3/8", 1/2", 3/4 NPT Ports, Nominal Cv = 4.8

Single Solenoid

Double Solenoid

Application

These valves may be used to actuate a double acting cylinder. A maintained electrical signal shifts the valve. When this signal is removed the valve returns to its normal condition. For alternate flow path usages, such as dual pressure service, see *Optional Functions* page.

Mounting

These valves are designed for subbase or modular manifold mountings. Electrical connection from valve to base is automatic. Air & electrical connections remain undisturbed if valve is removed. Order from chart below.

Operation: Pressure Service

De-energized (normal condition) – Pressure at Port P is connected to "Cylinder" Port A. "Cylinder" Port B is connected to "Exhaust" Port EB.

Energized (maintained signal applied) – Pressure at Port P is connected to "Cylinder" Port B, "Cylinder" Port A is connected to "Exhaust" Port EA.

Application

These valves may be used to actuate double acting cylinders. A "momentary" electrical signal (exceeding .03 seconds) applied to one of the solenoids shifts the valve. It will remain in this position until a "momentary" signal is applied to the other solenoid. For alternative flow path usages, such as dual pressure service, see *Optional Functions* page.

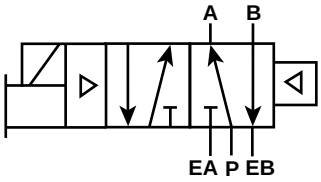
Mounting

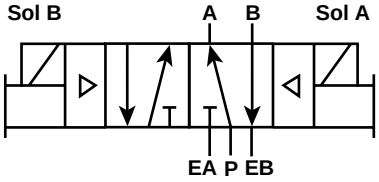
These valves are designed for subbase or manifold mountings. Electrical connection from valve to base is automatic. Air & electrical connections remain undisturbed if valve is removed. Axis of main valve spool to be in horizontal plane. Order from chart below.

Operation: Pressure Service

With solenoid "A" having been energized last – Pressure at Port P is connected to "Cylinder" Port A. "Cylinder" Port B is connected to "Exhaust" Port EB.

Energize solenoid "B" (momentary) – Pressure at Port P is connected to "Cylinder" Port B. "Cylinder" Port A is connected to "Exhaust" Port EA.





Model Selection

Valve Only		Voltage	Subbase (Side Ports)	Manifold ▲ (End & Bottom Ports)	Port Size (NPT)
Single Solenoid	Double Solenoid				
L675 39 102 53	L655 39 102 53	120V 60Hz 110V 50Hz	K022 090	K142 230	3/8"
			K022 091	K142 231	1/2"
L675 33 102 **	L655 33 102 **	Other	K022 101	K142 270	3/4"

See page 3 for variations and (**) voltage codes.

▲ - Manifolds include mounting hardware.

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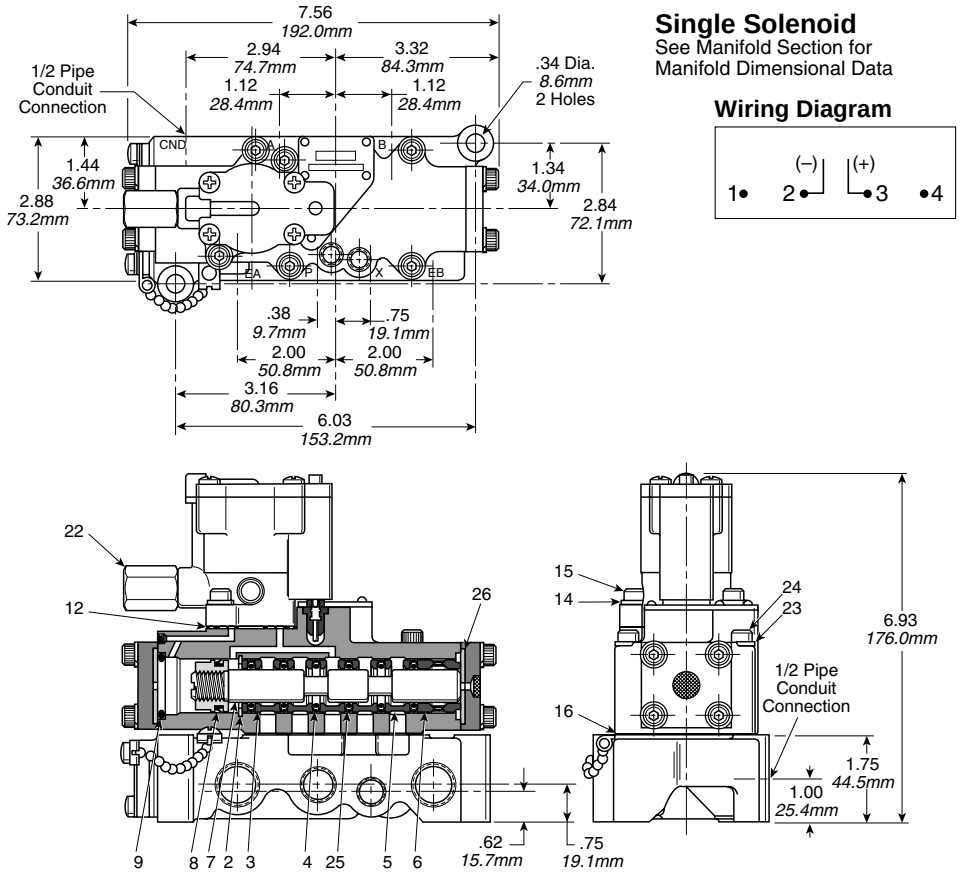


Single Solenoid

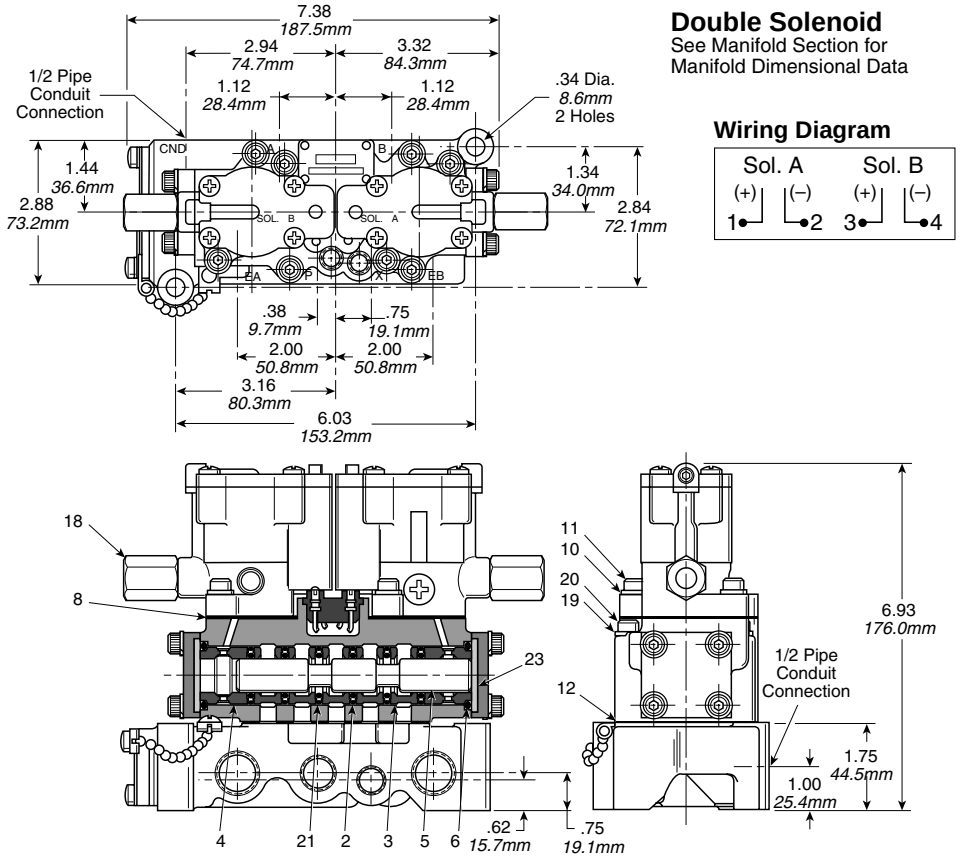
See Manifold Section for Manifold Dimensional Data

Wiring Diagram

Parts List

Item No.	Part No.	Description
2	H090 71	Retaining Ring
3	K463 015	Spacer
* 4	—	O-Ring (Dynamic)
5	K453 028	Spacer
6	K463 012	End Spacer
7	K232 020	Spool Assy.
* 8	—	Seal
* 9	—	Seal
*12	—	Gasket
14	H175 12	Lockwasher
15	H100 60	Cap Screw
*16	—	Gasket
22	K152 003	Override Assy.
23	H175 12	Lockwasher
24	H100 69	Cap Screw
*25	—	O-Ring (Static)
26	K983 002	Shock Pad

* Standard Service Kit: K352 124
* Special Service Kit: K352 125 (Continuous Duty)



Double Solenoid

See Manifold Section for Manifold Dimensional Data

Wiring Diagram

Parts List

Item No.	Part No.	Description
* 2	—	O-Ring (Dynamic)
3	K453 028	Spacer
4	K463 012	End Spacer
5	K343 094	Spool
* 6	—	Seal
* 8	—	Gasket
10	H175 12	Lockwasher
11	H100 60	Cap Screw
*12	—	Gasket
18	K152 003	Override Assy.
19	H175 12	Lockwasher
20	H100 69	Cap Screw
*21	—	O-Ring (Static)
23	K983 002	Shock Pad

* Standard Service Kit: K352 126
* Special Service Kit: K352 127 (Continuous Duty)

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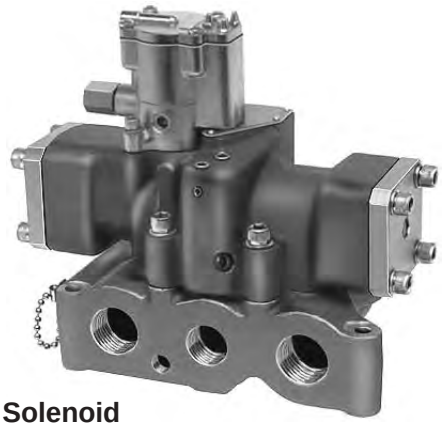
3/4", 1" & 1-1/4" NPT Ports, Nominal Cv = 11.3



Single Solenoid

Application

These valves may be used to actuate a double acting cylinder. A maintained electrical signal shifts the valve. When this signal is removed the valve returns to its normal condition. For alternate flow path usages, such as dual pressure service, see *Optional Functions* page.

