

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

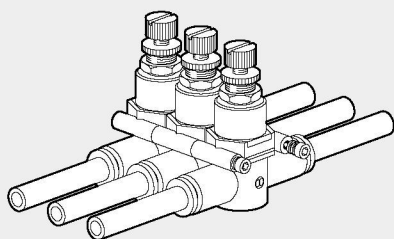
The body is made of technopolymer, giving a product that is extremely lightweight and compact.

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

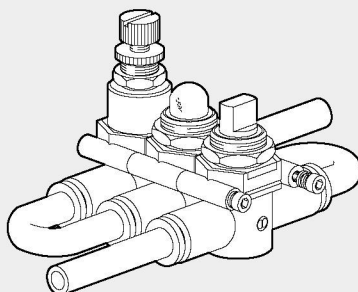


CONNECTION FREE

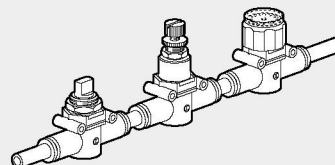
PARALLEL LINES



SERIAL LINE PARALLEL FITTING



SERIAL LINE IN-LINE FITTING



FIXING FREE

WALL FIXING

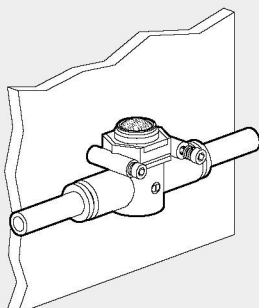
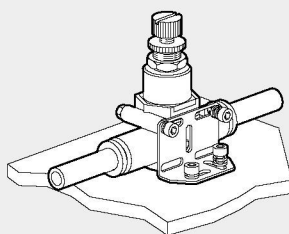
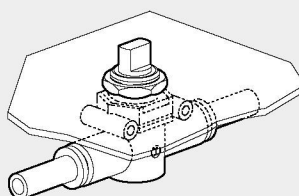


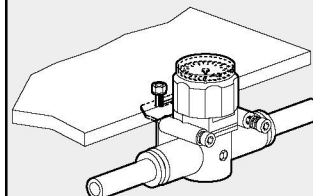
PLATE FIXING



PANEL FIXING

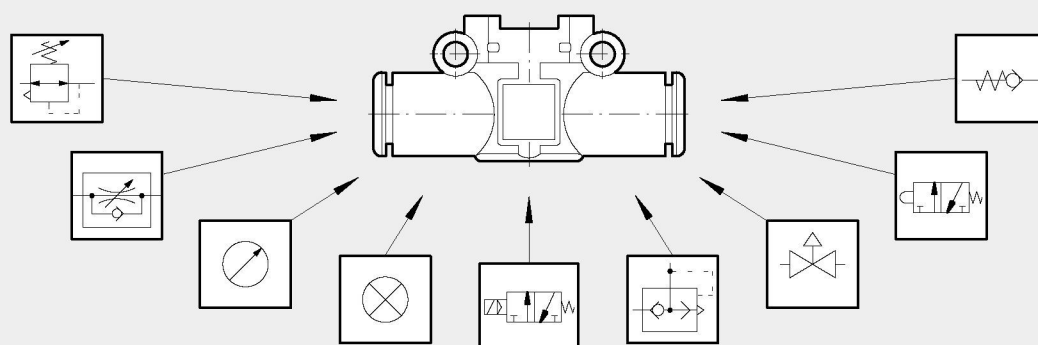


UNDER WALL FIXING

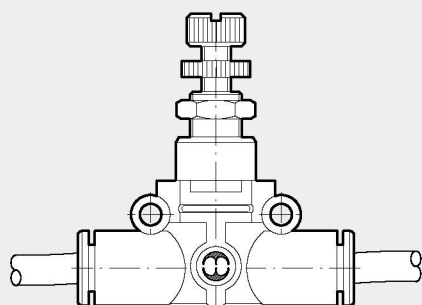




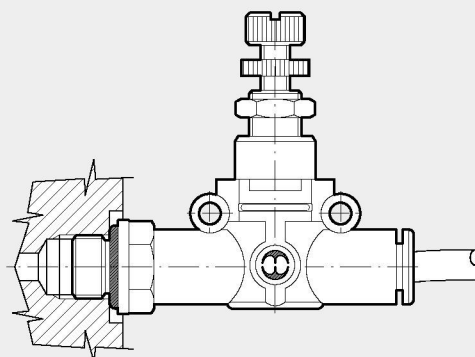
ALL THE PNEUMATIC FUNCTIONS WITH THE SAME EXTERNAL DIMENSIONS



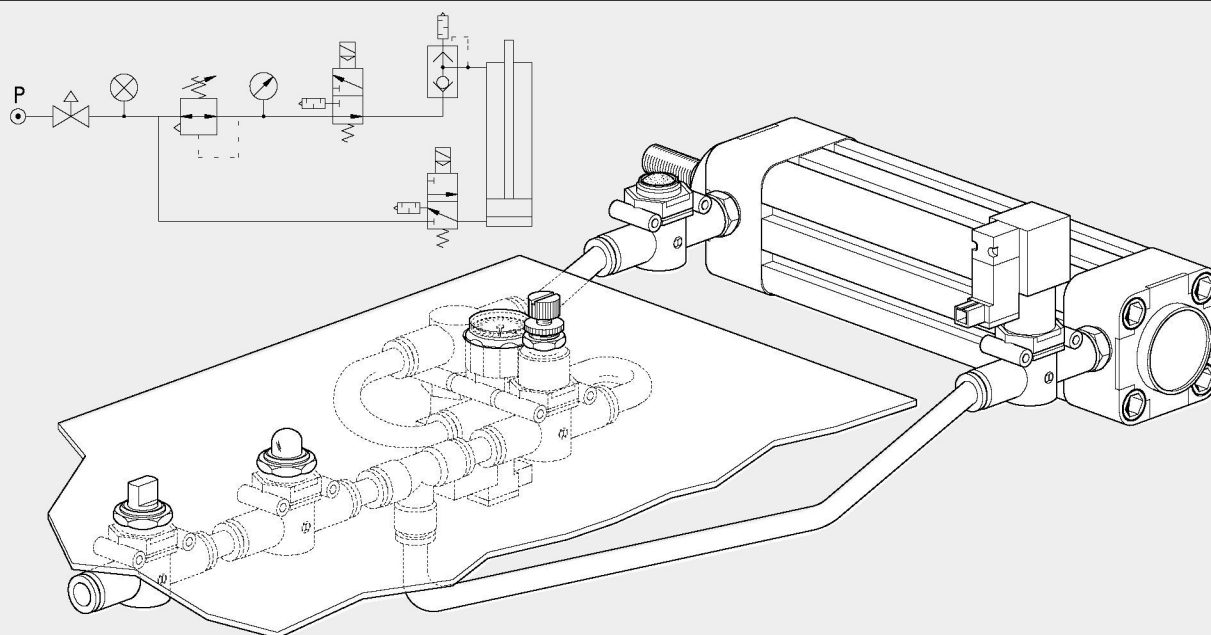
PIPE-PIPE



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® 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
- 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. The following types of fitting can be mounted:

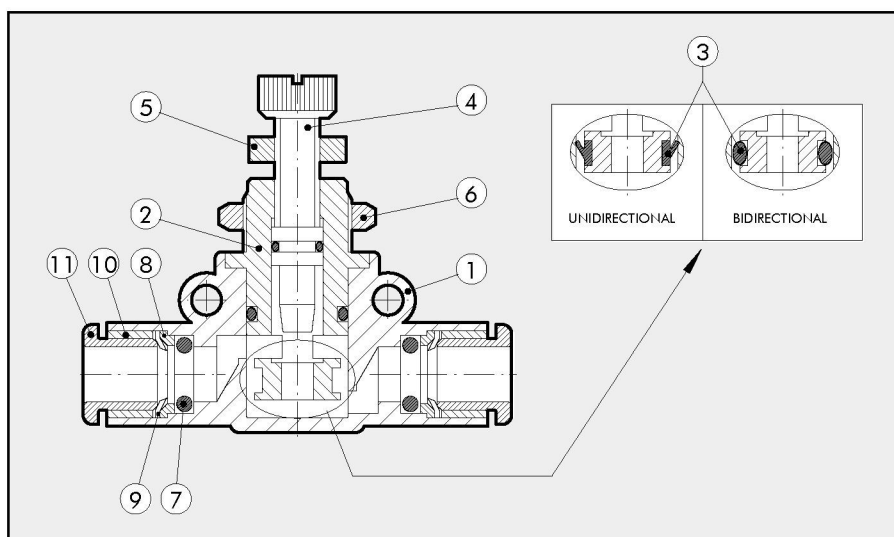
- Push-in input and output fitting
- Threaded port and push-in fitting

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

[illegible]

COMPONENTS

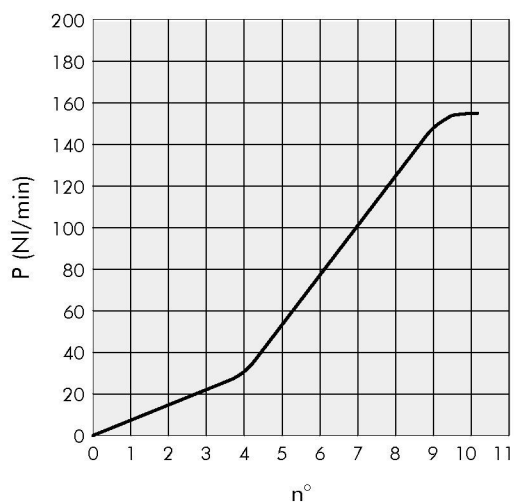
- ① Technopolymer body
- ② Nickel-plated brass seal support
- ③ NBR gasket
- ④ Brass adjusting needle
- ⑤ Nickel-plated brass needle ring nut
- ⑥ Wall fixing ring nut
- ⑦ NBR seal
- ⑧ Technopolymer spring ring
- ⑨ Stainless steel clip-on spring
- ⑩ Technopolymer stop bushing
- ⑪ Technopolymer release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



