

# IN-LINE SOLENOID VALVE SERIES SOV L

SOV L solenoid 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.

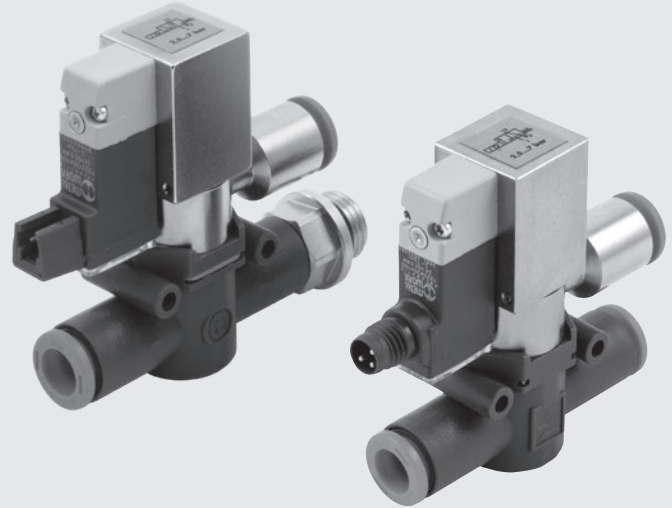
Though small in size, SOV L valves are solenoid-piloted and feature very high performance.

The spool distributor is fitted with special polyurethane gaskets to ensure a very long working life.

Each valve comes complete with a monostable manual control and LED.

The electrical connection can be the PLUG-IN type or the type with an M8 3 PIN IP65 threaded fitting.

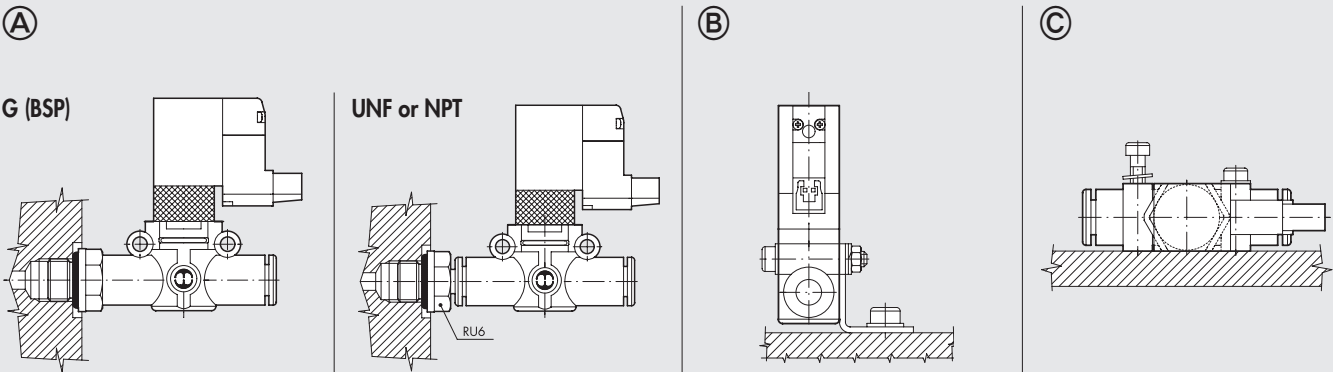
Exhaust can be damped with an annular silencer or conveyed via a pipe fitting. The fitting for conveyed exhaust can be oriented freely.



## TECHNICAL DATA

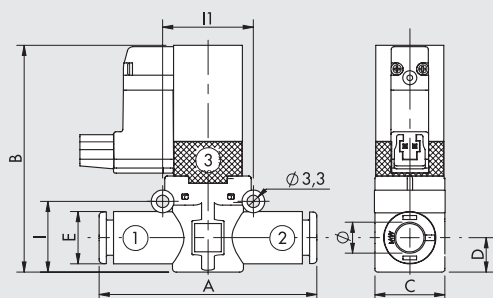
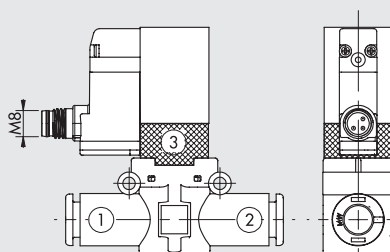
		Ø 6	Ø 1/4	Ø 8 (Ø5/16")
Operating pressure	MPa		0.3 to 0.7	
	bar		3 to 7	
	psi		43.5 to 101	
Temperature range	°C		5 to 50	
	°F		41 to 122	
Flow rate at 6.3 bar ΔP 0.5 bar	NI/min	270	270	500
Flow rate at 6.3 bar ΔP 1 bar	NI/min	380	380	700
Conductance C	NI/min-bar	95.8	95.8	178.1
Coefficient b	bar/bar	0.145	0.145	0.129
Voltage	VDC		24	
Power			0.9	
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>		
Type of electrical connection		PLUG-IN - M8 3 PIN IP65 threaded fitting		


## ASSEMBLY OPTIONS

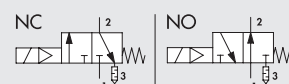


How to mount the SOV L:

- Fig. **A** **G (BSP)**: With the male threaded port it is possible to mount the SOV 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 SOV 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 SOV L straight onto the wall.

