

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, or for thread-pipe connection with a brass nickel-plated male ISO 228 G (BSP) thread and a push-in fitting.

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.

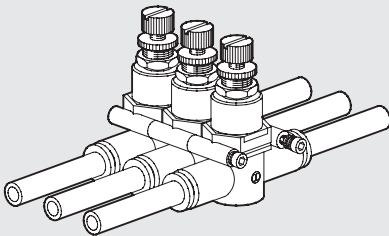
For almost every function it is available $\varnothing 1/4$ and $\varnothing 3/8$ " tube version.

It is also possible to use RU6 fitting to mount LINE ON LINE® on thread UNF or NPT.

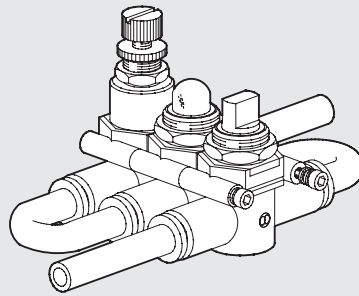


CONNECTION FREE

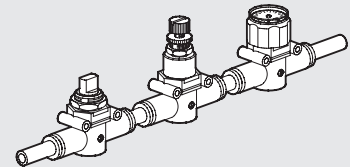
Parallel lines



Serial line parallel fitting



Serial line in-line fitting



FIXING FREE

Wall fixing

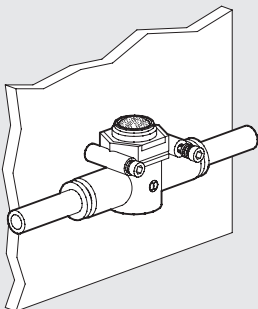
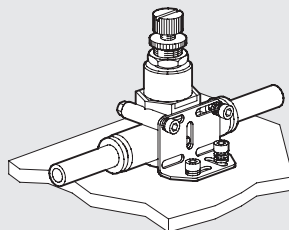
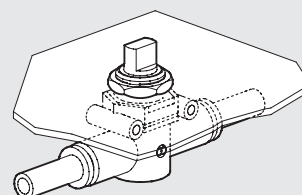


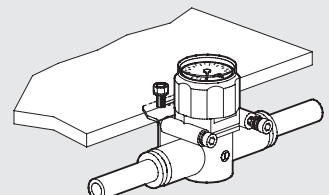
Plate fixing

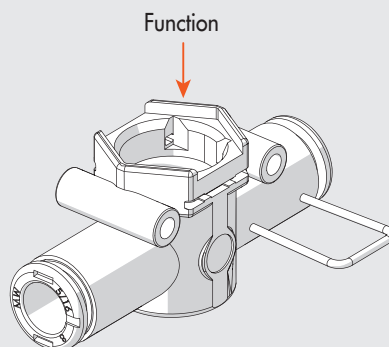



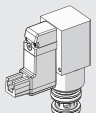
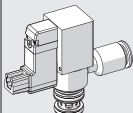


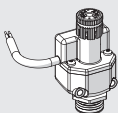



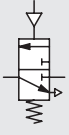
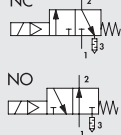
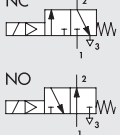
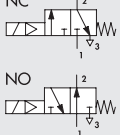
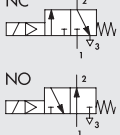
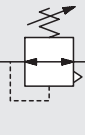





Panel fixing

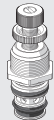
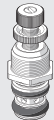












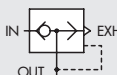
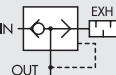
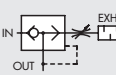
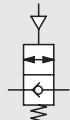




Under wall fixing



ALL THE PNEUMATIC FUNCTIONS WITH THE SAME EXTERNAL DIMENSIONS


PNV	SOV		RML ●▲	MAN ●▲	PRS ●▲	LAM ●	V2V ●▲	V3V ●▲
								
3-way pneumatic valve	Solenoid valve 3-way with silenced exhaust	Solenoid valve 3-way with conveyed exhaust	Pressure regulator	Pressure gauge	Pressure switch	Pressure indicator	Shut-off valve 2-way	Shut-off valve 3-way
	 	 						
See page E1.7	See page E1.10		See page E1.14	See page E1.18	See page E1.20	See page E1.24	See page E1.26	See page E1.26