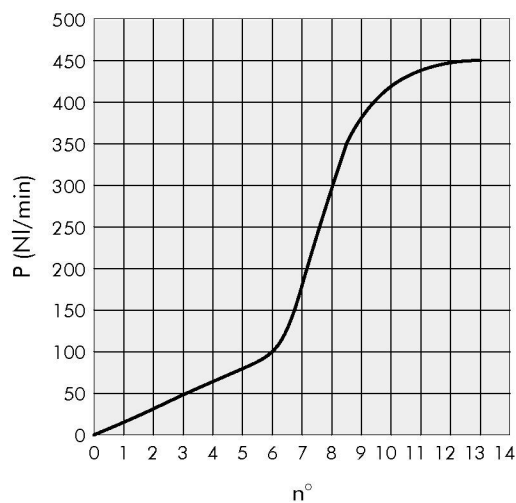


FLOW CHARTS

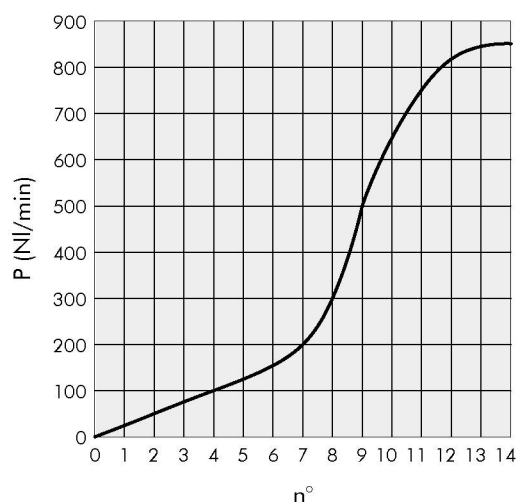
RFL R Ø 4



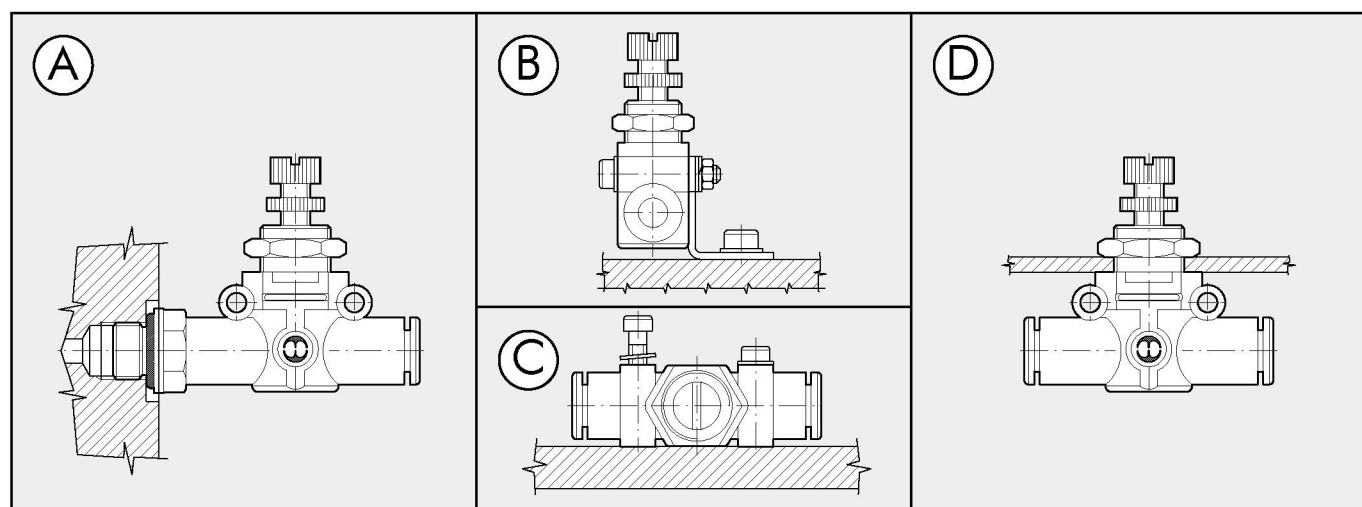
RFL R Ø 6



RFL R Ø 8



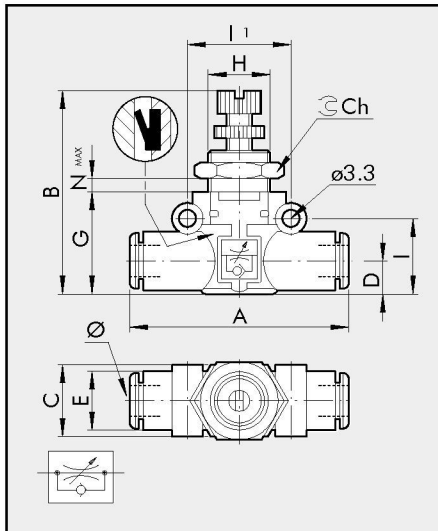
ASSEMBLY OPTIONS



How to mount the RFL R:

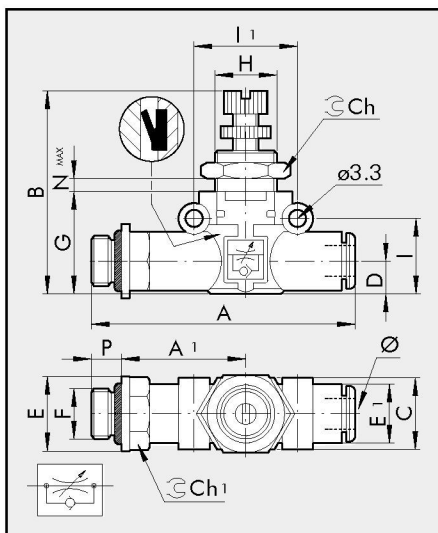
- Fig. A: With the male threaded port it is possible to mount the RFL R straight onto the actuator or the control valve.
- Fig. B: Fixing to the plate with the special SQU L bracket.
- Fig. C: There are two robust rings on the plastic body for fixing the RFL R straight onto the wall.
- Fig. D: The ring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

RFL R PIPE-PIPE UNIDIRECTIONAL



Code	Ref.	Ø	A	B	C	D	E	G	H	I	I1	Ch	Nmax
9041301	RFL R U 4-4	4	40	33.5÷36.5	10.7	5.6	10	17.5	M9x0.75	12.8	16	11	4
9041316	RFL R U 6-6	6	47	36÷41	14.7	6.4	11.4	20	M12x0.75	14.6	20	15	4
9041324	RFL R U 8-8	8	55.5	44÷49	18.7	9.1	13.8	26	M15x1	18.7	24	20	4.5

RFL R THREAD-PIPE UNIDIRECTIONAL CYLINDER VERSION

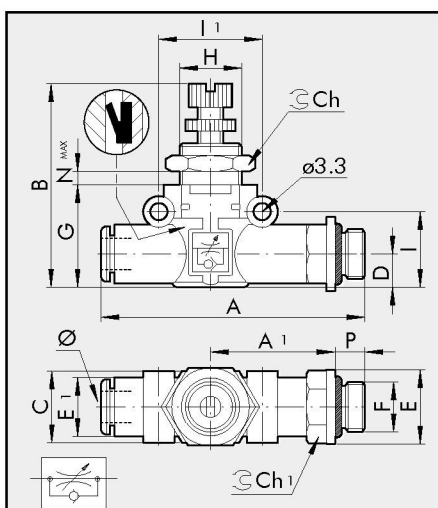


Code	Ref.	F	Ø	P	A	A1	B	C	D	E	E1
9041401	RFL R U M5-4	M5	4	4	46.7	22.7	33.5÷36.5	10.7	5.6	9.9	10
9041402	RFL R U 1/8-4	1/8	4	6	50.6	24.6	33.5÷36.5	10.7	5.6	14	10
9041408	RFL R U 1/8-6	1/8	6	6	57.3	27.8	36÷41	14.7	6.4	14	11.4
9041409	RFL R U 1/4-6	1/4	6	8	60.3	28.8	36÷41	14.7	6.4	18	11.4
9041410	RFL R U 1/8-8	1/8	8	6	65.3	31.8	44÷49	18.7	9.1	15	13.8
9041411	RFL R U 1/4-8	1/4	8	8	69.7	34.2	44÷49	18.7	9.1	18	13.8
9041412	RFL R U 3/8-8	3/8	8	9	71.3	34.8	44÷49	18.7	9.1	22	13.8

G	H	I	I1	Ch	Ch1	Nmax
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17.5	M9x0.75	12.8	16	11	9	4
17.5	M9x0.75	12.8	16	11	12	4
20	M12x0.75	14.6	20	15	12	4
20	M12x0.75	14.6	20	15	14	4
26	M15x1	18.7	24	20	14	4.5
26	M15x1	18.7	24	20	14	4.5
26	M15x1	18.7	24	20	17	4.5

RFL R PIPE-THREAD UNIDIRECTIONAL VALVE VERSION



Code	Ref.	Ø	F	P	A	A1	B	C	D	E	E1
9041501	RFL R U 4-M5	4	M5	4	46.7	22.7	33.5÷36.5	10.7	5.6	9.9	10
9041502	RFL R U 4-1/8	4	1/8	6	50.6	24.6	33.5÷36.5	10.7	5.6	14	10
9041508	RFL R U 6-1/8	6	1/8	6	57.3	27.8	36÷41	14.7	6.4	14	11.4
9041509	RFL R U 6-1/4	6	1/4	8	60.3	28.8	36÷41	14.7	6.4	18	11.4
9041510	RFL R U 8-1/8	8	1/8	6	65.3	31.8	44÷49	18.7	9.1	15	13.8
9041511	RFL R U 8-1/4	8	1/4	8	69.7	34.2	44÷49	18.7	9.1	18	13.8
9041512	RFL R U 8-3/8	8	3/8	9	71.3	34.8	44÷49	18.7	9.1	22	13.8

