

# 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 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.

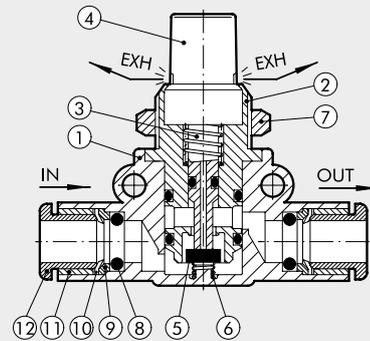


## TECHNICAL DATA

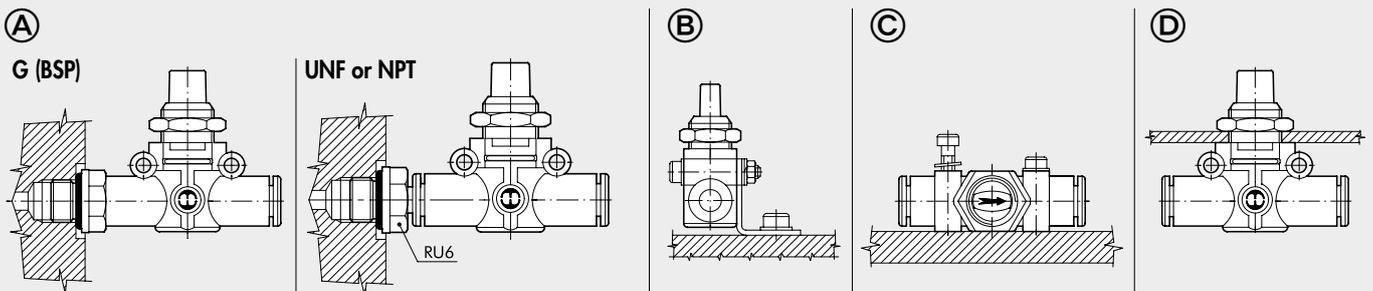
		Ø 6	Ø 1/4"	Ø 8 (Ø5/16")	Ø 3/8"	Ø 10
Operating pressure	MPa	1				
	bar	10				
	psi	145				
Temperature range	°C	- 20 to + 60				
	°F	- 4 to + 140				
Flow rate at 6.3 bar ΔP 1 bar	NI/min	280	280	470	600	600
Exhaust flow rate at 6.3 bar	NI/min	110	110	110	110	110
Recommended pipe		Rilsan PA11 - Nylon 6 - 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 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

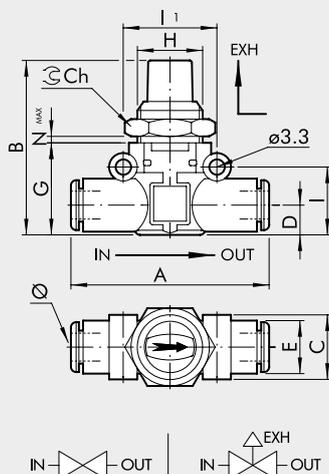


## ASSEMBLY OPTIONS



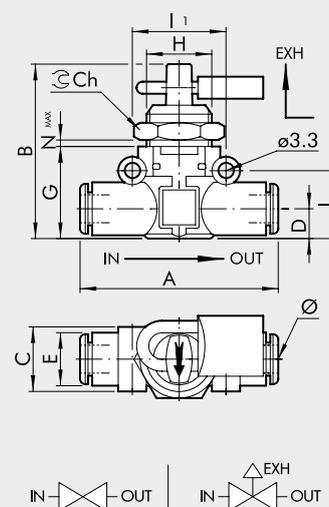
How to mount the V2V/V3V L:

- Fig. **A** **G (BSP)**: With the male threaded port it is possible to mount the V2V/V3V L straight onto the female thread.  
**UNF or NPT**: Adding a RU6 fitting, with his male UNF or 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, except for Ø3/8 and Ø10.
- 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.