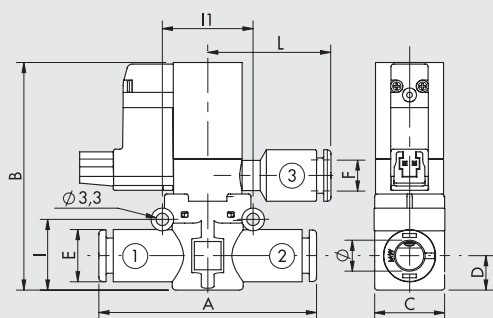
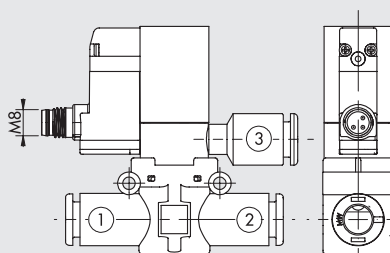
**SOV L 3/2 NC-NO PIPE - PIPE SILENCED EXHAUST**
**PLUG-IN VERSION**

**M8 VERSION**

**M8 CONNECTION**


- 
- 1 Not used
  - 3 0 V (Operation also with reverse polarity)
  - 4 +24V

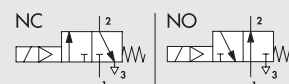


Code	Ref..	Ø	A	B	C	D	E	I	I1	Electrical connection
9069016	SOV L 3/2 NC Ø6-Ø6	6	49.4	57.5	14.7	6.4	11.4	14.6	20	PLUG-IN
906M016	SOV L 3/2 NC Ø6-Ø6 M8									M8
9069116	SOV L 3/2 NO Ø6-Ø6									PLUG-IN
9069016U	SOV L 3/2 NC Ø1/4-Ø1/4	1/4	49.4	57.5	14.7	6.4	11.4	14.6	20	PLUG-IN
906M016U	SOV L 3/2 NC Ø1/4-Ø1/4 M8									M8
9069116U	SOV L 3/2 NO Ø1/4-Ø1/4									PLUG-IN
9069024	SOV L 3/2 NC Ø8-Ø8	8 ▲	57.3	63.5	18.7	9.1	13.8	18.7	24	PLUG-IN
906M024	SOV L 3/2 NC Ø8-Ø8 M8									M8
9069124	SOV L 3/2 NO Ø8-Ø8									PLUG-IN

▲ Ø8 = Ø5/16"

**SOV L 3/2 NC-NO PIPE - PIPE CONVEYED EXHAUST**
**PLUG-IN VERSION**

**M8 VERSION**

**M8 CONNECTION**

- 
- 1 Not used
  - 3 0 V (Operation also with reverse polarity)
  - 4 +24V

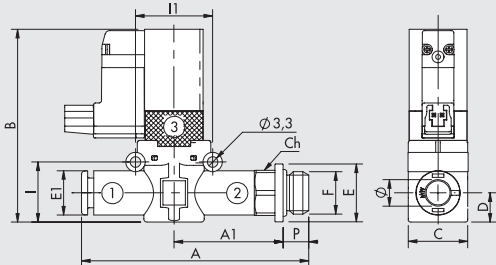


Code	Ref.	Ø	A	B	C	D	E	F	I	I1	L	Electrical connection
9069216	SOV L 3/2 NC Ø6-Ø6-Ø6	6	49.4	57.5	14.7	6.4	11.4	Ø 6	14.6	20	28.3	PLUG-IN
906M216	SOV L 3/2 NC Ø6-Ø6-Ø6 M8											M8
9069316	SOV L 3/2 NO Ø6-Ø6-Ø6											PLUG-IN
9069216U	SOV L 3/2 NC Ø1/4-Ø1/4-Ø1/4	1/4	49.4	57.5	14.7	6.4	11.4	Ø1/4	14.6	20	28.3	PLUG-IN
906M216U	SOV L 3/2 NC Ø1/4-Ø1/4-Ø1/4 M8											M8
9069316U	SOV L 3/2 NO Ø1/4-Ø1/4-Ø1/4											PLUG-IN
9069224	SOV L 3/2 NC Ø8-Ø8-Ø8	8 ▲	57.3	63.5	18.7	9.1	13.8	Ø 8 ▲	18.7	24	30	PLUG-IN
906M224	SOV L 3/2 NC Ø8-Ø8-Ø8 M8											M8
9069324	SOV L 3/2 NO Ø8-Ø8-Ø8											PLUG-IN