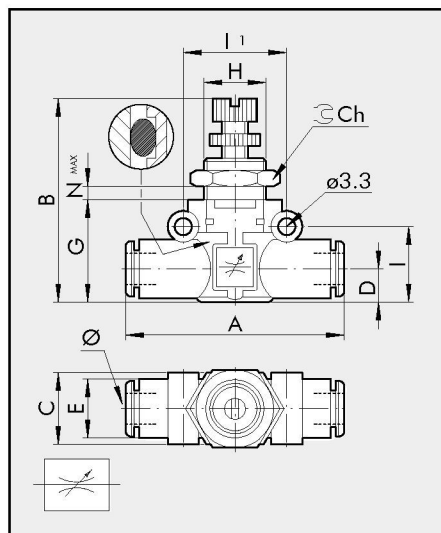
G	H	I	I1	Ch	Ch1	Nmax
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17.5	M9x0.75	12.8	16	11	9	4
17.5	M9x0.75	12.8	16	11	12	4
20	M12x0.75	14.6	20	15	12	4
20	M12x0.75	14.6	20	15	14	4
26	M15x1	18.7	24	20	14	4.5
26	M15x1	18.7	24	20	14	4.5
26	M15x1	18.7	24	20	17	4.5



RFL R PIPE-PIPE BIDIRECTIONAL

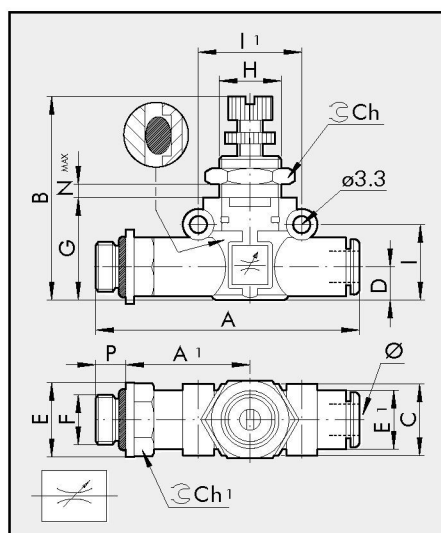
Code	Ref.	Ø	A	B	C	D	E	G	H	I	I1	Ch	Nmax
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9041601	RFL R B 4-4	4	40	33.5÷36.5	10.7	5.6	10	17.5	M9x0.75	12.8	16	11	4
9041616	RFL R B 6-6	6	47	36÷41	14.7	6.4	11.4	20	M12x0.75	14.6	20	15	4
9041624	RFL R B 8-8	8	55.5	44÷49	18.7	9.1	13.8	26	M15x1	18.7	24	20	4.5

RFL R THREAD-PIPE BIDIRECTIONAL

Code	Ref.	F	Ø	P	A	A1	B	C	D	E	E1
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9041701	RFL R B M5-4	M5	4	4	46.7	22.7	33.5÷36.5	10.7	5.6	9.9	10
9041702	RFL R B 1/8-4	1/8	4	6	50.6	24.6	33.5÷36.5	10.7	5.6	14	10
9041708	RFL R B 1/8-6	1/8	6	6	57.3	27.8	36÷41	14.7	6.4	14	11.4
9041709	RFL R B 1/4-6	1/4	6	8	60.3	28.8	36÷41	14.7	6.4	18	11.4
9041710	RFL R B 1/8-8	1/8	8	6	65.3	31.8	44÷49	18.7	9.1	15	13.8
9041711	RFL R B 1/4-8	1/4	8	8	69.7	34.2	44÷49	18.7	9.1	18	13.8
9041712	RFL R B 3/8-8	3/8	8	9	71.3	34.8	44÷49	18.7	9.1	22	13.8

G	H	I	I1	Ch	Ch1	Nmax
17.5	M9x0.75	12.8	16	11	9	4
17.5	M9x0.75	12.8	16	11	12	4
20	M12x0.75	14.6	20	15	14	4
20	M12x0.75	14.6	20	15	14	4
26	M15x1	18.7	24	20	14	4.5
26	M15x1	18.7	24	20	14	4.5
26	M15x1	18.7	24	20	17	4.5

NOTES

MINIATURE REDUCER, Series "RML" and "RMC"

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.

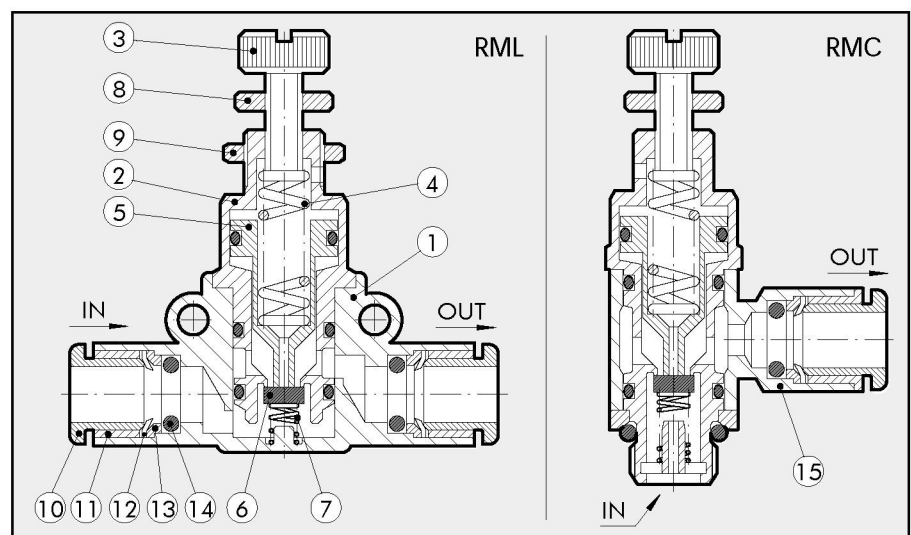
The data in brackets refer to the angle version.



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	Ø 6	Ø 4 - Ø 6 - Ø 8	-	Ø 8	Ø 6 - Ø 8 - Ø 10	-
Regulation range	1 ÷ 8 bar - 0.1 ÷ 0.8 MPa - 14.5 ÷ 116 psi					
Inlet pressure	0.2 ÷ 1 MPa 2 ÷ 10 bar 29 ÷ 145 psi					
Flow rate at 6.3 bar (0.63 MPa ÷ 91 psi) ΔP 1 bar	1/8": 150 NI/min					
Flow rate on relief at 6.3 bar (0.63 MPa ÷ 91 psi)	1/8": 400 NI/min					
Fluid	lubricated or unlubricated filtered air					
Max. temperature at 1 MPa, 10 bar, 145 psi	-20°C ÷ +60°C -4°F ÷ +140°F					
Assembly position	available					
Comments	In the miniature regulator the pressure must always be set upwards.					

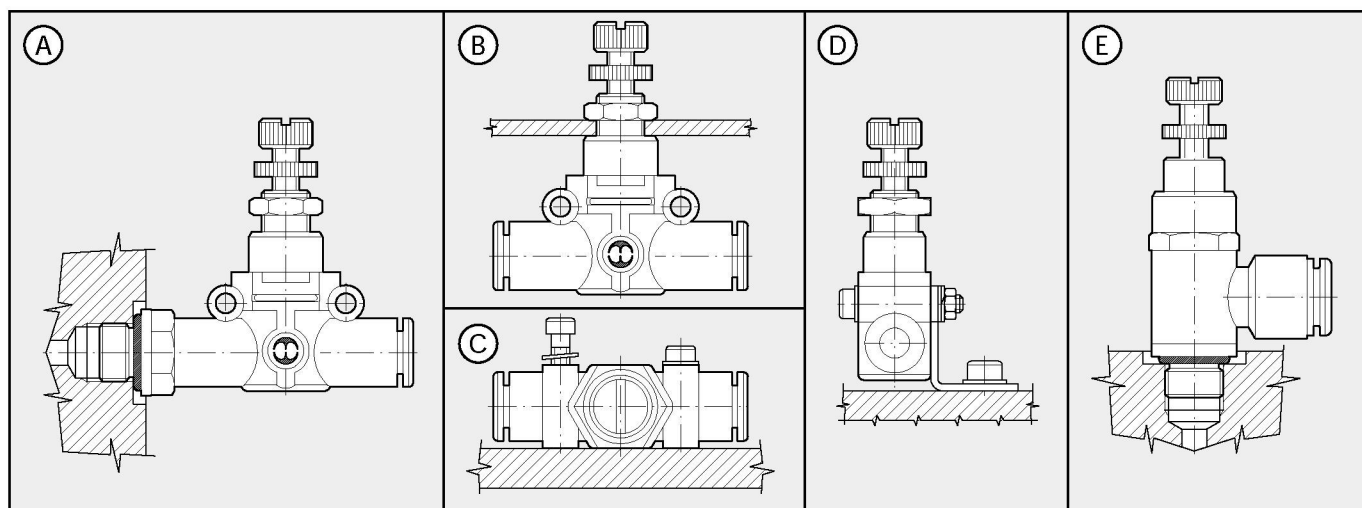
COMPONENTS

- ① Technopolymer body
- 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
- ⑨ Nickel-plated brass wall ring nut
- ⑩ Technopolymer release bushing
- ⑪ Technopolymer stop bushing
- ⑫ Stainless steel crimping spring
- ⑬ Technopolymer spring ring
- ⑭ NBR gasket
- ⑮ Nickel-plated brass rotating ring





