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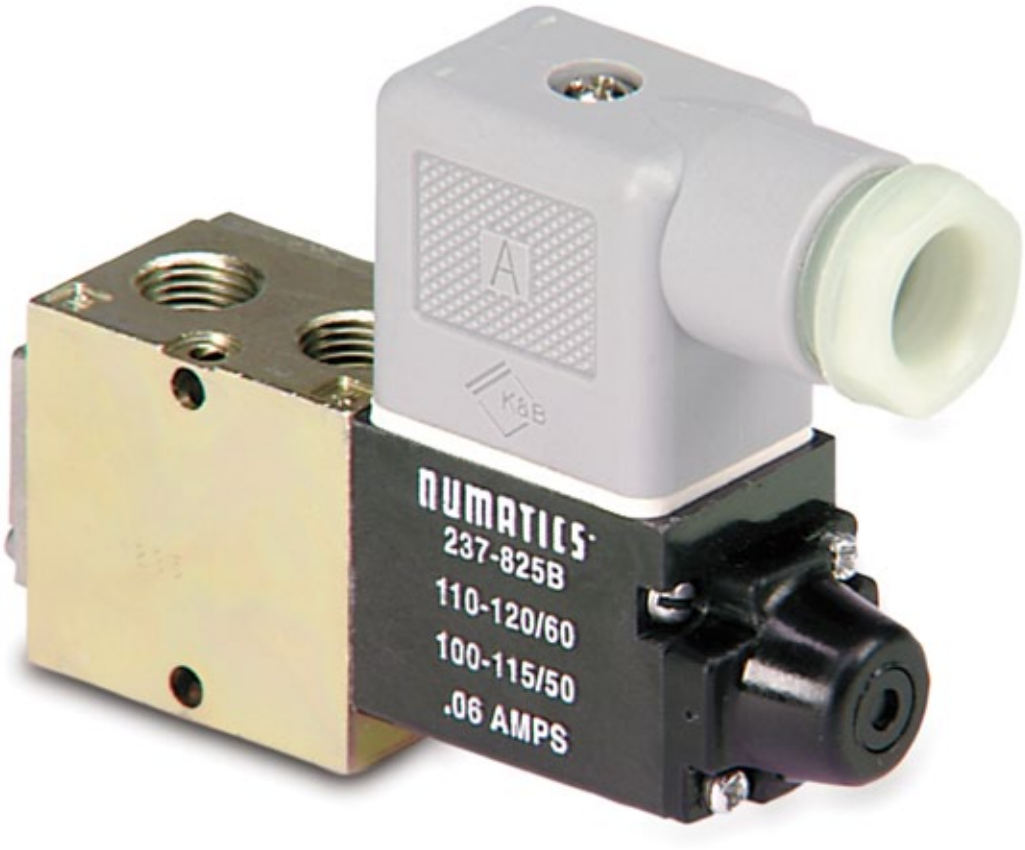
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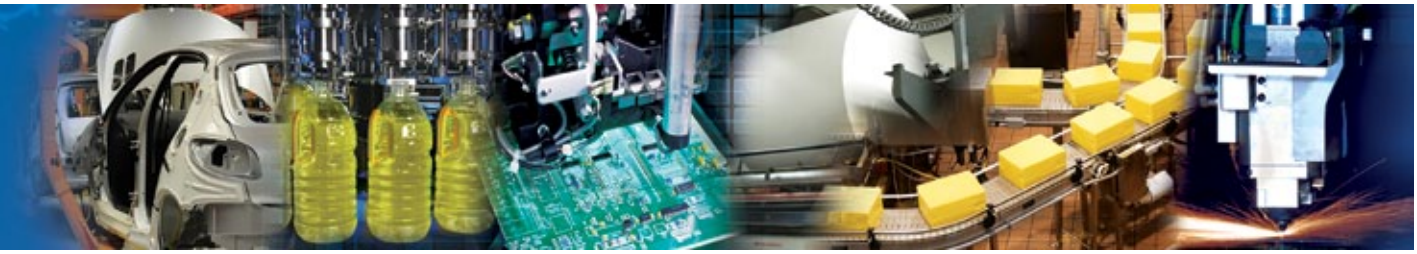
Find the *Emerson / Numatics 237-267B* at our website: *Click HERE*

numatics®

L01 Series

Direct Solenoid Actuated Valves





www.numatics.com

EMERSON
Industrial Automation

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L01 Series

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4 Ported, 2 and 3 position, 4-way, Spool & Sleeve

