









An introduction

### Whoever claimed the world of fittings for pneumatic pipes had nothing more to offer?

A new market entry is a line of brandnew products based on a simple yet revolutionary idea; including the components required for all the pneumatic functions in a single body, a technopolymer plastic fitting. This is the lineonline: generation, a range of products for fitting on compressed-air systems. As with all new applications, it was important to receive the signals from the market, analyze demand, and to converge them in a single project.

### The following messages were received from the market:

Miniaturise	Pneumatic components must be small to enable the construction of neatly-engineered machines, and reduce the dimensions of pneumatic panels.
Lighten	Less weight, for moving parts, means less inertia and hence better acceleration and performance.
Integrate	The inclusion of different components in a single item cuts assembly times and the number of product codes, and makes miniaturisation easier.
Modularity	The use of modular items increases the designers' freedom and reduces the need for adaptors, supports and connections.
Aesthetics	If a pneumatic component is fitted on a machine in a visible position, its shape and colour must make the machine more pleasing to the eye.

### Metal Work has tried to determine

... whether these principles could also be meaningful in the world of fittings, which is where **lineonline** comes in. There had never been something that looked like a pipe-pipe fitting yet was in actual fact a pressure regulator, something else that looked like previous versions but was actually a flow regulator, and something else that looked suspiciously familiar yet was really a top-performance solenoid valve! We've managed to squeeze into a single unit main all the pneumatic functions – regulating the flow, regulating the capacity, cutting off the flow manually or electrically, measuring the pressure, relieving the air ... and the list goes on. In short, it is a fitting seen as a sort of brick (a Lego block, if you like) with which to build a whole new world of things pneumatic.

### All the products can be connected in series or in parallel or in a combination of both.

...This allows total freedom when constructing pneumatic systems. With series connection, each module carries out a function linked to the following one. For example, there may be an RML pressure regulator followed by a MAN L gauge giving the value of the regulated pressure. With parallel connection, each module performs a separate function. For example, a number of SOV L solenoid valves arranged in parallel gives a set of 3/2 solenoid valves that is small, lightweight and complete with fittings and reel. It is also possible to connect modules in series pneumatically, but arrange them in parallel, in which case a pre-bent crescent-shaped pipe is provided.

### All the items are available in a version

... for pipe-pipe connection, thank to the two push-in fittings, or for pipethread connection, adding an RU6 fitting with his male NPT thread. In the latter case the element can be mounted directly on the actuator, for

example the VSR L quick-relief valve (version with male thread) is mounted on the cylinder.

On one side of the technopolymer body is an indelible pneumatic symbol in relief to help the user identify the function and direction of flow. Two sizes are currently available: 1/4", with fittings for 1/4" pipes, and 5/16", with fittings for 5/16" pipes.

### **Fixing methods**

All fixing methods are possible:

 On a wall, using the two transversal holes provided in all the bodies.

 On a plate, using the steel bracket provided.

The follow products h developed • On a panel. This requires a hole in the panel and the Line-on-Line item is fixed using the ring nut provided. Note that all the control knobs on manual items have a smaller diameter than the size of the hole to make in the panel.

 Underneath, fixing the steel bracket under a piece of sheet metal.

ing lineonline:	RFL R:	in-line flow regulator					
l so far	RML:	miniaturised in-line pressure reducer					
	VSR L:	in-line quick- relief valve					
	VNR L:	in-line check valve					
	<b>V2V L:</b>	in-line two-way on/off valve					
	<b>V3V L:</b>	in-line three-way on/off valve					
	MAN L:	in-line pressure gauge					
	LAM L:	in-line pressure display					
	SOV L:	in-line 3/2 NC or NO solenoid valve					

### Let us take a closer look at one of these products.

The RML is a miniaturised pressure reducer capable of keeping a constant downstream pressure with a setting range of 14 to 116 psi, and 260 NI/min flow rate, measured at 87  $\Delta p14$  psi. It can be used for numerous

applications. Mounted on a valve outlet, it can be used to regulate pressure at each utility as it is only 0.57 inc wide (1/4" pipe) or 0.73 inc (5/16" pipe); or it is easy to mount on compact valve units. It can be

used as an economiser, by supplying the cylinder chamber with the minimum pressure required for the return movement.

