

# IN-LINE QUICK-EXHAUST VALVES SERIES VSR L

**METAL  
WORK**  
P N E U M A T I C

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 push-in fittings, and in the version for thread-pipe connection with a brass nickel-plated male thread and a push-in fitting.

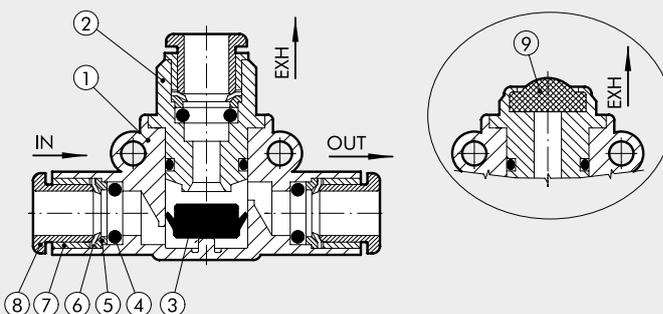
Exhaust can be silenced using a STAINLESS steel wire silencer, or conveyed using a push-in fitting.



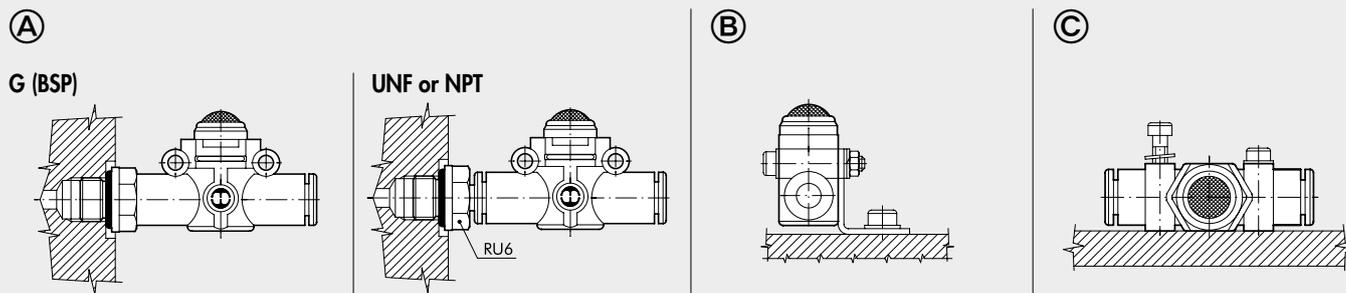
TECHNICAL DATA		Ø 4 (Ø5/32")	Ø 6	Ø 1/4"	Ø 8 (Ø5/16")	Ø3/8"	Ø10
Inlet pressure	MPa	0.1 to 1					
	bar	1 to 10					
	psi	14.5 to 145					
Temperature range	°C	- 20 to + 60					
	°F	- 4 to + 140					
Inlet flow rate at 6.3 bar ΔP 1 bar	Nl/min	50	270	270	400	530	530
Exhaust flow rate at 6.3 bar	Nl/min	100	700	700	1000	1400	1400
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 <b>chapter Z1</b>					

## COMPONENTS

- ① Technopolymer body
- ② Nickel-plated brass insert
- ③ NBR valve
- ④ NBR gasket
- ⑤ Technopolymer spring ring
- ⑥ Stainless steel folding spring
- ⑦ Brass or technopolymer locking bushing
- ⑧ Technopolymer release bushing
- ⑨ Stainless steel wire silencer



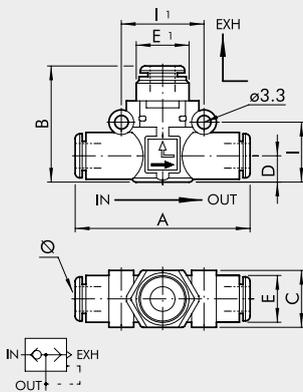
## ASSEMBLY OPTIONS



How to mount the VSR L:

- Fig. **A** **G (BSP)**: With the male threaded port it is possible to mount the VSR L straight onto the actuator.  
**UNF or NPT**: Adding a RU6 fitting, with his male UNF or 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, except for Ø3/8 and Ø10.
- Fig. **C** There are two robust rings on the plastic body for fixing the VSR L straight onto the wall.