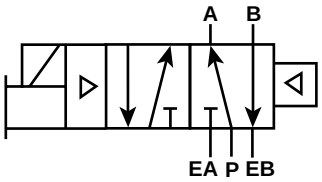
Mounting

These valves are designed for subbase or modular manifold mountings. Electrical connection from valve to base is automatic. Air & electrical connections remain undisturbed if valve is removed. Order from chart below.

Operation: Pressure Service

De-energized (normal condition) – Pressure at Port P is connected to "Cylinder" Port A. "Cylinder" Port B is connected to "Exhaust" Port EB.

Energized (maintained signal applied) – Pressure at Port P is connected to "Cylinder" Port B, "Cylinder" Port A is connected to "Exhaust" Port EA.



Double Solenoid

Application

These valves may be used to actuate double acting cylinders. A "momentary" electrical signal (exceeding .03 seconds) applied to one of the solenoids shifts the valve. It will remain in this position until a "momentary" signal is applied to the other solenoid. For alternative flow path usages, such as dual pressure service, see *Optional Functions* page.

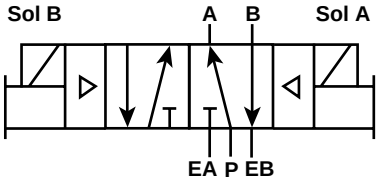
Mounting

These valves are designed for subbase or manifold mountings. Electrical connection from valve to base is automatic. Air & electrical connections remain undisturbed if valve is removed. Axis of main valve spool to be in horizontal plane. Order from chart below.

Operation: Pressure Service

With solenoid "A" having been energized last – Pressure at Port P is connected to "Cylinder" Port A. "Cylinder" Port B is connected to "Exhaust" Port EB.

Energize solenoid "B" (momentary) – Pressure at Port P is connected to "Cylinder" Port B. "Cylinder" Port A is connected to "Exhaust" Port EA.



Model Selection

Note: Shaded units are no longer available.

Valve Only		Voltage	Subbase (Side Ports)	Manifold ▲ (End & Bottom Ports)	Port Size (NPT)	Port Adapter (Manifolds)
Single Solenoid	Double Solenoid					
L675 89 102 53	L655 89 102 53	120V 60Hz 110V 50Hz	K022 094	K142 235	3/4"	K122 016 Kit Includes Both Ends
			K022 095	K142 236	1"	
L675 83 102 **	L655 83 102 **	Other	K022 096	K142 237	1-1/4"	

See page 3 for variations and (**) voltage codes.

▲ - Manifolds include mounting hardware, except for port adapters. See chart, order separately.

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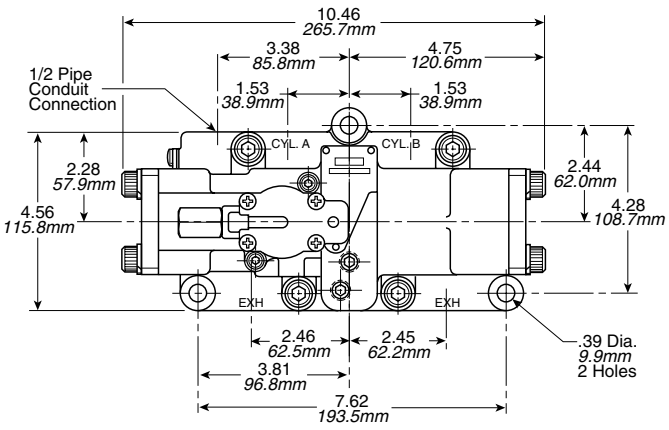
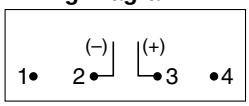
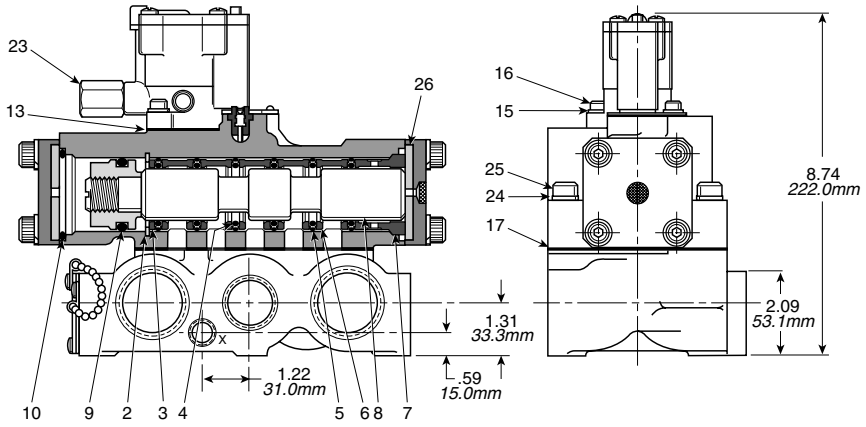


Single Solenoid

See Manifold Section for Manifold Dimensional Data

Wiring Diagram

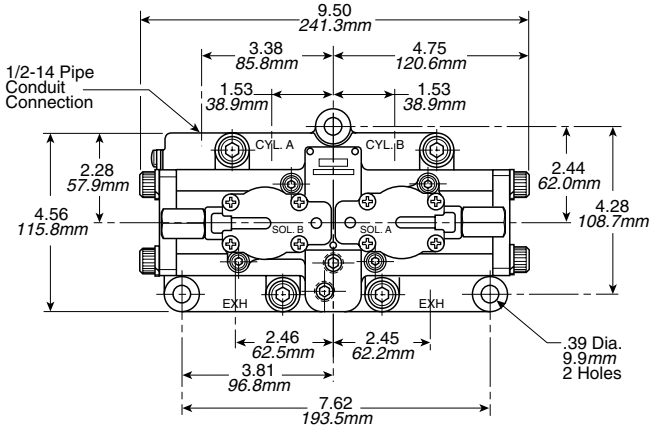




Parts List

Item No.	Part No.	Description
2	H090 09	Retaining Ring
3	K553 009	Spacer
* 4	—	O-Ring (Dynamic)
* 5	—	O-Ring (Static)
6	K453 009	Spacer
7	K463 005	End Spacer
8	K232 014	Spool Assy.
* 9	—	O-Ring
*10	—	Seal
*13	—	Gasket
15	H175 12	Lockwasher
16	H100 60	Cap Screw
*17	—	Gasket
23	K152 003	Override Assy.
24	H175 20	Lockwasher
25	H101 48	Cap Screw
26	K983 004	Shock Pad

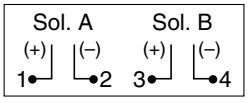
* Standard Service Kit: K352 128
* Special Service Kit: K352 129 (Continuous Duty)

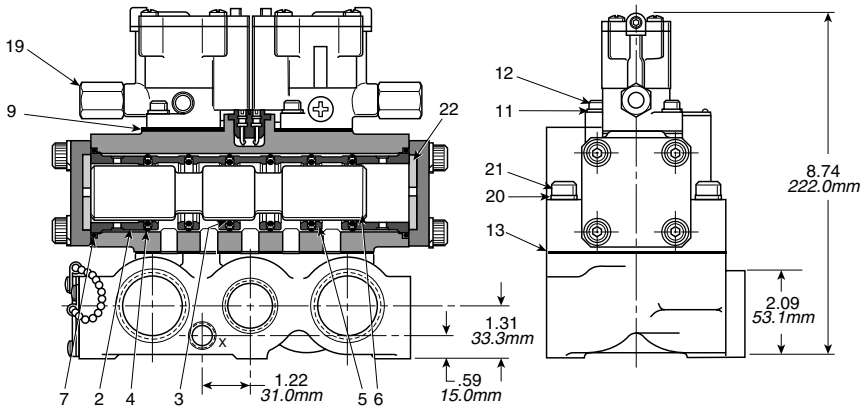


Double Solenoid

See Manifold Section for Manifold Dimensional Data

Wiring Diagram





Parts List

Item No.	Part No.	Description
2	K463 005	End Spacer
* 3	—	O-Ring (Dynamic)
* 4	—	O-Ring (Static)
5	K453 009	Spacer
6	K343 061	Spool
* 7	—	Seal
* 9	—	Gasket
11	H175 12	Lockwasher
12	H100 60	Cap Screw
*13	—	Gasket
19	K152 003	Override Assy.
20	H175 20	Lockwasher
21	H101 48	Cap Screw
22	K983 004	Shock Pad

* Standard Service Kit: K352 130
* Special Service Kit: K352 131 (Continuous Duty)

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3/8" Thru 3/4" NPT Ports, Nominal Cv = 4.8

Single Remote Air Pilot

Application

These valves may be used to activate double acting cylinders. A maintained pressure signal to the pilot cap activates the valve. When this signal is removed, the valve shifts. For alternate flow path usages, see *Optional Functions* page.