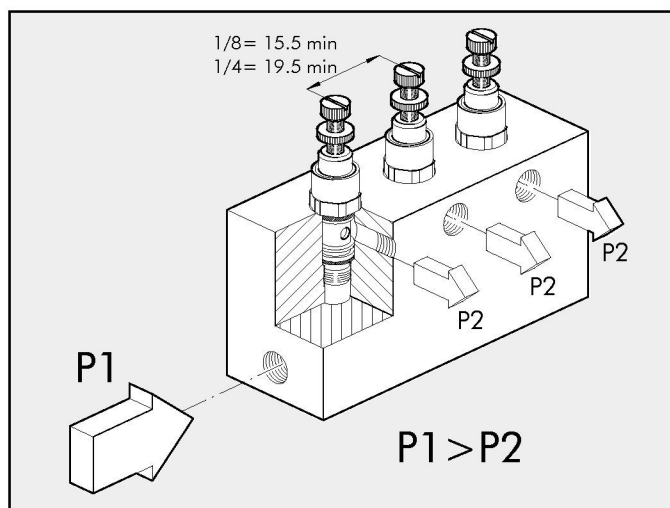
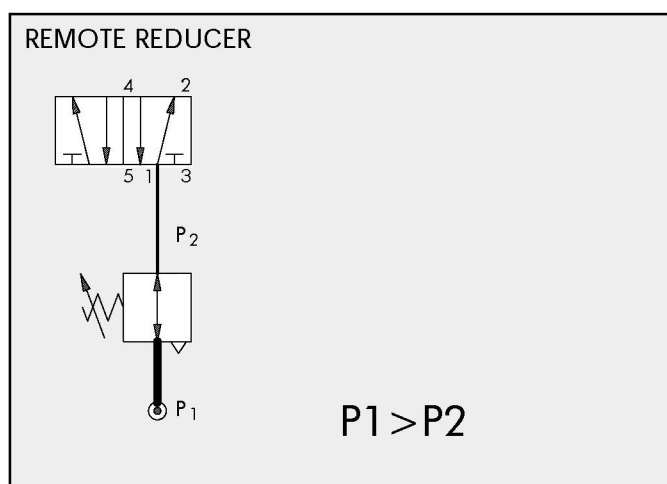
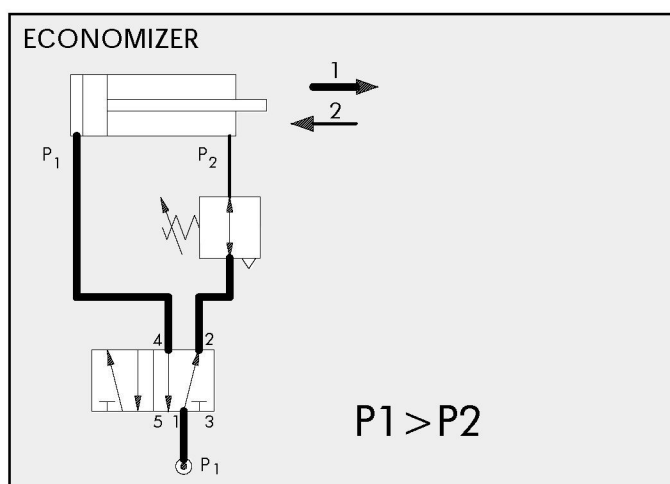
ASSEMBLY OPTION



How to assembly RML/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 trough 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°.

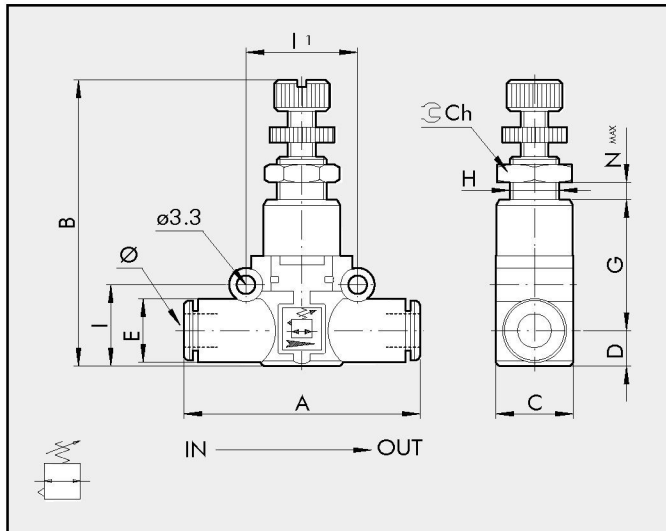
POSSIBLE APPLICATIONS



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



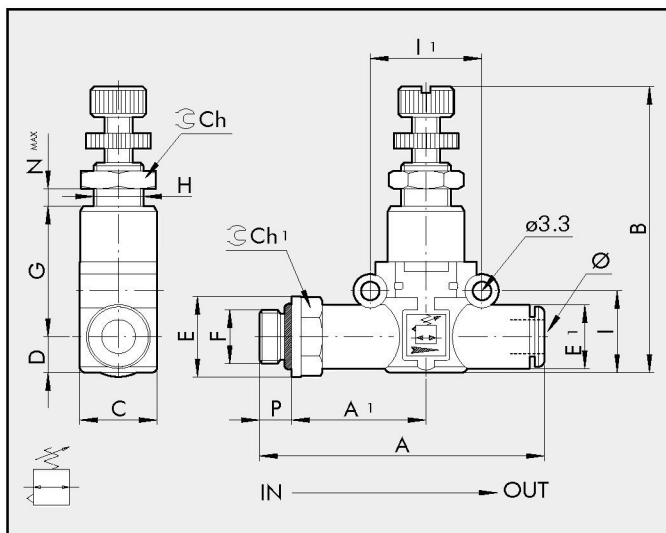
Code	Ref.	Ø	A	B	C	D	E
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9061316	RML 6-6	6	47	46÷52	14.7	6.4	11.4
9061324	RML 8-8	8	55.5	52÷58	18.7	9.1	13.8

G	H	I	I1	Ch	Nmax
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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



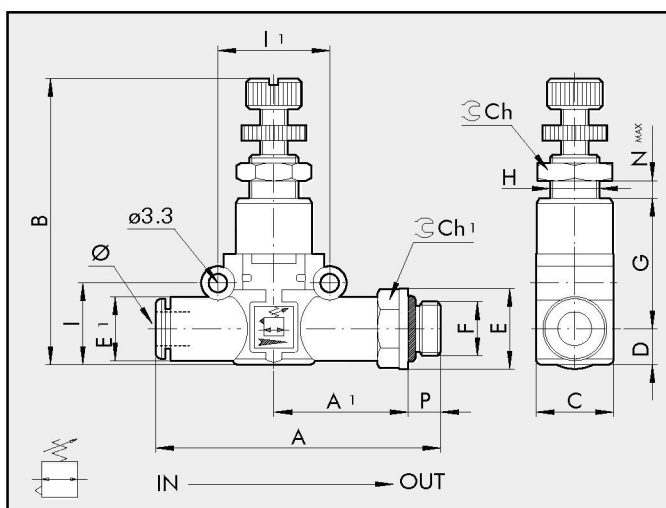
Code	Ref.	F	Ø	P	A	A1	B	C	D
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9061408	RML 1/8-6	1/8	6	6	57.3	27.8	46÷52	14.7	6.4
9061409	RML 1/4-6	1/4	6	8	60.3	28.8	46÷52	14.7	6.4
9061410	RML 1/8-8	1/8	8	6	65.3	31.8	52÷58	18.7	9.1
9061411	RML 1/4-8	1/4	8	8	69.7	34.2	52÷58	18.7	9.1
9061412	RML 3/8-8	3/8	8	9	71.3	34.8	52÷58	18.7	9.1

E	E1	G	H	I	I1	Ch	Ch1	Nmax
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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



Code	Ref.	Ø	F	P	A	A1	B	C	D
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9061508	RML 6-1/8	6	1/8	6	57.3	27.8	46÷52	14.7	6.4
9061509	RML 6-1/4	6	1/4	8	60.3	28.8	46÷52	14.7	6.4
9061510	RML 8-1/8	8	1/8	6	65.3	31.8	52÷58	18.7	9.1
9061511	RML 8-1/4	8	1/4	8	69.7	34.2	52÷58	18.7	9.1
9061512	RML 8-3/8	8	3/8	9	71.3	34.8	52÷58	18.7	9.1

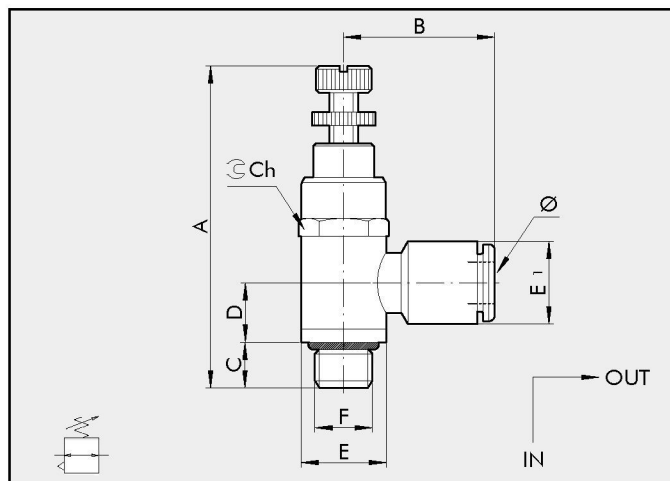
E	E1	G	H	I	I1	Ch	Ch1	Nmax
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14	11.4	24.8	M9x0.75	14.6	20	11	12	4.5
18	11.4	24.8	M9x0.75	14.6	20	11	14	4.5
15	13.8	27.4	M11x1	18.7	24	13	14	3.8
18	13.8	27.4	M11x1	18.7	24	13	14	3.8
22	13.8	27.4	M11x1	18.7	24	13	17	3.8