**V2V/V3V L PIPE - PIPE**


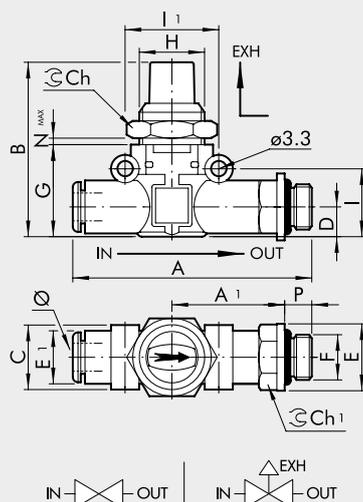
Code	Ref.	Ø	A	B	C	D	E	G	H	I	II	Ch	Nmax
9065016	V2V L Ø6-Ø6	6	49.4	41	14.7	6.4	11.4	21	M15x1	14.6	20	17	5.5
9066016	V3V L Ø6-Ø6												
9065016U	V2V L Ø1/4-Ø1/4	1/4	49.4	41	14.7	6.4	11.4	21	M15x1	14.6	20	17	5.5
9066016U	V3V L Ø1/4-Ø1/4												
9065024	V2V L Ø8-Ø8	8 ▲	57.3	46	18.7	9.1	13.8	26	M15x1	18.7	24	17	5.5
9066024	V3V L Ø8-Ø8												
9065032U	V2V L Ø3/8-Ø3/8	3/8	65	52	21	10.9	16	30	M18x1.5	21.4	26	22	5
9066032U	V3V L Ø3/8-Ø3/8												
9065032	V2V L Ø10-Ø10	10	65	52	21	10.9	16	30	M18x1.5	21.4	26	22	5
9066032	V3V L Ø10-Ø10												

▲ Ø8 = Ø5/16"

**V2V/V3V L PIPE - PIPE PADLOCKED**


Code	Ref.	Ø	A	B	C	D	E	G	H	I	II	Ch	Nmax
9065116	V2V L Ø6-Ø6 KEY	6	49.4	41	14.7	6.4	11.4	21	M15x1	14.6	20	17	5.5
9066116	V3V L Ø6-Ø6 KEY												
9065116U	V2V L Ø1/4-Ø1/4 KEY	1/4	49.4	41	14.7	6.4	11.4	21	M15x1	14.6	20	17	5.5
9066116U	V3V L Ø1/4-Ø1/4 KEY												
9065124	V2V L Ø8-Ø8 KEY	8 ▲	57.3	46	18.7	9.1	13.8	26	M15x1	18.7	24	17	5.5
9066124	V3V L Ø8-Ø8 KEY												
9065132U	V2V L Ø3/8-Ø3/8 KEY	3/8	65	52	21	10.9	16	30	M18x1.5	21.4	26	22	5
9066132U	V3V L Ø3/8-Ø3/8 KEY												
9065132	V2V L Ø10-Ø10 KEY	10	65	52	21	10.9	16	30	M18x1.5	21.4	26	22	5
9066132	V3V L Ø10-Ø10 KEY												

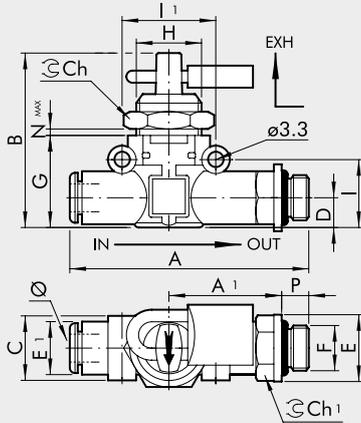
▲ Ø8 = Ø5/16"

**V2V/V3V L PIPE - G (BSP) THREAD**


Code	Ref.	Ø	F	P	A	A1	B	C	D	E	E1	G	H	I	II	Ch	Ch1	Nmax	
9065208	V2V L Ø6-1/8	6	1/8	6	58.5	27.8	41	14.7	6.4	14	11.4	21	M15x1	14.6	20	17	12	5.5	
9066208	V3V L Ø6-1/8																		
9065209	V2V L Ø6-1/4	6	1/4	8	61.5	28.8	41	14.7	6.4	18	11.4	21	M15x1	14.6	20	17	14	5.5	
9066209	V3V L Ø6-1/4																		
9065210	V2V L Ø8-1/8	8 ▲	1/8	6	66.2	31.8	46	18.7	9.1	15	13.8	26	M15x1	18.7	24	17	14	5.5	
9066210	V3V L Ø8-1/8																		
9065211	V2V L Ø8-1/4	8 ▲	1/4	8	70.6	34.2	46	18.7	9.1	18	13.8	26	M15x1	18.7	24	17	14	5.5	
9066211	V3V L Ø8-1/4																		
9065212	V2V L Ø8-3/8	8 ▲	3/8	9	72.2	34.8	46	18.7	9.1	22	13.8	26	M15x1	18.7	24	17	17	5.5	
9066212	V3V L Ø8-3/8																		
9065215	V2V L Ø10-1/4	10	1/4	8	79.9	39.2	52	20.7	10.9	18	16	30	M18x1.5	21.4	26	22	16	5	
9066215	V3V L Ø10-1/4																		
9065216	V2V L Ø10-3/8	10	3/8	9	81.2	40.4	52	20.7	10.9	20	16	30	M18x1.5	21.4	26	22	17	5	
9066216	V3V L Ø10-3/8																		
9065217	V2V L Ø10-1/2	10	1/2	11	83.7	40	52	20.7	10.9	26	16	30	M18x1.5	21.4	26	22	22	5	
9066217	V3V L Ø10-1/2																		