Dott. Ing. Giorgio Guzzoni







### SUMMARY

\_

INTRODUCTION	PAGE 06
LINE-MOUNTED MICRO FLOW REGULATOR SERIES "RFL-R"	PAGE 08
MINIATURE REDUCER SERIES RML	PAGE 11
IN-LINE QUICK-EXHAUST VALVES SERIES "VSR L"	PAGE 13
IN-LINE CHECK VALVE SERIES "VNR L"	PAGE 15
IN-LINE SHUTOFF VALVES SERIES "V2V L""V3V L"	PAGE 17
IN-LINE PRESSURE GAUGE SERIES "MAN L"	PAGE 20
IN-LINE PRESSURE INDICATOR SERIES "LAM L"	PAGE 22
IN-LINE SOLENOID VALVES SERIES "SOV L"	PAGE 24
LINE-ON-LINE ACCESSORIES	PAGE 27



### lineonline: LINE OF PRODUCTS ON LINE

Line on Line is an exclusive range of products for mounting on pneumatic circuits. With these small, highly efficient components it is possible to perform all pneumatic functions at any point of the circuit.

Line on Line is ultra-modular - the components can be connected in parallel, in series or combined parallel/series. All Line on Line products are available for pipe-pipe connection with two push in fittings. Adding an RU6 fitting, it is possible to have a pipe-NPT thread connection.

The body is made of technopolymer, giving a product that is extremely lightweight and compact.

One side of the body is marked with an indelible pneumatic symbol to facilitate identification and indicate the direction of flow.



### CONNECTION FREE



#### FIXING FREE





### ALL THE PNEUMATIC FUNCTIONS WITH THE SAME EXTERNAL DIMENSIONS



PIPE-PIPE



THREAD-PIPE

### APPLICATION EXAMPLE





### LINE-MOUNTED FLOW MICRO-REGULATOR WITH PUSH-IN FITTING Serie RFL R

The RLF R flow micro-regulator belongs to the LINE ON LINE<sup>®</sup> family and can be connected in series or in parallel with all the other products.

The RFL R regulates the air input and thus the speed in pneumatic actuators. Two versions are available:

• Type U (unidirectional) regulates the flow only in one of the two directions of air flow. The following types of fitting can be mounted:

- Push-in input and output fitting

• Type B (bidirectional) regulates the flow in both directions of air flow. The following types of fitting can be mounted:

- Push-in input and output fitting
- Threaded port and push-in fitting

There are three possible types of assembly (see example on the following page).



TECHNICAL DATA		Ø 5/32	Ø 1/4	Ø 5/16
Max. operating pressure	psi		15÷150	
Temperature range	°C		-20÷+60	
	°F		-4÷+140	
Max flow rate on regulation at 90 psi	Nl/min	155	450	850
Flow rate on relief at 90 psi	Nl/min	160	550	950
Adjustment			Manual or using a screwdriver	
Internal system			Tapered needle	
Recommended pipe		Rilsan F	PA 11 – Nylon 6 – Polyamide 12 - Polypro	opylene
Fluid			Lubricated or unlubricated filtered air	

### COMPONENTS

- 1) Technopolymer body
- 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
- 1 Technopolymer stop bushing
- 1 Technopolymer release bushing



### FLOW CHARTS





### ASSEMBLY OPTIONS

 n°

8 9 10 11 12 13 14

P (NI/min)



How to mount the RFL R:

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



#### RFL R PIPE-PIPE UNIDIRECTIONAL



Code	Ref.		Ø	А	В	С	D	E
9041301	RFL R U 5/3	32-5/32	5/32	1.57	1.32-1.44	0.42	0.22	0.39
9041316	U RFL R U 1/4	4-1/4	1/4	1.85	1.42-1.61	0.58	0.25	0.45
9041324	RFL R U 5/1	6-5/16	5/16	2.18	1.73-1.93	0.74	0.36	0.54
G	Н	I	11	Ch	Nmax			
G	Н	I	11	Ch	Nmax			
G 0.69	H M9x0.75	l 0.5	l1 0.63	Ch 0.43	Nmax 0.16			
<b>G</b> 0.69 0.79	H M9x0.75 M12x0.75	l 0.5 0.57	11 0.63 0.79	Ch 0.43 0.59	Nmax 0.16 0.16			
G 0.69 0.79 1.02	H M9x0.75 M12x0.75 M15x1	I 0.5 0.57 0.74	11 0.63 0.79 0.94	Ch 0.43 0.59 0.79	Nmax 0.16 0.16 0.18			



