IN-LINE FLOW MICRO-REGULATOR SERIES RFL L

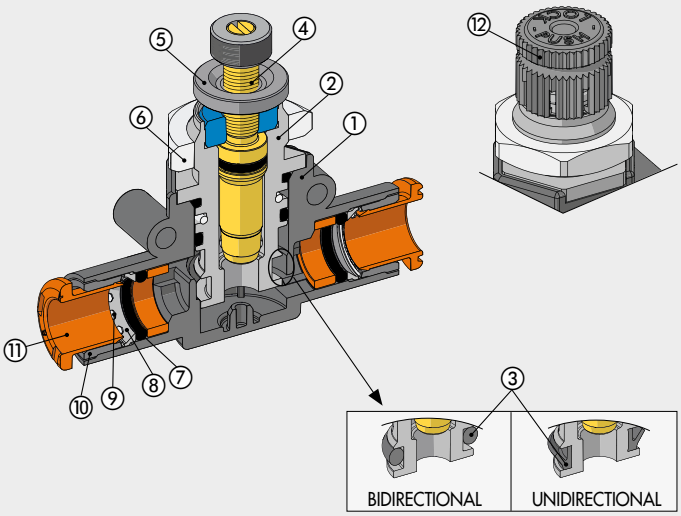
The RFL L flow micro-regulator belongs to the LINE ON LINE® family and can be connected in series or in parallel with all the other products.
The RFL L regulates the air input and thus the speed in pneumatic actuators.
Type U (unidirectional) regulates the flow only in one of the two directions of air flow and is available in the types with:
- push-in input and output fitting;
- push-in input fitting and threaded port on the exhaust (cylinder type);
- input threaded port and push-in fitting on the exhaust (valve type).

Type B (bidirectional) regulates the flow in both directions of air flow and is available in the types with:
- push-in input and output fitting;
- threaded port and push-in fitting.

TECHNICAL DATA		Ø 4 (Ø5/32")	Ø 6	Ø 1/4"	Ø 8 (Ø5/16")
Max. operating pressure	MPa	1			
	bar	10			
	psi	145			
Temperature range	°C	– 20 to + 60			
	°F	– 4 to + 140			
Max flow rate on regulation at 6.3 bar	Nl/min	155	450	450	850
Flow rate on exhaust at 6.3 bar	Nl/min	160	550	550	950
Adjustment		Manual or using a screwdriver			
Internal system		Tapered needle			
Recommended pipe		Rilsan PA 11 - Nylon 6 - Polyamide 12 - Polypropylene			
Fluid		Lubricated or unlubricated filtered compressed air; if used, must be continuous			
Compatibility with oils		See **chapter Z1**			

COMPONENTS

① Technopolymer body
② Nickel-plated brass seal support
③ NBR gasket
④ Brass adjusting needle
⑤ Nickel-plated brass needle ring nut
⑥ Wall fixing ring nut
⑦ NBR seal
⑧ Technopolymer spring ring
⑨ Stainless steel clip-on spring
⑩ Technopolymer stop bushing
⑪ Technopolymer release bushing
⑫ Technopolymer knob



ASSEMBLY OPTIONS

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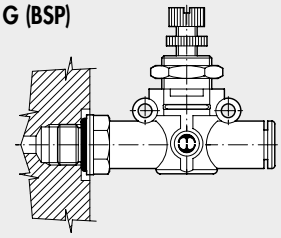
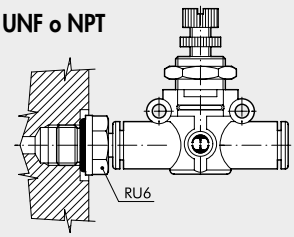
G (BSP)



UNF o NPT



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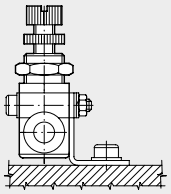

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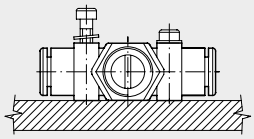

