

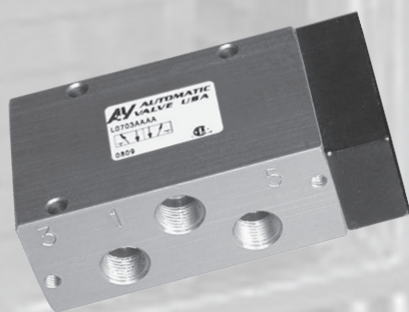
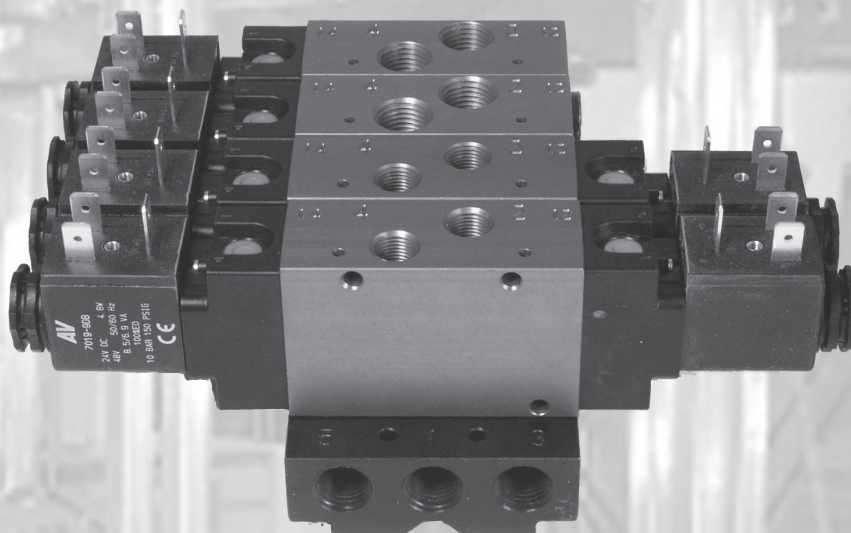


AV ***AUTOMATIC VALVE***



World Class Pneumatic Solutions

AV AUTOMATIC VALVE



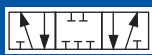
Compact Spool Valves

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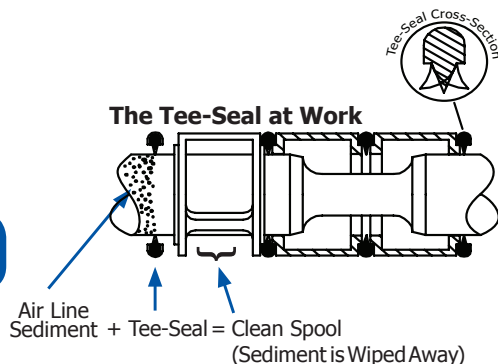


Compact Spool Valves

Design Features



A



Valves

- Inline or manifold mount: flexible, efficient.
- Balanced spool construction allows ports to be plugged for 2 way or 3 way function, or restricted for inexpensive cylinder exhaust speed control.
- Wide variety of options and operators available.
- Specific application needs? Consult the factory.
We will build it for you.

Tapered Tee-Seal Eats Dirt

- Bidirectional tapered Tee-Seal eliminates sticking problems.
 - Flexes to clean spool
 - Mechanically Locked
 - No Spiral Twist
 - No Extrusion
 - Air Line Sediment is Wiped Away.
- Tested tough and proven reliable according to SAE specifications:
Rust and water injected every 864,000 cycles for 20 million cycles.



Solenoid ... Guaranteed Against Burnout

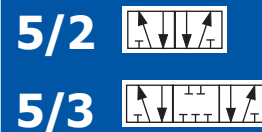
- Three-way pilot uses full air line pressure to shift the valve.
- Pilot is internally supplied when the pressure at port one is 35 to 150 PSIG (240 to 1030 kPa).
- Coil is hermetically sealed as an integral watertight molded unit.
- Intrinsically-safe and explosion-proof versions available.
- Push Non-Locking Override is standard. (Extended Turn and Turn-Locking available)



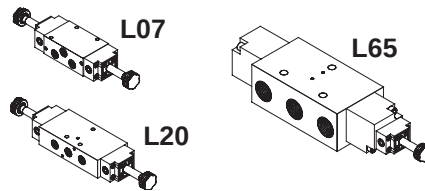
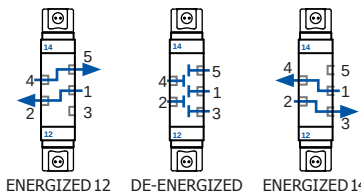
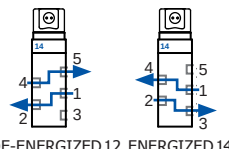
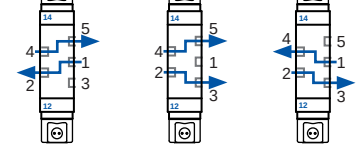
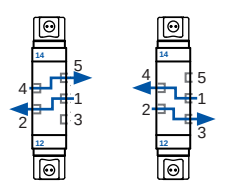
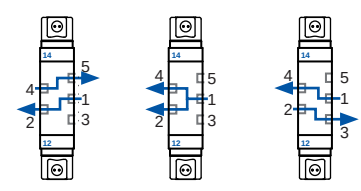
Products Certified To:

- CSA - (C22.2 and UL STD 429)
- Factory Mutual - Explosion Proof Environments
- ATEX - Explosion Proof Environments
- CE - EMF and Low Voltage Directives

Compact Spool Valves Specs & Model Numbers



Specifications

Valve Operation		Valve Operation	
 L07 L65 L20		 5/3 BLOCK Maintained Energized 12: Pressure from Port 1 to Port 2 Exhaust from Port 4 to Port 5 De-Energized: All ports Blocked Maintained Energized 14: Pressure from Port 1 to Port 4 Exhaust from Port 2 to Port 3	
 5/2 SINGLE De-Energized: Pressure from Port 1 to Port 2 Exhaust from Port 4 to Port 5 Energized: Pressure from Port 1 to Port 4 Exhaust from Port 2 to Port 3		 5/3 EXHAUST Maintained Energized 12: Pressure from Port 1 to Port 2 Exhaust from Port 4 to Port 5 De-Energized: Port 2 open to Port 3, Port 4 open to Port 5 Port 1 Blocked Maintained Energized 14: Pressure from Port 1 to Port 4 Exhaust from Port 2 to Port 3	
 5/2 DOUBLE Momentarily Energized 12: Pressure from Port 1 to Port 2 Exhaust from Port 4 to Port 5 Momentarily Energized 14: Pressure from Port 1 to Port 4 Exhaust from Port 2 to Port 3		 5/3 PRESSURE Maintained Energized 12: Pressure from Port 1 to Port 2 Exhaust from Port 4 to Port 5 De-Energized: Port 1 open to Ports 2 & 4; Ports 3 & 5 Blocked Maintained Energized 14: Pressure from Port 1 to Port 4 Exhaust from Port 2 to Port 3	
Operating Temperatures	Solenoid Pilot Operated	Treated Buna-N Seals (Treated NBR, Standard)	Fluoroelastomer Seals (FKM, Option A)
	Standard	-18°C to +50°C (0°F to +123°F)	-18°C to +50°C (0°F to +123°F)
	High Temp Coil (Option CT)	-18°C to +82°C (0°F to +180°F)	-18°C to +82°C (0°F to +180°F)
Operating Pressures	Solenoid Pilot Operated	Inlet Port	External Pilot Port
	Standard 2 Position	240 - 1030 kPa (35 - 150 PSIG)	-
	Standard 3 Position	345 - 1030 kPa (50 - 150 PSIG)	-
	External Pilot (Option B)	Vacuum - 240 kPa (Vacuum - 35 PSIG)	240 - 1030 kPa (35 - 150 PSIG)
Filtration & Lubrication	Media - Air Or Inert Gas		
	Air Line Lubrication of Automatic Valve products is not required, but is recommended to maximize service life. Oils should be compatible with seal material, have an ISO 32 viscosity, and have an aniline range between 82°C (180°F) and 99°C (210°F). Filter to 50 microns or better. For temperatures below 40°F, air must be dry to prevent formation of ice. Refer to the Maintenance section of this catalog for recommended lubricants.		