Code	Ref.		Ø	А	В	С	D	E
9041601	RFL R B 5/3	2-5/32	5/32	1.57	1.32-1.44	0.42	0.22	0.39
9041616	J RFL R B 1/4	-1/4	1/4	1.85	1.42-1.61	0.58	0.25	0.45
9041624	RFL R B 5/1	6-5/16	5/16	2.18	1.73-1.93	0.74	0.36	0.54
G	Н	I	11	Ch	Nmax			
G	Н	I	11	Ch	Nmax			
<b>G</b> 0.69	H M9x0.75	l 0.5	l1 0.63	Ch 0.43	Nmax 0.16	_	_	
G 0.69 0.79	H M9x0.75 M12x0.75	l 0.5 0.57	0.63 0.79	Ch 0.43 0.59	Nmax 0.16 0.16			
G 0.69 0.79 1.02	H M9x0.75 M12x0.75 M15x1	0.5 0.57 0.74	0.63 0.79 0.94	Ch 0.43 0.59 0.79	Nmax 0.16 0.16 0.18	_	_	

### MINIATURE REDUCER, Series "RML"

J

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.

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				
Pipe coupling		Ø 1/4	Ø 5/16				
Regulation range	psi	15÷1	20 psi				
Inlet pressur	psi	30÷1	50 psi				
Flow rate at 90 psi ∆P 14.5 psi	NI/min	150 NI/min	260 Nl/min				
Flow rate on relief at 90 psi	NI/min	400 NI/min	600 NI/min				
Fluid		lubricated or unlu	bricated filtered air				
Max. temperature at 150 psi	°C	-20÷	+ + 60				
	°F	_4÷-	+140				
Assembly position		available					
Comments		In the miniature regulator the pres	ssure must always be set upwards.				

### COMPONENTS

- 1) Technopolymer body
- 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
- 1 Technopolymer release bushing
- (1) Technopolymer stop bushing
- (12) Stainless steel crimping spring
- (13) Technopolymer spring ring
- (14) NBR gasket
- (15) Nickel-plated brass rotating ring





### **ASSEMBLY OPTION**



- 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 trought the proper small square SQU L

### POSSIBLE APPLICATIONS



### LINE-MOUNTED MINIATURE REDUCER, SERIES RML



906131	6U RML 1	/4-1/4	1/4	1.85	1.81-2.05	0.58	0.25	0.45
906132	4 RML 5	/16-5/16	5/16	2.18	2.05-2.28	0.74	0.36	0.54
<u> </u>	ц	1	11	Ch	Nimmu			
G	п	I	11	Cn	INMAX			
0.98	M9x0.75	0.57	0.79	0.43	0.18			
1.08	M11x1	0.74	0.94	0.51	0.15			

### IN-LINE QUICK-EXHAUST VALVES Series VSR L

NE

The VSR L quick-exhaust valve belongs to the LINE ON LINE® family, which means it can be connected to all the other components in series or in parallel.

Available in the version for pipe-pipe connection with two FOX push-in fittings.

Exhaust can be silenced using a STAINLESS steel wire silencer, or conveyed using a FOX push-in fitting.



TECHNICAL DATA		Ø 1/4	Ø 5/16					
Operating pressure	psi	7÷150						
Temperature range	°C	-20 to +60						
	°F	-4 to	+140					
Inlet Flow rate at 90 psi $\Delta P$ 14.5 psi	NI/min	270	400					
Exhaust Flow rate at 90 psi	NI/min	700	1000					
Recommended pipe		Rilsan PA 11 – Nylon 6 – Po	Iyamide 12 – Polypropylene					
Fluid		lubricated or unlubricated filtered compressed air; if used, must be continuous						

### COMPONENT PARTS

- 1 Technopolymer body
- Nickel-plated brass insert
- ③ NBR valve
- ④ NBR gasket
- (5) Technopolymer spring ring
- 6 Stainless steel folding spring
- O Brass or technopolymer locking bushing
- (8) Technopolymer release bushing
- (9) Stainless steel wire silencer





#### ASSEMBLY OPTIONS



How to mount the VSR L:

- Fig. A: Adding a RU6 fitting, with his male NPT thread, it is possible to mount the VSR L straight on to the actuator or the control valve.
  Fig. B: Fixing to the plate with the special SQU L bracket.
- Fig. C: There are two robust rings on the plastic body for fixing the RFL R straight onto the wall.