RFL ●▲		RFF		VSR ●▲		VSRR	STP	VNR ●▲	FIL ▲
									
Flow regulator unidirectional	Flow regulator bidirectional	Calibrated choke unidirectional	Calibrated choke bidirectional	Quick-exhaust valve conveyed	Quick-exhaust valve silenced	Quick-exhaust valve regulated	Stop valve	Check valve	Filter
									
See page E1.29		See page E1.34		See page E1.37		See page E1.39	See page E1.42	See page E1.45	See page E1.47

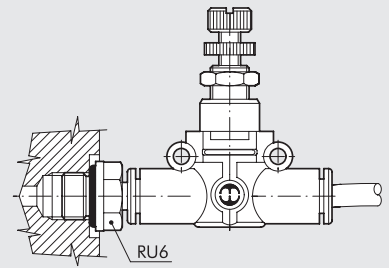
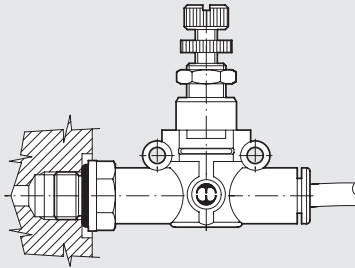
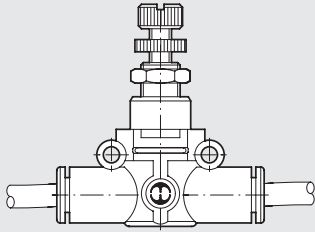
- Available also in tube Ø 1/4" version
- ▲ Available also in tube Ø 3/8" version

PIPE - PIPE

THREAD - PIPE

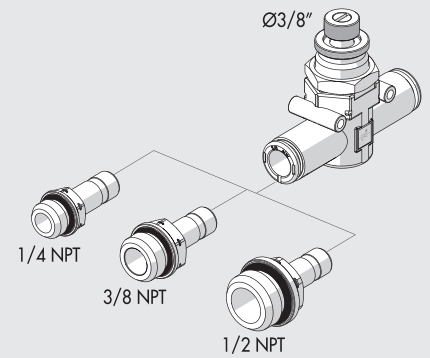
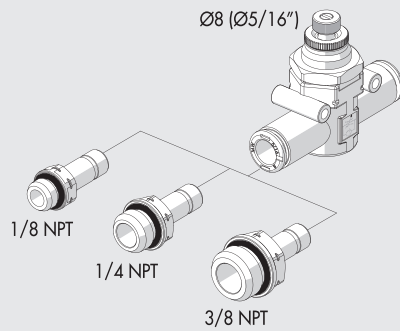
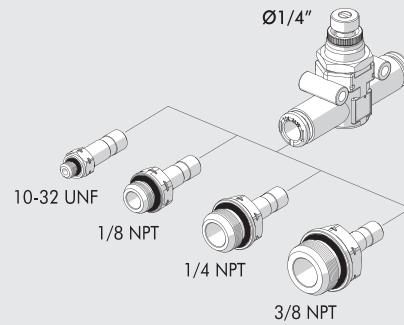
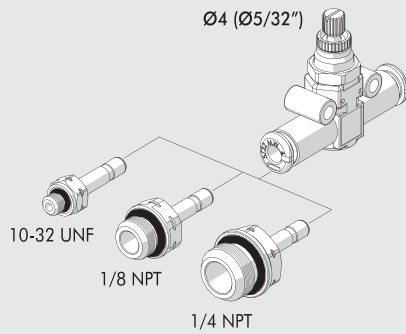
ISO 228 G (BSP) THREAD