Model Numbers

Series	Body Type	Port Size	Function	Body Design	Operator 1	Center Operator	Operator 2	Voltage ³	Options *
L07	0 Inline, Manifold	2 1/8 3 1/4	A 4 Way 2 Position	A Single	A Air Pilot	D 3 Pos'n Spring	A Air Pilot	-AA 110/50, 120/60	A Fluoroelastomer Seals
			B 4 Way 2 Position ¹	B Double	F Hand Lever - Line		C 3 Position Spring Manual	-AB 220/50, 240/60, 125VDC	B External Pilot Connection
			C 4 Way 3 Position Block		G Hand Lever - Manifold		M 2 Position Detent Manual	-DA 22/50, 24/60, 12VDC	C Conduit Coil
			D 4 Way 3 Position Exhaust		I Palm Button		N 3 Position Detent Manual	-DB 24VDC	CT Conduit Coil High Temperature
			E 4 Way 3 Position Pressure		J Cam		R 2 Position Spring		D Dustproof
L20	0 Inline, Manifold	3 1/4 4 3/8			K Foot Pedal		V Intrinsically-Safe Solenoid ² (24VDC only)		G 18" Flying Leads
L65	0 Inline	6 3/4 7 1			L Foot Treadle		W Weather-Proof Solenoid		L Low Watt Coil (2.5 Watts)
					V Intrinsically-Safe Solenoid ² (24VDC only)				LL Lowest Watt Coil (0.7 Watts) with Type 2 override only
					W Weather-Proof Solenoid				S 303 Stainless Steel Body (L20 only)
									SS 316 Stainless Steel Body (L20 only)
									W G (BSPP) Threads
									Y Explosion-Proof Coil (CSA, FM)
									Z Explosion-Proof Coil (ATEX)
									1 Push Turn-Locking Override
									2 Extended Turn-Locking Override
									4 No Override

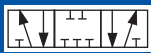
* Not all Options are available for all models. Refer to "Options" at the end of this Section for additional information.

¹ Use varies. Consult the Factory for details. ² Can not be used on a manifold. ³ Consult the Factory for additional voltages.

5/2



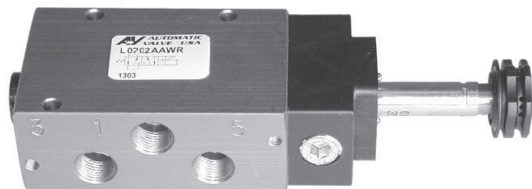
5/3



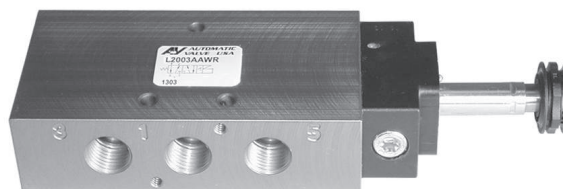
Compact Spool Valves Standard Solenoid



Single

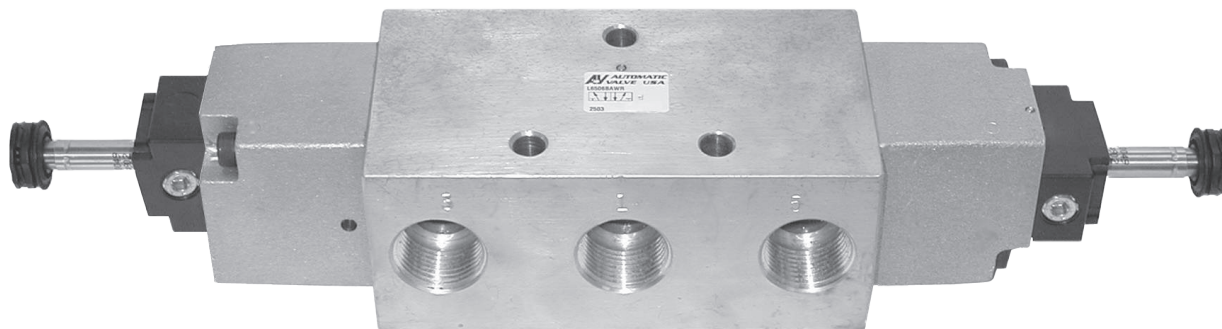


L0702AAWR



L2003AAWR

Double



L6506BBWW

Model Numbers

Series	Port Size		Flow l/min (Cv)		5/2		5/3			Body Material	Seal Material	Weight kg (lb)
					Single	Double	Block	Exhaust	Pressure			
	5/2	5/3	5/2		12 2 4 14 3 1 5	12 2 4 14 3 1 5	12 2 4 14 3 1 5	12 2 4 14 3 1 5	12 2 4 14 3 1 5			
L07	1/8		690 (0.7)	538 (0.5)	L0702AAWR-**	L0702ABWW-**	L0702CBWDW-**	L0702DBWDW-**	L0702EBWDW-**	Aluminum	NBR	0,3 (0,6)
	1/4 (1,2,4)	1/8 (3,5)			L0703AAWR-**	L0703ABWW-**	L0703CBWDW-**	L0703DBWDW-**	L0703EBWDW-**			
L20	1/4		1770 (1.8)	1381 (1.4)	L2003AAWR-**	L2003ABWW-**	L2003CBWDW-**	L2003DBWDW-**	L2003EBWDW-**	Aluminum ¹	NBR	0,5 (0,9)
	3/8				L2004AAWR-**	L2004AAWW-**	L2004CBWDW-**	L2004DBWDW-**	L2004EBWDW-**			
L65	3/4		8860 (9.0)	6911 (7.0)	L6506BAWR-**	L6506BBWW-**	L6506CBWDW-**	L6506DBWDW-**	L6506EBWDW-**	Aluminum	NBR	1,86 (4.1)
	1 (1,2,4)	3/4 (3,5)			L6507BAWR-**	L6507BBWW-**	L6507CBWDW-**	L6507DBWDW-**	L6507EBWDW-**			