Cv: 0.20

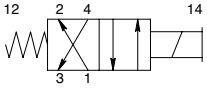
- Direct solenoid actuated
- DIN plug-in solenoid with indicator light
- Unlubricated or lubricated service
- Integral speed control available
- In-line or manifold mounted
- Designed to meet the requirements of NEMA 4 / IP65



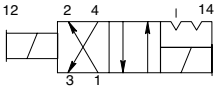
Technical Data

Valve Data	English	Metric
Cv	1/8 = 0.20	1/8 G Tap = 0.20
Flow Capacity	9.3 SCFM	197 Nl/m
	Upstream pressure to atmosphere @80 PSIG	@ 6 bar upstream/5 bar downstream
Operating Pressure Range	28"Hg Vacuum to 150 PSIG	Vacuum to 10 bar
Temperature Range (Ambient)	-10°F to + 115°F	-23°C to +46° C

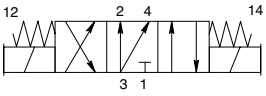
single solenoid
2 position 4-way



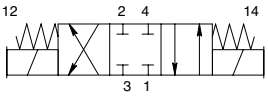
double solenoid
2 position 4-way



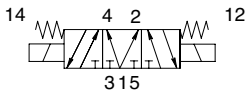
double solenoid
3 position 4-way
open center



double solenoid
3 position 4-way
closed center



double solenoid, spring centered
3 position 4-way pressure center



Operating Data

All Solenoids Are Continuous Duty Rated		12 VDC	24 VDC	24 VAC 50 Hz	24 VAC 60 Hz	115 VAC 50 Hz	120 VAC 60 Hz	230 VAC 50 Hz	240 VAC 60 Hz
Power (Watts)		6.0	6.0	4.0	3.0	5.4	4.1	5.0	5.4
Holding Current (Amps.)		0.500	0.250	0.290	0.023	0.600	0.050	0.024	0.024
Inrush Current (Amps.)		N/A	N/A	0.490	0.045	0.100	0.090	0.041	0.041
Energize in seconds	2-Position, Single, Spring Return	0.012	0.012	0.008	0.008	0.008	0.008	0.008	0.008
	2-Position, Double, Detented	0.012	0.012	0.008	0.008	0.008	0.008	0.008	0.008
	3-Position, Spring Centered	0.012	0.012	0.010	0.010	0.010	0.010	0.010	0.010
De-energize in seconds	2-Position, Single, Spring Return	0.006	0.006	0.010	0.010	0.010	0.010	0.010	0.010
	2-Position, Double, Detented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3-Position, Spring Centered	0.006	0.006	0.012	0.012	0.012	0.012	0.012	0.012

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How to Order

Valves

L01 SS 4 59 B 0 000 60

Valve Series & Port Size
L01 = 1/8

Valve Type
SA = Single Direct Solenoid, Spring Return W/Flush Non-locking Override
SS = Double Direct Solenoid w/Flush Non-locking Override

Function
4 = 2 Position, 4-Way
5 = 3 Position, 4-Way Open Center
6 = 3 Position, 4-Way Closed Center
7 = 3 Position, 4-Way Pressure Center

Mounting
59 = Line Mounted, Common Exhaust
87 = 59 w/Speed Control

Voltage
20 = 24/50-60 VAC
30 = 110-120/50-60 VAC
40 = 220-240/50-60 VAC
60 = 12 VDC
61 = 24 VDC

Options
11B = Flush Locking Override
11Z = Extended Locking Override
13A = 48" Leads
17N = DC Solenoid W/Surge Suppression Diode
18D = Side Ports