UNF or NPT THREAD

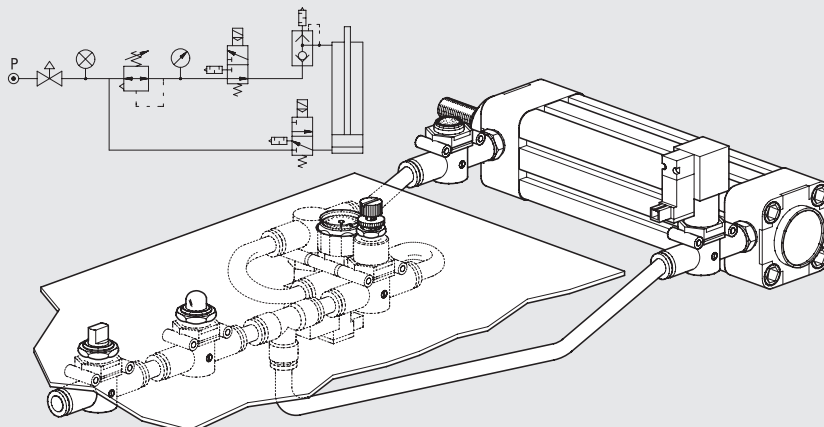


FROM TUBE - TUBE TO UNF or NPT THREAD - TUBE TRANSFORMATION

Using the RU6 fitting, it is possible to mount every Line on Line products on to the actuator or the control valve.



APPLICATION EXAMPLE



IN-LINE PNEUMATIC VALVE SERIES PNV L



The PNV L in-line pneumatic valve belongs to the LINE ON LINE® family and can be connected in series or in parallel with the other products in the same family.

It is available in a version for pipe-pipe connection, which includes two push-in fittings, and a version for thread-pipe connection, which includes a nickel-plated brass male thread and a push-in fitting.

The compressed air port is a push-in fitting for $\varnothing 4$ ($\varnothing 5/32''$) pipe.

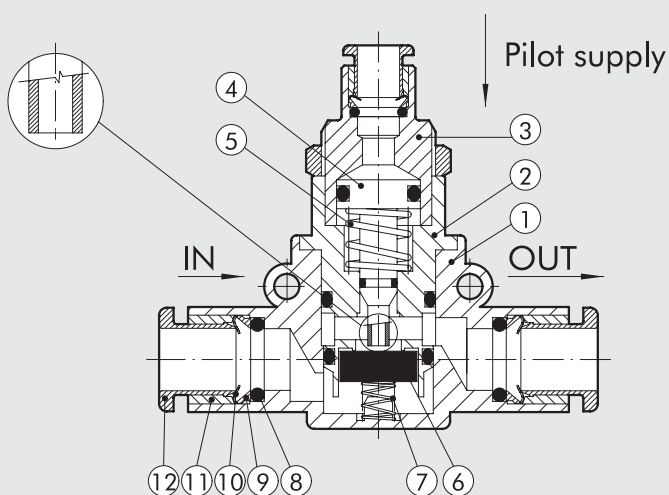
The valve is the normally-closed $3/2$ pipe. It is a unidirectional valve, meaning it only works properly if supplied from port 1.



TECHNICAL DATA		$\varnothing 6$	$\varnothing 8$ ($\varnothing 5/16''$)
Max. operating pressure	MPa		1
	bar		10
	psi		145
Temperature range	$^{\circ}\text{C}$		- 20 to + 60
	$^{\circ}\text{F}$		- 4 to + 140
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	

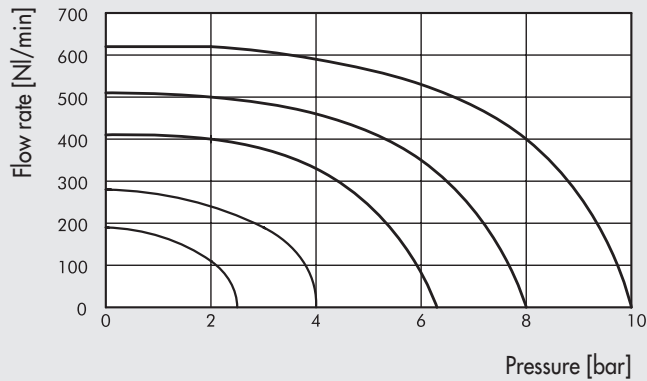
COMPONENTS

- ① Technopolymer body
- ② Nickel-plated brass insert
- ③ Nickel-plated brass pilot insert
- ④ Brass piston rod
- ⑤ Stainless steel clamping spring
- ⑥ NBR seal
- ⑦ Stainless steel poppet spring
- ⑧ NBR seal
- ⑨ Technopolymer spring ring
- ⑩ Stainless steel clamping spring
- ⑪ Technopolymer stop bushing
- ⑫ Technopolymer release bushing