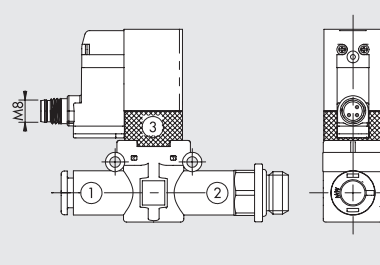
▲ Ø8 = Ø5/16"

## SOV L 3/2 NC-NO PIPE - G (BSP) THREAD SILENCED EXHAUST

PLUG-IN VERSION

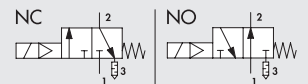


M8 VERSION



M8 CONNECTION

- 1 Not used  
 3 0 V (Operation also with reverse polarity)  
 4 +24V

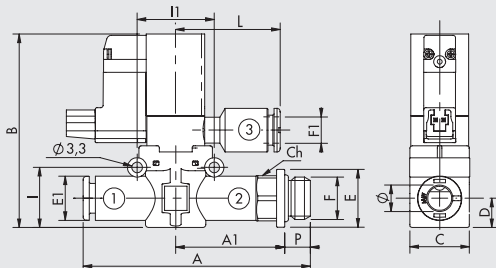


Code	Ref.	Ø	F	P	A	A1	B	C	D	E	E1	I	I1	Ch	Electrical connection
9069408	SOV L 3/2 NC Ø6-1/8	6	1/8	6	58.5	27.8	57.5	14.7	6.4	14	11.4	14.6	20	12	PLUG-IN
906M408	SOV L 3/2 NC Ø6-1/8 M8														M8
9069508	SOV L 3/2 NO Ø6-1/8														PLUG-IN
9069409	SOV L 3/2 NC Ø6-1/4	6	1/4	8	61.5	28.8	57.5	14.7	6.4	18	11.4	14.6	20	14	PLUG-IN
906M409	SOV L 3/2 NC Ø6-1/4 M8														M8
9069509	SOV L 3/2 NO Ø6-1/4														PLUG-IN
9069410	SOV L 3/2 NC Ø8-1/8	8 ▲	1/8	6	66.2	31.8	63.5	18.7	9.1	15	13.8	18.7	24	14	PLUG-IN
906M410	SOV L 3/2 NC Ø8-1/8 M8														M8
9069510	SOV L 3/2 NO Ø8-1/8														PLUG-IN
9069411	SOV L 3/2 NC Ø8-1/4	8 ▲	1/4	8	70.6	34.2	63.5	18.7	9.1	18	13.8	18.7	24	14	PLUG-IN
906M411	SOV L 3/2 NC Ø8-1/4 M8														M8
9069511	SOV L 3/2 NO Ø8-1/4														PLUG-IN
9069412	SOV L 3/2 NC Ø8-3/8	8 ▲	3/8	9	72.2	34.8	63.5	18.7	9.1	22	13.8	18.7	24	17	PLUG-IN
906M412	SOV L 3/2 NC Ø8-3/8 M8														M8
9069512	SOV L 3/2 NO Ø8-3/8														PLUG-IN

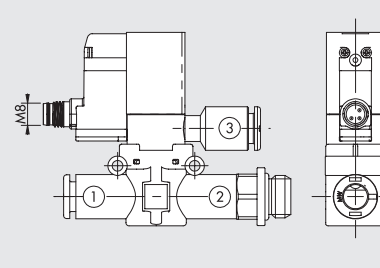
▲ Ø8 = Ø5/16"