▲ Ø8 = Ø5/16"

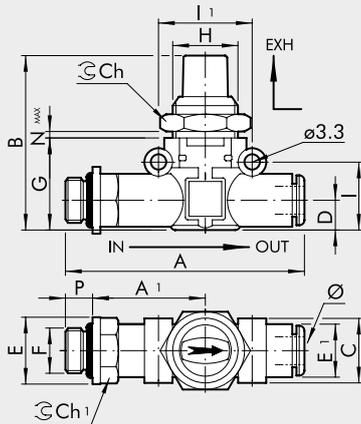
V2V/V3V L PIPE - G (BSP) THREAD PADLOCKED



Code	Ref.	Ø	F	P	A	A1	B	C	D	E	E1	G	H	I	II	Ch	Ch1	Nmax	
9065308	V2V L Ø6-1/8 KEY	6	1/8	6	58.5	27.8	41	14.7	6.4	14	11.4	21	M15x1	14.6	20	17	12	5.5	
9066308	V3V L Ø6-1/8 KEY																		
9065309	V2V L Ø6-1/4 KEY	6	1/4	8	61.5	28.8	41	14.7	6.4	18	11.4	21	M15x1	14.6	20	17	14	5.5	
9066309	V3V L Ø6-1/4 KEY																		
9065310	V2V L Ø8-1/8 KEY	8 ▲	1/8	6	66.2	31.8	46	18.7	9.1	15	13.8	26	M15x1	18.7	24	17	14	5.5	
9066310	V3V L Ø8-1/8 KEY																		
9065311	V2V L Ø8-1/4 KEY	8 ▲	1/4	8	70.6	34.2	46	18.7	9.1	18	13.8	26	M15x1	18.7	24	17	14	5.5	
9066311	V3V L Ø8-1/4 KEY																		
9065312	V2V L Ø8-3/8 KEY	8 ▲	3/8	9	72.2	34.8	46	18.7	9.1	22	13.8	26	M15x1	18.7	24	17	17	5.5	
9066312	V3V L Ø8-3/8 KEY																		
9065315	V2V L Ø10-1/4 KEY	10	1/4	8	79.9	39.2	52	20.7	10.9	18	16	30	M18x1.5	21.4	26	22	16	5	
9066315	V3V L Ø10-1/4 KEY																		
9065316	V2V L Ø10-3/8 KEY	10	3/8	9	81.2	40.4	52	20.7	10.9	20	16	30	M18x1.5	21.4	26	22	17	5	
9066316	V3V L Ø10-3/8 KEY																		
9065317	V2V L Ø10-1/2 KEY	10	1/2	11	83.7	40	52	20.7	10.9	26	16	30	M18x1.5	21.4	26	22	22	5	
9066317	V3V L Ø10-1/2 KEY																		

▲ Ø8 = Ø5/16"