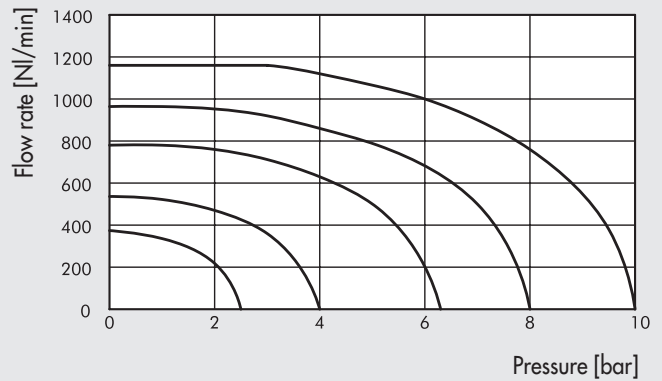


FLOW CHARTS

PNV L Ø 6

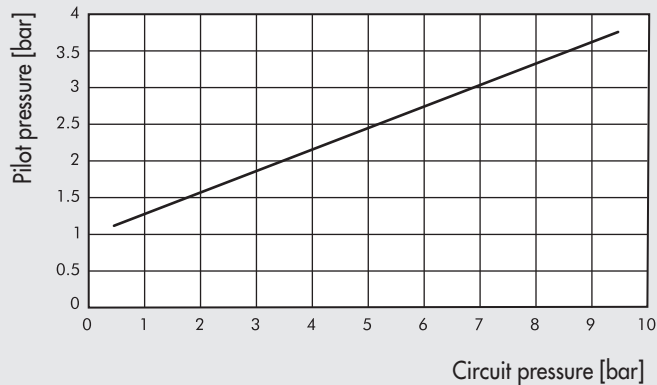


PNV L Ø 8 (Ø5/16")

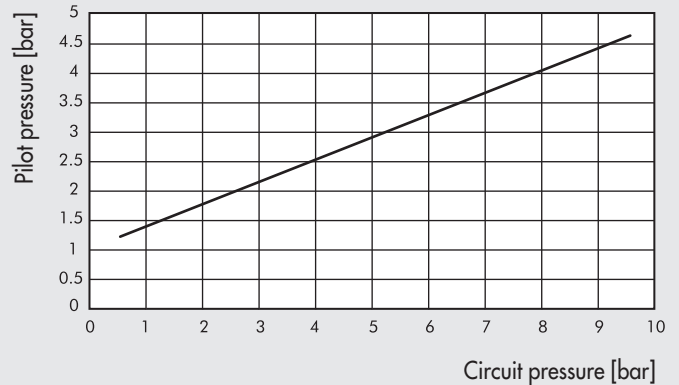


MINIMUM PILOT PRESSURE

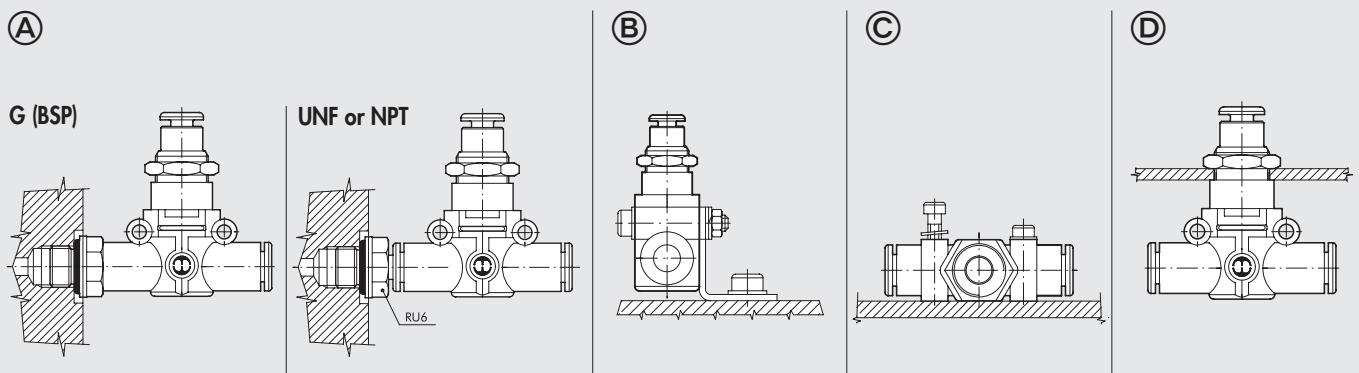
PNV L Ø 6



PNV L Ø 8 (Ø5/16")