MINIATURE REDUCER, SERIES RMC

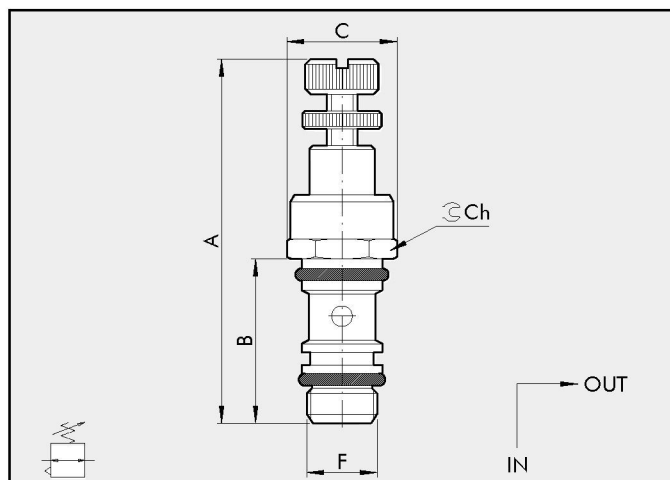
Code	Ref.	Ø	A	B	C	D	E	E1	Ch
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9061102	RMC 1/8-4	4	51÷57	20.3	6	12.7	14	9.5	14
9061108	RMC 1/8-6	6	51÷57	22.5	6	12.7	14	11.3	14
9061110	RMC 1/8-8	8	51÷57	24.4	6	12.7	14	13.8	14
9061109	RMC 1/4-6	6	57÷63	24.2	8	11	18	11.3	17
9061111	RMC 1/4-8	8	57÷63	26.1	8	11	18	13.8	17
9061112	RMC 1/4-10	10	57÷63	31.3	8	11	18	16.5	17

CARTRIDGE REDUCER, SERIES RMS

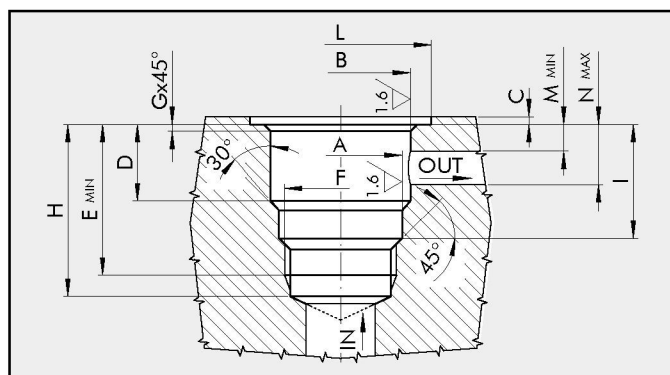
Code	Ref.	F	A	B	C	Ch
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9061001	RMS 1/8	1/8	51÷57	24.3	15	14
9061002	RMS 1/4	1/4	57÷63	27.8	19	17

SEAT OF A MINIATURE CARTRIDGE REDUCER

F	A	B	C	D
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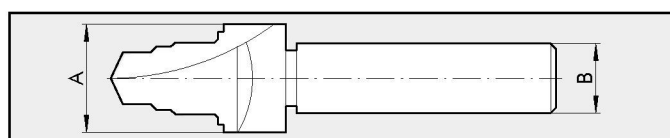


SE.RMS 1/8	1/8	9.8 +0.1/-0	11.2 ±0.05	0.5 ±0.5	15.6 ±0.07
SE.RMS 1/4	1/4	13.5 +0.1/-0	14.4 ±0.05	0.5 ±0.5	17.5 ±0.07

E	G	H	I	L	M	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

TOOL FOR RMS SEAT

Code	Ref.	A	B
------	------	---	---

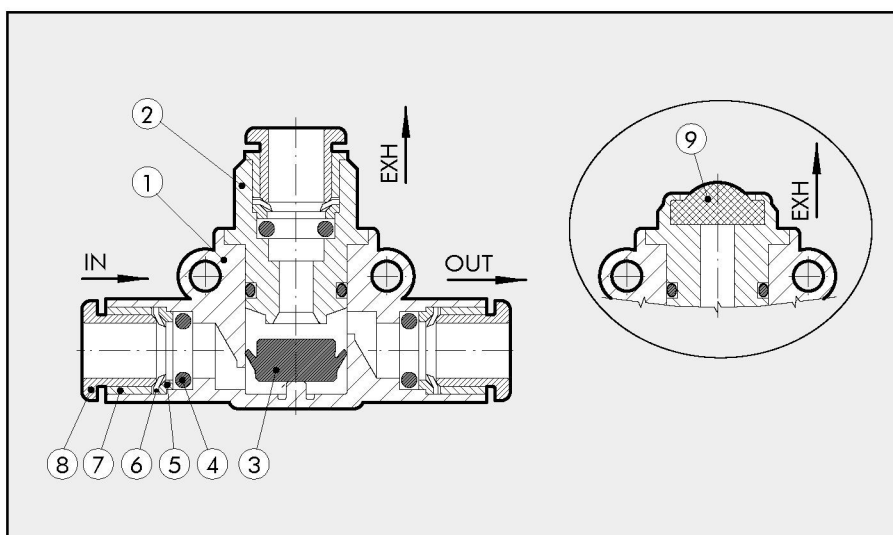


9062001	UT.SE 1/8	16	12
9062002	UT.SE 1/4	20	15

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

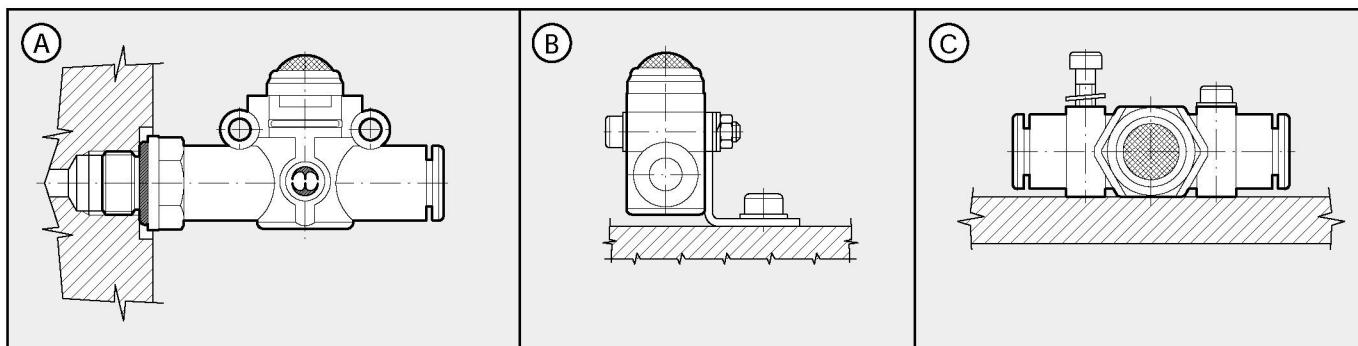
[illegible]

- 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



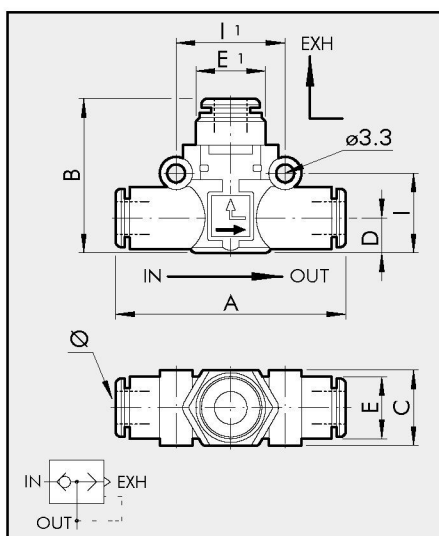
How to mount the VSR L:

- Fig. A: With the male threaded port it is possible to mount the RFL R straight onto the actuator.
- 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

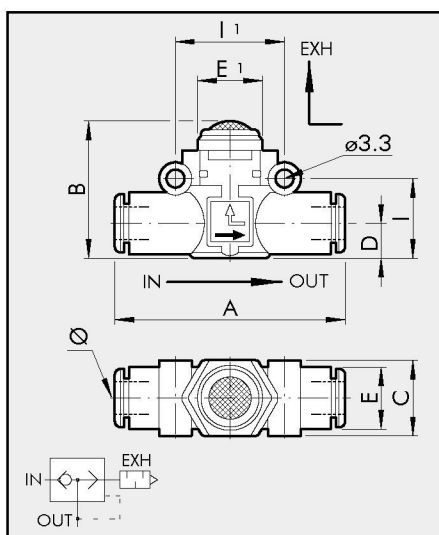
VSR L PIPE-PIPE, CONVEYED EXHAUST

Code	Ref.	Ø	A	B	C	D	E	E1	I	I1
9063016	VSR L 6-6-6	6	47	29	14.7	6.4	11.4	13	14.6	20
9063024	VSR L 8-8-8	8	55.5	35	18.7	9.1	13.8	15	18.7	24



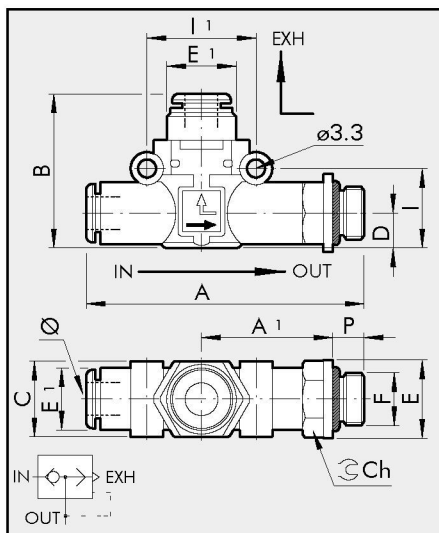
VSR L PIPE-PIPE, SILENCED EXHAUST

Code	Ref.	Ø	A	B	C	D	E	E1	I	I1
9063116	VSR L 6-6-SIL	6	47	25.5	14.7	6.4	11.4	14	14.6	20
9063124	VSR L 8-8-SIL	8	55.5	31.5	18.7	9.1	13.8	18	18.7	24