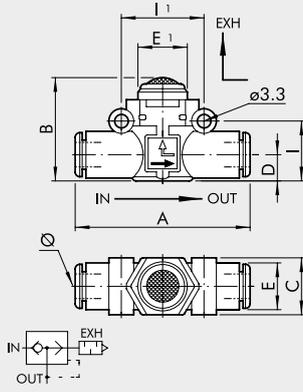
**VSR L PIPE - PIPE, CONVEYED EXHAUST**



Code	Ref.	Ø	A	B	C	D	E	E1	I	I1
9063001	VSR L Ø4-Ø4-Ø4	4 ▲	41.8	25.8	10.7	5.6	10	9.7	12.8	16
9063016	VSR L Ø6-Ø6-Ø6	6	49.4	30.2	14.7	6.4	11.4	13	14.6	20
9063016U	VSR L Ø1/4-Ø1/4-Ø1/4	1/4	49.4	30.2	14.7	6.4	11.4	13	14.6	20
9063024	VSR L Ø8-Ø8-Ø8	8 ▲	57.3	35.9	18.7	9.1	13.8	15	18.7	24
9063032U	VSR L Ø3/8-Ø3/8-Ø3/8	3/8	65	41.5	21	10.9	16	17	21.4	26
9063032	VSR L Ø10-Ø10-Ø10	10	65	41.5	21	10.9	16	17	21.4	26

▲ Ø4 = Ø5/32"; Ø8 = Ø5/16"

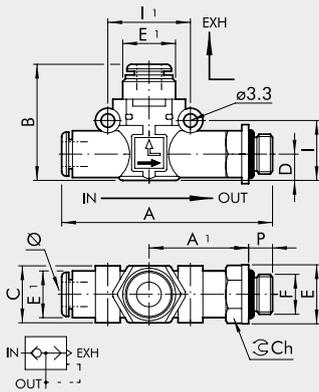
**VSR L PIPE - PIPE, SILENCED EXHAUST**



Code	Ref.	Ø	A	B	C	D	E	E1	I	I1
9063101	VSR L Ø4-Ø4-SIL	4 ▲	41.8	19.8	10.7	5.6	10	10	12.8	16
9063116	VSR L Ø6-Ø6-SIL	6	49.4	25.5	14.7	6.4	11.4	14	14.6	20
9063116U	VSR L Ø1/4-Ø1/4-SIL	1/4	49.4	25.5	14.7	6.4	11.4	14	14.6	20
9063124	VSR L Ø8-Ø8-SIL	8 ▲	57.3	31.5	18.7	9.1	13.8	18	18.7	24
9063132U	VSR L Ø3/8-Ø3/8-SIL	3/8	65	37	21	10.9	16	17	21.4	26
9063132	VSR L Ø10-Ø10-SIL	10	65	37	21	10.9	16	17	21.4	26

▲ Ø4 = Ø5/32"; Ø8 = Ø5/16"

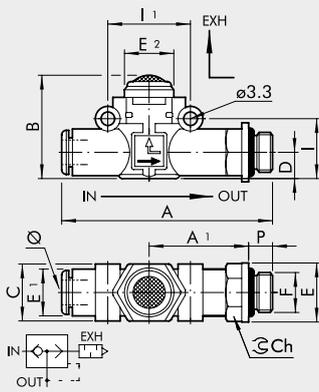
**VSR L PIPE - G (BSP) THREAD, CONVEYED EXHAUST**



Code	Ref.	Ø	F	P	A	A1	B	C	D	E	E1	E2	I	I1	Ch
9063201	VSR L Ø4-M5-Ø4	4 ▲	M5	4	47.7	22.7	25.8	10.7	5.6	9.9	10	9.7	12.8	16	9
9063202	VSR L Ø4-1/8-Ø4	4 ▲	1/8	6	50.6	24.6	25.8	10.7	5.6	14	10	9.7	12.8	16	12
9063208	VSR L Ø6-1/8-Ø6	6	1/8	6	58.5	27.8	30.2	14.7	6.4	14	11.4	13	14.6	20	12
9063209	VSR L Ø6-1/4-Ø6	6	1/4	8	61.5	28.8	30.2	14.7	6.4	18	11.4	13	14.6	20	14
9063210	VSR L Ø8-1/8-Ø8	8 ▲	1/8	6	66.2	31.8	35.9	18.7	9.1	15	13.8	15	18.7	24	14
9063211	VSR L Ø8-1/4-Ø8	8 ▲	1/4	8	70.6	34.2	35.9	18.7	9.1	18	13.8	15	18.7	24	14
9063212	VSR L Ø8-3/8-Ø8	8 ▲	3/8	9	72.2	34.8	35.9	18.7	9.1	22	13.8	15	18.7	24	17
9063215	VSR L Ø10-1/4-Ø10	10	1/4	8	79.9	39.2	41.5	21	10.9	18	16	17	21.4	26	16
9063216	VSR L Ø10-3/8-Ø10	10	3/8	9	81.2	40.4	41.5	21	10.9	20	16	17	21.4	26	17
9063217	VSR L Ø10-1/2-Ø10	10	1/2	11	83.7	40	41.5	21	10.9	26	16	17	21.4	26	22

