

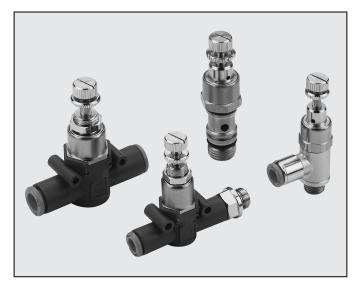
MINIATURE REDUCER/ECONOMIZER, Series "RML", "RMC" and "RMS"

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.

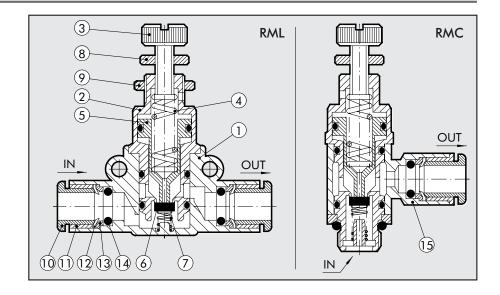
The data in brackets refer to the angle version.



TECHNICAL DATA		RML Ø 6	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	-	Ø 8	Ø6-Ø8-Ø10	-
Regulation range			•	1÷8 bar - 0.1÷0.8	MPa - 14.5÷116 psi	i	
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			1/8": 150 NI/min			1/4": 260 NI/min	
Flow rate on exhaust at 6.3 bar (0.63 MPa÷91 psi)			1/8": 400 NI/min			1/4": 600 NI/min	
Fluid				lubricated or unlul	oricated filtered air		
Max. temperature at 1 MPa, 10 bar, 145 psi	°C			-20÷	+60		
	°F			_4÷	+140		
Assembly position				avai	lable		
Comments			In the miniatu	re regulator the pre	ssure must always be	e set upwards.	

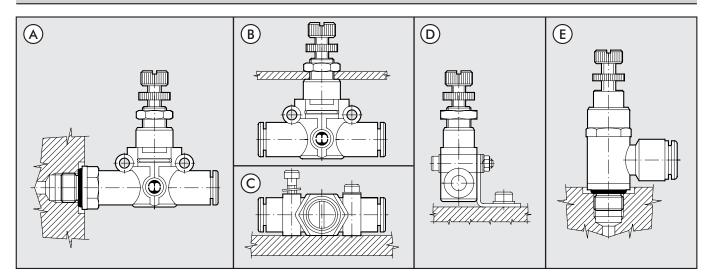
COMPONENTS

- 1 Technopolymer body (brass)
- 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
- Nickel-plated brass wall ring nut
- (10) Technopolymer release bushing
- (1) Technopolymer stop bushing (brass)
- 12 Stainless steel crimping spring
- (13) Technopolymer spring ring
- (4) NBR gasket
- (5) Nickel-plated brass rotating ring
- In brackets data relevant RMC version





ASSEMBLY OPTION

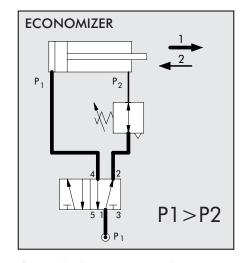


How to assembly RML/RMC

- Fig. A: Thanks to the male threaded part it's possible to assembly directly on the actuator or on the valve.
 Fig. 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

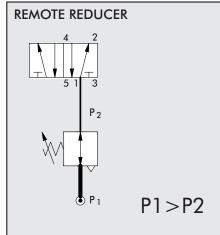


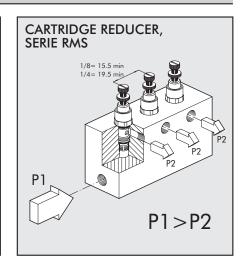
If in a cylinder you require a thrust in one direction only, e.g. piston rod extension, and a lower thrust and pressure is sufficient in the other direction, you can save a lot of energy by mounting an economizer valve.

Cylinder Ø 80 mm, stroke 200 mm, 6 bar, 12 cycles/min, 16 hours a day, 230 days

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 a year.

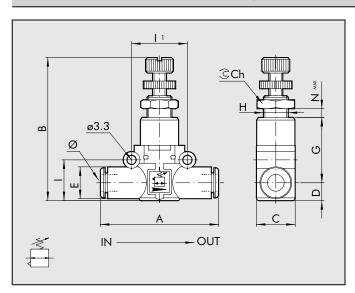




- The cartridge regulator can be used:
 Fitted directly into the structure or along the air supply ducting, or
- Package with common feed and separate regulated outlets.



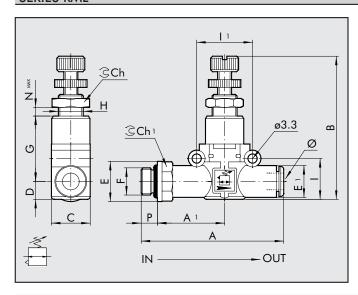
LINE-MOUNTED MINIATURE REDUCER, SERIES RML



Code	Ref.	Ø	A	В	С	D	E
9061316	RML 6-6	6	49.4	46÷52	14.7	6.4	11.4
9061324	RML 8-8	8	57.3	52÷58	18.7	9.1	13.8