VSR L PIPE-THREAD, CONVEYED EXHAUST

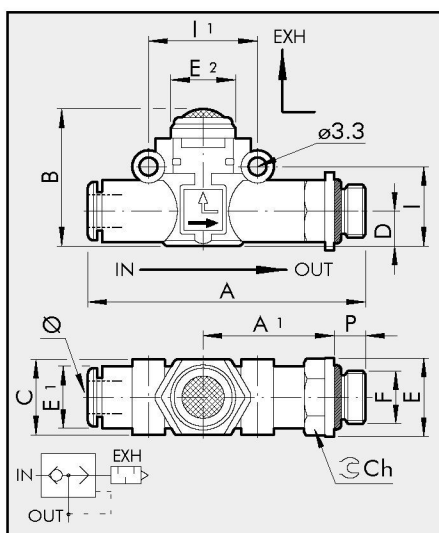
Code	Ref.	Ø	F	P	A	A1	B	C	D	E	E1	E2	I	I1	Ch
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9063208	VSRL 6-1/8-6	6	1/8	6	57.3	27.8	29	14.7	6.4	14	11.4	13	14.6	20	12
9063209	VSRL 6-1/4-6	6	1/4	8	60.3	28.8	29	14.7	6.4	18	11.4	13	14.6	20	14
9063210	VSRL 8-1/8-8	8	1/8	6	65.3	31.8	35	18.7	9.1	15	13.8	15	18.7	24	14
9063211	VSRL 8-1/4-8	8	1/4	8	69.7	34.2	35	18.7	9.1	18	13.8	15	18.7	24	14
9063212	VSRL 8-3/8-8	8	3/8	9	71.3	34.8	35	18.7	9.1	22	13.8	15	18.7	24	17

VSR L PIPE-THREAD, SILENCED EXHAUST

Code	Ref.	Ø	F	P	A	A1	B	C	D	E	E1	E2	I	I1	Ch
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9063308	VSRL 6-1/8-SIL	6	1/8	6	57.3	27.8	25.5	14.7	6.4	14	11.4	14	14.6	20	12
9063309	VSRL 6-1/4-SIL	6	1/4	8	60.3	28.8	25.5	14.7	6.4	18	11.4	14	14.6	20	14
9063310	VSRL 8-1/8-SIL	8	1/8	6	65.3	31.8	31.5	18.7	9.1	15	13.8	18	18.7	24	14
9063311	VSRL 8-1/4-SIL	8	1/4	8	69.7	34.2	31.5	18.7	9.1	18	13.8	18	18.7	24	14
9063312	VSRL 8-3/8-SIL	8	3/8	9	71.3	34.8	31.5	18.7	9.1	22	13.8	18	18.7	24	17

NOTE

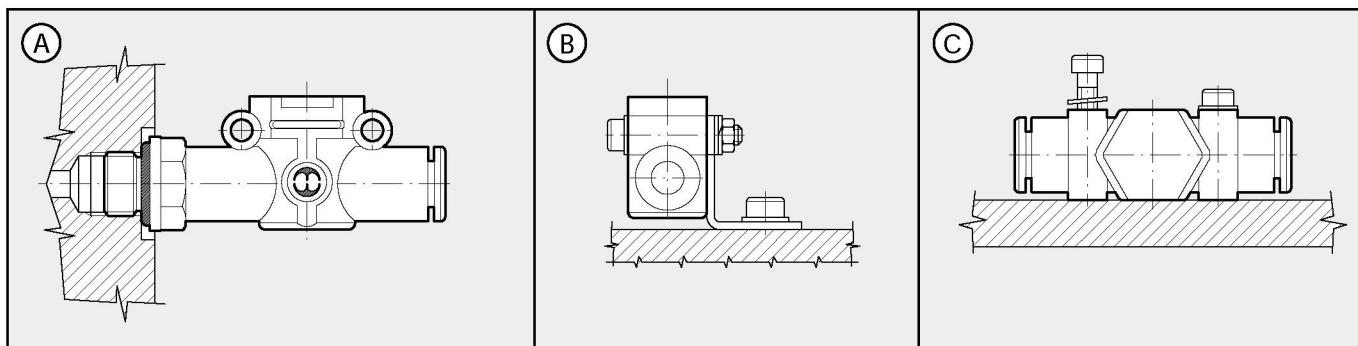
It is still the only check valve with holes for wall mounting.

[illegible]

4

-
- A detailed cross-sectional diagram of a 3-position, 4-way directional control valve. The valve is shown in its center position. It features a central spool with a detent spring (3) and a return spring (4). The spool is controlled by a solenoid (5) and a detent spring (6). The valve has two main ports, IN and OUT, and two auxiliary ports (1 and 2). The diagram includes 9 numbered callouts: 1 (top left port), 2 (top right port), 3 (detent spring), 4 (return spring), 5 (solenoid), 6 (detent spring), 7 (spool), 8 (spool), and 9 (bottom left port).

ASSEMBLY OPTIONS

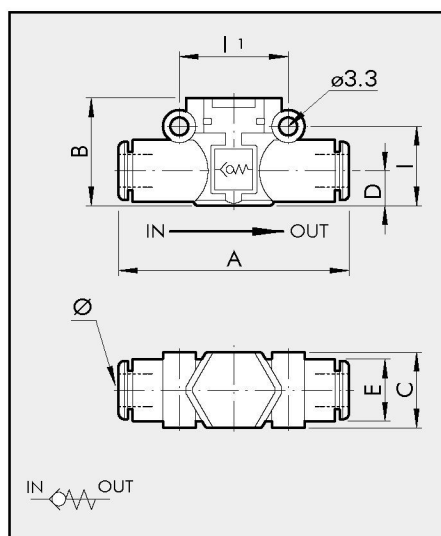


How to mount the VNR L:

- Fig. A: With the male threaded port it is possible to mount the VNR L straight onto the female thread.
- 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.

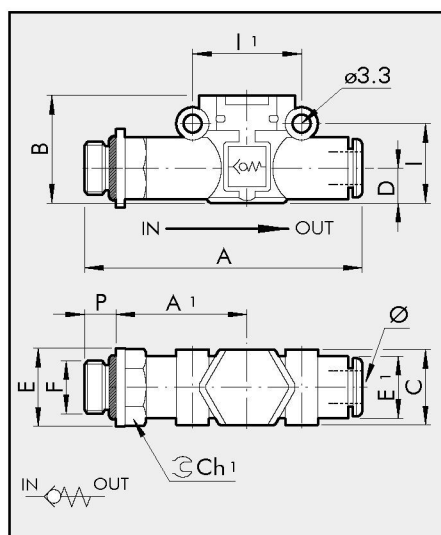
OVERALL DIMENSIONS AND ORDERING CODES

VNR L PIPE-PIPE	Code	Ref.	Ø	A	B	C	D	E	I	I1
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9064016	VNR L 6-6	6	47	20	14.7	6.4	11.4	14.6	20
9064024	VNR L 8-8	8	55.5	25.5	18.7	9.1	13.8	18.7	24

VNR L THREAD-PIPE	Code	Ref.	F	Ø	P	A	A1	B	C	E	E1	I	I1	Ch
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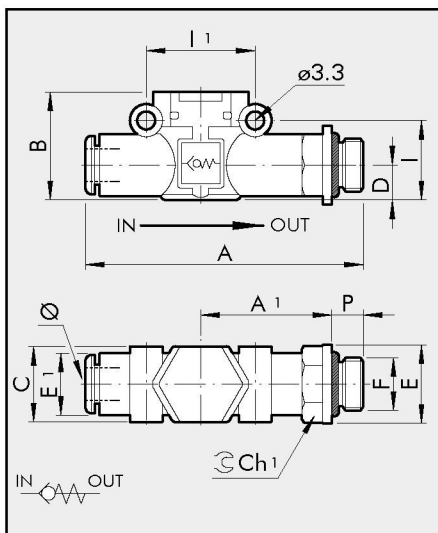


9064108	VNR L 1/8-6	1/8	6	6	57.3	27.8	20	14.7	14	11.4	14.6	20	12
9064109	VNR L 1/4-6	1/4	6	8	60.3	28.8	20	14.7	18	11.4	14.6	20	14
9064110	VNR L 1/8-8	1/8	8	6	65.3	31.8	25.5	18.7	15	13.8	18.7	24	14
9064111	VNR L 1/4-8	1/4	8	8	69.7	34.2	25.5	18.7	18	13.8	18.7	24	14
9064112	VNR L 3/8-8	3/8	8	9	71.3	34.8	25.5	18.7	22	13.8	18.7	24	17



VNR L PIPE-THREAD

Code	Ref.	Ø	F	P	A	A1	B	C	E	E1	I	I1	Ch
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9064208	VNR L 6-1/8	6	1/8	6	57.3	27.8	20	14.7	14	11.4	14.6	20	12
9064209	VNR L 6-1/4	6	1/4	8	60.3	28.8	20	14.7	18	11.4	14.6	20	14
9064210	VNR L 8-1/8	8	1/8	6	65.3	31.8	25.5	18.7	15	13.8	18.7	24	14
9064211	VNR L 8-1/4	8	1/4	8	69.7	34.2	25.5	18.7	18	13.8	18.7	24	14
9064212	VNR L 8-3/8	8	3/8	9	71.3	34.8	25.5	18.7	22	13.8	18.7	24	17

NOTES

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

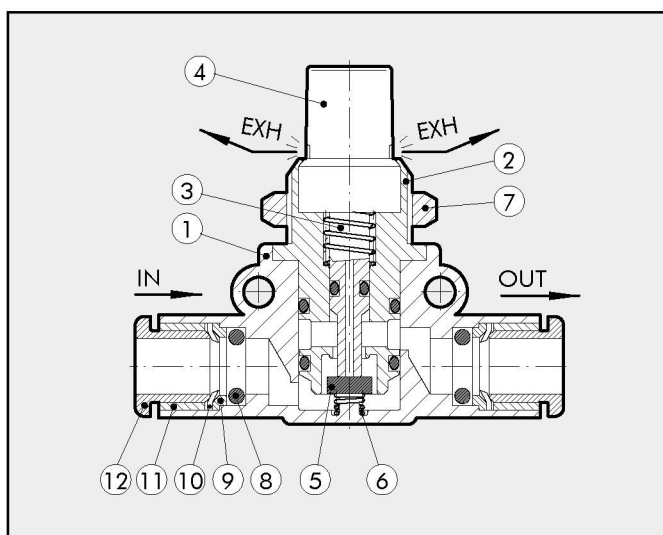
V2V is a two-way unidirectional valve, while V3V is a three-way valve with free discharge in the area around the control knob.