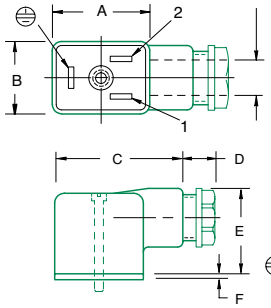
Port Type
0 = NPTF
G = G Tap

Wiring Option
2 = Din Plug-in AC Solenoid
4 = Din Plug-in DC Solenoid
O = Hardwired AC
B = Hardwired DC

NOTE: Plug connector is NOT included with DIN solenoid. Order plug-in connector assembly separately (see ordering information below)

Plug connector assemblies

Per DIN Spec. NO 43650. Accepts cable diameter 0.240 to 0.310
11 mm Industry Standard DIN Form B



Plug Connector Descripiton	Part No.
Grey (14 end solenoid) Plug Assembly	230-363
Black (12 end solenoid) Plug Assembly	230-364
Plug Assembly with 24 V Light	230-365
Plug Assembly with 110 V Light	230-366
Plug Assembly with 220 V Light	230-367

Dimensions: Inches (mm)

A	B	C	D	E	F
1.12 (28.4)	0.83 (21.1)	1.57 (39.9)	0.40 (10.2)	1.10 (27.9)	0.06 (1.5)

Manifold Assembly

AK 0 1 E 0000 2 N STD

Electrical/Electronics Type & Location
0 = Standard

Valve Line
1 = L01 Series

Number of Valve Stations
B = 2 F = 6 J = 10
C = 3 G = 7 K = 11
D = 4 H = 8 L = 12
E = 5 I = 9

Options
STD = Standard

Port Type
N = NPTF
G = G tap

End Plate Port Size
2 = 1/4

Example order:

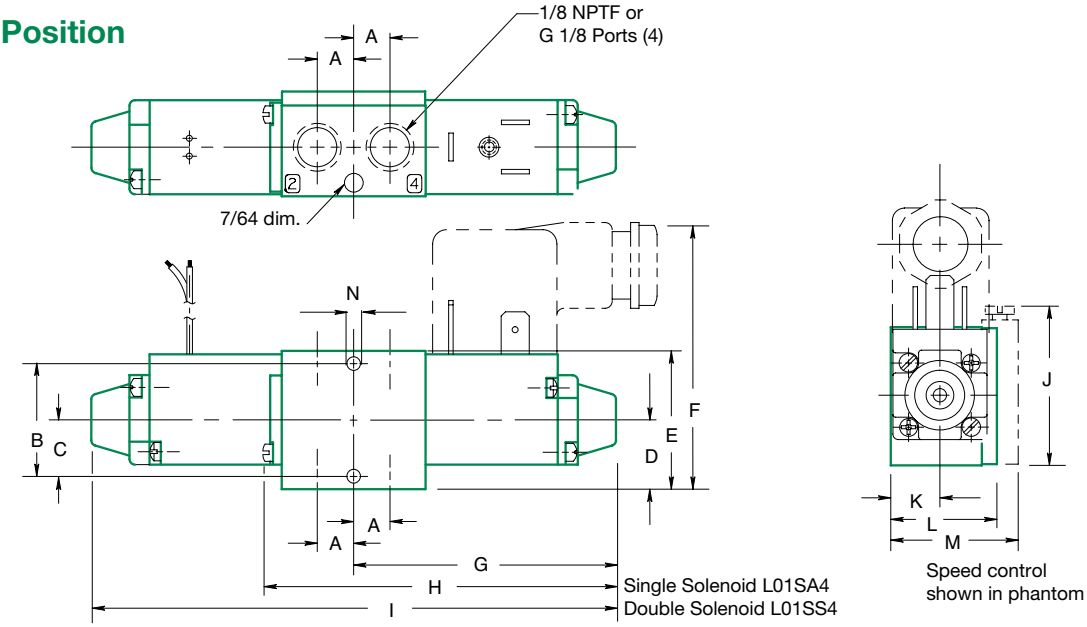
List in order, left to right, facing cylinder ports