G	Н	1	11	Ch	Nmax	
24.8	M9x0.75	14.6	20	11	4.5	
27.4	M11x1	18.7	24	13	3.8	

LINE-MOUNTED R/F MINIATURE REDUCER SERIES RML



9061408	RML 1/8-6	1/8	6	6	58.5	27.8	46÷52	14.7	6.4
9061409	RML 1/4-6	1/4	6	8	61.5	28.8	46÷52	14.7	6.4
9061410	RML 1/8-8	1/8	8	6	66.2	31.8	52÷58	18.7	9.1
9061411	RML 1/4-8	1/4	8	8	70.6	34.2	52÷58	18.7	9.1
9061412	RML 3/8-8	3/8	8	9	72.2	34.8	52÷58	18.7	9.1

A1

С

С

D

D

Ø P

Code

Code

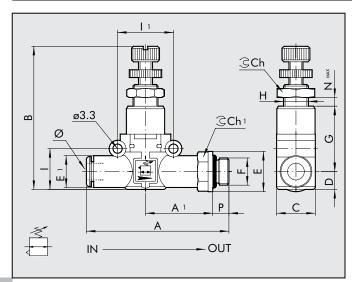
Ref.

Ref.

F

Е	E1	G	Н	1	11	Ch	Ch1	Nmax
14	11.4	24.8	M9x0.75	14.6	20	11	12	4.5
18	11.4	24.8	M9x0.75	14.6	20	11	14	4.5
15	13.8	27.4	M11x1	18.7	24	13	14	3.8
18	13.8	27.4	M11x1	18.7	24	13	14	3.8
22	13.8	27.4	M11x1	18.7	24	13	17	3.8

LINE-MOUNTED F/R MINIATURE REDUCER, SERIES RML



9061508	RML 6-1/8	6	1/8	6	58.5	27.8	46÷52	14.7	6.4
9061509	RML 6-1/4	6	1/4	8	61.5	28.8	46÷52	14.7	6.4
9061510	RML 8-1/8	8	1/8	6	66.2	31.8	52÷58	18.7	9.1
9061511	RML 8-1/4	8	1/4	8	70.6	34.2	52÷58	18.7	9.1
9061512	RML 8-3/8	8	3/8	9	72.2	34.8	52÷58	18.7	9.1

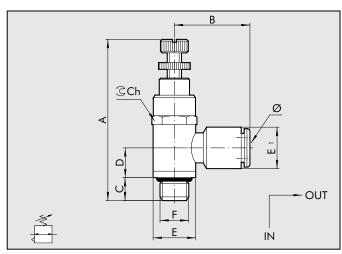
A1

Ø F

Е	E1	G	Н	1	11	Ch	Ch1	Nmax
14	11.4	24.8	M9x0.75	14.6	20	11	12	4.5
18	11.4	24.8	M9x0.75	14.6	20	11	14	4.5
15	13.8	27.4	M11x1	18.7	24	13	14	3.8
18	13.8	27.4	M11x1	18.7	24	13	14	3.8
22	13.8	27.4	M11x1	18.7	24	13	17	3.8



MINIATURE REDUCER, SERIES RMC



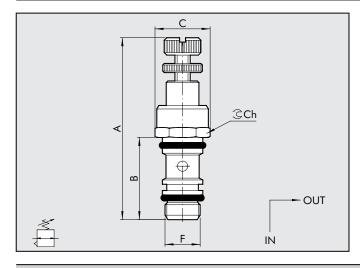
Code	Ref.	Ø	A	В	С	D	Е	El	Ch
9061102	RMC 1/8-4	4	51÷57	20.4	6	12.7	14	9.5	14
9061108	RMC 1/8-6	6	51÷57	23.7	6	12.7	14	11.3	14
9061110	RMC 1/8-8	8	51÷57	25.6	6	12.7	14	13.8	14
9061109	RMC 1/4-6	6	57÷63	25.1	8	11	18	11.3	17
9061111	RMC 1/4-8	8	57÷63	27	8	11	18	13.8	17
9061112	RMC 1/4-10	10	57÷63	32.2	8	11	18	16.5	17

С

С

Ch

CARTRIDGE REDUCER, SERIES RMS



9061001	RMS 1/8	1/8	51÷57	24.3	15	14
9061002	RMS 1/4	1/4	57÷63	27.8	19	17

Α

F

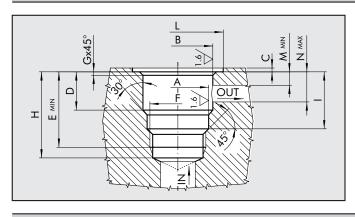
Code

Code

Ref.

Ref.

SEAT OF A MINIATURE CARTRIDGE REDUCER

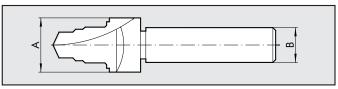


SE.RMS 1/8	1/8	9.8 +0.1/-0	11.2 ±0.05	0.5 ± 0.5	15.6 ± 0.07
SE.RMS 1/4	1/4	13.5 +0.1/-0	14.4 ± 0.05	0.5 ± 0.5	17.5 ± 0.07

Е	G	Н	1	L	М	N
24.6	0.3	27	18.1 ±0.2	15.4	3.5	12
28	0.4	31.2	20.8 ± 0.2	19.4	3.5	13.5

Α

TOOL FOR RMS SEAT



9062001 UT.SE 1/8 16 12
7002001 01.3L 1/0 10 12
9062002 UT.SE 1/4 20 15
7002002 01.02 1/1 20 10