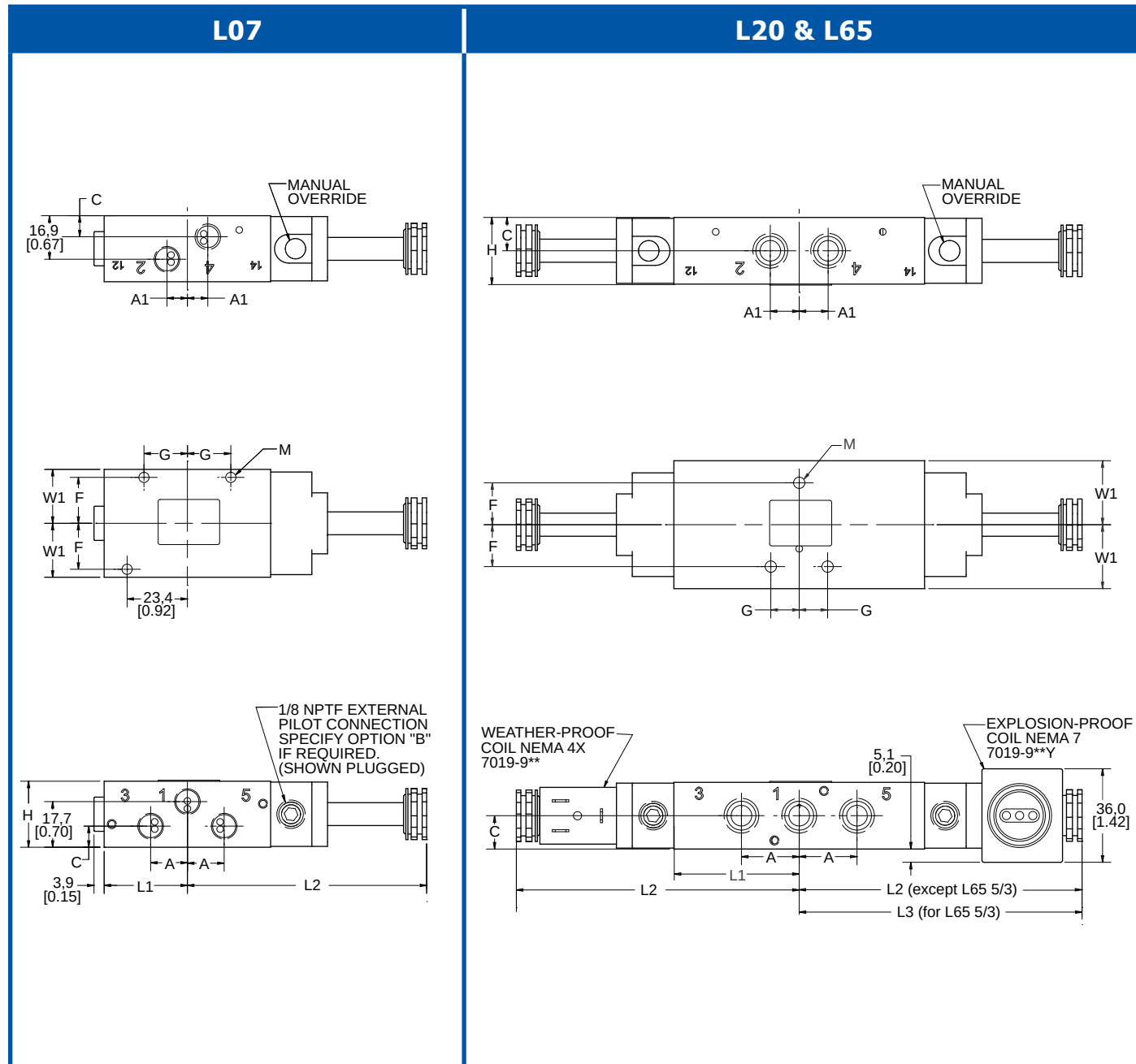
** = Coil Voltage Code. Coils also sold separately. Refer to "Electrical Information" at the end of this Section for additional information.

¹Body Available in 303 or 316 Stainless Steel (L20 only). Refer to "Options" at the end of this Section for additional information.

Compact Spool Valves Standard Solenoid

5/2 
5/3 

Dimensional Information



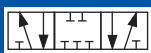
Series	A	A1	C	F	G	H	L1	L2	L3	M	W1
L07	14,3 0.56	7,9 0.31	7,9 0.31	18,3 0.72	16,9 0.66	25,4 1.00	32,3 1.27	92,7 3.65	-	4,0 0.16	21,0 0.83
L20	22,2 0.88	11,1 0.44	12,7 0.50	16,1 0.64	10,9 0.43	25,4 1.00	48,2 1.90	109 4.28	-	4,4 0.17	24,6 0.97
L65	50,8 2.00	25,4 1.00	28,6 1.12	23,4 0.92	25,4 1.00	57,2 2.25	117 4.61	175 6.88	219 8.63	9,14 0.35	36,5 1.44

Units of Measure: Top - mm, Bottom - inches

5/2



5/3



Compact Spool Valves

Air Pilot



Single



L0702AAAR



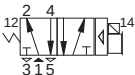
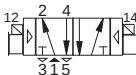
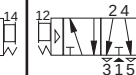
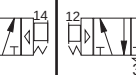
L2003AAAR