▲ Ø4 = Ø5/32"; Ø8 = Ø5/16"

**VSR L PIPE - G (BSP) THREAD, SILENCED EXHAUST**



Code	Ref.	Ø	F	P	A	A1	B	C	D	E	E1	E2	I	I1	Ch
9063301	VSR L Ø4-M5-SIL	4 ▲	M5	4	46.7	22.7	19.8	10.7	5.6	9.9	10	10	12.8	16	9
9063302	VSR L Ø4-1/8-SIL	4 ▲	1/8	6	50.6	24.6	19.8	10.7	5.6	14	10	10	12.8	16	12
9063308	VSR L Ø6-1/8-SIL	6	1/8	6	58.5	27.8	25.5	14.7	6.4	14	11.4	14	14.6	20	12
9063309	VSR L Ø6-1/4-SIL	6	1/4	8	61.5	28.8	25.5	14.7	6.4	18	11.4	14	14.6	20	14
9063310	VSR L Ø8-1/8-SIL	8 ▲	1/8	6	66.2	31.8	31.5	18.7	9.1	15	13.8	18	18.7	24	14
9063311	VSR L Ø8-1/4-SIL	8 ▲	1/4	8	70.6	34.2	31.5	18.7	9.1	18	13.8	18	18.7	24	14
9063312	VSR L Ø8-3/8-SIL	8 ▲	3/8	9	72.2	34.8	31.5	18.7	9.1	22	13.8	18	18.7	24	17
9063315	VSR L Ø10-1/4-SIL	10	1/4	8	79.9	39.2	37	21	10.9	18	16	17	21.4	26	16
9063316	VSR L Ø10-3/8-SIL	10	3/8	9	81.2	40.4	37	21	10.9	20	16	17	21.4	26	17
9063317	VSR L Ø10-1/2-SIL	10	1/2	11	83.7	40	37	21	10.9	26	16	17	21.4	26	22

▲ Ø4 = Ø5/32"; Ø8 = Ø5/16"

# 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.

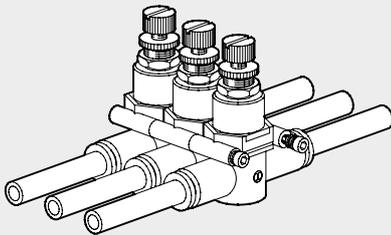
For almost every function it is available  $\varnothing 1/4$  and  $\varnothing 3/8$ " tube version.

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

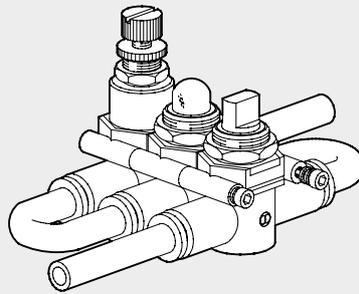


### CONNECTION FREE

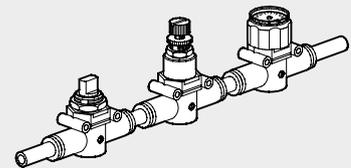
Parallel lines



Serial line parallel fitting



Serial line in-line fitting



### FIXING FREE

Wall fixing

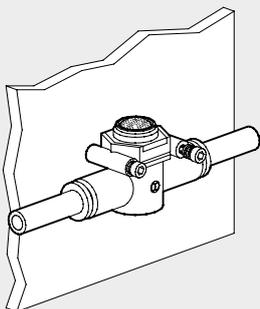
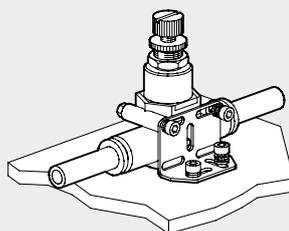
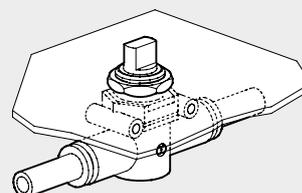