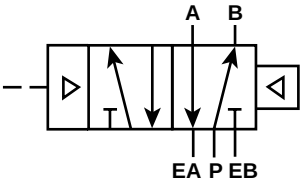
Mounting

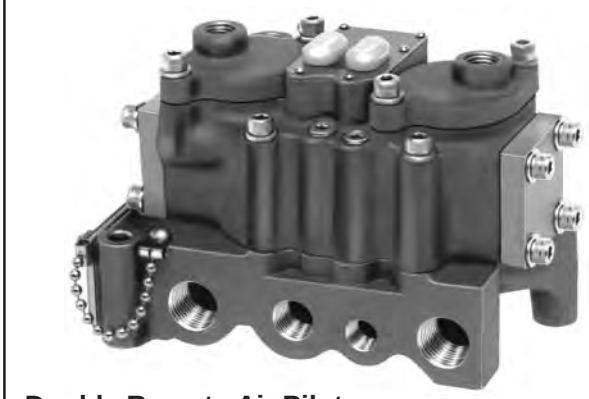
These valves are designed for subbase or modular manifold mountings. Order from chart below.

Operation: Pressure Service

Pressure to pilot cap – Port P is connected to "Cylinder" Port A. "Cylinder" Port B is connected to "Exhaust" Port EB.

When pressure to pilot is removed – Pressure at Port P is connected to "Cylinder" Port B. "Cylinder" Port A is connected to "Exhaust" Port EA.





Double Remote Air Pilot

Application

These valves may be used to activate double acting cylinders. A momentary pressure signal applied alternately to each of the pilot caps shifts the valve. For alternate flow path usages, see *Optional Functions* page.

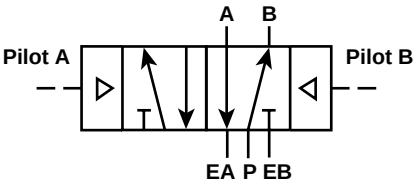
Mounting

These valves are designed for subbase or modular manifold mountings. Axis of main valve spool to be in horizontal plane. Order from chart below.

Operation: Pressure Service

Pilot "A" pressurized last – Pressure at Port P is connected to "Cylinder" Port B. "Cylinder" Port A is connected to "Exhaust" Port EA.

Pilot "B" pressurized last – Pressure at Port P is connected to "Cylinder" Port A. "Cylinder" Port B is connected to "Exhaust" Port EB.



Model Selection

Valve Only		Subbase (Side Ports)	Manifold ▲ (End & Bottom Ports)	Port Size (NPT)
Single Remote	Double Remote			
L674 31 102	L654 31 102	K022 090	K142 230	3/8"
		K022 091	K142 231	1/2"
		K022 101	K142 270	3/4"

▲ - Manifolds include mounting hardware.

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3/4" Thru 1-1/4" NPT Ports, Nominal Cv = 11.3

Single Remote Air Pilot

Application

These valves may be used to activate double acting cylinders. A maintained pressure signal to the pilot cap activates the valve. When this signal is removed, the valve shifts. For alternate flow path usages, see *Optional Functions* page.

Mounting

These valves are designed for subbase or modular manifold mountings. Order from chart below.

Operation: Pressure Service

Pressure to pilot cap – Port P is connected to "Cylinder" Port A. "Cylinder" Port B is connected to "Exhaust" Port EB.

When pressure to pilot is removed – Pressure at Port P is connected to "Cylinder" Port B. "Cylinder" Port A is connected to "Exhaust" Port EA.

Double Remote Air Pilot

Application

These valves may be used to activate double acting cylinders. A momentary pressure signal applied alternately to each of the pilot caps shifts the valve. For alternate flow path usages, see *Optional Functions* page.

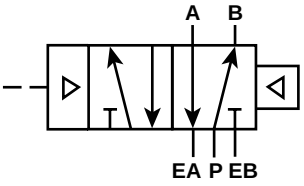
Mounting

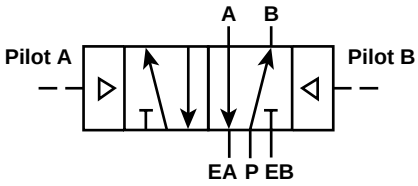
These valves are designed for subbase or modular manifold mountings. Axis of main valve spool to be in horizontal plane. Order from chart below.

Operation: Pressure Service

Pilot "A" pressurized last – Pressure at Port P is connected to "Cylinder" Port B. "Cylinder" Port A is connected to "Exhaust" Port EA.

Pilot "B" pressurized last – Pressure at Port P is connected to "Cylinder" Port A. "Cylinder" Port B is connected to "Exhaust" Port EB.





Model Selection

Note: Shaded units are no longer available.

Valve Only		Subbase (Side Ports)	Manifold ▲ (End & Bottom Ports)	Port Size (NPT)	Port Adapter
Single Solenoid	Double Solenoid				
L674 81 102	K654 81 102	K022 094	K142 235	3/4"	K122 016 Kit Includes Both Ends
		K022 095	K142 236	1"	
		K022 096	K142 237	1-1/4"	

▲ - Manifolds include mounting hardware, except for port adapters. See chart, order separately.

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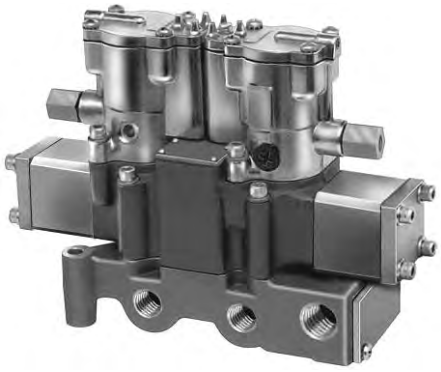
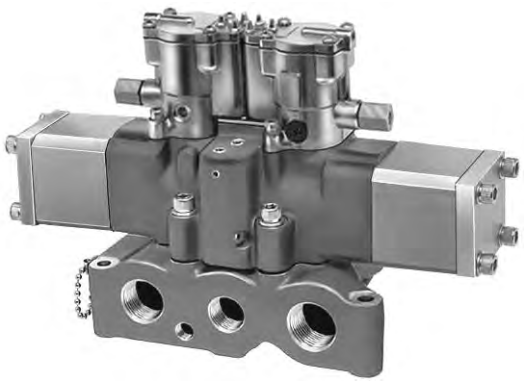
4-Way, 5-Port, 3-Position - 3/8" Thru 1-1/4" NPT Ports



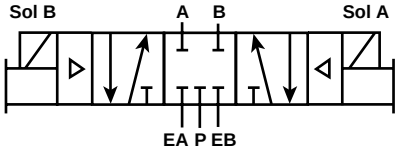
3/8" Basic, Nominal Cv = 4.8

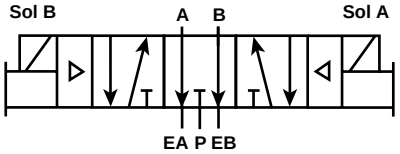


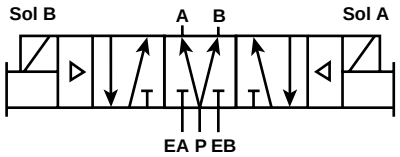
1" Basic, Nominal Cv = 11.3

Application

These valves may be used to actuate double acting cylinders, when "inching" or incremental rod movement is desired. A "momentary" (exceeding .03 seconds) or maintained electrical signal applied to one of the solenoids shifts the valve, the valve returns to the "neutral" condition when the electrical signal is removed. Valve may be applied for alternate service. For alternate flow path usages, see *Optional Functions* page.







Mounting

These valves are designed for subbase or modular manifold mountings. Electrical connection from valve to base is automatic. Air & electrical connections remain undisturbed if valve is removed. Order from chart below.

Operation: Pressure Service

Neutral "Class 21"
Both solenoids de-energized (Normal Condition) – All ports blocked.

Neutral "Class 22"
Both solenoids de-energized (Normal Condition) – "Cylinder" Port A is open to "Exhaust" Port EA, "Cylinder" Port B is open to "Exhaust" Port EB, "Pressure" Port P is blocked.

Neutral "Class 23"
Both solenoids de-energized (Normal Condition) – "Cylinder" Port A is open to Pressure Port P, "Cylinder" Port B is open to Pressure Port P. Both "Exhaust" Ports EA and EB are blocked.

Activated Operation
With solenoid "A" energized – Pressure at Port P flows to "Cylinder" Port A, "Cylinder" Port B is connected to "Exhaust" Port EB, regardless of neutral "class".

With solenoid "B" energized – Pressure at Port P flows to "Cylinder" Port B, "Cylinder" Port A is connected to "Exhaust" Port EA, regardless of neutral "class".

Model Selection (Neutral "Class 21" Shown)

Note: Shaded units are no longer available.