Double



L6506BBAA

Model Numbers

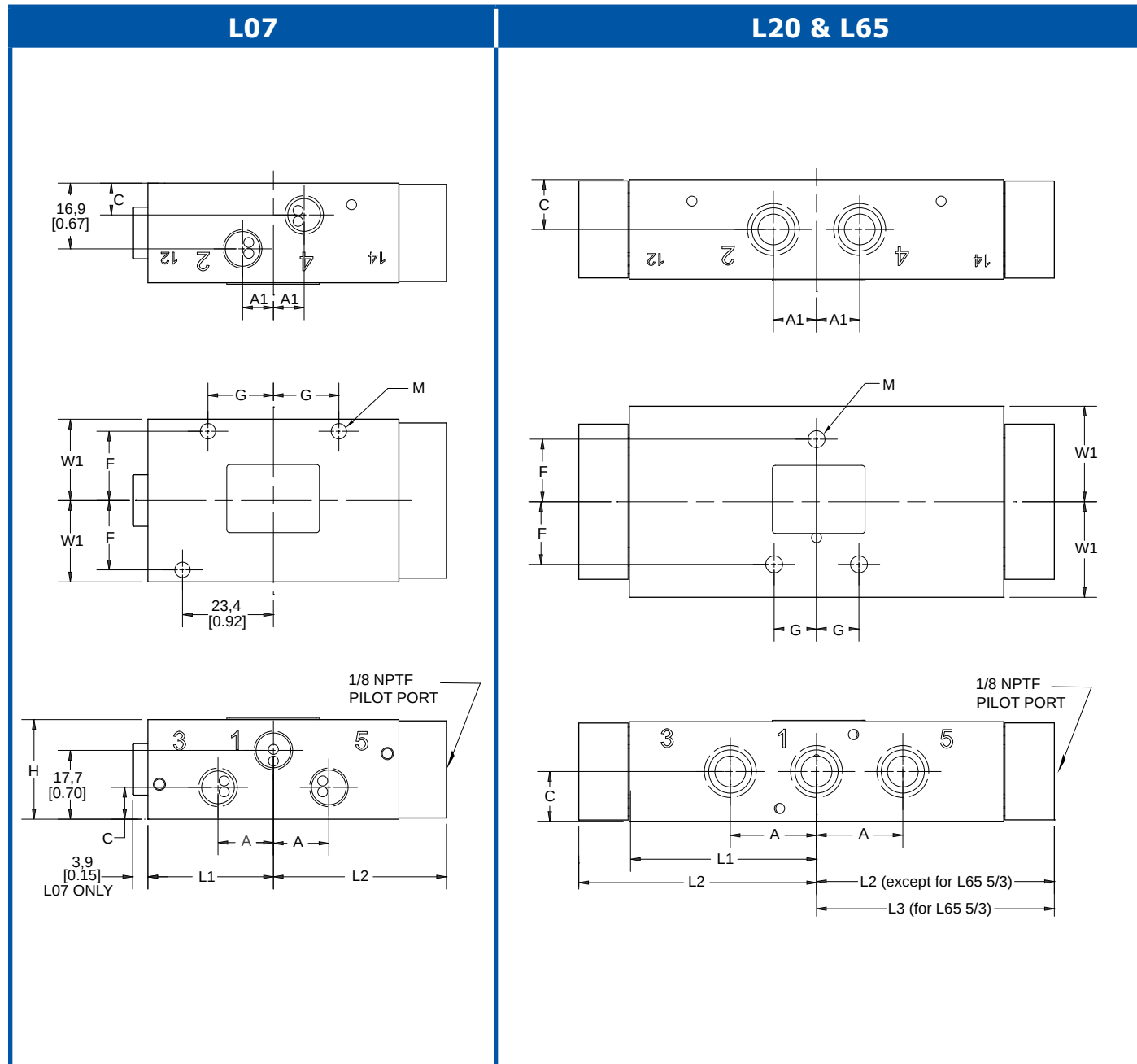
Series	Port Size		Flow l/min (C _v)		5/2		5/3			Body Materials	Seal Materials	Wt kg (lb)
					Single	Double	Block	Exhaust	Pressure			
	5/2	5/3										
L07	1/8		690 (0.7)	538 (0.5)	L0702AAAR	L0702ABAA	L0702CBADA	L0702DBADA	L0702EBADA	Aluminum	NBR	0,3 (0.6)
	1/4 (1,2,4)	1/8 (3,5)			L0703AAAR	L0703ABAA	L0703CBADA	L0703DBADA	L0703EBADA			
L20	1/4		1770 (1.8)	1381 (1.4)	L2003AAAR	L2003ABAA	L2003CBADA	L2003DBADA	L2003EBADA	Aluminum	NBR	0,5 (0.9)
	3/8				L2004AAAR	L2004ABAA	L2004CBADA	L2004DBADA	L2004EBADA			
L65	3/4		8860 (9.0)	6911 (7.0)	L6506BAAR	L6506BBAA	L6506CBADA	L6506DBADA	L6506EBADA	Aluminum	NBR	1,86 (4.1)
	1 (1,2,4)	3/4 (3,5)	9350 (9.5)	7293 (7.4)	L6507BAAR	L6507BBAA	L6507CBADA	L6507DBADA	L6507EBADA			

Compact Spool Valves

Air Pilot

5/2 
5/3 

Dimensional Information



Series	A	A1	C	F	G	H	L1	L2	L3	M	W1
L07	14,3 0.56	7,9 0.31	7,9 0.31	18,3 0.72	16,9 0.66	25,4 1.00	32,3 1.27	45,0 1.77	-	4,0 0.16	21,0 0.83
L20	22,2 0.88	11,1 0.44	12,7 0.50	16,1 0.64	10,9 0.43	25,4 1.00	48,2 1.90	61,0 2.40	-	4,4 0.17	24,6 0.97
L65	50,8 2.00	25,4 1.00	28,6 1.12	23,4 0.92	25,4 1.00	57,2 2.25	115,9 4.56	129 6.81	217 8.56	9,14 0.35	36,5 1.44

Units of Measure: Top - mm, Bottom - inches

5/2



Compact Spool Valves

Manual & Mechanical



A

Foot Pedal



L2003AAKR

Foot Treadle

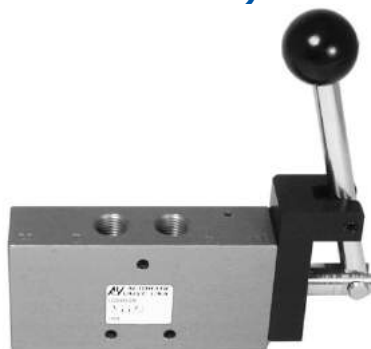


L2003BALM

Palm Button



L2004AAIR

Hand Lever,
(Manifold Mounted)

L2003BAGM

Cam Roller



L2003AAJR

Model Numbers

Series	Port Size	Flow (5/2) l/min (Cv)	Operator	5/2		Material		Wt kg (lb)	
				Detented	Spring Return	Body	Seal		
L20	1/4	1770 (1.8)	Foot Pedal	-	L2003AAKR	Aluminum	NBR	0,7 (1.1)	
			Foot Treadle	L2003BALM	L2003AALR				
			Hand Lever Line Mounted	L2003BAFM	L2003AAFR				
			Hand Lever Manifold Mounted	L2003BAGM	L2003AAGR			0,41 (0.9)	
			Palm Button	L2003BAIM	L2003AAIR				
			Cam Roller	-	L2003AAJR				0,3 (0.7)
	3/8	1770 (1.8)	Foot Pedal	-	L2004AAKR	Aluminum	NBR	0,7 (1.1)	
			Foot Treadle	L2004BALM	L2004AALR				
			Hand Lever Line Mounted	L2004BAFM	L2004AAFR				
			Hand Lever Manifold Mounted	L2004BAGM	L2004AAGR			0,41 (0.9)	
			Palm Button	L2004BAIM	L2004AAIR				
			Cam Roller	-	L2004AAJR				0,3 (0.7)

Foot Treadle



L2003DALN

Hand Lever (Line Mounted)

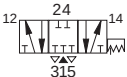


L2003EBFC

Palm Button

Not currently available

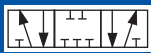
Model Numbers

Series	Port Size	Flow (5/3) 1/min (Cv)	Operator	5/3						Body Material	Seal Material	Weight kg (lb)
				Detented			Spring Center					
				Block	Exhaust	Pressure	Block	Exhaust	Pressure			
												
L20	1/4	1381 (1.4)	Foot Treadle	L2003CALN	L2003DALN	L2003EALN	L2003CBLC	L2003DBLC	L2003EBLC	Aluminum	NBR	0,7 (1.5)
			Hand Lever Line Mounted	L2003CAFN	L2003DAFN	L2003EAFN	L2003CBFC	L2003DBFC	L2003EBFC			
			Hand Lever Manifold Mounted	L2003CAGN	L2003DAGN	L2003EAGN	L2003CBGC	L2003DBGC	L2003EBGC			
			Palm Button	-	-	-	-	-	-			
	3/8		Foot Treadle	L2004CALN	L2004DALN	L2004EALN	L2004CBLC	L2004DBLC	L2004EBLC	Aluminum	NBR	0,7 (1.5)
			Hand Lever Line Mounted	L2004CAFN	L2004DAFN	L2004EAFN	L2004CBFC	L2004DBFC	L2004EBFC			
			Hand Lever Manifold Mounted	L2004CAGN	L2004DAGN	L2004EAGN	L2004CBGC	L2004DBGC	L2004EBGC			
			Palm Button	-	-	-	-	-	-			

