

IN LINE PRESSURE SWITCH SERIES PRS L

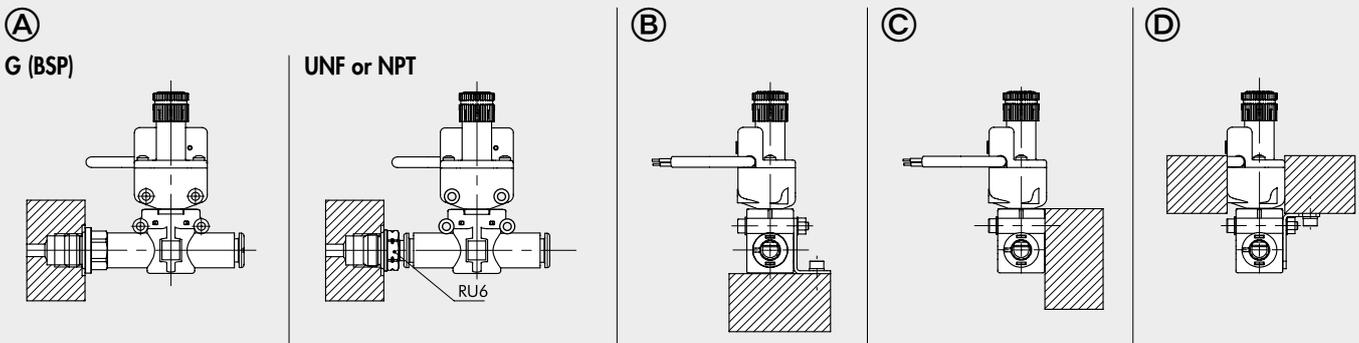
The PRS L pressure switch belongs to the LINE ON LINE® range and can therefore be connected in series or in parallel to all other products. It is available in a version for tube-to-tube connection, which includes two automatic fittings, or in a version for thread-to-tube connection, which includes a nickel-plated brass male thread and an automatic fitting. The pressure switch can be installed in any position and orientation. It is supplied pre-assembled and complete with an electrical cable to save wiring time. You can choose between a 2-metre cable or an M8 connector with a 300-mm cable. It is a switchover contact, which means that both normally open and normally closed signals are provided. Adjustment is by means of a knurled knob with a push-lock system.



TECHNICAL DATA

		Ø 6	Ø 1/4"	Ø 8 (Ø5/16")	Ø 3/8"	Ø 10
Maximum pressure	MPa			1		
	bar			10		
	psi			145		
Operating temperature range at: 1 MPa; 10 bar; 145 psi	°C			50		
	°F			122		
Adjustable pressure interval	bar			0.5 to 10		
Hysteresis (not adjustable)	bar			From 0.4 to 0.8 (see diagram following pages)		
Maximum current	A			2		
Maximum voltage	V			250		
Outside diameter of cable	mm			4.9		
Number of wires and cross section				3 x 0.5 mm ²		
Contacts				Normally-Open (NO) and Normally-Closed (NC)		
Protection				IP65		
Number of switchings				5 x 10 ⁶		
Recommended pipe				Rilsan PA11 - Nylon 6 - Polyamide 12 - Polypropylene		
Fluid				Filtered lubricated or unlubricated compressed air. Lubrication, if used, must be continuous.		
Mounting position				In any position		

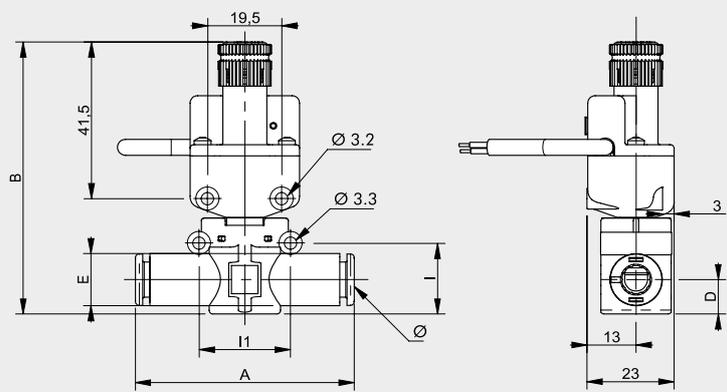
ASSEMBLY OPTIONS



How to mount the PRS L:

- Fig. **A** **G (BSP)**: With the male threaded port it is possible to mount the PRS 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 PRS 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 PRS L straight onto the wall.
- Fig. **D** Use the SQU L bracket for panel mounting the PRS L.