Valve Only	Voltage	Subbase (Side Ports)	Manifold ▲ (End & Bottom Ports)	Port Size (NPT)	Port Adapter
L665 39 211 53	120V 60Hz 110V 50Hz	K022 090	K142 230	3/8"	Not Req'd
		K022 091	K142 231	1/2"	
L665 33 211 **	Other	K022 101	K142 270	3/4"	
L665 89 211 53	120V 60Hz 110V 50Hz	K022 094	K142 235	3/4"	K122 016 Kit Includes Both Ends
		K022 095	K142 236	1"	
L665 83 211 **	Other	K022 096	K142 237	1-1/4"	

See page 5 for variations in class of neutral configuration and (**) voltage codes.

▲ - Manifolds include mounting hardware, except for port adapters. See chart, order separately.

4-Way, 5-Port, 3-Position - 3/8" Thru 1-1/4" NPT Ports

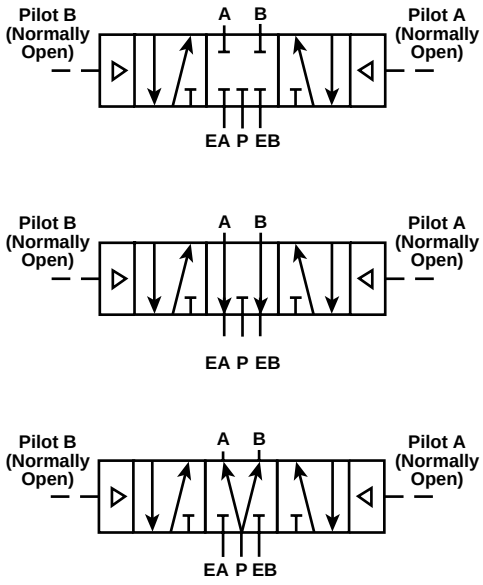
3/8" Basic, Nominal Cv = 4.8

1" Basic, Nominal Cv = 11.3

Application

These valves may be used to activate double acting cylinders when "inching" or incremental rod movement is desired. A normally open pilot signal to both pilot caps maintains the valve in its neutral (centered) condition. Valve may be applied for alternate services. For alternate flow path usages, see *Optional Functions* page.

Mounting



These valves are designed for subbase or modular manifold mountings. Order from chart below.

Operation: Pressure Service

Neutral "Class 21"
Normally open pilot signals to both pilot caps –
All ports blocked.

Neutral "Class 22"
Normally open pilot signals to both pilot caps –
"Cylinder" Port A is connected to "Exhaust" Port EA and "Cylinder" Port B is connected to "Exhaust" Port EB. Pressure at Port P is blocked.

Neutral "Class 23"
Normally open pilot signals to both pilot caps –
"Cylinder" Ports A & B are connected to Port P. "Exhaust" Ports EA & EB are blocked.

Activated Operation
When Pilot "A" is exhausted – Pressure at Port P is connected to "Cylinder" Port A. "Exhaust" Port EB is connected to "Cylinder" Port B.

When Pilot "B" is exhausted – Pressure at Port P is connected to "Cylinder" Port B. "Exhaust" Port EA is connected to "Cylinder" Port A.

Model Selection (Neutral "Class 21" Shown)

Note: Shaded units are no longer available.

Valve Only	Subbase (Side Ports)	Manifold ▲ (End & Bottom Ports)	Port Size (NPT)	Port Adapter
L664 31 211	K022 090	K142 230	3/8"	Not Req'd
	K022 091	K142 231	1/2"	
	K022 101	K142 270	3/4"	
L664 81 211	K022 094	K142 235	3/4"	K122 016 Kit Includes Both Ends
	K022 095	K142 236	1"	
	K022 096	K142 237	1-1/4"	

See page 5 for variations in class of neutral configurations.

▲ - Manifolds include mounting hardware.

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When Ordering Valve & Manifold Assemblies

1. Factory assembly instructions – valve & manifold (or subbase) to be assembled. Sequence of assembly to be as listed on order (see example) from left to right when facing end cylinder ports.

2. Size – identified as 5th character in Valve Model Number.

2 = 1/4" Basic	L□□□2□ □□□ □□
3 = 3/8" Basic	L□□□3□ □□□ □□
5 = 1/2" Basic	L□□□5□ □□□ □□
▲ 8 = 1" Basic	L□□□8□ □□□ □□

▲ (Port Plate K122 016 required on multi-station assemblies)

3. Number of stations:

00 = Single Subbase
01 = Single (Modular) Manifold (Do not use with 1/4" Basic Size)
02 = 2-Station

* 12 = 12-Station

* More stations may be added, if there is sufficient upstream volume and pressure to insure that the last valve in the assembly will function. An increased upstream volume, conversion to an external pilot, or an additional inlet may prevent "starvation" problems on larger assemblies.

Manifold Assembly **K 163 3 03**

1. Number of Stations
2. Valve Size
3. Factory Assembly

Example: L515 **5**9 102 53
K022 092
K163 **5**00

■ List items to be assembled as ordered Pairs and in "Sequence" of Assembly.

■ ***Example:*** L675 **3**9 102 53
K142 230
L655 **3**9 102 53
K142 231
L665 **3**9 102 53
K142 270
K163 **3**03

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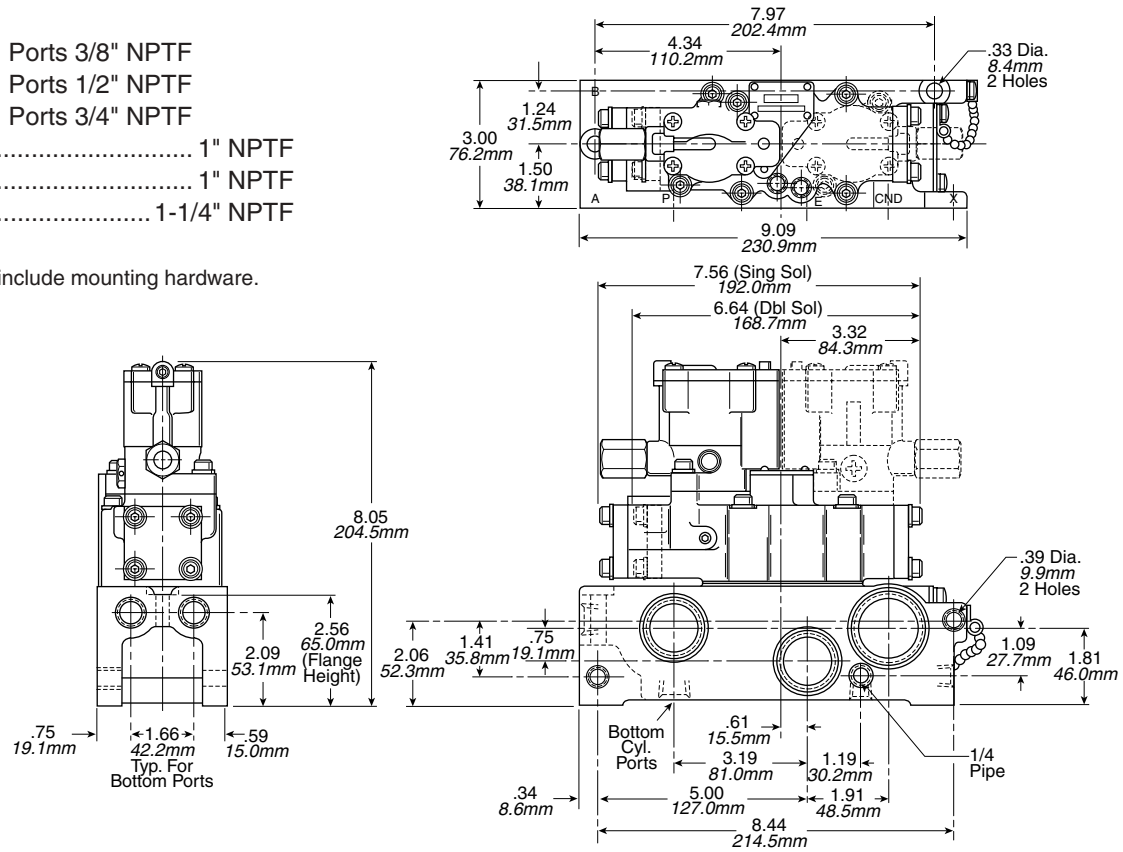
3/8" Basic

K142 230 Cyl. Ports 3/8" NPTF
K142 231 Cyl. Ports 1/2" NPTF
K142 270 Cyl. Ports 3/4" NPTF
Exhaust Port ..... 1" NPTF
Inlet Port ..... 1" NPTF
Conduit Port ..... 1-1/4" NPTF

Note:
Manifold assemblies include mounting hardware.