5/2



5/3



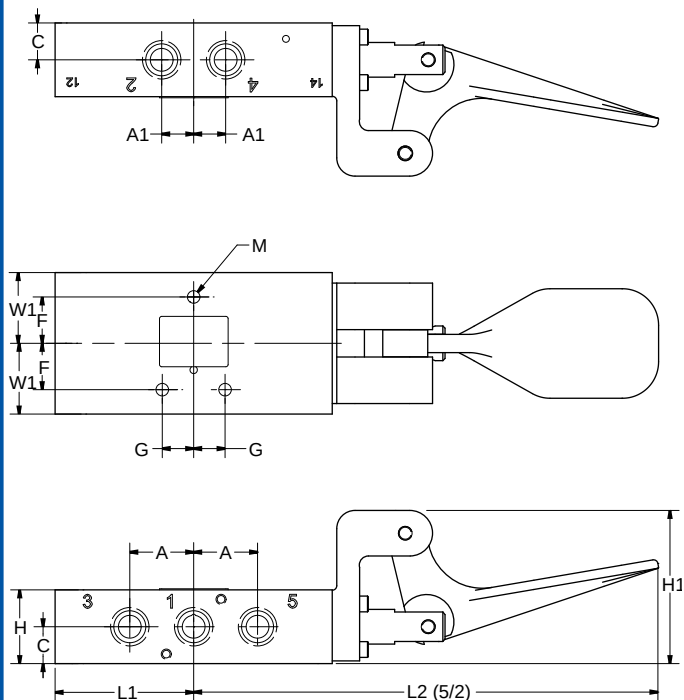
Compact Spool Valves

Manual & Mechanical

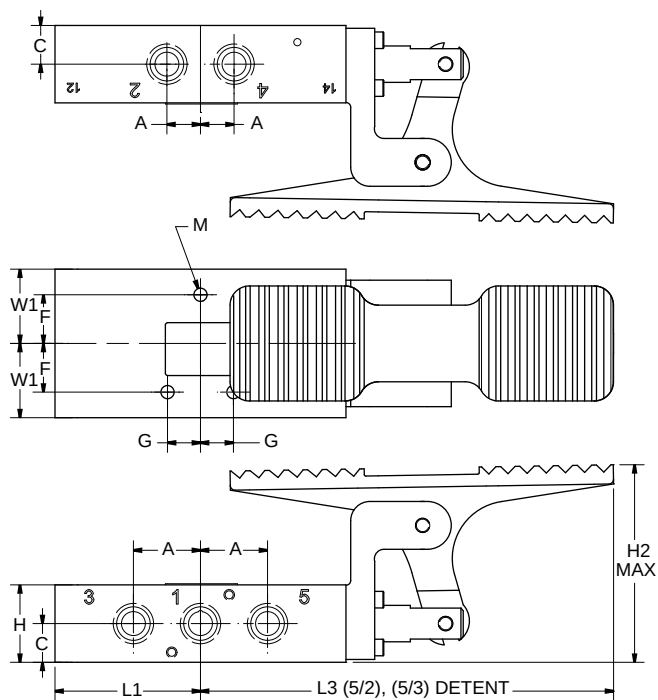


Dimensional Information

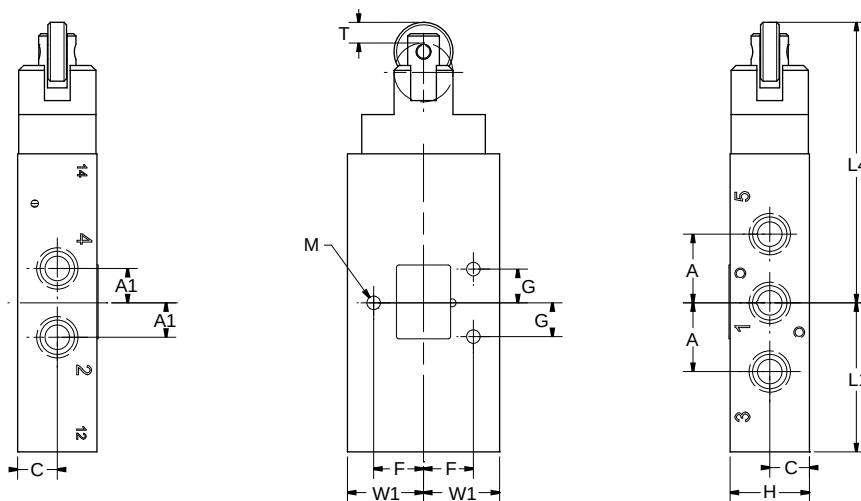
Foot Pedal



Foot Treadle



Cam Roller



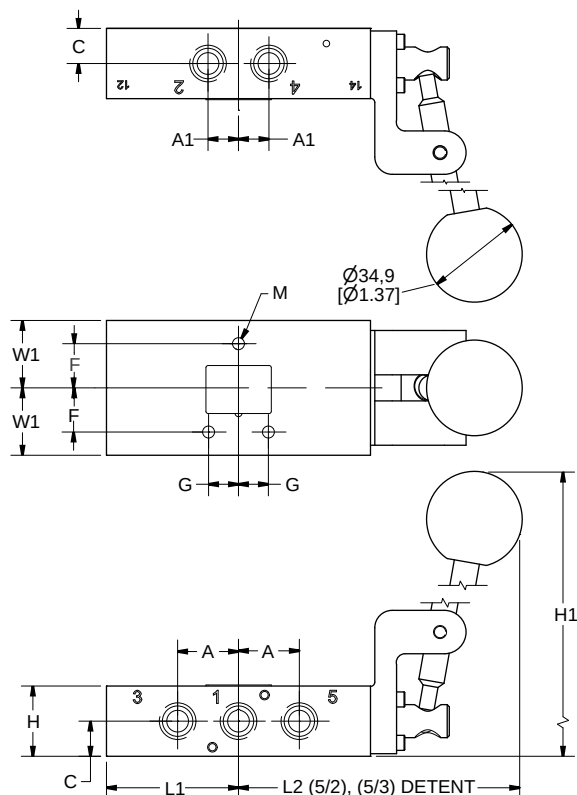
Series	A	A1	C	F	G	H	H1	H2	L1	L4	M	T	W1
L20	22,2 0.88	11,1 0.44	12,7 0.50	16,1 0.64	10,9 0.43	25,4 1.00	52,4 2.06	85,7 3.38	48,2 1.90	90,4 3.56	4,4 0.17	7,6 0.30	24,6 0.97