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.

[illegible]

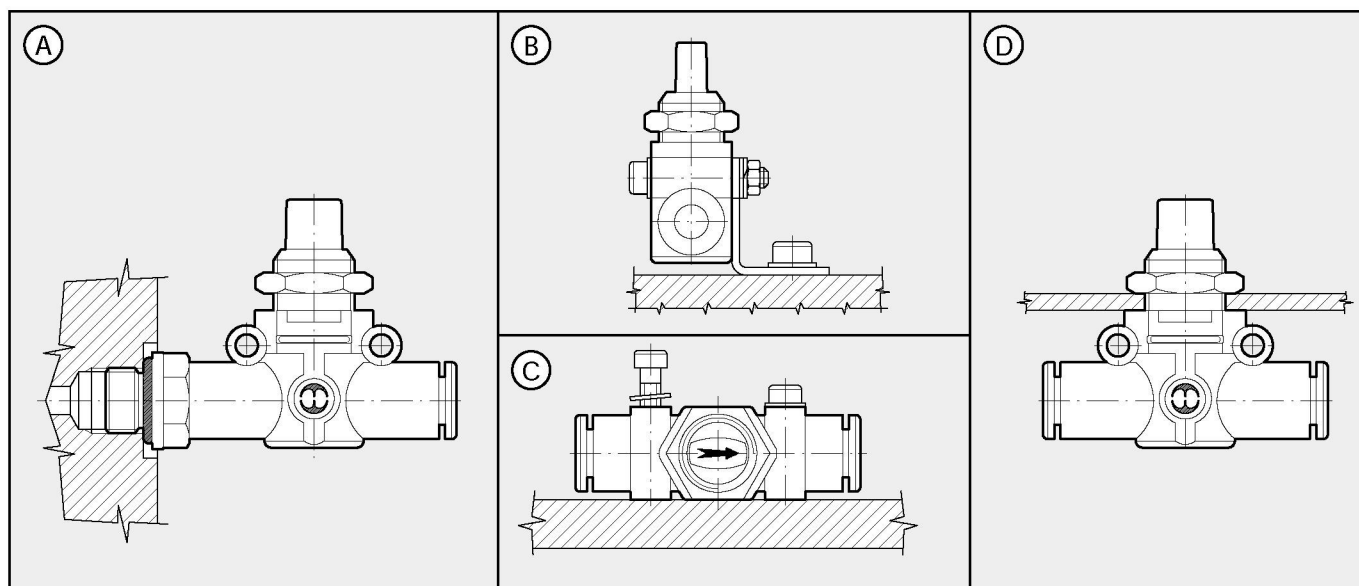
COMPONENT PARTS

- 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
- ⑩ Stainless steel folding spring
- ⑪ Technopolymer locking bushing
- ⑫ Technopolymer release bushing





ASSEMBLY OPTIONS

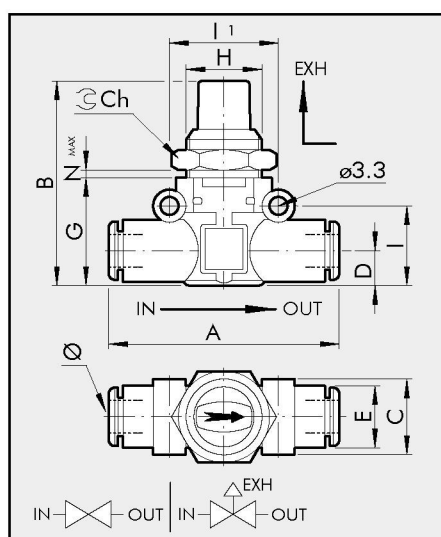


How to mount the V2V/V3V L:

- Fig. A: With the male threaded port it is possible to mount the V2V/V3V L straight onto the female thread.
- 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.

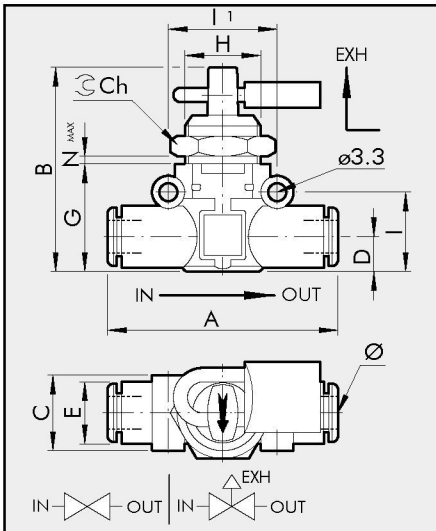
OVERALL DIMENSIONS AND ORDERING CODES

V2V/V3V L PIPE-PIPE	Code	Ref.	Ø	A	B	C	D	E	G	H	I	I1	Ch	Nmax
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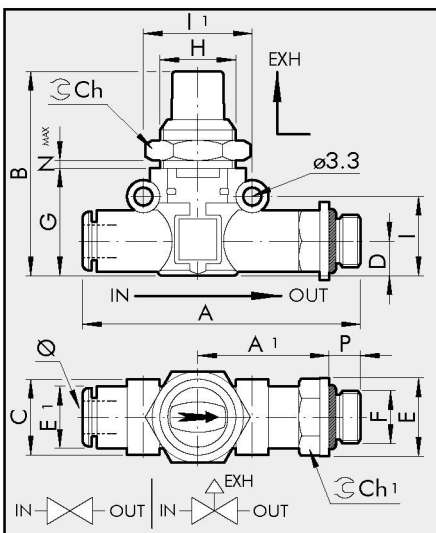
9065016	V2V L 6-6	6	47	41	14.7	6.4	11.4	21	M15x1	14.6	20	17	5.5
9066016	V3V L 6-6												
9065024	V2V L 8-8	8	55.5	46	18.7	9.1	13.8	26	M15x1	18.7	24	17	5.5
9066024	V3V L 8-8												

V2V/V3V L PIPE-PIPE PADLOCKED



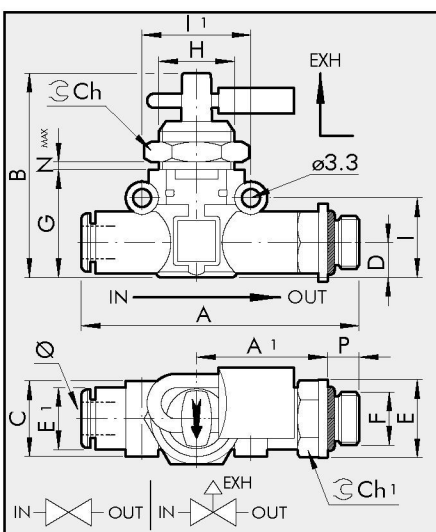
Code	Ref.	Ø	A	B	C	D	E	G	H	I	I1	Ch	Nmax
9065116	V2V L 6-6 KEY	6	47	41	14.7	6.4	11.4	21	M15x1	14.6	20	17	5.5
9066116	V3V L 6-6 KEY												
9065124	V2V L 8-8 KEY	8	55.5	46	18.7	9.1	13.8	26	M15x1	18.7	24	17	5.5
9066124	V3V L 8-8 KEY												

V2V/V3V L PIPE-THREAD



Code	Ref.	Ø	F	P	A	A1	B	C	D	E	E1	G	H	I	I1	Ch	Ch1	Nmax
9065208	V2V L 6-1/8	6	1/8	6	57.3	27.8	41	14.7	6.4	14	11.4	21	M15x1	14.6	20	17	12	5.5
9066208	V3V L 6-1/8																	
9065209	V2V L 6-1/4	6	1/4	8	60.3	28.8	41	14.7	6.4	18	11.4	21	M15x1	14.6	20	17	14	5.5
9066209	V3V L 6-1/4																	
9065210	V2V L 8-1/8	8	1/8	6	65.3	31.8	46	18.7	9.1	15	13.8	26	M15x1	18.7	24	17	14	5.5
9066210	V3V L 8-1/8																	
9065211	V2V L 8-1/4	8	1/4	8	69.7	34.2	46	18.7	9.1	18	13.8	26	M15x1	18.7	24	17	14	5.5
9066211	V3V L 8-1/4																	
9065212	V2V L 8-3/8	8	3/8	9	71.3	34.8	46	18.7	9.1	22	13.8	26	M15x1	18.7	24	17	17	5.5
9066212	V3V L 8-3/8																	