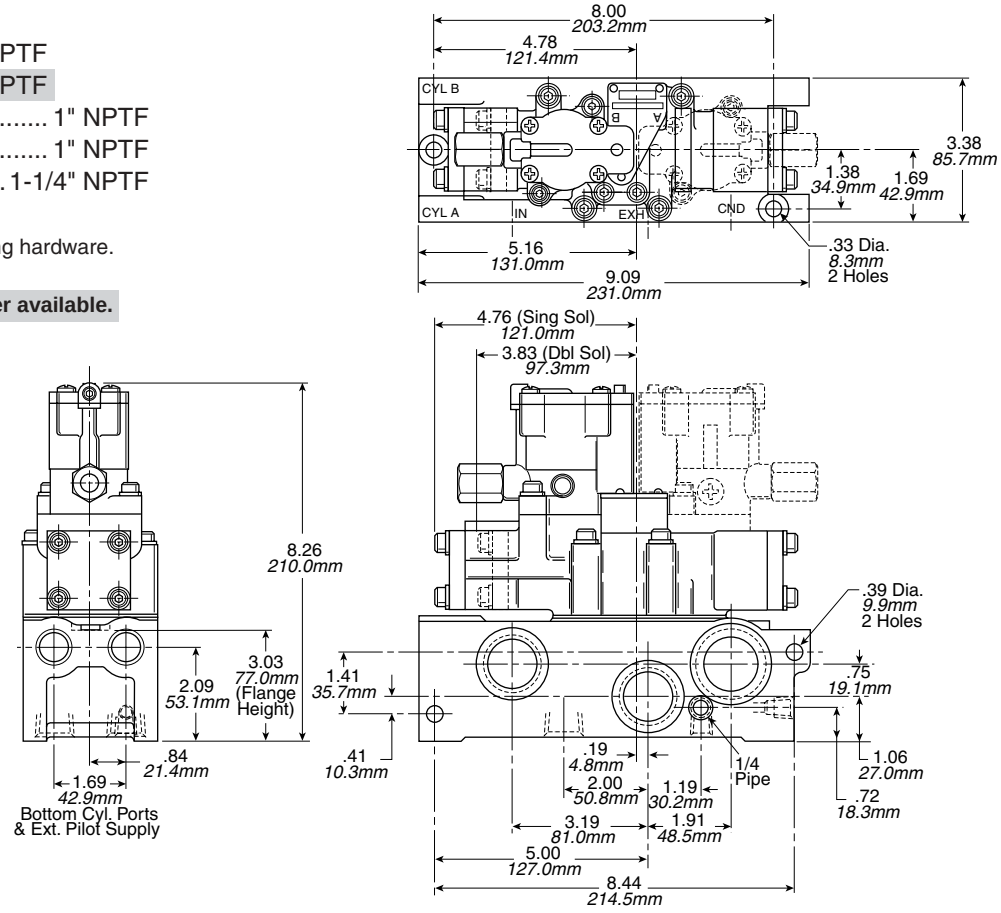


1/2" Basic

K142 233 Cyl. Ports 1/2" NPTF
K142 234 Cyl. Ports 3/4" NPTF
Exhaust Port ..... 1" NPTF
Inlet Port ..... 1" NPTF
Conduit Port ..... 1-1/4" NPTF

Note:
Manifold assemblies include mounting hardware.

Note: Shaded units are no longer available.



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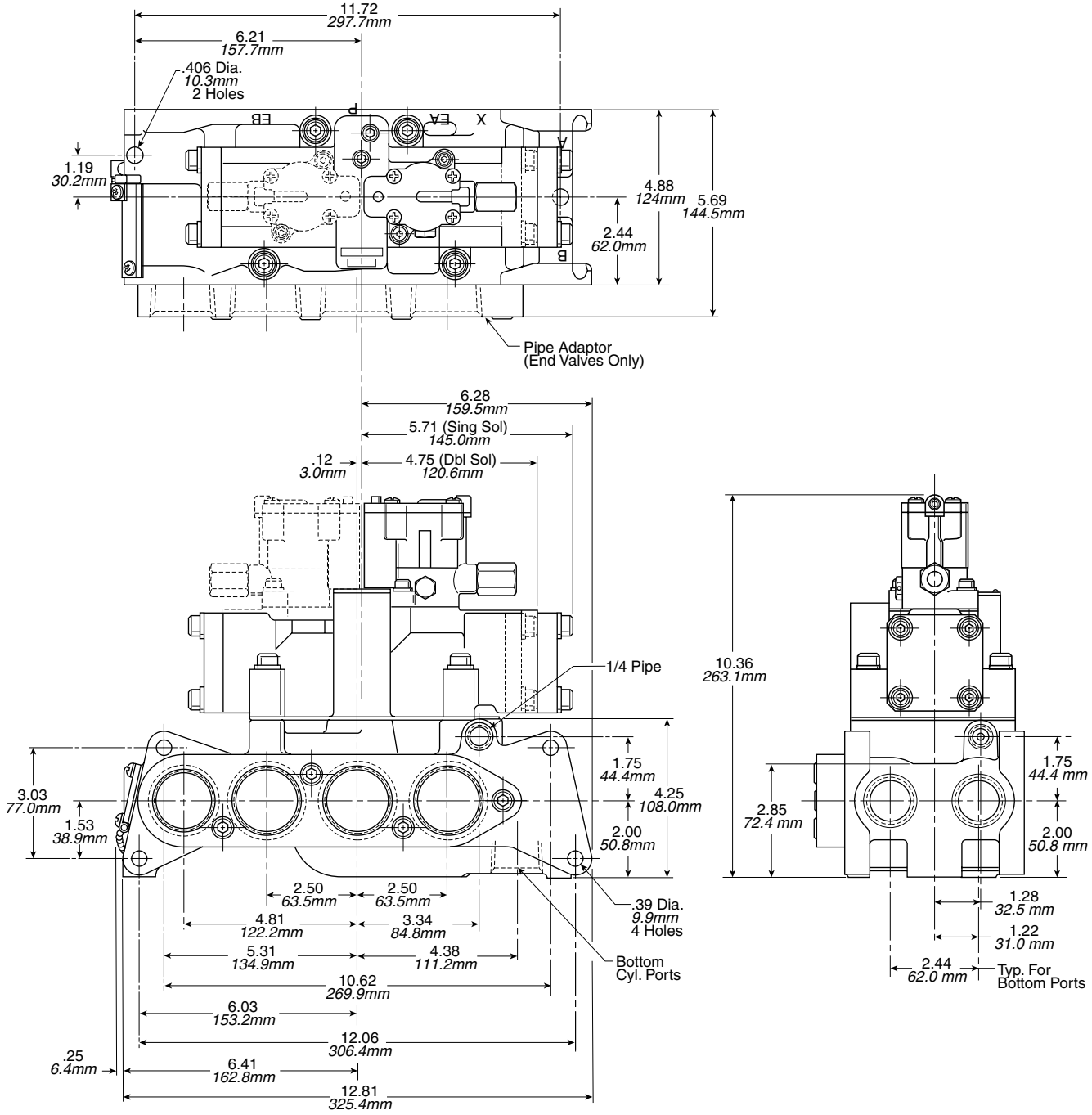
1" Basic

K142 235	Cyl. Ports 3/4" NPTF
K142 236	Cyl. Ports 1" NPTF
K142 237	Cyl. Ports 1-1/4" NPTF
K122 016	End Plate Kit (Both Plates)

Exhaust Port ..... 1-1/2" NPTF (Port Plate)
Inlet Port ..... 1-1/2" NPTF (Port Plate)
Conduit Port ..... 1-1/4" NPTF (Port Plate)

Note: Shaded units are no longer available.



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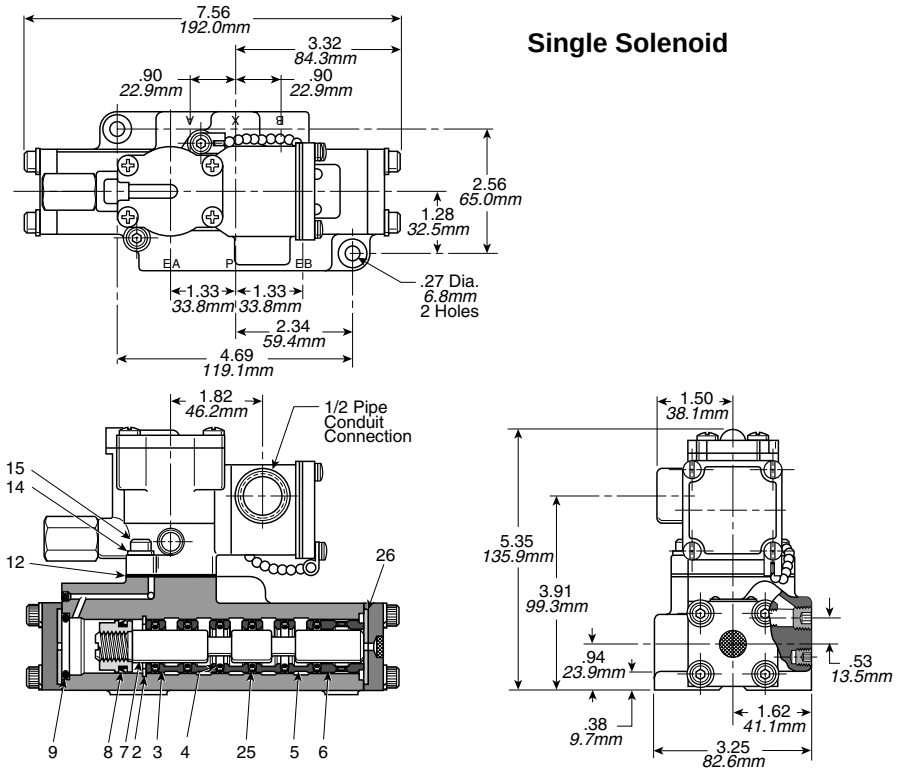
Single Solenoid