Units of Measure: Top - mm, Bottom - inches

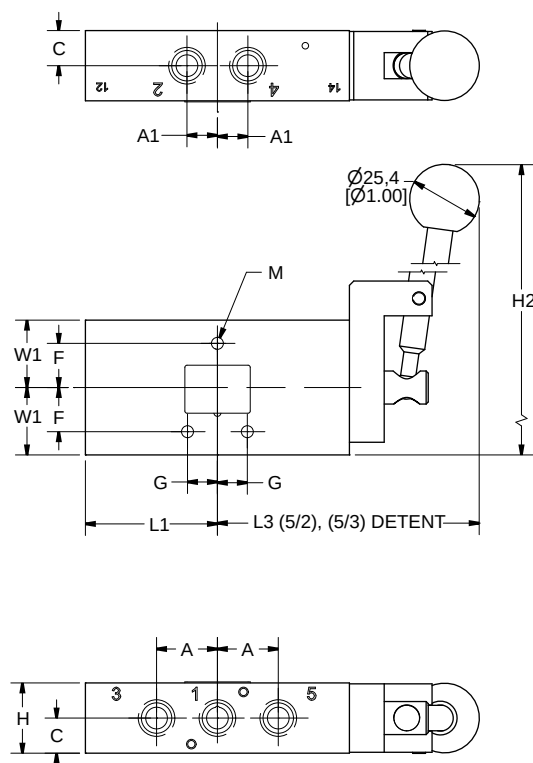
Dimensional Information

Hand Lever

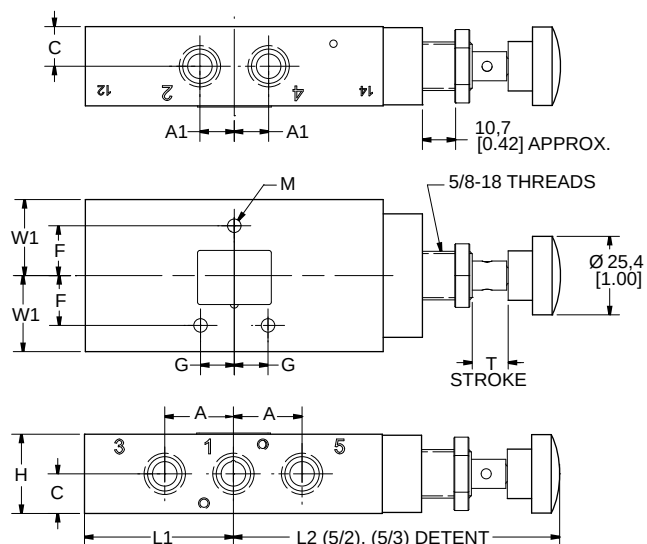
Line Mounted



Manifold Mounted



Palm Button



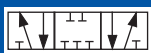
Series	A	A1	C	F	G	H	H1	H2	L1	L2	L3	M	T	W1
L20	22,2 0.88	11,1 0.44	12,7 0.50	16,1 0.64	10,9 0.43	25,4 1.00	136 5.35	140 5.50	48,2 1.90	105 4.14	105 4.14	4,4 0.17	9,5 0.38	24,6 0.97

Units of Measure: Top - mm, Bottom - inches

5/2



5/3



Compact Spool Valves Manifolds

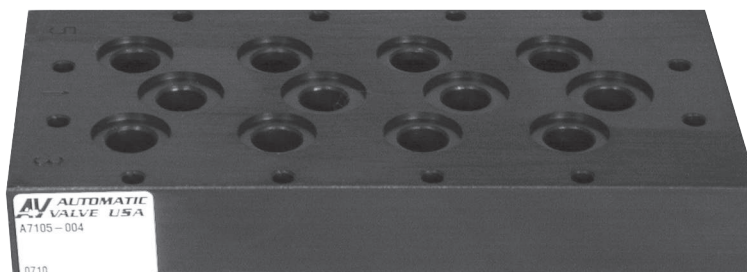


A

Features

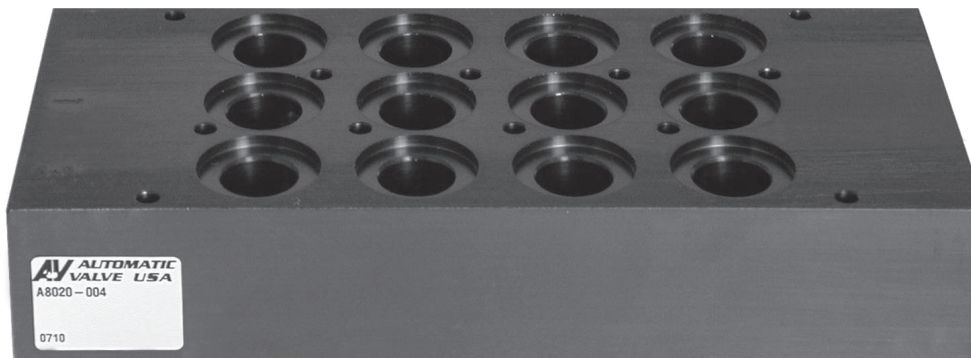
- Common inlet and common exhaust ports.
- Top cylinder ports.
- Valve mounting screws attached from bottom.
- Seals and mounting hardware included.

L07



A7105-004

L20



A8020-004

Model Numbers

Series	Manifold*				Accessories	
	No. of Stations	Model Number	Ports 3, 1 & 5	Weight kg (lb)	Blocking Disk	Blank Station Cover
L07	2	A7105-002	1/4	0,2 (0.5)	A7105-202	7105-606
	4	A7105-004		0,36 (0.8)		
	6	A7105-006		0,5 (1.2)		
	8	A7105-008		0,7 (1.6)		
	10	A7105-010		0,9 (2.0)		
L20	2	A8020-002	3/8	0,42 (0.9)	A8020-202	8020-606
	4	A8020-004		0,6 (1.3)		
	6	A8020-006		0,8 (1.7)		
	8	A8020-008		1,0 (2.2)		
	10	A8020-010		1,19 (2.7)		

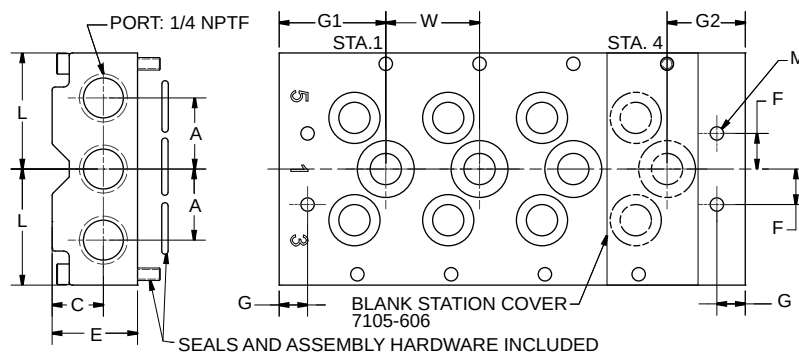
*Seals and Mounting Hardware included.

Compact Spool Valves Manifolds

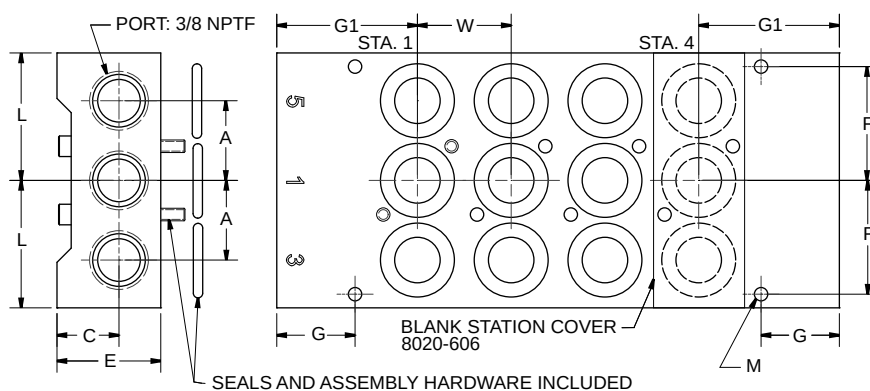
5/2 
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Dimensional Information