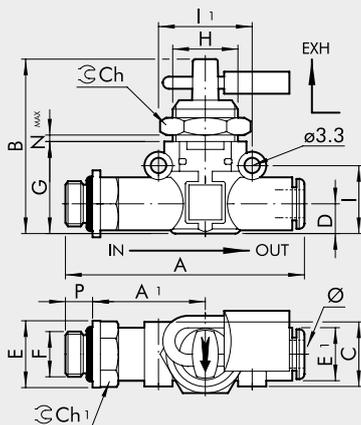
V2V/V3V L G (BSP) THREAD - PIPE



Code	Ref.	F	Ø	P	A	A1	B	C	D	E	E1	G	H	I	II	Ch	Ch1	Nmax	
9065408	V2V L 1/8-Ø6	1/8	6	6	58.5	27.8	41	14.7	6.4	14	11.4	21	M15x1	14.6	20	17	12	5.5	
9066408	V3V L 1/8-Ø6																		
9065409	V2V L 1/4-Ø6	1/4	6	8	61.5	28.8	41	14.7	6.4	18	11.4	21	M15x1	14.6	20	17	14	5.5	
9066409	V3V L 1/4-Ø6																		
9065410	V2V L 1/8-Ø8	1/8	8 ▲	6	66.2	31.8	46	18.7	9.1	15	13.8	26	M15x1	18.7	24	17	14	5.5	
9066410	V3V L 1/8-Ø8																		
9065411	V2V L 1/4-Ø8	1/4	8 ▲	8	70.6	34.2	46	18.7	9.1	18	13.8	26	M15x1	18.7	24	17	14	5.5	
9066411	V3V L 1/4-Ø8																		
9065412	V2V L 3/8-Ø8	3/8	8 ▲	9	72.2	34.8	46	18.7	9.1	22	13.8	26	M15x1	18.7	24	17	17	5.5	
9066412	V3V L 3/8-Ø8																		
9065415	V2V L 1/4-Ø10	1/4	10	8	79.9	39.2	52	20.7	10.9	18	16	30	M18x1.5	21.4	26	22	16	5	
9066415	V3V L 1/4-Ø10																		
9065416	V2V L 3/8-Ø10	3/8	10	9	81.2	40.4	52	20.7	10.9	20	16	30	M18x1.5	21.4	26	22	17	5	
9066416	V3V L 3/8-Ø10																		
9065417	V2V L 1/2-Ø10	1/2	10	11	83.7	40	52	20.7	10.9	26	16	30	M18x1.5	21.4	26	22	22	5	
9066417	V3V L 1/2-Ø10																		

▲ Ø8 = Ø5/16"

V2V/V3V L G (BSP) THREAD - PIPE PADLOCKED



Code	Ref.	F	Ø	P	A	A1	B	C	D	E	E1	G	H	I	II	Ch	Ch1	Nmax	
9065508	V2V L 1/8-Ø6 KEY	1/8	6	6	58.5	27.8	41	14.7	6.4	14	11.4	21	M15x1	14.6	20	17	12	5.5	
9066508	V3V L 1/8-Ø6 KEY																		
9065509	V2V L 1/4-Ø6 KEY	1/4	6	8	61.5	28.8	41	14.7	6.4	18	11.4	21	M15x1	14.6	20	17	14	5.5	
9066509	V3V L 1/4-Ø6 KEY																		
9065510	V2V L 1/8-Ø8 KEY	1/8	8 ▲	6	66.2	31.8	46	18.7	9.1	15	13.8	26	M15x1	18.7	24	17	14	5.5	
9066510	V3V L 1/8-Ø8 KEY																		
9065511	V2V L 1/4-Ø8 KEY	1/4	8 ▲	8	70.6	34.2	46	18.7	9.1	18	13.8	26	M15x1	18.7	24	17	14	5.5	
9066511	V3V L 1/4-Ø8 KEY																		
9065512	V2V L 3/8-Ø8 KEY	3/8	8 ▲	9	72.2	34.8	46	18.7	9.1	22	13.8	26	M15x1	18.7	24	17	17	5.5	
9066512	V3V L 3/8-Ø8 KEY																		
9065515	V2V L 1/4-Ø10 KEY	1/4	10	8	79.9	39.2	52	20.7	10.9	18	16	30	M18x1.5	21.4	26	22	16	5	
9066515	V3V L 1/4-Ø10 KEY																		
9065516	V2V L 3/8-Ø10 KEY	3/8	10	9	81.2	40.4	52	20.7	10.9	20	16	30	M18x1.5	21.4	26	22	17	5	
9066516	V3V L 3/8-Ø10 KEY																		
9065517	V2V L 1/2-Ø10 KEY	1/2	10	11	83.7	40	52	20.7	10.9	26	16	30	M18x1.5	21.4	26	22	22	5	
9066517	V3V L 1/2-Ø10 KEY																		

▲ 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.

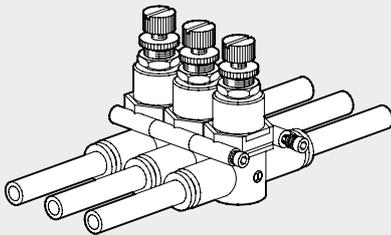
For almost every function it is available  $\varnothing 1/4$  and  $\varnothing 3/8$ " tube version.