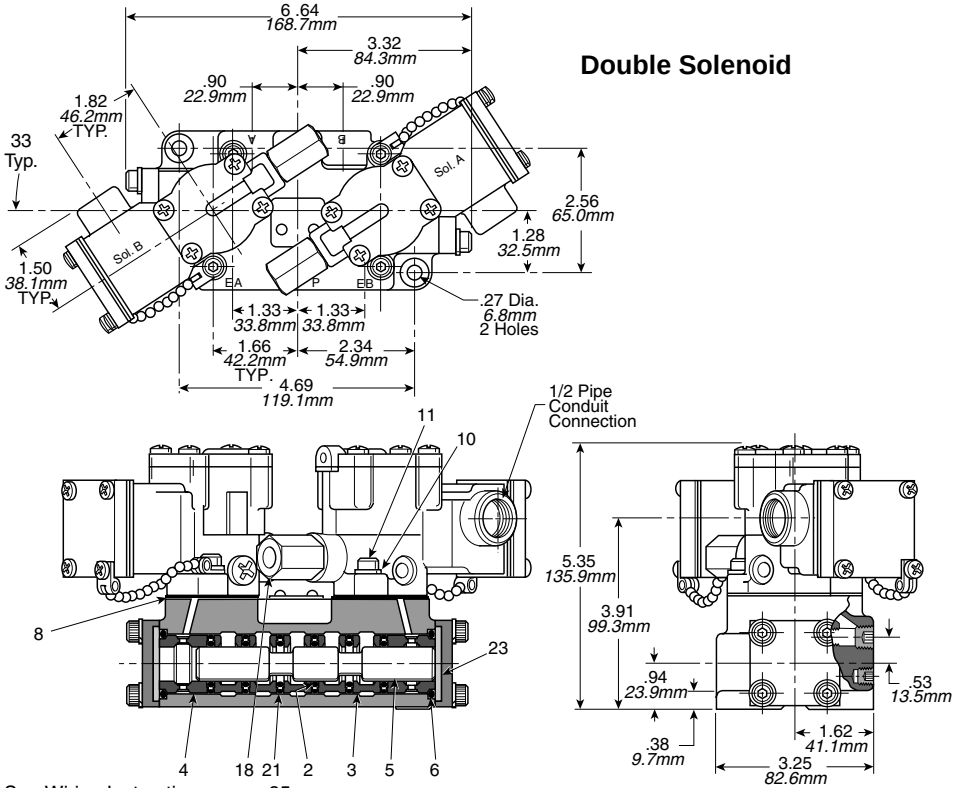


Parts List

Item No.	Part No.	Description
2	H090 71	Retaining Ring
3	K463 015	Spacer
* 4	—	O-Ring (Dynamic)
5	K453 028	Spacer
6	K463 012	End Spacer
7	K232 020	Spool Assy.
* 8	—	Seal
* 9	—	Seal
*12	—	Gasket
14	H175 12	Lockwasher
15	H100 60	Cap Screw
22	K152 003	Override Assy.
*25	—	O-Ring (Static)
26	K983 002	Shock Pad

* Standard Service Kit: K352 124
* Special Service Kit: K352 125 (Continuous Duty)

Double Solenoid



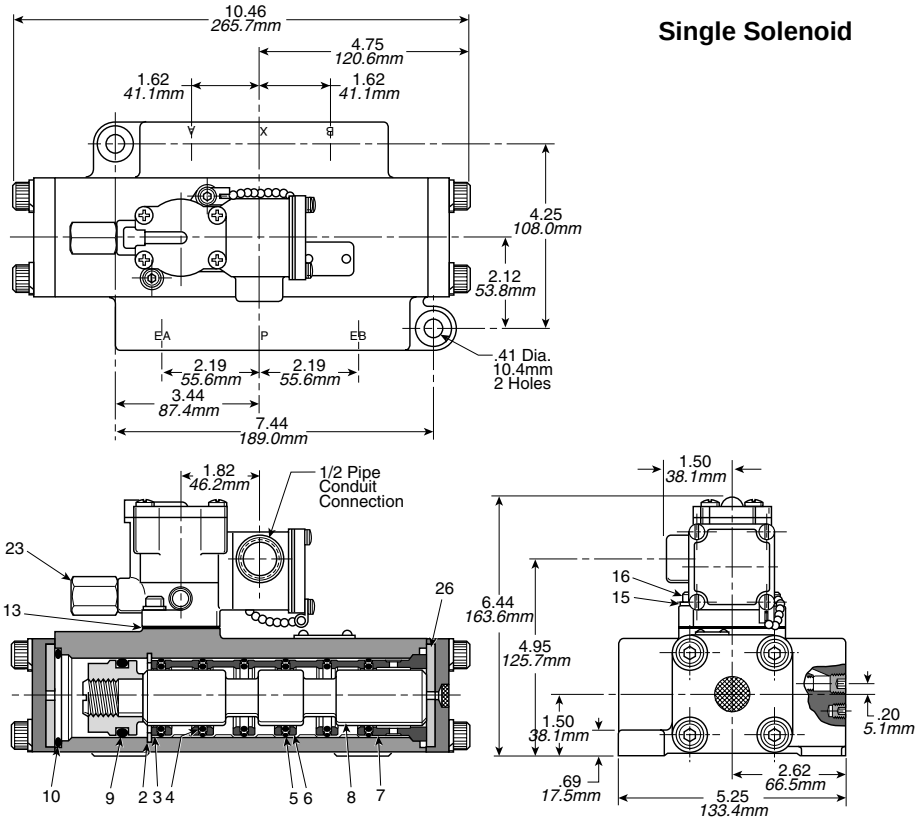
See Wiring Instructions, page 85, for units with flying leads

Parts List

Item No.	Part No.	Description
* 2	—	O-Ring (Dynamic)
3	K453 028	Spacer
4	K463 012	End Spacer
5	K343 094	Spool
* 6	—	Seal
* 8	—	Gasket
10	H175 12	Lockwasher
11	H100 60	Cap Screw
18	K152 003	Override Assy.
*21	—	O-Ring (Static)
23	K983 002	Shock Pad

* Standard Service Kit: K352 126
* Special Service Kit: K352 127 (Continuous Duty)

Single Solenoid

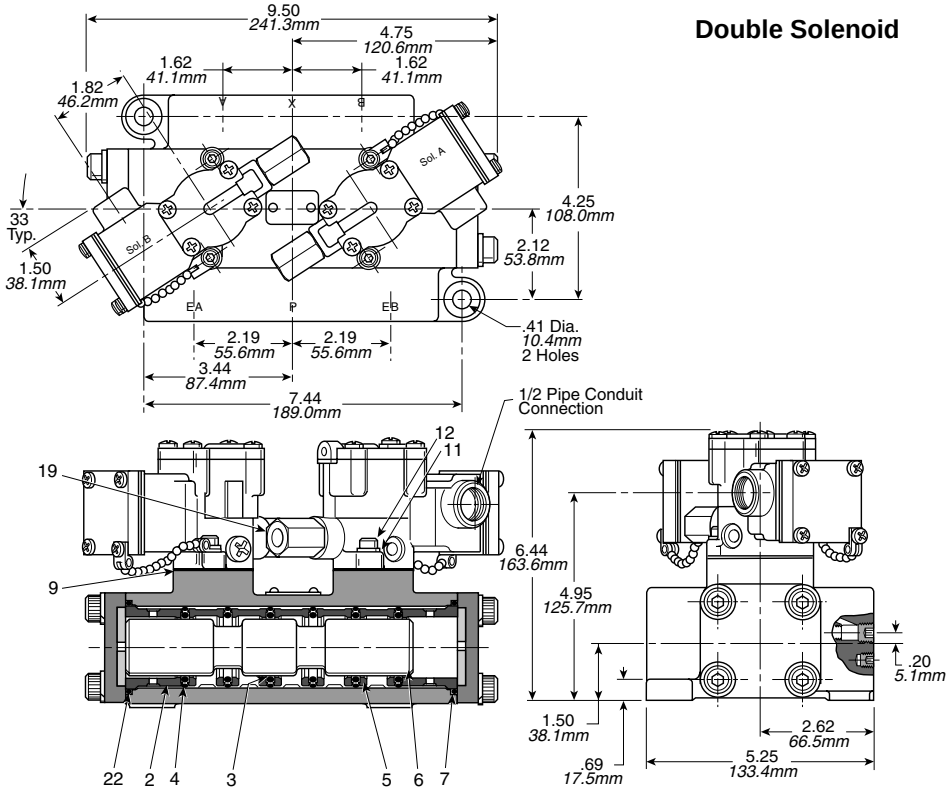


Parts List

Item No.	Part No.	Description
2	H090 09	Retaining Ring
3	K553 009	Spacer
* 4	—	O-Ring (Dynamic)
* 5	—	O-Ring (Static)
6	K453 009	Spacer
7	K463 005	End Spacer
8	K232 014	Spool Assy.
* 9	—	O-Ring
*10	—	Seal
*13	—	Gasket
15	H175 12	Lockwasher
16	H100 60	Cap Screw
23	K152 003	Override Assy.
26	K983 004	Shock Pad

* Standard Service Kit: K352 128
* Special Service Kit: K352 129
(Continuous Duty)

Double Solenoid



See Wiring Instructions, page 85,
for units with flying leads.