Assembly Kit:	AK01C00002NSTD
Station 1	LO1SS4872000030
Station 2	LO1SS4592000030
Station 3	LO1SA4592000030
	ASSEMBLED

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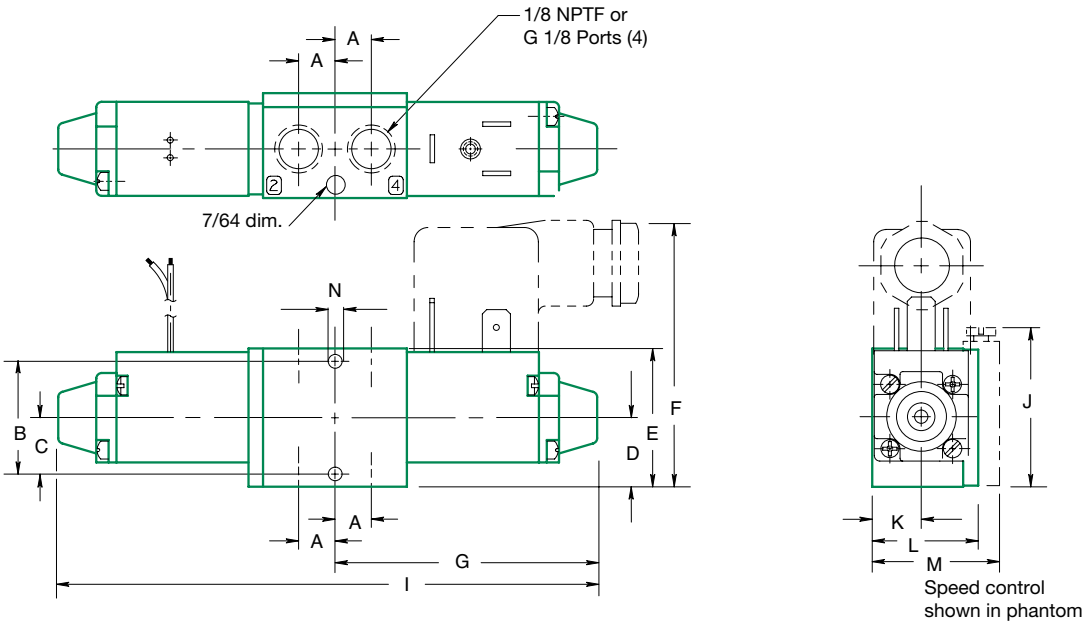
Dimensions: Inches (mm)

Valve 2 Position



	A	B	C	D	E	F	G	H	I	J	K	L	M	N
2 position valves	0.31 (7.9)	0.97 (24.6)	0.49 (12.4)	0.59 (15.0)	1.19 (30.2)	2.33 (59.2)	2.30 (58.4)	3.14 (79.8)	4.60 (116.8)	1.35 (34.3)	0.42 (10.7)	0.90 (22.9)	1.08 (27.4)	0.11 (2.8)

Valve 3 Position



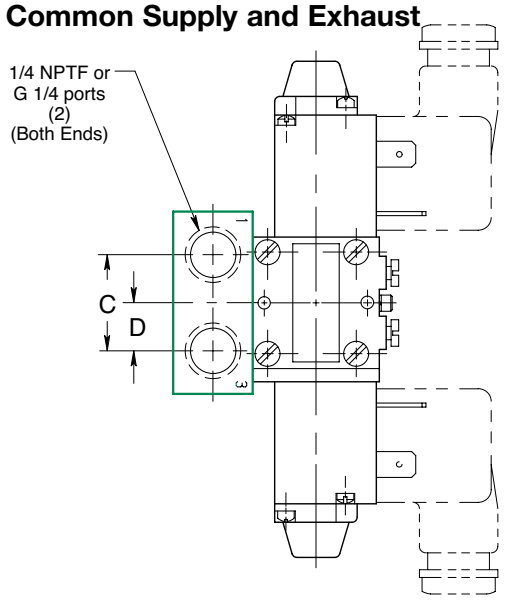
	A	B	C	D	E	F	G	H	I	J	K	L	M	N
3 position valves	0.31 (7.9)	0.97 (24.6)	0.49 (12.4)	0.59 (15.0)	1.19 (30.2)	2.33 (59.2)	2.37 (60.2)	3.14 (79.8)	4.86 (123.4)	1.35 (34.3)	0.42 (10.7)	0.90 (22.9)	1.08 (27.4)	0.11 (2.8)