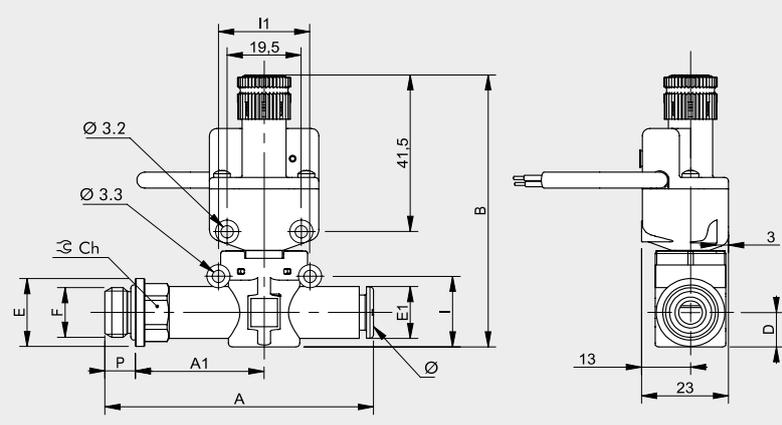
PRS L PIPE - PIPE



Code	Ref.	Ø	A	B	D	E	I	I1
9070016	PRS L Ø6-Ø6 2 metres cable	6	49.4	~72	6.4	11.4	14.6	20
9070116	PRS L Ø6-Ø6 M8 connector	6	49.4	~72	6.4	11.4	14.6	20
9070016U	PRS L Ø1/4-Ø1/4 2 metres cable	1/4	49.4	~72	6.4	11.4	14.6	20
9070116U	PRS L Ø1/4-Ø1/4 M8 connector	1/4	49.4	~72	6.4	11.4	14.6	20
9070024	PRS L Ø8-Ø8 2 metres cable	8 ▲	57.3	~73	9.1	13.8	18.7	24
9070124	PRS L Ø8-Ø8 M8 connector	8 ▲	57.3	~73	9.1	13.8	18.7	24
9070032U	PRS L Ø3/8-Ø3/8 2 metres cable	3/8	65.4	~76	10.9	16	21.4	26
9070132U	PRS L Ø3/8-Ø3/8 M8 connector	3/8	65.4	~76	10.9	16	21.4	26
9070032	PRS L Ø10-Ø10 2 metres cable	10	65.7	~76	10.9	16	21.4	26
9070132	PRS L Ø10-Ø10 M8 connector	10	65.7	~76	10.9	16	21.4	26

▲ Ø8 = Ø5/16"

PRS L THREAD - PIPE

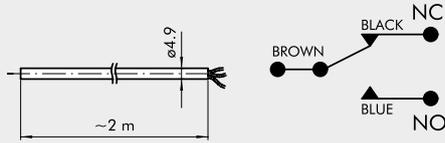


Code	Ref.	F	Ø	P	A	A1	B	D	E	E1	I	I1	Ch
9070208	PRS L 1/8-Ø6 2 metres cable	1/8	6	6	58.5	27.8	~72	6.4	14	11.4	14.6	20	12
9070308	PRS L 1/8-Ø6 M8 connector	1/8	6	6	58.5	27.8	~72	6.4	14	11.4	14.6	20	12
9070209	PRS L 1/4-Ø6 2 metres cable	1/4	6	8	61.5	28.8	~72	6.4	18	11.4	14.6	20	14
9070309	PRS L 1/4-Ø6 M8 connector	1/4	6	8	61.5	28.8	~72	6.4	18	11.4	14.6	20	14
9070210	PRS L 1/8-Ø8 2 metres cable	1/8	8 ▲	6	66.2	31.8	~73	9.1	15	13.8	18.7	24	12
9070310	PRS L 1/8-Ø8 M8 connector	1/8	8 ▲	6	66.2	31.8	~73	9.1	15	13.8	18.7	24	12
9070211	PRS L 1/4-Ø8 2 metres cable	1/4	8 ▲	8	70.6	34.2	~73	9.1	18	13.8	18.7	24	14
9070311	PRS L 1/4-Ø8 M8 connector	1/4	8 ▲	8	70.6	34.2	~73	9.1	18	13.8	18.7	24	14
9070212	PRS L 3/8-Ø8 2 metres cable	3/8	8 ▲	9	72.2	34.8	~73	9.1	22	13.8	18.7	24	17
9070312	PRS L 3/8-Ø8 M8 connector	3/8	8 ▲	9	72.2	34.8	~73	9.1	22	13.8	18.7	24	17
9070215	PRS L 1/4-Ø10 2 metres cable	1/4	10	8	79.9	39.2	~76	10.9	18	16	21.4	26	16
9070315	PRS L 1/4-Ø10 M8 connector	1/4	10	8	79.9	39.2	~76	10.9	18	16	21.4	26	16
9070216	PRS L 3/8-Ø10 2 metres cable	3/8	10	9	81.2	40.4	~76	10.9	20	16	21.4	26	17
9070316	PRS L 3/8-Ø10 M8 connector	3/8	10	9	81.2	40.4	~76	10.9	20	16	21.4	26	17
9070217	PRS L 1/2-Ø10 2 metres cable	1/2	10	11	83.7	40	~76	10.9	26	16	21.4	26	22
9070317	PRS L 1/2-Ø10 M8 connector	1/2	10	11	83.7	40	~76	10.9	26	16	21.4	26	22