### OVERALL DIMENSIONS AND ORDERING CODES



VSR L PIPE-PIPE, SILENCED EXHÁUST	Code	Ref.	Ø	A	В	С	D	E	E1	I	11



9063116U	VSR L 1/4-1/4-SIL	1/4	1.85	1	0.58	0.25	0.45	0.51	0.57	0.79
9063124	VSR L 5/16-5/16-SIL	5/16	2.18	1.24	0.74	0.36	0.54	0.71	0.74	0.94

### IN-LINE CHECK VALVE Series VNR L

OF

The VNR L check valve belongs to the LINE ON LINE<sup>®</sup> family, which means it can be connected to all the other components in series or in parallel.

Available in the version for pipe-pipe connection with two FOX push-in fittings.

It is still the only check valve with holes for wall mounting.



TECHNICAL DATA		Ø 1/4	Ø 5/16
Operating pressure	psi	7÷	170
Temperature range	°C	-20 tc	o +60
	°F	-4 to	+140
Flow rate at 90 psi ΔP 14.5 psi	NI/min	320	480
Recommended pipe		Rilsan PA 11 – Nylon 6 – Po	lyamide12 – Polypropylene
Fluid		lubricated or unlubricated	d filtered compressed air

### COMPONENT PARTS

- ① Technopolymer body
- Nickel-plated brass insert
- ③ NBR valve
- (4) Stainless steel valve compression spring
- (5) NBR gasket
- (6) Technopolymer spring ring
- ⑦ Stainless steel folding spring
- (8) Technopolymer locking bushing
- (9) Technopolymer release bushing





### **ASSEMBLY OPTIONS**



How to mount the VNR L:
Fig. A: Adding a RU6 fitting, with his male NPT thread, it is possible to mount the VNR L straight on to the actuator or the control valve.
Fig. B: Fixing to the plate with the special SQU L bracket.
Fig. C: There are two robust rings on the plastic body for fixing the VNR L straight onto the wall.

### OVERALL DIMENSIONS AND ORDERING CODES

VNR L PIPE-PIPE	Code	Ref.	Ø	А	В	С	D	E	I	11
	9064016U 9064024	VNR L 1/4-1/4 VNR L 5/16-5/16	1/4 5/16	1.85 2.18	0.79	0.58 0.74	0.25 0.36	0.45 0.54	0.57 0.73	0.79 0.94

### IN-LINE SHUTOFF VALVE Series "V2V L" and "V3V L"

V2V L and V3V L shutoff valves belong to the LINE ON LINE® family which means they can be connected to all the other components in series or in parallel.

Available in the version for pipe-pipe connection with two FOX push-in fittings.

V2V is a two-way unidirectional valve, while V3V is a threeway valve with free discharge in the area around the control knob.

The locked version is probably the smallest available on the market. A lock is provided to ensure the valve is kept in the closed position during machine maintenance. The valve is supplied complete with a lock and two keys.



TECHNICAL DATA		Ø 1/4	Ø 5/16					
Operating pressure	psi	0÷150						
Temperature range	°C	-20 to	o +60					
	°F	-4 to	+140					
Inlet Flow rate at 90 psi ΔP 14.5 psi	NI/min	280	470					
Exhaust Flow rate 90 psi	NI/min	110	110					
Recommended pipe		Rilsan PA 11 – Nylon 6 – Po	lyamide 12 – Polypropylene					
Fluid		lubricated or unlubricated filtered compressed air; if used, must be continuous						

### COMPONENT PARTS

- ① Technopolymer body
- ② Nickel-plated brass insert
- (3) Brass rod
- ④ Technopolymer knob
- 5 NBR valve
- 6 Stainless steel valve compression spring
- ⑦ Nickel-plated brass wall-mount ring nut
- (8) NBR gasket
- (9) Technopolymer spring ring
- 1 Stainless steel folding spring
- (1) Technopolymer locking bushing
- 12 Technopolymer release bushing





### **ASSEMBLY OPTIONS**



How to mount the V2V/V3V L: • Fig. A: Adding a RU6 fitting, with his male NPT thread, it is possible to mount the V2V/V3V L straight on to the actuator or the control valve. • Fig. B: Fixing to the plate with the special SQU L bracket. • Fig. C: There are two robust rings on the plastic body for fixing the V2V/V3V L straight onto the wall. • Fig. D: the rig nut is screwed onto the threaded metal part of the V2V/V3V L body for panel mounting.