ASSEMBLY OPTIONS



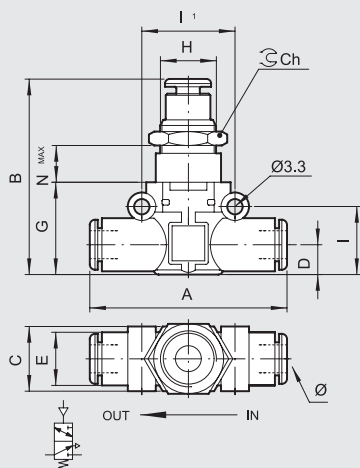
How to mount the PNV L:

- Fig. A **G (BSP)**: With the male threaded port it is possible to mount the PNV 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 PNV 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 PNV L straight onto the wall.
- Fig. D The ring nut is screwed onto the threaded metal part of the PNV L body for panel mounting.

PNV L 3/2 NC PIPE - PIPE

Code	Ref.	Ø	A	B	C	D	E	G	H	I	II	Ch	Nmax
9067616	PNV L3/2 NC Ø6-Ø6	6	49.4	43.2	14.7	6.4	11.4	20	M12x0.75	14.6	20	15	12
9067624	PNV L3/2 NC Ø8-Ø8	8 ▲	57.3	49.7	18.7	9.1	13.8	26	M15x1	18.7	24	17	11.8

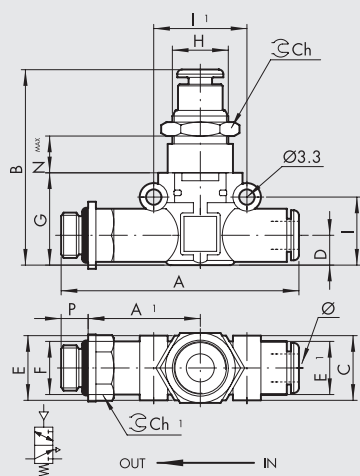
▲ Ø8 = Ø5/16"



PNV L 3/2 NC PIPE - G (BSP) THREAD

Code	Ref.	F	Ø	P	A	A1	B	C	D	E	E1	G	H	I	II	Ch	Nmax
9067808	PNV L3/2 NC Ø6-1/8	1/8	6	6	58.5	27.8	43.2	14.7	6.4	14	11.4	20	M12x0.75	14.6	20	15	12
9067809	PNV L3/2 NC Ø6-1/4	1/4	6	8	61.5	28.8	43.2	14.7	6.4	18	11.4	20	M12x0.75	14.6	20	15	12
9067810	PNV L3/2 NC Ø8-1/8	1/8	8 ▲	6	66.2	31.8	49.7	18.7	9.1	15	13.8	26	M15x1	18.7	24	17	11.8
9067811	PNV L3/2 NC Ø8-1/4	1/4	8 ▲	8	70.6	34.2	49.7	18.7	9.1	18	13.8	26	M15x1	18.7	24	17	11.8
9067812	PNV L3/2 NC Ø8-3/8	3/8	8 ▲	9	72.2	34.8	49.7	18.7	9.1	22	13.8	26	M15x1	18.7	24	17	11.8

▲ Ø8 = Ø5/16"



PNV L 3/2 NC G (BSP) THREAD - PIPE

Code	Ref.	Ø	F	P	A	A1	B	C	D	E	E1	G	H	I	II	Ch	Nmax
9067708	PNV L3/2 NC 1/8-Ø6	6	1/8	6	58.5	27.8	43.2	14.7	6.4	14	11.4	20	M12x0.75	14.6	20	15	12
9067709	PNV L3/2 NC 1/4-Ø6	6	1/4	8	61.5	28.8	43.2	14.7	6.4	18	11.4	20	M12x0.75	14.6	20	15	12
9067710	PNV L3/2 NC 1/8-Ø8	8 ▲	1/8	6	66.2	31.8	49.7	18.7	9.1	15	13.8	26	M15x1	18.7	24	17	11.8
9067711	PNV L3/2 NC 1/4-Ø8	8 ▲	1/4	8	70.6	34.2	49.7	18.7	9.1	18	13.8	26	M15x1	18.7	24	17	11.8
9067712	PNV L3/2 NC 3/8-Ø8	8 ▲	3/8	9	72.2	34.8	49.7	18.7	9.1	22	13.8	26	M15x1	18.7	24	17	11.8

▲ Ø8 = Ø5/16"