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

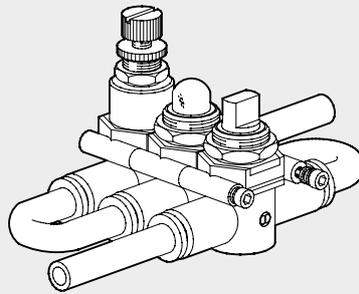


### CONNECTION FREE

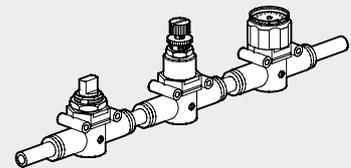
Parallel lines



Serial line parallel fitting



Serial line in-line fitting



### FIXING FREE

Wall fixing

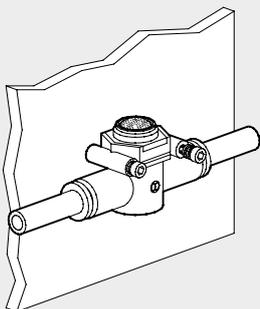
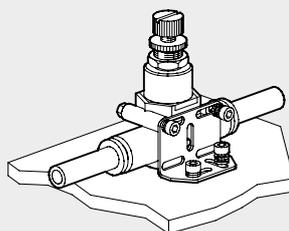
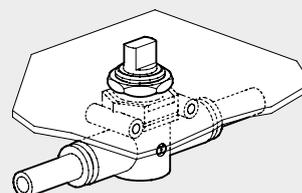


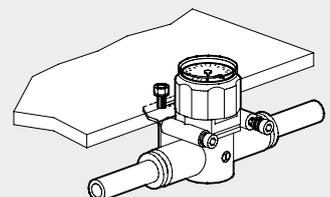
Plate fixing

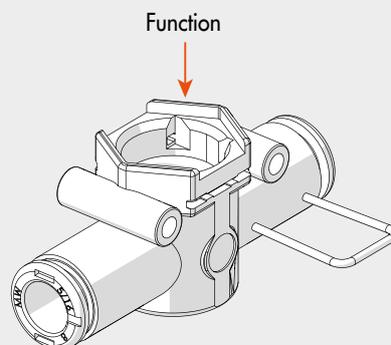


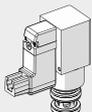
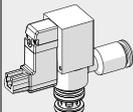
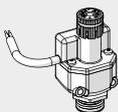
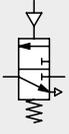
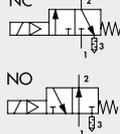
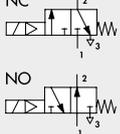
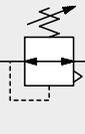
Panel fixing

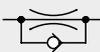
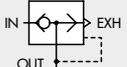
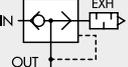
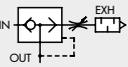
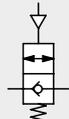


Under wall fixing



**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			

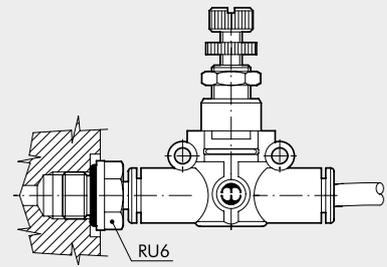
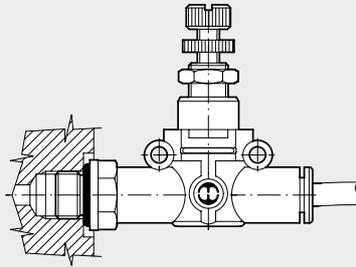
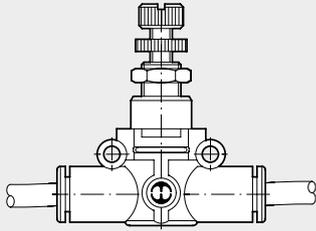
- Available also in tube Ø 1/4" version
- ▲ Available also in tube Ø 3/8" version