### OVERALL DIMENSIONS AND ORDERING CODES

V2V/V3V L PIPE-PIPE	Code	Ref		Ø	ð	А	В	С	D	E
	90650 90660 90650 90660	16U V2\ 16U V3\ 24 V2\ 24 V3\	/L1/4-1/4 /L1/4-1/4 /L5/16-5/16 /L5/16-5/16	1	/4	1.85 2.18	1.61 1.81	0.58 0.74	0.25	0.45 0.54
	G	Н	I	11	Ch	Nmax				
	0.83	M15x1	0.57	0.79	0.67	0.22				
	1.02	M15x1	0.74	0.94	0.67	0.22				

### V2V/V3V L PIPE-PIPE PADLOCKED



Code	Ref.			Ø	А	В	С	D	E
9065116	J V2V L	. 1/4-1/4	KEY	1/4	1.85	1.61	0.58	0.25	0.45
9066116	U V3VL	. 1/4-1/4	KEY						
9065124	V2V L	5/16-5/	16 KEY	5/16	5 2.18	1.81	0.74	0.36	0.54
9066124	V3V L	5/16-5/	16 KEY						
G I	1	I	11	Ch	Nmax				
0.83 /	M15x1	0.57	0.79	0.67	0.22				
1.02 /	W15x1	0.74	0.94	0.67	0.22				



### **IN-LINE PRESSURE GAUGE Series MAN L**

The MAN L pressure gauge belongs to the LINE ON LINE® family, which means it can be connected to all the other components in series or in parallel.

Available in the version for pipe-pipe connection with two FOX push-in fittings.

Though small in size, this pressure gauge, which is supplied in a metal casing, ensures accurate reading. It can be angled in any direction simply by rotating manually.



TECHNICAL DATA	Ø 1/4	Ø 5/16			
Max. inlet pressure psi	0÷170				
Temperature range °C	-20 to +60				
°F	-4 to	+140			
Precision	±4% full scale				
Recommended pipe	Rilsan PA 11 – Nylon 6 – Polyamide 12 – Polypropylene				
Fluid	lubricated or unlubricate	d filtered compressed air			

### **ASSEMBLY OPTIONS**



How to mount the MAN L:

- Fig. A: Adding a RU6 fitting, with his male NPT thread, it is possible to mount the MAL L straight on to the actuator or the control valve.
  Fig. B: Fixing to the plate with the special SQU L bracket.
  Fig. C: There are two robust rings on the plastic body for fixing the MAN L straight onto the wall.
  Fig. D: Use the SQL L bracket for panel mounting the MAN L.



### OVERALL DIMENSIONS AND ORDERING CODES

MAN L PIPE-PIPE	Code	Ref.	Ø	A	В	С	D	E	E1	I	11
	9067016U 9067024	MAN L 1/4-1/4 MAN L 5/16-5/16	1/4 5/16	1.85 2.18	1.38	0.58	0.25 0.36	0.45 0.54	0.9	0.57	0.79 0.94



### **IN-LINE PRESSURE INDICATOR Series LAM L**

The LAM L pneumatic light indicator belongs to the LINE ON LINE® family, which means it can be connected to all the other components in series or in parallel.

Available in the version for pipe-pipe connection with two FOX push-in fittings.

When there is no pressure, the clear technopolymer bell looks empty. When there is pressure, a red signal appears. The clear bell can be cleaned using normal detergents or ethyl alcohol, as the technopolymer used is fully compatible.



TECHNICAL DATA	Ø 1/4	Ø 5/16			
Max. inlet pressure psi	30÷	150			
Temperature range °C	-20 to	o +60			
°F	-4 to +140				
Colour with pressure	orange - green				
Recommended pipe	Rilsan PA 11 – Nylon 6 – Polyamide 12 – Polypropylene				
Fluid	lubricated or unlubricated filtered compressed air; if used, must be continuous				

### ASSEMBLY OPTIONS



How to mount the LAM L:

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

## OFFE

### OVERALL DIMENSIONS AND ORDERING CODES

### LAM L PIPE-PIPE



Code	e Ref.			Ø	А	В	С	D	E	E1	
9068	016U LAN	\L1/4-1,	/4-A	1/4	1.85	1.46	0.58	0.25	0.45	0.42	
9068	216U LAN	\L 1/4-1,	/4-V								
9068	024 LAN	L 5/16-	5/16-A	5/16	2.18	1.61	0.74	0.36	0.54	0.42	
9068	224 LAN	L 5/16-	5/16-V								
G	Н	I	11	Ch	Nmax						
0.83	M15x1	0.57	0.79	0.67	0.18						
1.02	M15x1	0.74	0.94	0.67	0.18						
A = 0	ORANGE										
V = C	GREEN										



### **IN-LINE SOLENOID VALVE Series SOV L**

SOV L solenoid valves belong to the LINE ON LINE® family, which means they can be connected to all the other components in series or in parallel.