Parts List

Item No.	Part No.	Description
2	K463 005	End Spacer
* 3	—	O-Ring (Dynamic)
* 4	—	O-Ring (Static)
5	K453 009	Spacer
6	K343 061	Spool
* 7	—	Seal
* 9	—	Gasket
11	H175 12	Lockwasher
12	H100 60	Cap Screw
19	K152 003	Override Assy.
22	K983 004	Shock Pad

* Standard Service Kit: K352 130
* Special Service Kit: K352 131
(Continuous Duty)

"Blank Station" Covers	
Manifold Assembly	**Blank Cover Kit**
K142 076	K060 20007
K142 077	
K142 230	K060 20003
K142 231	
K142 270	
K142 233	K060 20009
K142 234	
K142 235	K060 20004
K142 236	
K142 237	

DISCONTINUED

"Flush Type" Hex Drive Pipe Plugs for Port Isolation	
Part No.	**Size (NPTF)**
K21R02012	1/8"
K21R02025	1/4"
K21R02037	3/8"
K21R02050	1/2"
K21R02075	3/4"
K21R02100	1"
H074 72	1-1/4"
H074 30	1-1/2"

Electrical Connectors
Single or Double Solenoid Valves

Basic Size	Valve Body		Subbase/Manifold		
	Single Sol.	Double Sol.	19" Leads	72" Leads	12' Leads
1/4"	H027 17	H027 26	H027 19	—	—
3/8"	H027 23	H027 22	H027 13	H027 89	H027 40
1/2"					
1"					

Notes: Shaded units are not standard stock items.

Interchangeable Manual Override Assemblies for Solenoid Operators

Non-Locking Type K162 001 **Locking Type K152 003**

Effective June 1, 1990 the Flush Locking Override replaced the Extended Knob Locking Override as the Schrader Bellows standard. The part number remains K152 003. To override valve, use a flat head screwdriver to press in and rotate plunger 90° until plunger locks in place. For proper valve operation, override should be in the out position.

L□□□ □□ □□□ **
|| Voltage Code

Voltage Suffix Codes

Code **	Voltage			Coil Number		Replace With
	60 Hz	50 Hz	DC	Plug-In	Flying Lead (19") *	
40	**12**	–	3	**K593 052**	**K593 007**	
42	**24**	–	6	**K593 048**	**K593 003**	
43	27	**24**	–	**K593 061**	**K593 015**	**K593 048 / K593 003**
45	–	–	**12†**	**K593 055**	**K593 010**	
49	–	–	**24†**	**K593 060** **K593 274‡**	**K593 014**	
51	–	130	**48†**	**K593 074**	**K593 028**	
53	**120†**	**110**	–	**K593 071** **K593 125‡**	**K593 025**	
57	**240†**	**220**	–	**K593 081**	**K593 035**	
60	–	–	**90**	–	**K393 020**	
61	–	–	**120**	–	**K593 041**	

Notes: Shaded areas are no longer available.
Bold Face type indicated primary coil rating.
† - Indicates voltages approved for solenoid operators designed for use in hazardous locations. (See page 87.)
* - 19" Coil lead length is standard. Other lead lengths may be available, consult supplier.
‡ - Assembly includes indicator light socket, less light.

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To use this chart you must know the Basic Valve Series, Quantity, and Type of Operators, or the first three characters of the Valve Model Number.

Basic Valve		Solenoid Operated *				Remote Pilot Operated	
		Standard Service (Intermittent Duty)		Special Service ** (Continuous Duty)			
Size	Series (Prefix)	Single	Double 2 & 3-Position	Single	Double 2 & 3-Position	Single	Double 2 & 3-Position
1/4"	L41	–	K352 151	–	K352 351	–	K352 357
	L42	–	K352 151	–	K352 351	–	K352 357
	L44	K352 150	–	K352 350	–	K352 363	–
	L46	–	K352 151	–	K352 351	–	K352 357
	L47	–	K352 151	–	K352 351	–	K352 357
	L48	K352 150	–	K352 350	–	K352 363	–
3/8" *	L65	–	K352 126	–	K352 127	–	K352 355
	L66	–	K352 126	–	K352 127	–	K352 355
	L67	K352 124	–	K352 125	–	K352 362	–
	L68	–	K352 126	–	K352 127	–	K352 355
	L69	–	K352 126	–	K352 127	–	K352 355
	L70	K352 124	–	K352 125	–	K352 362	–
1/2"	L51	–	K352 153	–	K352 353	–	K352 358
	L52	–	K352 153	–	K352 353	–	K352 358
	L54	K352 152	–	K352 352	–	K352 361	–
	L61	–	K352 153	–	K352 353	–	K352 358
	L62	–	K352 153	–	K352 353	–	K352 358
	L64	K352 152	–	K352 352	–	K352 361	–
1" †	L65	–	K352 130	–	K352 131	–	K352 360
	L66	–	K352 130	–	K352 131	–	K352 360
	L67	K352 128	–	K352 129	–	K352 359	–
	L68	–	K352 130	–	K352 131	–	K352 360
	L69	–	K352 130	–	K352 131	–	K352 360
	L70	K352 128	–	K352 129	–	K352 359	–

Notes:

* Kits for solenoid operated valves include solenoid service kits.

****** Special service (continuous duty) solenoids may be identified as having gold colored solenoid tops.

† Valvair II valves are easily identified by gold colored valve end caps.

Conversion Kits: Lubricated to Non-Lubricated Operation

Basic Size	Operators (Solenoid or Remote Pilot)				
	Single	Double (2-Position)	Double (3-Position)		
			All Ports Blocked	Cyl. to Exh.	Cyl. to Inlet
3/8"	K322 012	K322 013	K322 014	K322 015	K322 016
1"	K352 359 K092 070 K092 071	K352 360 (K092 070 2-Req'd)	K352 360 (K103 103 Gold Colored End Caps 2-Req'd)		

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SK200 3/8"

Specials	Description	Repair Kit	Closest Replacement
L6504C001	Double Remote Pilot, with subbase, with fluorocarbon	N/A	N/A
L65053001	Double Solenoid, less base, with drilled pilot exhaust	K352126	L65533102 + voltage
L65053002	Double Solenoid, less base, with drilled pilot exhaust	K352126	L6553910253
L65053003	Double Solenoid, less base, with drilled pilot exhaust	K352126	L6553810253
L65053004	Double Solenoid, less base, with drilled pilot exhaust	K352126	L65532102 + voltage
L65053005	Double Solenoid, less base, with drilled pilot exhaust	K352126	L6553210261
L65053006	Double Solenoid, less base, with fluorocarbon O-rings	N/A	N/A
L65053007	Double Solenoid, less base, with blank pilot spacer	K352126	N/A
L65053008	Double Solenoid, less base, with one NC and one NO solenoid	K352126	N/A
L65053009	Double Solenoid, less base, with stainless steel stem	K352126	N/A
L65053010	Double Solenoid, less base, with stainless steel stem	K352126	N/A
L65053011	Double Solenoid, less base, with class “H” coil and 10 foot leads	K352126	N/A
L65053012	Double Solenoid, less base, with special spool	K352126	N/A
L65053013	Double Solenoid, less base, with drilled pilot exhaust	K352126	N/A
L65053014	Double Solenoid, less base, with blocked inlet port	K352126	N/A
L65053015	Double Solenoid, less base, with blocked inlet port	K352126	N/A
L65053016	Double Solenoid, less base, with blocked exhaust ports	K352126	N/A
L65053017	Double Solenoid, less base, with gasket plate	K352126	L65539102 + voltage
L65053018	Double Solenoid, less base, with stainless steel stem	K352126	N/A
L65053019	Double Solenoid, less base, with special spring return override	K352126	L6553910253
L65053020	Double Solenoid, less base, with low-temperature lube and stainless steel spool	N/A	N/A
L65053021	Double Solenoid, less base, with blocked inlet port	K352126	N/A
L66043001	Double Remote Pilot, with special drilling	K352355	N/A
L66043002	Double Remote Pilot, with special drilling	K352355	N/A
L66043003	Double Remote Pilot, with locking overrides	K352355	L66431221
L66053001	Double Solenoid, less base, with one NO and one NC solenoid	K352126	N/A
L66053003	Double Solenoid, less base, with plugged override on “B” solenoid	K352126	L66532231
L66053004	Double Solenoid, less base, with blank exhaust spacers	K352126	N/A
L66053005	Double Solenoid, less base, with one continuous duty solenoid and special pistons	K352126	N/A
L66053006	Double Solenoid, less base, with blank exhaust spacers	K352126	N/A
L66053007	Double Solenoid, less base, with 75VDC coil	K352126	N/A
L66053008	Double Solenoid, less base, with 125VDC coil	K352126	L6653221161
L66053009	Double Solenoid, with base, with grounding screw in base	K352126	L66539211 + voltage
L66053011	Double Solenoid, less base, with one NO and one NC solenoid	K352126	N/A
L66053012	Double Solenoid, less base, with 32VDC coil	K352126	N/A
L66053014	Double Solenoid, less base, with remote adapters	K352126	N/A
L66053015	Double Solenoid, less base, with blank inlet spacer	K352126	N/A
L66053016	Double Solenoid, less base, with one NO and one NC solenoid	K352126	N/A
L66053018	Double Solenoid, less base, with special override	K352126	L6653923153
L66053019	Double Solenoid, less base, with conduit type operators	K352126	N/A
L66053020	Double Solenoid, less base, with blank inlet spacer	K352126	N/A
L66053021	Double Solenoid, less base, with blank inlet spacer	K352126	N/A
L66053022	Double Solenoid, less base, with blank inlet spacer	K352126	N/A
L66053024	Double Solenoid, less base, with 37VDC coil	K352126	N/A
L67043001	Single Remote Pilot, Valve only, with timing sequence delay	K352362	L67431102 + K7051003
L67043002	Single Remote Pilot, Valve only, with timing sequence delay	K352362	L67431102 + K7051002
L67053001	Single Solenoid, Valve only, with fluorocarbon O-rings, 115VAC / 60Hz	N/A	N/A
L67053002	Single Solenoid, Valve only, with spring return	K352124	L67539102 + voltage
L67053005	Single Solenoid, Valve only, with NC pilot using adapters	K352124	N/A
L67053007	Single Solenoid, Valve only, with blank end spacers	K352124	N/A
L67053008	Single Solenoid, Valve only, with blank end spacers	K352124	N/A
L67053009	Single Solenoid, Valve only, with blank end spacers, 120VAC	K352124	N/A