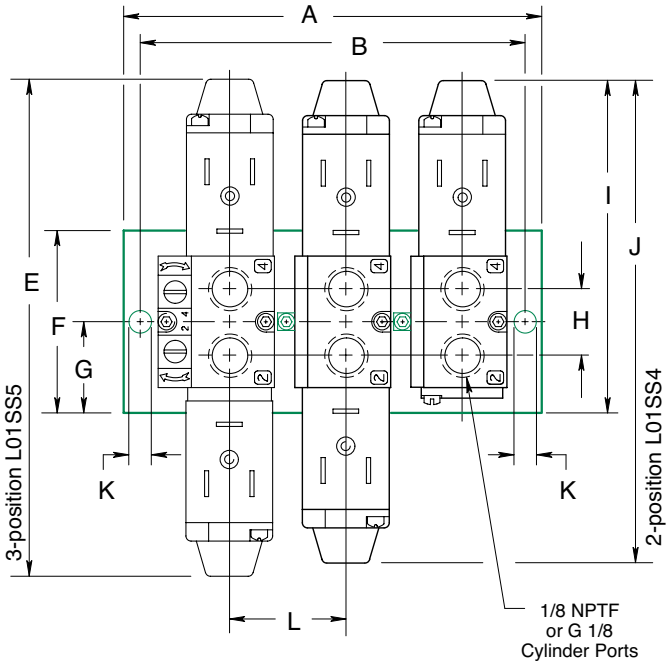
Information subject to change without notice. For ordering information or regarding your local sales office visit www.numatics.com.

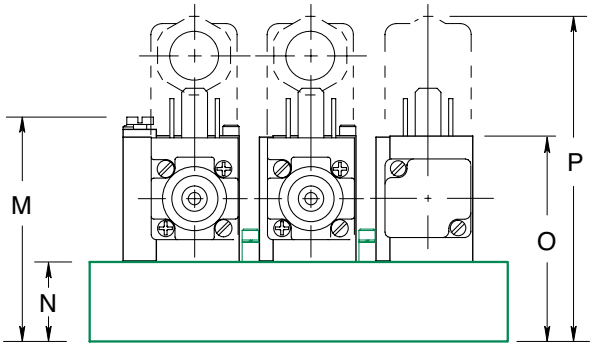
Dimensions: Inches (mm)

Manifold Assembly

Common Supply and Exhaust







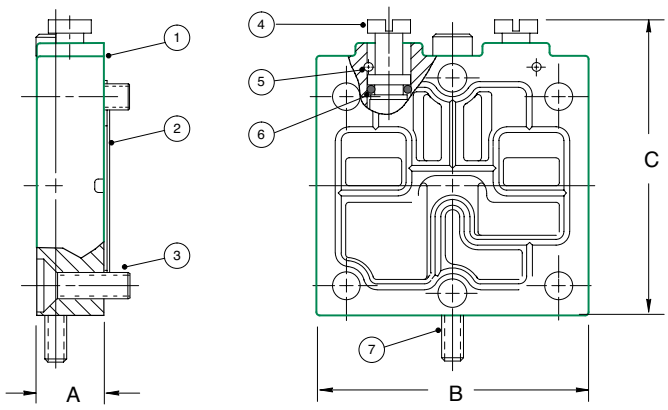
A	B	C	D	E	F	G	H	I	J	K	L
See table below	See table below	0.91 (23.1)	0.45 (11.4)	4.86 (123.9)	1.69 (42.9)	0.84 (21.3)	0.62 (15.7)	3.14 (79.7)	4.60 (116.8)	0.20 (5.1)	1.10 (27.9)