## SOV L 3/2 NC-NO PIPE - G (BSP) THREAD CONVEYED EXHAUST

PLUG-IN VERSION

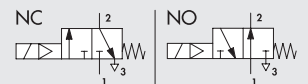


M8 VERSION



M8 CONNECTION

- 1 Not used  
 3 0 V (Operation also with reverse polarity)  
 4 +24V

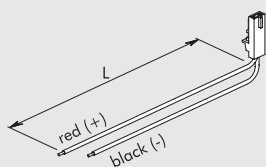


Code	Ref.	Ø	F	P	A	A1	B	C	D	E	E1	F1	I	I1	L	Ch	Electrical connection
9069608	SOV L 3/2 NC Ø6-1/8-Ø6	6	1/8	6	58.5	27.8	57.5	14.7	6.4	14	11.4	Ø 6	14.6	20	28.3	12	PLUG-IN
906M608	SOV L 3/2 NC Ø6-1/8-Ø6 M8																M8
9069708	SOV L 3/2 NO Ø6-1/8-Ø6																PLUG-IN
9069609	SOV L 3/2 NC Ø6-1/4-Ø6	6	1/4	8	61.5	28.8	57.5	14.7	6.4	18	11.4	Ø 6	14.6	20	28.3	14	PLUG-IN
906M609	SOV L 3/2 NC Ø6-1/4-Ø6 M8																M8
9069709	SOV L 3/2 NO Ø6-1/4-Ø6																PLUG-IN
9069610	SOV L 3/2 NC Ø8-1/8-Ø8	8 ▲	1/8	6	66.2	31.8	63.5	18.7	9.1	15	13.8	Ø 8 ▲	18.7	24	30	14	PLUG-IN
906M610	SOV L 3/2 NC Ø8-1/8-Ø8 M8																M8
9069710	SOV L 3/2 NO Ø8-1/8-Ø8																PLUG-IN
9069611	SOV L 3/2 NC Ø8-1/4-Ø8	8 ▲	1/4	8	70.6	34.2	63.5	18.7	9.1	18	13.8	Ø 8 ▲	18.7	24	30	14	PLUG-IN
906M611	SOV L 3/2 NC Ø8-1/4-Ø8 M8																M8
9069711	SOV L 3/2 NO Ø8-1/4-Ø8																PLUG-IN
9069612	SOV L 3/2 NC Ø8-3/8-Ø8	8 ▲	3/8	9	72.2	34.8	63.5	18.7	9.1	22	13.8	Ø 8 ▲	18.7	24	30	17	PLUG-IN
906M612	SOV L 3/2 NC Ø8-3/8-Ø8 M8																M8
9069712	SOV L 3/2 NO Ø8-3/8-Ø8																PLUG-IN

▲ Ø8 = Ø5/16"

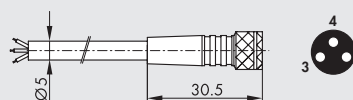
## ACCESSORIES

### PLUG-IN CONNECTOR



Code	Description
W0970512000	Plug-in connector Mach 11 L = 300 mm
W0970512007	Plug-in connector Mach 11 L = 1 m
W0970512002	Plug-in connector Mach 11 L = 2 m

### M8 STRAIGHT CONNECTOR WITH CABLE

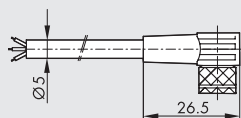


Pin	Cable color
1	Brown
3	Blue
4	Black

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

### 90° M8 CONNECTOR WITH CABLE

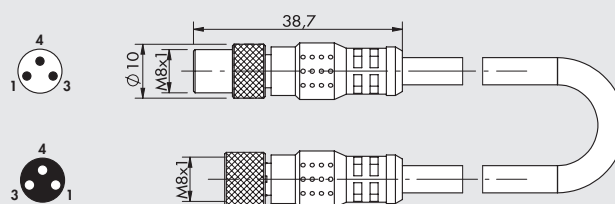


Pin	Cable color
1	Brown
3	Blue
4	Black

Code	Description
02400B0100	M8 female 3 PIN 90° HIGH FLEX CL6 connector with cable L = 1 m
02400B0250	M8 female 3 PIN 90° HIGH FLEX CL6 connector with cable L = 2.5 m
02400B0500	M8 female 3 PIN 90° HIGH FLEX CL6 connector with cable L = 5 m
02400B1000	M8 female 3 PIN 90° HIGH FLEX CL6 connector with cable L = 10 m

Very flexible cables, class 6 according to IEC 60228

### M8 M - M8 F CONNECTOR

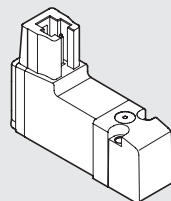


Code	Description
0240009009	M8-M8 3-pin straight connector with cable L = 3 m

Note: Can be used for direct connection to the modules with digital OUTPUT of the EB 80 valves

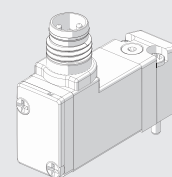
## SPARE PARTS

### PLUG-IN PILOT



Code	Description
722213541100	PLT-10 722213541100

### M8 PILOT



Code	Description
7222M3541100	PLT-10 3/2 NC 0.8W 24VDC LED M8 with manual