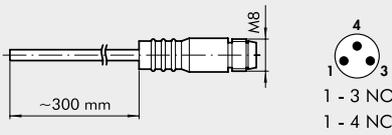
▲ Ø8 = Ø5/16"

WIRING DIAGRAM

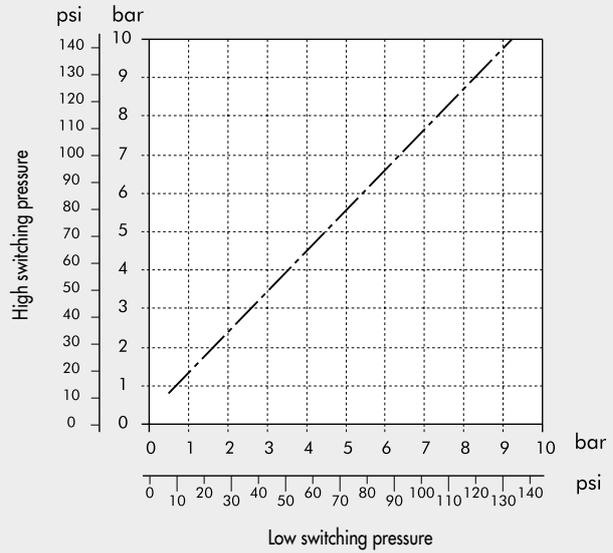
VERSION WITH CABLE



VERSION WITH M8 CONNECTOR

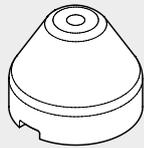


HYSTERESIS GRAPH



ACCESSORIES

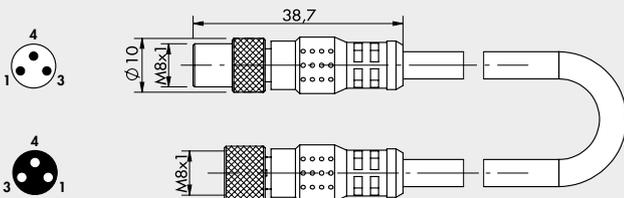
SECURITY KNOB



Code	Description
9200703	Security knob APR / pressure switch

Note: Pull outwards to remove the knob from the pressure switch on the unit. Insert the security knob and regulate the pressure switch. Then press the handle firmly to lock it in position. If the pressure switch needs to be reset, remove the security knob by forcing it laterally with a screwdriver.

M8 ADAPTER CABLE FOR CONNECTING THE PRESSURE SWITCH TO THE EB 80 E CM DIGITAL INPUTS MODULE

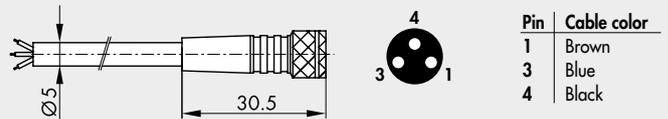


Code	Description
0240010501	M8-M, M8-F 3-pole adapter with cable L = 0.3 m

Note: Can be used to connect the pressure switch to the module of digital INPUT 501 of the EB 80 valves, to the additional M8 INPUT module of the CM valves and to the Profibus-DP IP67 M8 input. Contact type NO (Normally open)

M8F	M8M	Function
pin 1	pin 1	Power supply +
pin 3	pin 4	Signal NO
pin 4	pin 3	Disconnect

M8 STRAIGHT CONNECTOR WITH CABLE



Code	Description
02400A0100	M8 female 3 PIN HIGH FLEX CL6 connector with cable L = 1 m
02400A0250	M8 female 3 PIN HIGH FLEX CL6 connector with cable L = 2.5 m
02400A0500	M8 female 3 PIN HIGH FLEX CL6 connector with cable L = 5 m
02400A1000	M8 female 3 PIN HIGH FLEX CL6 connector with cable L = 10 m

Very flexible cables, class 6 according to IEC 60228

NOTES

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.