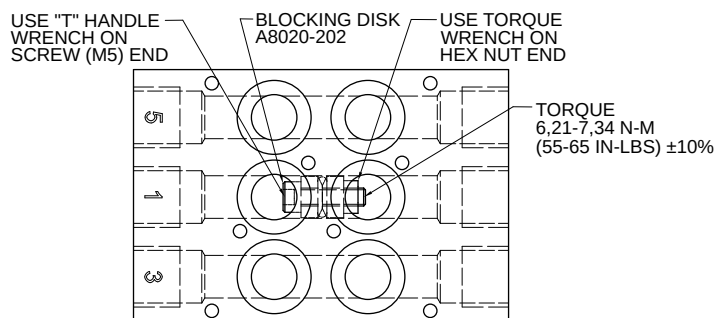
L07 Manifold



L20 Manifold



Blocking Disk



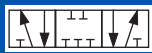
Series	Port Size	A	C	E	F	G	G1	G2	L	M	W
L07	1/4	19,8 0.78	14,3 0.56	23,8 0.94	9,9 0.39	7,9 0.31	29,7 1.17	22,2 0.86	32,4 1.28	3,7 0.15	26,2 1.03
L20	3/8	22,2 0.88	17,3 0.68	31,8 1.25	31,8 1.25	21,8 0.86	39,3 1.55	-	35,6 1.40	3,7 0.15	26,2 1.03

Units of Measure: Top - mm, Bottom - inches

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Compact Spool Valves Configuration Example



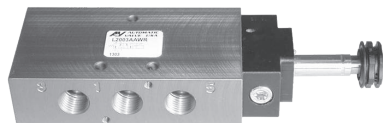
Valve With W-Solenoid Cap

+

Coil

=

Valve With Coil



L2003AAWR

+



NEMA 4x with DIN
43650 Form B
Connection
7019-9**

=



L2003AAWR-**



L2003AAWR

+



NEMA 4x with
18" Leads
7019-9**G

=



L2003AAWR-**G



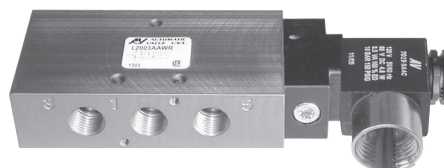
L2003AAWR

+

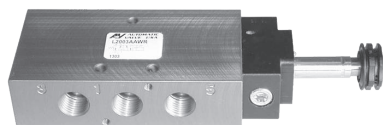


NEMA 4x 1/2" Conduit
with 30" Leads
7019-9**C

=



L2003AAWR-**C



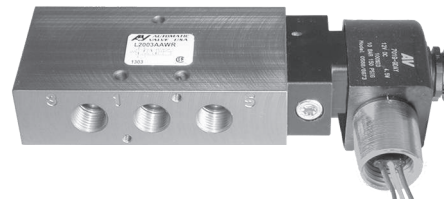
L2003AAWR

+

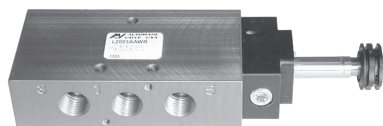


Explosion-Proof 1/2"
Conduit with 24" Leads
7019-9**Y

=



L2003AAWR-**Y



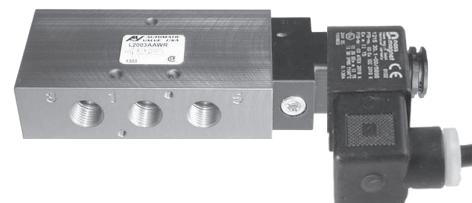
L2003AAWR

+



ATEX Explosion-Proof
with 39" Cable
7152-9**

=

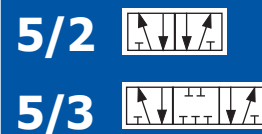


L2003AAWR-**Z



Compact Spool Valves

Electrical Information



Compact Spool Valves

A

Part Numbers

Description		Operator Type	Instructions	Wt. Kg(lb)	Coil Part Number ** = Voltage
Weather-Proof DIN 43650 Industrial Form B Connection NEMA 4X		W	Order coil separately (specify voltage code from below)	0,05 (0.12)	7019-9**
Weather-Proof 18" Leads NEMA 4X		W	Order coil separately (specify voltage code from below)	0,05 (0.12)	7019-9**G
Weather-Proof 1/2" Conduit with 30" Leads NEMA 4X		W	Order coil separately (specify voltage code from below)	0,05 (0.12)	7019-9**C 7019-9**CT (high temp 82°C max)
Explosion-Proof 1/2" Conduit with 24" Leads CSA & FM Approved CL. I; Zone1 Exm IIT4; AExm II CL. I; Div.1; GR. A, B, C, D CL. II; GR. E, F, G CL. III T4 Ta=-20°C to +60°C NEMA 4, 4X, 7C, 7D, 9		W	Order coil separately (specify voltage code from below)	0,20 (0.44)	7019-9**Y
Intrinsically-Safe Strain Relief Ex ia CL. I; GR. A, B, C, D CL. II; GR. E, F, G CL. III; Div.1; T5		V	Coil and Connector included with valve (24VDC only)	0,21 (0.46)	A7106-374-DB
A7106-374 Must be Used with an Intrinsically-Safe Barrier For more information refer to "Intrinsic Safety" insert on Page D7.					
Explosion-Proof 3m Cable & Strain Relief Ex m II T5 PTB 03 ATEX2018 X Ex II 2 G EEx m II T5 Ex II 2 D IP65 T95°C		Z	Order coil separately (specify voltage code from below)	0,36 (0.78)	7152-9**

Voltage Codes (Lower wattage options available, consult factory)

** Code	Voltage +/- 10%		Current (Amps)								Resistance (OHMS @ 25°C)				Power (AC=VA, DC=Watts)			
			Inrush				Holding											
	Operator Type:		W		V		Z		W		V		Z		W		V	
	NEMA 4	NEMA 7,9 & ATEX	NEMA	ATEX	NEMA	ATEX	NEMA	ATEX	NEMA	ATEX	NEMA	ATEX	NEMA	ATEX	NEMA	ATEX	NEMA	ATEX
			4, 4x	7, 9	Exia	Exm	4, 4x	7, 9	Exia	Exm	4, 4x	7, 9	Exia	Exm	4, 4x	7, 9	Exia	Exm
DA	24/50 24/60	-	.36	-	-	-	.24	-	-	-	32	-	-	-	6.9	-	-	-
AA	120/50 120/60	120/60	.08	.10	-	.04	.05	.05	-	.03	840	530	-	1664	6.9	6.5	-	3.4
AB	230/50 230/60	240/60	.04	.05	-	.02	.03	.03	-	.01	3310	2345	-	6730	6.4	6.8	-	3.3
DA	12 VDC	12VDC	.38	.38	-	.27	.38	.38	-	.27	32	32	-	45	4.8	4.5	-	3.5
DB	24 VDC	24VDC	.20	.19	.05	.14	.20	.19	.05	.14	121	128	275	177	4.8	4.5	1.6	3.5
AB	125 VDC	-	.04	-	-	-	.04	-	-	-	3310	-	-	-	5.9	-	-	-

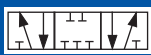
Connectors (Not polarity dependent)

DIN 43650 Industrial Form B							
	Maximum Cable Diameter: 9mm (0.35")						
Type	Strain Relief without Cord	Strain Relief with Light		1/2" Conduit without Cord	Molded with 6' Cord	Strain Relief with Light & 6' Cord	
		100-240 AC 48-120 DC	6-48 AC/DC			100-240 AC 48-120 DC	6-48 AC/DC
Part Number	7020-001	7020-AA	7020-DB	7039-001	7020-006	7094-006	7094-007