Available in the version for pipe-pipe connection with two FOX push-in fittings.

Though small in size, SOV L valves are solenoid-piloted and feature very high performance.

The spool distributor is fitted with special polyurethane gaskets to ensure a very long working life.

Each valve comes complete with a monostable manual control and LED.

Exhaust can be damped with an annular silencer.



TECHNICAL DATA		Ø 1/4	Ø 5/16			
Max. inlet pressure	psi	30÷	100			
Temperature range	°C	–10 to	o +60			
	°F	+14 to +140				
Flow rate at 90 psi ΔP 7.2 psi	NI/min	270	500			
Flow rate at 90 psi ΔP 14.5 psi	NI/min	380	700			
Conductance C	Nl/min*bar	95.8	178.1			
Coefficient b	bar/bar	0.145	0.129			
Voltage	VDC	2	4			
Power	W	1.	2			
Recommended pipe		Rilsan PA 11 – Nylon 6 – Polyamide 12 – Polypropylene				
Fluid		lubricated or unlubricated filtered comp	pressed air; if used, must be continuous			

### **ASSEMBLY OPTIONS**



How to mount the SOV L:

Fig. A: Adding a RU6 fitting, with his male NPT thread, it is possible to mount the SOV L straight on to the actuator or the control valve.
Fig. B: Fixing to the plate with the special SQU L bracket.

• Fig. C: There are two robust rings on the plastic body for fixing the SOV L straight onto the wall.

### OVERALL DIMENSIONS AND ORDERING CODES





### ACCESSORIES

PLUG-IN CONNECTOR	NOTES
Code         Description           W0970512000         PLUG-IN CONNECTOR MACH 11 L=300	

### **SPARES**

PLUG-IN PILOT	NOTES
Code         Description           W4005001100         PLUG-IN PILOT B01 24VDC LED	

# FIXING SQUARE KIT Code Description A B C F I I1 12



15 S

13

14

9062110 SQU L 1.18 0.87 0.57 0.16 0.27 0.19 0.23 0.36 0.08 0.25 0.05 NOTE: comes with two m3x16 screws (for L.O.L. Ø 6 - 8), two m3 hexagonal nuts, 2 groovers, 4 washers. Ē (-)(i)മ  $\bigcirc$ €⇒ ۱ С m ш 5 **U-BOLT** Code Description **9062216U** TUB L 1/4-1/4 TUB L 5/16-5/16 9062224



RU6 - STEM ADAPTORS	Ch									
	MW Part. No.	Ref.	Ø	F	Inc	mm	Р	L	D	E
	2U06001	RU6	5/32	10/32 UNF	5/16	8	0,16	0,99	0,08	0,35
	2U06002	RU6	5/32	1/8 NPT	0,472	12	0,24	1,09	0,10	0,51
	2U06003	RU6	5/32	1/4 NPT	0,551	14	0,31	1,19	0,10	0,65
Ø	2U06000	RU6	1/4	10/32 UNF	5/16	8	0,16	1,01	0,08	0,35
D	2U06007	RU6	1/4	1/8 NPT	0,472	12	0,24	1,11	0,16	0,51
	2U06008	RU6	1/4	1/4 NPT	0,551	14	0,31	1,20	0,16	0,65
	2U06020	RU6	1/4	3/8 NPT	0,669	17	0,35	1,31	0,16	0,79
	2U06009	RU6	5/16	1/8 NPT	0,472	12	0,24	1,15	0,22	0,51
<u>Ch</u>	2U06010	RU6	5/16	1/4 NPT	0,551	14	0,31	1,24	0,24	0,65
	2U06011	RU6	5/16	3/8 NPT	0,669	17	0,35	1,35	0,24	0,79
					,			,	,	,
F										
E										

Cod. 9910099 - N. 2000 - IM01 - 07/2003 Stampa: Euroteam (Bs)