V2V/V3V L PIPE-THREAD PADLOCKED

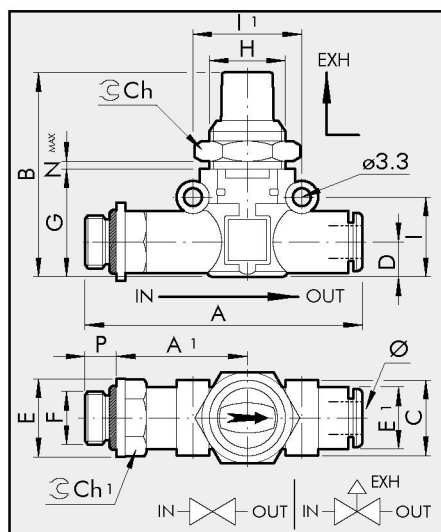


Code	Ref.	Ø	F	P	A	A1	B	C	D	E	E1	G	H	I	I1	Ch	Ch1	Nmax
9065308	V2V L 6-1/8 KEY	6	1/8	6	57.3	27.8	41	14.7	6.4	14	11.4	21	M15x1	14.6	20	17	12	5.5
9066308	V3V L 6-1/8 KEY																	
9065309	V2V L 6-1/4 KEY	6	1/4	8	60.3	28.8	41	14.7	6.4	18	11.4	21	M15x1	14.6	20	17	14	5.5
9066309	V3V L 6-1/4 KEY																	
9065310	V2V L 8-1/8 KEY	8	1/8	6	65.3	31.8	46	18.7	9.1	15	13.8	26	M15x1	18.7	24	17	14	5.5
9066310	V3V L 8-1/8 KEY																	
9065311	V2V L 8-1/4 KEY	8	1/4	8	69.7	34.2	46	18.7	9.1	18	13.8	26	M15x1	18.7	24	17	14	5.5
9066311	V3V L 8-1/4 KEY																	
9065312	V2V L 8-3/8 KEY	8	3/8	9	71.3	34.8	46	18.7	9.1	22	13.8	26	M15x1	18.7	24	17	17	5.5
9066312	V3V L 8-3/8 KEY																	



V2V/V3V L THREAD-PIPE

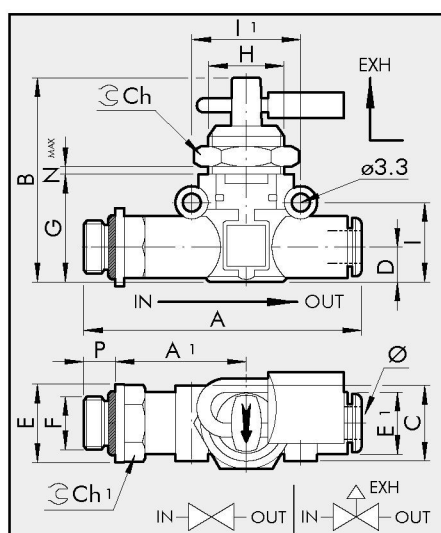
Code	Ref.	F	Ø	P	A	A1	B	C	D	E	E1	G	H	I	I1	Ch	Ch1	Nmax
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9065408	V2VL 1/8-6	1/8	6	6	57.3	27.8	41	14.7	6.4	14	11.4	21	M15x1	14.6	20	17	12	5.5
9066408	V3VL 1/8-6																	
9065409	V2VL 1/4-6	1/4	6	8	60.3	28.8	41	14.7	6.4	18	11.4	21	M15x1	14.6	20	17	14	5.5
9066409	V3VL 1/4-6																	
9065410	V2VL 1/8-8	1/8	8	6	65.3	31.8	46	18.7	9.1	15	13.8	26	M15x1	18.7	24	17	14	5.5
9066410	V3VL 1/8-8																	
9065411	V2VL 1/4-8	1/4	8	8	69.7	34.2	46	18.7	9.1	18	13.8	26	M15x1	18.7	24	17	14	5.5
9066411	V3VL 1/4-8																	
9065412	V2VL 3/8-8	3/8	8	9	71.3	34.8	46	18.7	9.1	22	13.8	26	M15x1	18.7	24	17	17	5.5
9066412	V3VL 3/8-8																	

V2V/V3V L THREAD-PIPE PADLOCKED

Code	Ref.	F	Ø	P	A	A1	B	C	D	E	E1	G	H	I	I1	Ch	Ch1	Nmax
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9065508	V2VL 1/8-6 KEY	1/8	6	6	57.3	27.8	41	14.7	6.4	14	11.4	21	M15x1	14.6	20	17	12	5.5
9066508	V3VL 1/8-6 KEY																	
9065509	V2VL 1/4-6 KEY	1/4	6	8	60.3	28.8	41	14.7	6.4	18	11.4	21	M15x1	14.6	20	17	14	5.5
9066509	V3VL 1/4-6 KEY																	
9065510	V2VL 1/8-8 KEY	1/8	8	6	65.3	31.8	46	18.7	9.1	15	13.8	26	M15x1	18.7	24	17	14	5.5
9066510	V3VL 1/8-8 KEY																	
9065511	V2VL 1/4-8 KEY	1/4	8	8	69.7	34.2	46	18.7	9.1	18	13.8	26	M15x1	18.7	24	17	14	5.5
9066511	V3VL 1/4-8 KEY																	
9065512	V2VL 3/8-8 KEY	3/8	8	9	71.3	34.8	46	18.7	9.1	22	13.8	26	M15x1	18.7	24	17	17	5.5
9066512	V3VL 3/8-8 KEY																	

NOTES

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.

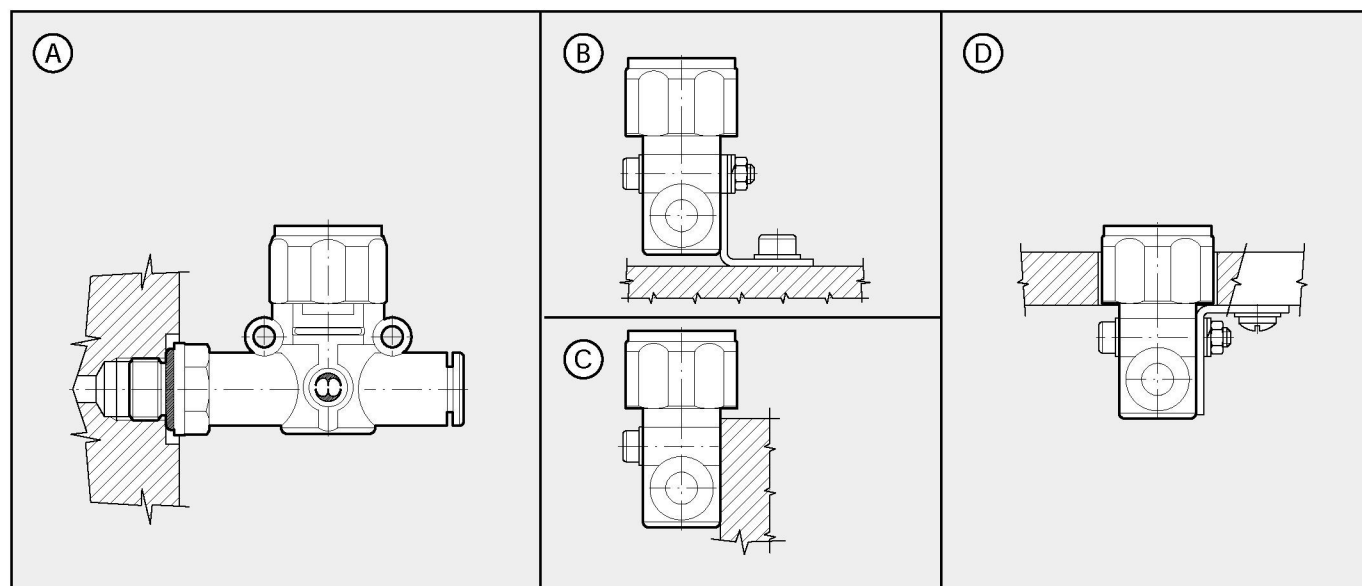
Available in the version for pipe-pipe connection with two FOX push-in fittings, and in the version for thread-pipe connection with a brass nickel-plated male thread and a push-in fitting.

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 6	Ø 8
Operating pressure	MPa	1.2	
	bar	12	
	psi	174	
Temperature range	°C	-20°C to +60°C	
	°F	-4°F to +140°F	
		±4% full scale	
Precision			
Recommended pipe		Rilsan PA 11 – Nylon 6 – Polyamide 12 – Polypropylene	
Fluid		lubricated or unlubricated filtered compressed air	

ASSEMBLY OPTIONS



How to mount the MAN L:

- Fig. A: With the male threaded port it is possible to mount the MAN L straight onto the female thread.
- 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	B	C	D	E	E1	I	I1
	9067016	MAN L 6-6	6	47	35	14.7	6.4	11.4	23	14.6	20	
	9067024	MAN L 8-8	8	55.5	41	18.7	9.1	13.8	23	18.7	24	

MAN L THREAD-PIPE		Code	Ref.	F	Ø	P	A	A1	B	C	D	E	E1	E2	I	I1	Ch
	9067108	MAN L 1/8-6	1/8	6	6	57.3	27.8	35	14.7	6.4	14	11.4	23	14.6	20	12	
	9067109	MAN L 1/4-6	1/4	6	8	60.3	28.8	35	14.7	6.4	18	11.4	23	14.6	20	14	
	9067110	MAN L 1/8-8	1/8	8	6	65.3	31.8	41	18.7	9.1	15	13.8	23	18.7	24	14	
	9067111	MAN L 1/4-8	1/4	8	8	69.7	34.2	41	18.7	9.1	18	13.8	23	18.7	24	14	
	9067112	MAN L 3/8-8	3/8	8	9	71.3	34.8	41	18.7	9.1	22	13.8	23	18.7	24	17	

NOTES