Manifold # Stations	Dim A	Dim B	1/4 NPTF	G 1/4
2 Stations	2.84 (72.1)	2.53 (64.3)	106-822	106-833
3 Stations	3.94 (100)	3.63 (92.2)	106-823	106-834
4 Stations	5.03 (127.7)	4.72 (119.9)	106-824	106-835
5 Stations	6.13 (155.7)	5.82 (147.8)	106-825	106-836
6 Stations	7.23 (183.6)	6.91 (177.5)	106-826	106-837
7 Stations	8.23 (211.3)	8.01 (203.5)	106-827	106-838

Manifold # Stations	Dim A	Dim B	1/4 NPTF	G 1/4
8 Stations	9.42 (239.3)	9.11 (231.4)	106-828	106-839
9 Stations	10.51 (267.0)	10.20 (259.1)	106-829	106-840
10 Stations	11.61 (294.9)	11.30 (287.0)	106-830	106-841
11 Stations	12.71 (322.8)	12.39 (314.7)	106-831	106-842
12 Stations	13.80 (350.5)	13.49 (342.6)	106-832	106-843
Mounting Kit	239-582	Order (1) mounting kit for each station on the manifold. Includes all studs, seals & screws.		

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Speed Control Kit - Side Mounted 239-581



Parts List

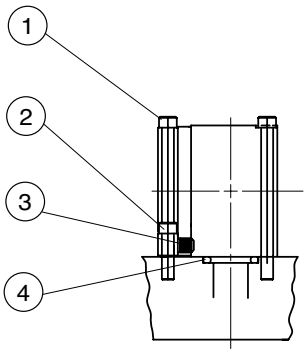
Port Type	Part. No.	Part Name	Part No.
1 *	1	Speed Control Body (not sold separately)	
2 *	1	Gasket	113-414
3 *	4	Screw Assembly	127-671
4 *	2	Metering Screw	118-166
5 *	2	Pin	131-220
6 *	2	O-Ring Seal	126-163
7 *	1	Screw	127-670

*Indicates parts included in kit

Dimensions: Inches (mm)

A	B	C
0.30 (7.6)	1.22 (31.0)	1.35 (34.3)

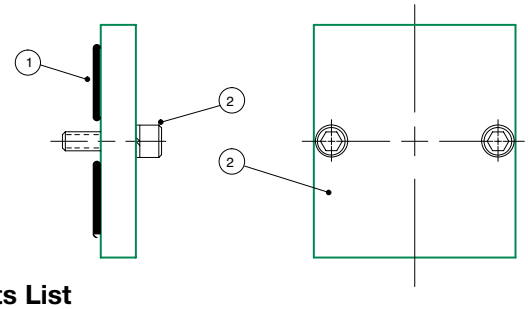
Mounting Kit 239-582



Parts List

Port Type	Part. No.	Part Name	Part No.
1	2	Screw	127-670
2	1	Screw	127-669
3	1	Mounting Stud	125-560
4	2	O-Ring	126-107

Blank Station Plate Kit 239-583



Parts List

Port Type	Part. No.	Part Name	Part No.
1	2	O-Ring Seal	126-106
2	2	Screw	127-669
3	1	Blank Station Plate (not sold separately)	

Solenoid Capsule Assemblies (Flush Non-Locking Override)