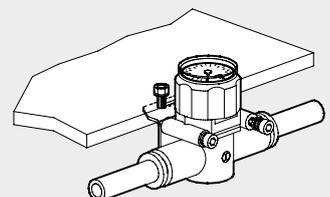
Plate fixing

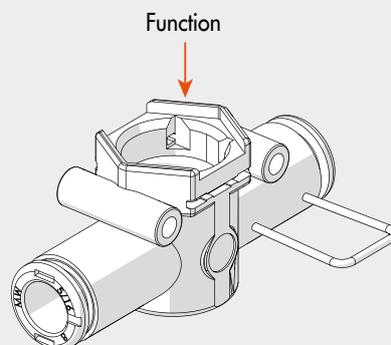


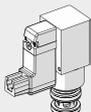
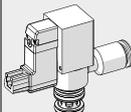
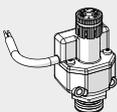
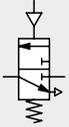
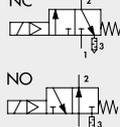
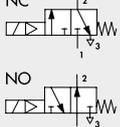
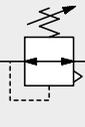
Panel fixing

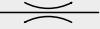
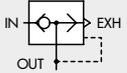
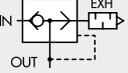
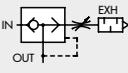
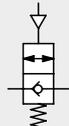


Under wall fixing



**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			

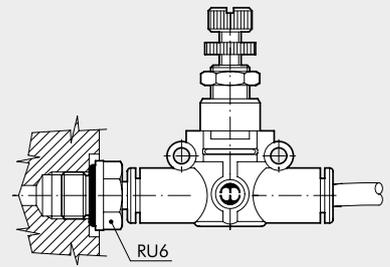
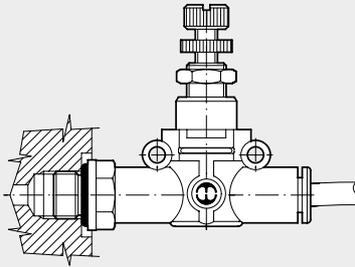
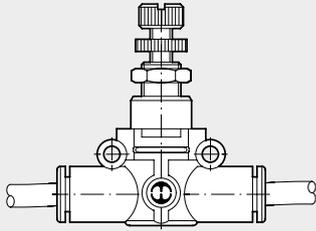
- Available also in tube Ø 1/4" version
- ▲ Available also in tube Ø 3/8" version

PIPE - PIPE

THREAD - PIPE

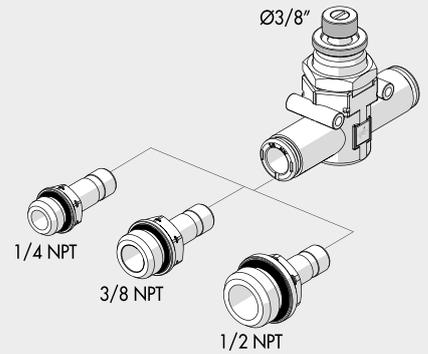
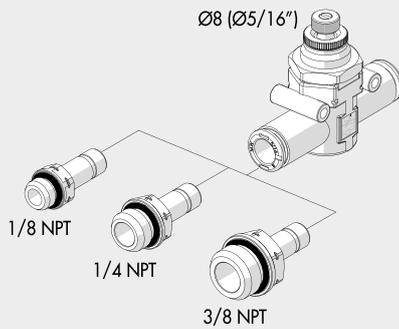
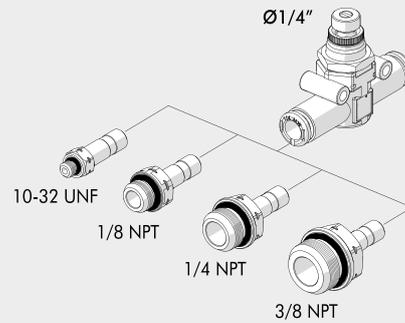
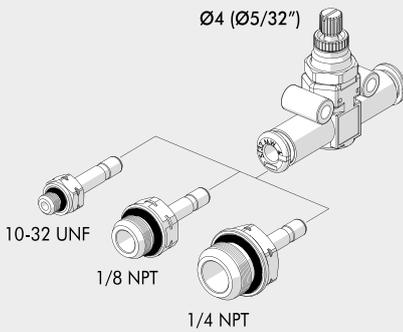
ISO 228 G (BSP) THREAD