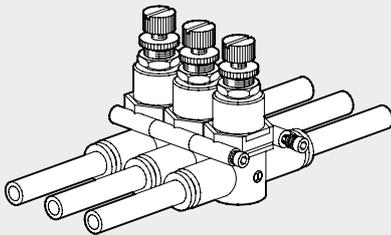
For almost every function it is available $\varnothing 1/4$ and $\varnothing 3/8$ " tube version.

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

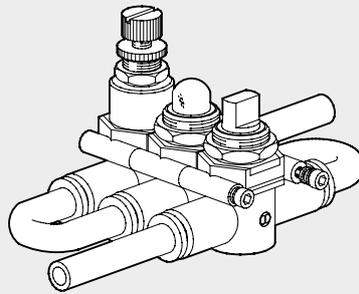


CONNECTION FREE

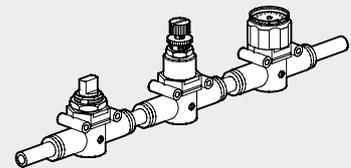
Parallel lines



Serial line parallel fitting



Serial line in-line fitting



FIXING FREE

Wall fixing

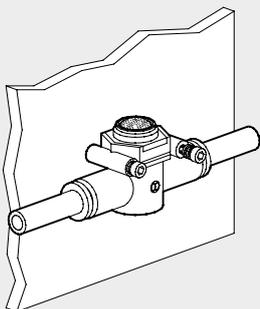
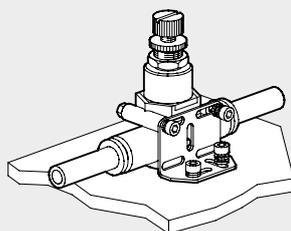
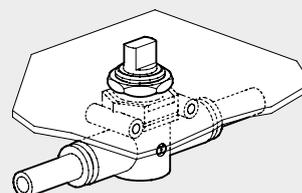


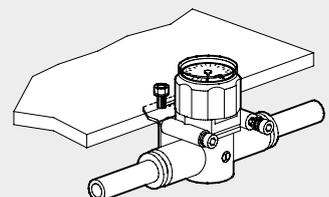
Plate fixing

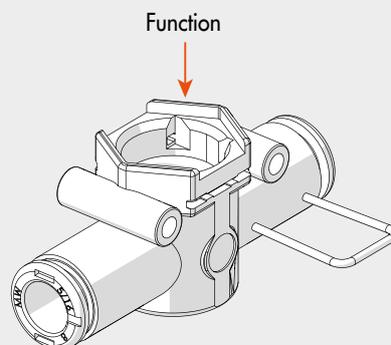


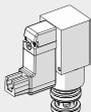
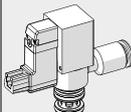
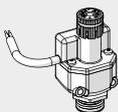
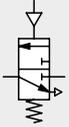
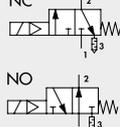
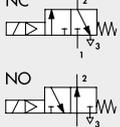
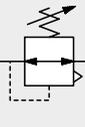
Panel fixing

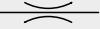
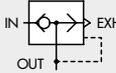
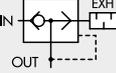
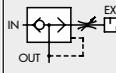
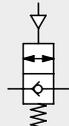


Under wall fixing



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			

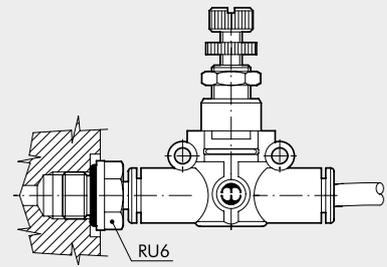
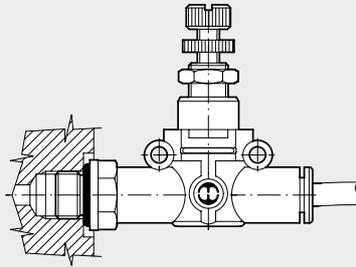
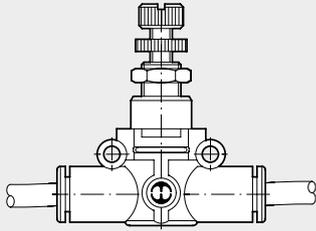
- Available also in tube Ø 1/4" version
- ▲ Available also in tube Ø 3/8" version

