	27	18.1 ±0.2	15.4	3.5	12
SE.RMS 1/4	1/4	13.5 +0.1/-0	14.4 ±0.05	$0.5^{\pm0.5}$	17.5 ±0.07	28	0.4	31.2	20.8 ±0.2	19.4	3.5	13.5

TOOL FOR RMS SEAT



Code	Ref.	ØA	Ø B
9062001	UT.SE 1/8	16	12
9062002	UT.SE 1/4	20	15