UNF or NPT THREAD

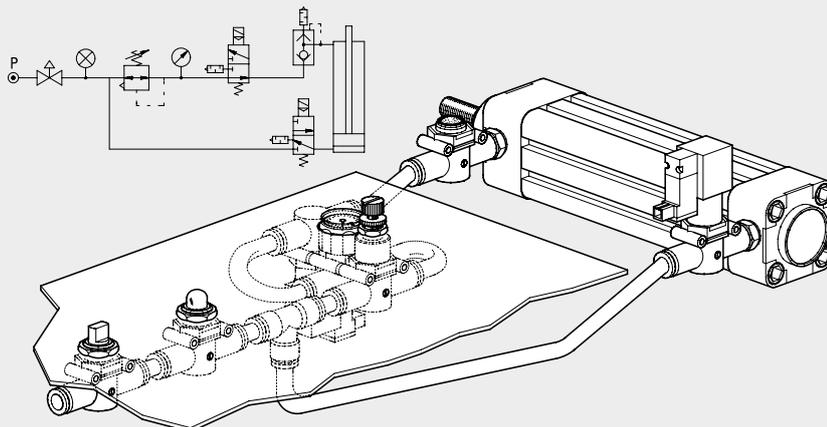


FROM TUBE - TUBE TO UNF or NPT THREAD - TUBE TRANSFORMATION

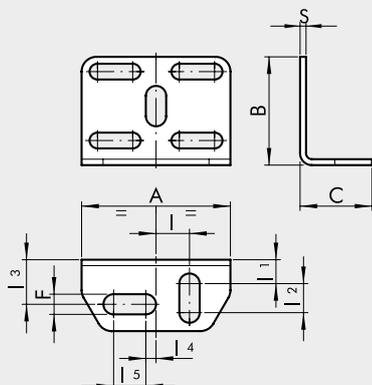
Using the RU6 fitting, it is possible to mount every Line on Line products on to the actuator or the control valve.



APPLICATION EXAMPLE



## FIXING SQUARE KIT



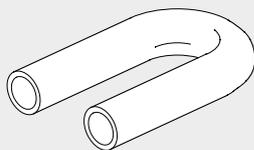
Code	Description	A	B	C	F	I	I1	I2	I3	I4	I5	S
9062110	SQU L	30	22	14.5	4.2	6.8	4.8	5.9	9.1	2	6.5	1.2

NOTE: comes with two M3x16 screws (for L.O.L.  $\varnothing 4$ ▲), two M3x25 screws (for L.O.L.  $\varnothing 6$ - $\varnothing 1/4$ - $\varnothing 8$ ▲), two M3 hexagonal nuts, 2 groovers, 4 washers.

NOT COMPATIBLE WITH  $\varnothing 3/8$  AND  $\varnothing 10$

▲  $\varnothing 4 = \varnothing 5/32"$ ;  $\varnothing 8 = \varnothing 5/16"$

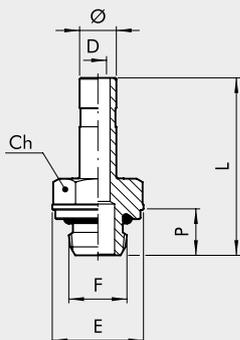
## U-BOLT



Code	Description
9062216	TUB L $\varnothing 6$ - $\varnothing 6$
9062216U	TUB L $\varnothing 1/4$ - $\varnothing 1/4$
9062224	TUB L $\varnothing 8$ - $\varnothing 8$ ▲

▲  $\varnothing 8 = \varnothing 5/16"$

## RU6 - STEM ADAPTORS UNF or NPT



Code	Ref.	$\varnothing$	F	Ch			L	D	E
				Inc	mm	P			
2U06001	RU6	5/32	10-32 UNF	5/16	8	4	25.2	2	9
2U06002	RU6	5/32	1/8 NPT	0.472	12	6	27.7	2.5	13
2U06003	RU6	5/32	1/4 NPT	0.551	14	8	30.2	2.5	16.4
2U06000	RU6	1/4	10-32 UNF	5/16	8	4	25.7	2	9
2U06007	RU6	1/4	1/8 NPT	0.472	12	6	28.2	4	13
2U06008	RU6	1/4	1/4 NPT	0.551	14	8	30.5	4	16.4
2U06020	RU6	1/4	3/8 NPT	0.669	17	9	33.3	4	20
2U06009	RU6	5/16	1/8 NPT	0.472	12	6	29.2	5.5	13
2U06010	RU6	5/16	1/4 NPT	0.551	14	8	31.5	6	16.4
2U06011	RU6	5/16	3/8 NPT	0.669	17	9	34.3	6	20
2U06012	RU6	3/8	1/4 NPT	0.551	14	8	34.8	7.3	16.4
2U06013	RU6	3/8	3/8 NPT	0.669	17	9	37.6	7.3	20
2U06022	RU6	3/8	1/2 NPT	0.748	19	11	41.2	7.3	24.5