PIPE - PIPE

THREAD - PIPE

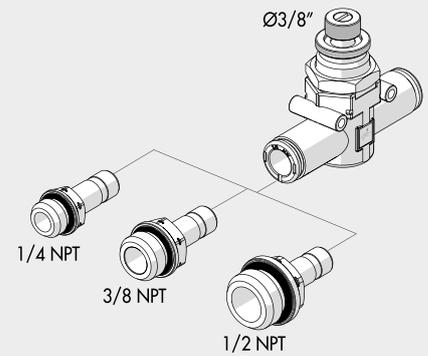
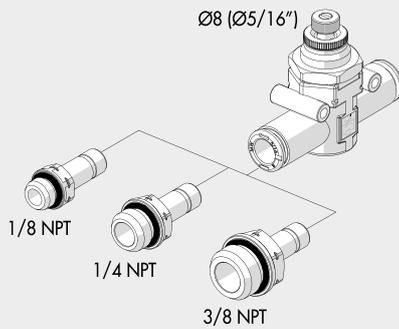
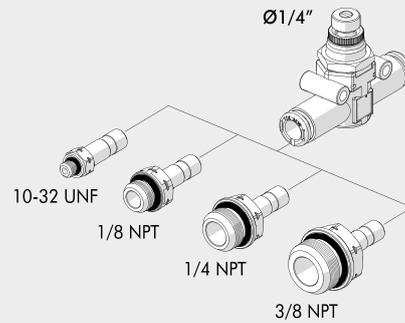
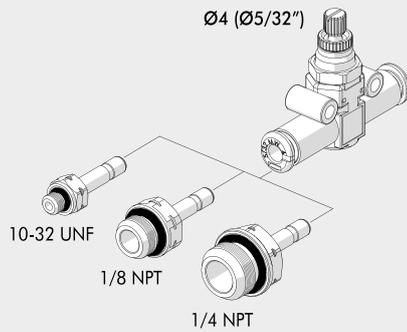
ISO 228 G (BSP) THREAD

UNF or NPT THREAD

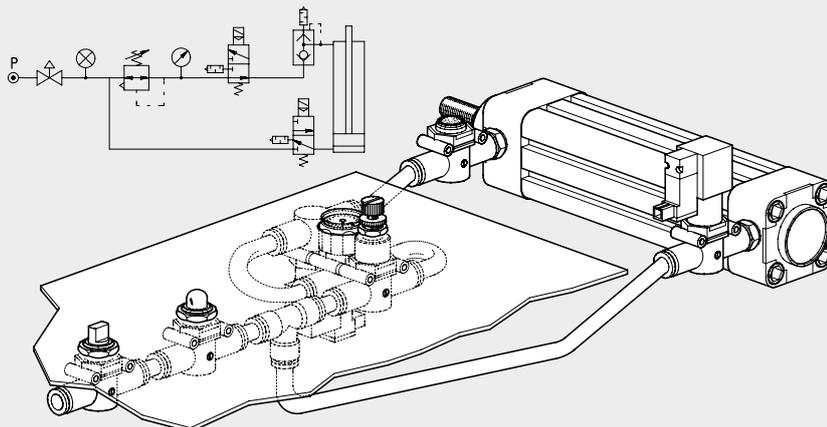


FROM TUBE - TUBE TO UNF or NPT THREAD - TUBE TRANSFORMATION

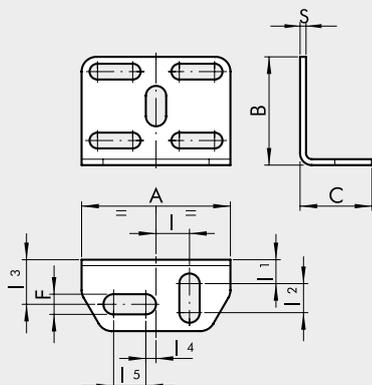
Using the RU6 fitting, it is possible to mount every Line on Line products on to the actuator or the control valve.



APPLICATION EXAMPLE



FIXING SQUARE KIT



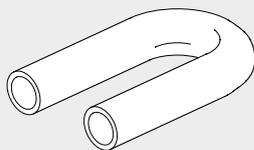
Code	Description	A	B	C	F	I	I1	I2	I3	I4	I5	S
9062110	SQU L	30	22	14.5	4.2	6.8	4.8	5.9	9.1	2	6.5	1.2

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 $\varnothing 10$

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

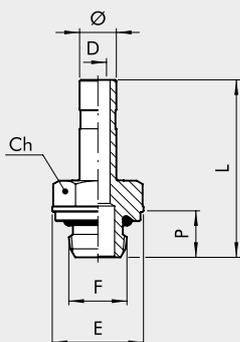
U-BOLT



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