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Compact Spool Valves

Options & Accessories



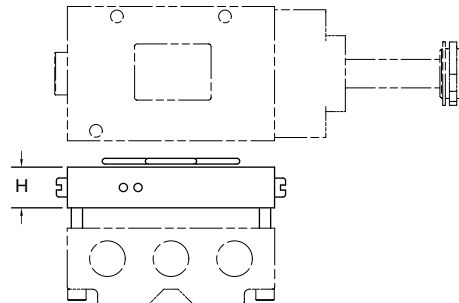
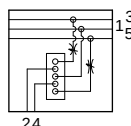
Options (Add the suffix to the end of the Model Number in alpha-numeric order)

Suffix	Option	Description
A	Fluoroelastomer Seals	For applications where fluid media or ambient conditions are not compatible with nitrile seals. <i>Note: Fluorocarbon seals do not increase the effective temperature range of the valve.</i> <i>For high temperature applications, consult the factory.</i>
B	External Pilot	For solenoid applications where the pressure to port one is less than 2 BAR (35 PSIG). See example below for field conversion. Field Conversion - Remove solenoid and cap from the valve body. - Rotate the gasket 180° so that the internal pilot hole in the valve body is covered by the gasket. - Refasten the gasket, cap and solenoid to the valve body. Make sure the gasket completely covers the internal pilot hole before tightening the M3 screws. Torque to 1,02 N-m (9 in-lbs) ±10%. - Remove the 1/8 NPTF pipe plug from the cap and make the external pilot connection.
C	Conduit Coil	Refer to the "Electrical Information" page in this section for details.
CT	Conduit Coil High Temperature	Refer to the "Electrical Information" page in this section for details.
D	Dustproof	For applications in extremely dusty and contaminated environments. Vent ports are plugged and spring pad breather vent is eliminated.
G	Coil With 18" Leads	Refer to the "Electrical Information" page in this section for details.
L	Low Watt Coil	Power Consumption = 2.5 Watts. Standard as Push Non-Locking Override.
LL	Lowest Watt Coil	Power Consumption = 0.7 Watts. Standard as Extended Turn-Locking Override.
S	303 Stainless Steel	303 Stainless Steel body, all other external parts are corrosion resistant; for corrosive environment applications. (L20 only)
SS	316 Stainless Steel	316 Stainless Steel body, all other external parts are corrosion resistant; for corrosive environment applications. (L20 only)
W	G Threads	All ports tapped to metric "G" standard (for 3/8", 3/4", 1"). Not required for 1/8" or 1/4" ports, which use a universal G/NPT tap.
Y	Explosion-Proof Coil (CSA, FM)	Refer to the "Electrical Information" page in this section for details.
Z	Explosion-Proof Coil (Atex, PTB)	Refer to the "Electrical Information" page in this section for details.
1	Push Turn-Locking Override	Solenoid cap provides an override that is pushed in and turned to actuate & lock in the "on" position.
2	Extended Turn-Locking Override	Solenoid cap provides an extended override that is turned to lock in the "on" position.
4	No Override	Solenoid cap does not provide a manual override.

Accessories

Interposed Flow Control

- Restricts air flow from port 2 to port 3 and from port 4 to port 5.
- Mounts between the valve and the manifold.



Series	Model Number	Dimension H	Weight Kg (lb)
L07	B7106-005	12,7 0.50	0,06 (0.14)
L20	B8022-005	12,7 0.50	0,09 (0.19)

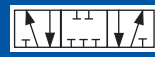
Compact Spool Valves

Service Information

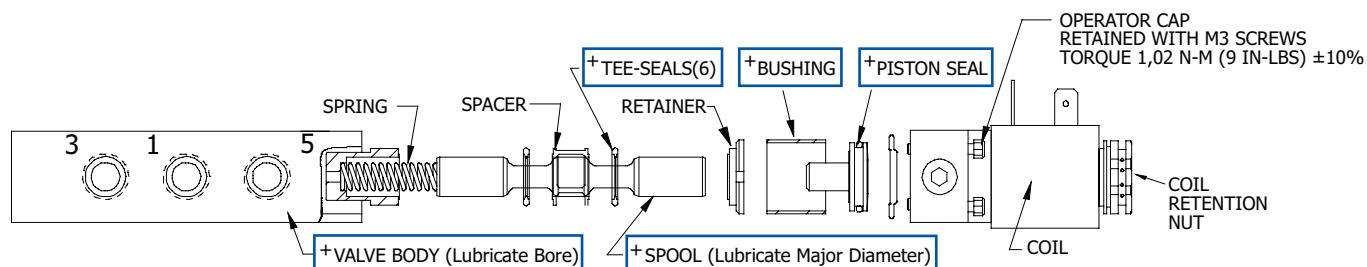
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Valve must be disconnected from all air and electrical power sources before disassembly.



Shown: L20 Single 2 Position Valve

+ = Items that Must Be Lubricated

Service Kit Installation Instructions

- Follow appropriate lock-out/tag-out procedures. Do not attempt to service a valve, if you are not familiar with lock-out/tag-out procedures.
- Turn off electrical power to the valve.
- Remove valve from all electrical and air power sources.
- Ensure all stored air power is exhausted.
- Remove coil by first removing the coil retention nut.
- Remove the operator cap by first removing the 4 socket head cap screws.
- Remove existing serviceable components by "pushing" internal components gently out of the valve body.
- Clean the spool with a clean cloth.
- Discard the spring (Single Spring Return models only).
- Lubricate the designated **+** items in the above assembly drawing with a thin film of lubricant - the item should look "WET" with no excess lubricant visible.
- Replace components as shown above.
 - Replace spring pad and spring (Single Spring Return models only).
 - Alternate Tee-seals and spacers.
 - Once all 6 Tee-seals are installed, replace the retainer, bushing and piston.
- Orientate the operator cap by aligning the open end of the gasket with the pilot hole in the valve body.
- Torque cap screws into body to 1,02 N-m (9 in-lbs) ±10%. Alternate tightening of the screws, so cap "squeezes" evenly onto the body.

Air Line Lubrication of Automatic Valve products is not required, but is recommended to maximize service life. Oils should be compatible with seal material, have an ISO 32 or lighter viscosity, and have an aniline point between 82°C (180°F) and 99°C (210°F). Refer to the Maintenance Section of this catalog for recommended lubricants.

Model Numbers: Service Kits

Series	Body Style		
	Description	Model Number	Contents
L07	Single	K-L07-SGL K-L07-SGL-A (Fluoroelastomer)	Tee-Seals (6), Piston Seal (1), Spring (1), Lubricant
	Double	K-L07-DBL K-L07-DBL-A (Fluoroelastomer)	Tee-Seals (6), Piston Seals (2), Lubricant
L20	Single	K-L20-SGL K-L20-SGL-A (Fluoroelastomer)	Tee-Seals (6), Piston Seal (1), Spring (1), Lubricant
	Double	K-L20-DBL K-L20-DBL-A (Fluoroelastomer)	Tee-Seals (6), Piston Seals (2), Lubricant
L65	Single	K-L65-SGL K-L65-SGL-A (Fluoroelastomer)	Tee-Seals (6), Piston Seal (1), Spring (1), Lubricant
	Double	K-L65-DBL K-L65-DBL-A (Fluoroelastomer)	Tee-Seals (6), Piston Seals (2), Lubricant