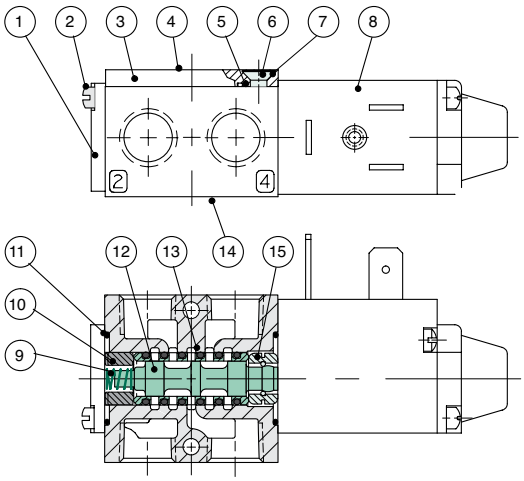
Override Type	Valve Function	Wiring Option	12/14 End	Voltage				
				AC			DC	
				100-115/50 110-120/60	200-230/50 220-240/60	24/50-60	12 VDC	24 VDC
Flush non-locking override (standard)	2 Stations	Hardwired	12/14	237-952	237-953	237-954	236-102	236-103
	2 Stations	DIN plug-in	12/14	237-961	237-962	237-963	236-126	236-127
	3 Stations	Hardwired	12 end	237-993	237-992	237-994	236-154	236-155
	3 Stations	Hardwired	14 end	237-990	237-989	237-991	236-108	236-109
	3 Stations	DIN plug-in	12 end	237-1011	237-1010	237-1012	236-166	236-167
	3 Stations	DIN plug-in	14 end	237-1008	237-1007	237-1009	236-132	236-133

Includes solenoid and end cap assembly + screws and gaskets.

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Valve Service Kits and Parts

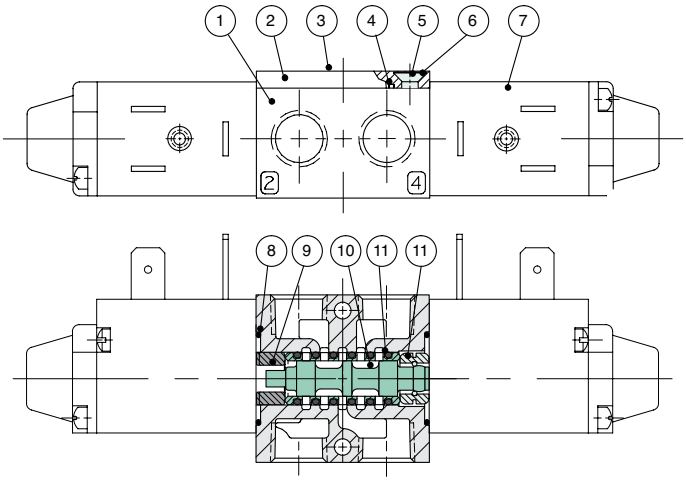
Kit No. L01-K1* (For Model L01SA4)



Parts List

Port Type	Part. No.	Part Name	Part No.
1	1	Spring Cover	104-199
2	2	Screw	127-260
3	1	Top Plate	105-313
4	1	Nameplate	122-571
5*	1	Gasket	113-414
6	4	Screw	127-604
7	4	Lockwasher	128-316
8	1	Solenoid Assembly (12/14)	See p. 7
9*	1	Spring	115-203
10*	1	Bumper	114-130
11*	2	O-Ring Seal	126-134
12	1	Sleeve Assembly w/Seals	209-278
13*	6	Seals	126-133
14	1	Vlave Body (not sold separately)	
15*	1	Detent Body	110-109

Kit No. L01-K1* (For Model L01SS4)



Parts List

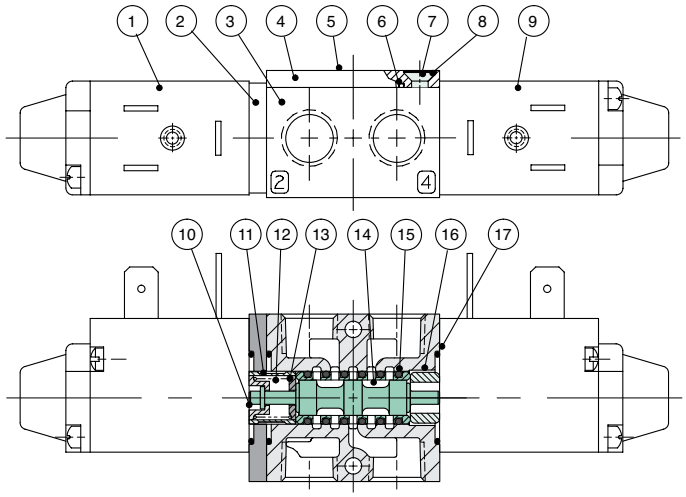
Port Type	Part. No.	Part Name	Part No.
1	1	Valve Body (not sold separately)	
2	1	Top Plate	105-313
3	1	Nameplate	122-571
4*	1	Gasket	113-414
5	4	Screw	127-604
6	4	Lockwasher	128-316
7	2	Solenoid Assembly (12/14)	See p. 7
8*	2	O-Ring Seal	126-134
9*	1	Bumper	114-130
10	1	Sleeve Assembly w/Seals	209-278
11*	6	Seals	126-133
12*	1	Detent Assembly	210-111