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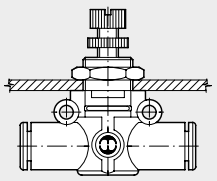
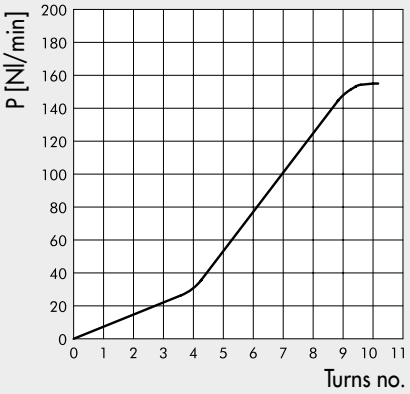


How to mount the RFL L:

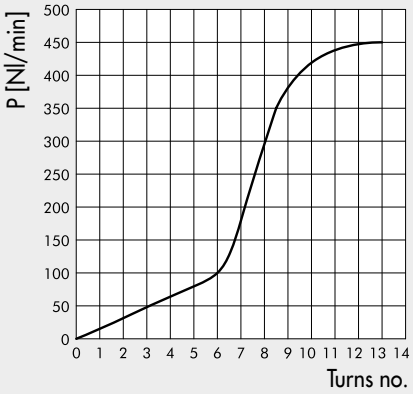
- Fig. Ⓐ **G (BSP)**: With the male threaded port it is possible to mount the RFL L straight onto the actuator or the control valve.
  UNF or NPT: Adding a RU6 fitting, with his male UNF or NPT thread, it is possible to mount the RFL L straight on to the actuator or the control valve.
- Fig. Ⓑ Fixing to the plate with the special SQU L bracket.
- Fig. Ⓒ There are two robust rings on the plastic body for fixing the RFL L straight onto the wall.
- Fig. Ⓓ The ring nut is screwed onto the threaded metal part of the RFL L body for panel mounting.

FLOW RATE CHARTS AT 6.3 bar DEPENDING ON THE TURNS EFFECTED BY THE REGULATION SCREW

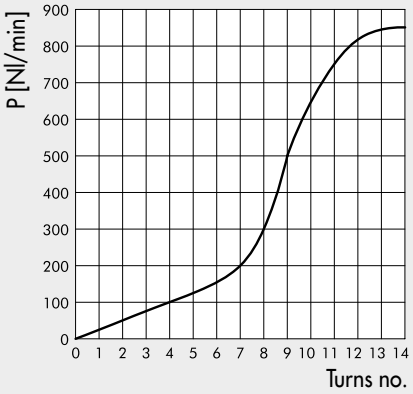
RFL L Ø 4 (Ø5/32")



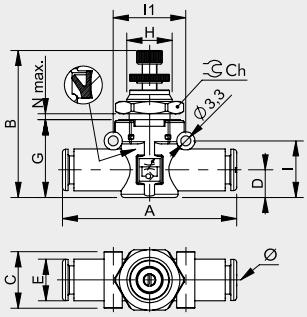
RFL L Ø 6 - RFL L Ø 1/4"



RFL L Ø 8 (Ø5/16")



RFL L PIPE - PIPE UNIDIRECTIONAL



Code	Ref.	Ø	A	B	C	D	E	G	H	I	I1	Ch	Nmax
9041301	RFL L U Ø4-Ø4	4 ▲	42	35.5÷38.5	10.7	5.6	10	17.5	M9x0.75	12.8	16	11	4
9041316	RFL L U Ø6-Ø6	6	49.4	36÷41	14.7	6.4	11.4	20	M12x0.75	14.6	20	15	4
9041316U	RFL L U Ø1/4-Ø1/4	1/4	49.4	36÷41	14.7	6.4	11.4	20	M12x0.75	14.6	20	15	4
9041324	RFL L U Ø8-Ø8	8 ▲	57.3	44÷49	18.7	9.1	13.8	26	M15x1	18.7	24	20	4.5

▲ **Ø4** = Ø5/32"; **Ø8** = Ø5/16"