PIPE - PIPE

THREAD - PIPE

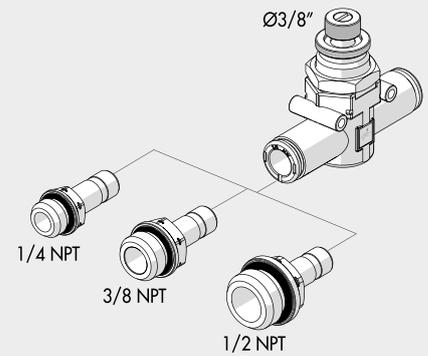
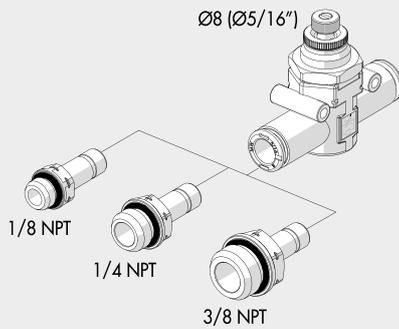
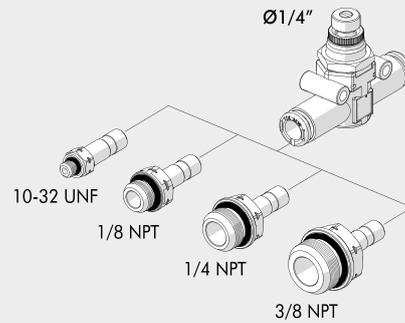
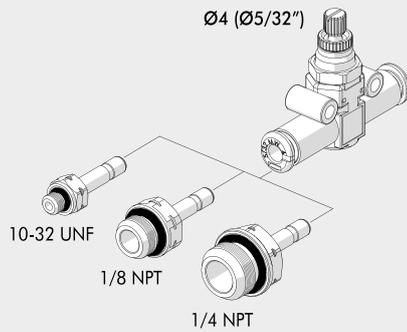
ISO 228 G (BSP) THREAD

UNF or NPT THREAD

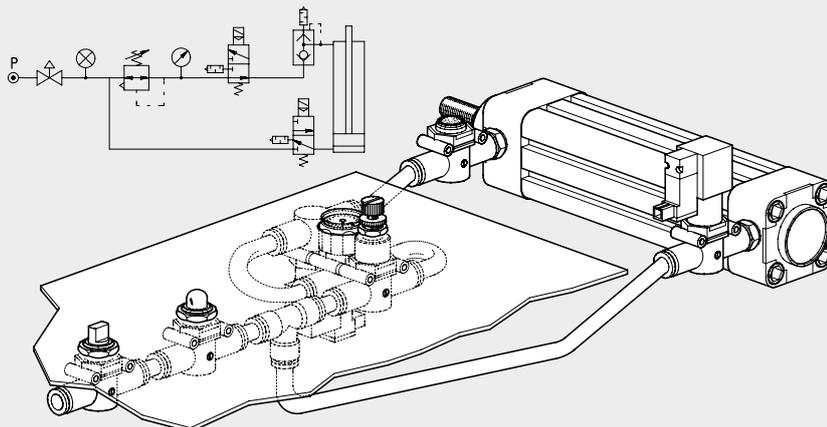


FROM TUBE - TUBE TO UNF or NPT THREAD - TUBE TRANSFORMATION

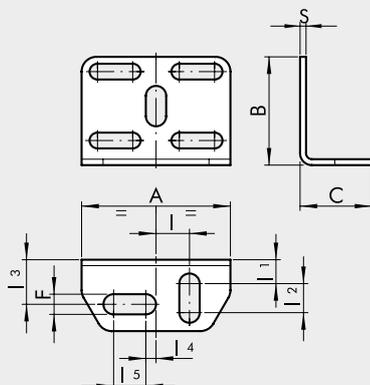
Using the RU6 fitting, it is possible to mount every Line on Line products on to the actuator or the control valve.



APPLICATION EXAMPLE



## FIXING SQUARE KIT



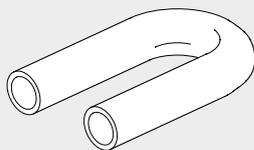
Code	Description	A	B	C	F	I	I1	I2	I3	I4	I5	S
9062110	SQU L	30	22	14.5	4.2	6.8	4.8	5.9	9.1	2	6.5	1.2

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  $\varnothing 10$

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

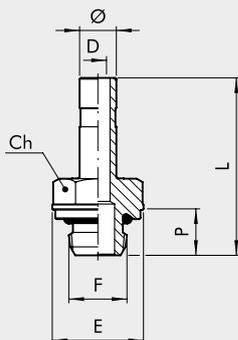
## U-BOLT



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