*Indicates parts included in service kit. **Spool and sleeve assemblies sold as precision matched set and include (6) #126-133 seals; spools are not interchangeable.

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Valve Service Kits and Parts

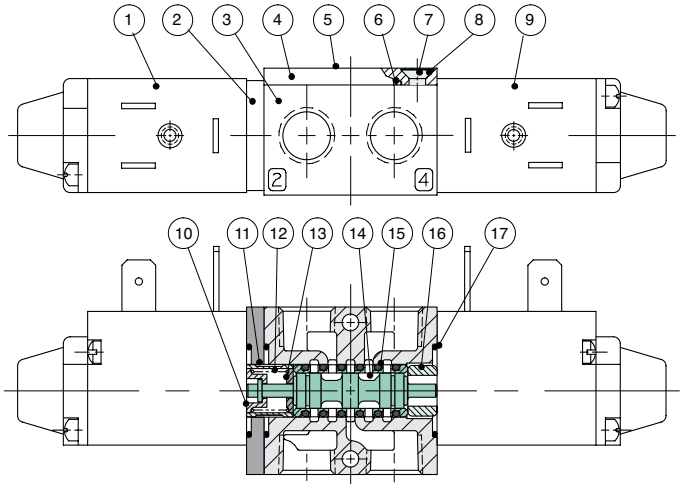
Kit No. L01-K3* (For Model L01SS5)



Parts List

Port Type	Part. No.	Part Name	Part No.
1	1	Solenoid Assembly (12 End)	See p. 7
2	1	Adaptor	119-343
3	1	Valve Body (not sold separately)	
4	1	Top Plate	105-313
5	1	Nameplate	122-571
6*	1	Gasket	113-414
7	4	Screw	127-604
8	4	Lockwasher	128-316
9	1	Solenoid Assembly (14 End)	See p. 7
10*	1	Spring Retainer	116-396
11*	1	Spacer	116-397
12*	1	Spring	115-291
13*	1	Spring Retainer	116-395
14	1	Sleeve Assembly w/Seals	**209-373
15*	6	Seals	126-133
16*	1	Bumper	114-171
17*	3	O-Ring Seals	126-134

Kit No. L01-K3* (For Model L01SS6)



Parts List

Port Type	Part. No.	Part Name	Part No.
1	1	Solenoid Assembly (12 End)	See p. 7
2	1	Adaptor	119-343
3	1	Valve Body (not sold separately)	
4	1	Top Plate	105-313
5	1	Nameplate	122-571
6*	1	Gasket	113-414
7	4	Screw	127-604
8	4	Lockwasher	128-316
9	1	Solenoid Assembly (14 End)	See p. 7
10*	1	Spring Retainer	116-396
11*	1	Spacer	116-397
12*	1	Spring	115-291
13*	1	Spring Retainer	116-395
14	1	Sleeve Assembly w/Seals	209-374**
15*	6	Seals	126-133
16*	1	Bumper	114-171
17*	3	O-Ring Seals	126-134

*Indicates parts included in service kit. **Spool and sleeve assemblies sold as precision matched set and include (6) #126-133 seals; spools are not interchangeable.

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LT-L01Series Rev 06/12
10M-IPC-01/09

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