SK200 3/8"

Specials	Description	Repair Kit	Closest Replacement
L67053010	Single Solenoid, Valve only, with stainless steel spool	K352124	N/A
L67053011	Single Solenoid, Valve only, with 3-pin Brad Harrison connector	K352124	L67539102 + voltage
L67053012	Single Solenoid, Valve only, with 3-pin Brad Harrison connector	K352124	L67539102 + voltage
L67053013	Single Solenoid, Valve only, with high temperature seal and coil less shockpad	N/A	N/A
L67053014	Single Solenoid, Valve only, with fluorocarbon O-rings	N/A	N/A
L67053015	Single Solenoid, Valve only, with internal exhaust drilling	K352124	N/A
L67053016	Single Solenoid, Valve only, with blank spacer at inlet	K352124	N/A
L67053017	Single Solenoid, Valve only, with gasket plate	K352124	L6753910453
L67053018	Single Solenoid, Valve only, with 75VDC coil	K352124	N/A
L67053019	Single Solenoid, Valve only, with 125VDC coil	K352124	L6753210261
L67053020	Single Solenoid, Valve only, with 32VDC coil	K352124	N/A
L67053021	Single Solenoid, Valve only, with special spring return override	K352124	L6753910253
L67053023	Single Solenoid, valve only, with fluorocarbon O-rings	N/A	N/A
L67053024	Single Solenoid, valve only, with JIC pilot valve	K352124	N/A
L67053025	Single Solenoid, valve only, with high temperature seal and coil, external pilot	N/A	N/A
L67053027	Single Solenoid, valve only, with blank spacer at inlet, 24VDC	K352124	N/A
L67053028	Single Solenoid, valve only, with blank end spacers, 24VDC	K352124	N/A
L67053029	Single Solenoid, valve with base, with high temperature seal and coil, 24VDC	N/A	N/A
L67053030	Single Solenoid, valve with base, with high temperature seal and coil, 120VAC	N/A	N/A
L68044001	Double Remote Pilot, inline valve, with special air bleed remote adapters	K352355	N/A
L68054001	Double Solenoid, inline valve, with high temperature seals and coil, NEMA 4, 120VAC	N/A	N/A
L68054002	Double Solenoid, inline valve, with stainless steel spool, 120VAC	K352126	N/A
L68054003	Double Solenoid, inline valve, with stainless steel spool, 24VDC	K352126	N/A
L68054004	Double Solenoid, inline valve, with stainless steel spool, 120VAC	K352126	N/A
L68054005	Double Solenoid, inline valve, with high temperature seals	N/A	N/A
L68054006	Double Solenoid, inline valve, with high temperature seals and coil, NEMA 4, 120VAC	N/A	N/A
L69043001	Double Remote Pilot, inline valve, with special drilling in body	K352355	N/A
L69044001	Double Remote Pilot, inline valve, with special drilling in body	K352355	N/A
L69053001	Double Solenoid, inline valve, with stainless steel spool	K352126	N/A
L69054001	Double Solenoid, inline valve, with class “H” coil, 120VAC	K352126	N/A
L69054002	Double Solenoid, inline valve, with hazardous duty solenoid	K352126	L69543721 + voltage
L69054003	Double Solenoid, inline valve, with two NC solenoids and adapter	K352126	N/A
L69054004	Double Solenoid, inline valve, with speed controls	K352126	L6954321553 + flow controls
L70044001	Single Remote Pilot, inline valve, with fluorocarbon O-rings	N/A	N/A
L70044002	Single Remote Pilot, inline valve, with offset spring	K352362	L70441102
L70053001	Single Solenoid, inline valve, with stainless steel spool	K352124	N/A
L70053003	Single Solenoid, inline valve, with suppressors	K352124	L70539102 + voltage
L70053004	Single Solenoid, inline valve, with 32VDC coil, and special service gasket	K352124	N/A
L70053005	Single Solenoid, inline valve, with 250VDC coil	K352124	N/A
L70053006	Single Solenoid, inline valve, with special grease and hydraulic gasket	N/A	N/A
L70054001	Single Solenoid, inline valve, with 48VDC coil, class “H” coil, fluorocarbon O-rings	N/A	N/A
L70054002	Single Solenoid, inline valve, with 48VDC coil, class “H” coil, fluorocarbon O-rings	N/A	N/A
L70054003	Single Solenoid, inline valve, with class “H” coil, fluorocarbon O-rings	N/A	N/A
L70054004	Single Solenoid, inline valve, with suppressors	K352124	L70549102 + voltage
L70054005	Single Solenoid, inline valve, with stainless steel spool	K352124	N/A
L70054006	Single Solenoid, inline valve, with class “H” coil, and special name tag	K352124	N/A
L70054007	Single Solenoid, inline valve, with 48 inch leads	K352124	L7054610257
L70054008	Single Solenoid, inline valve, with fluorocarbon O-rings and 48VDC coil	N/A	N/A
L70054009	Single Solenoid, inline valve, with fluorocarbon O-rings	N/A	N/A
L70054010	Single Solenoid, inline valve, Nema 4 solenoid with 24VDC class “B” coil	N/A	N/A

Valvair II 1"

Specials	Description	Repair Kit	Closest Replacement
L65058001	Double Solenoid, less base, with NC pilot	K352130	N/A
L65058002	Double Solenoid, less base, with NC pilot and light	K352130	N/A
L65058003	Double Solenoid, less base, with NC pilot	K352130	N/A
L65058004	Double Solenoid, less base, with NC pilot	K352130	N/A
L65058005	Double Solenoid, less base, with conduit operator connection	K352130	N/A
L65058006	Double Solenoid, with base, with Brad Harrison connection in base	K352130	L6558810253
L65058007	Double Solenoid, less base, with Brad Harrison connection in pilot	K352130	N/A
L65058008	Double Solenoid, less base, less pilot	K352130	L6558910253
L66058001	Double Solenoid, less base, with blank spacers at exhaust	K352130	N/A
L66058002	Double Solenoid, less base, with one continuous duty solenoid	K352130	N/A
L66058003	Double Solenoid, less base, with 75VDC coil	K352130	N/A
L66058004	Double Solenoid, less base, with one remote pilot operator	K352130	N/A
L66058005	Double Solenoid, less base, with special pilot	K352130	N/A
L67058001	Single Solenoid, less base, with 120VAC class “H” coil and 10 foot leads	K352128	N/A
L67058002	Single Solenoid, less base, with 4-pin connector in pilot	K352128	N/A
L67058003	Single Solenoid, less base, with NEMA 4 JIC pilot	K352128	N/A
L67058004	Single Solenoid, less base, less pilot	K352128	L6758910253
L69057001	Double Solenoid, inline, with spotfaces on ports	K352130	N/A
L70057001	Single Solenoid, inline, with suppressors	K352128	N/A
L70058001	Single Solenoid, inline, with class “H” coil, 48VDC	K352128	N/A

A4 or A5 Specials	Description	Repair Kit	Closest Replacement
A4C1A43Y001	Single Solenoid, inline valve, with fluorocarbon seals and class H coil	K35020050 + K352366	L7054380453 - with Buna N seal
A4C1A43Y002	Single Solenoid, inline valve, with fluorocarbon seals and external pilot	K35020050 + K352366	L7054380453 - with Buna N seal
A431A43Y001	Single Solenoid, with special non-locking override	K352124	L7054510253
A431531Y001	Single Solenoid, with base, with 60VAC / 60Hz coil and BSPP ports	K352124	N/A
A431533Y001	Single Solenoid, with base, with 3-pin connector in base	K352124	L6753910253 + K022090
A431543Y001	Single Solenoid, with base, with fluorocarbon seals and external pilot	K35020050 + K352166	L6753910253 + K022091
A431543Y002	Single Solenoid, with base, with special non-locking override	K352124	L6753810253 + K022091
A431553Y001	Single Solenoid, with base, with fluorocarbon seals and external pilot	K35020050 + K352166	L6753910253 + K022101
A431553Y002	Single Solenoid, with base, with fluorocarbon seals and external pilot	K35020050 + K352166	L6753910249 + K022101
A441VXXY001	Double Solenoid, less base, with anodized body	K352126	L6553210257
A441533Y001	Double Solenoid, with base, with 3-pin connector in base	K352126	L6553910253 + K022090
A471553Y001	Single Remote Pilot, with base, with special pilot adapter	K352362	L67431102 + K022101
A531A53Y001	Single Solenoid, inline valve, with 200 PSI pilot	K352152	L6453210353
A531553Y001	Single Solenoid, with base, with 200 PSI pilot	K352152	L5455210353 + K022093