

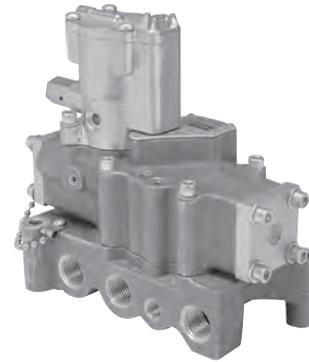
Valvair II Series

- Full air operation for fastest response
- “Plug-in” option simplifies maintenance and installation
 Reduces downtime. No wiring or plumbing to disturb
- “Direct pipe” design for economy and performance
- Variety of operators available; direct conduit, (JIC) junction box, NEMA 4, hazardous duty, (UL, CSA), and remote air pilot
- Field convertible to external pilot supply for vacuum or other services
- Synthetic rubber o-ring seals are specially compounded for minimum compression and friction for superior wear and abrasion resistance
- Precision ground spool “floats” on o-ring seals. Closed center cross-over design saves air
- General Purpose Approvals
 - CSA - Canadian Standards Association
 File number 42024
- Hazardous Duty Approvals
 - UL - Underwriters Laboratories, Inc.
 File number E42542 Category Y107
 - CSA - Canadian Standards Association
 File number 24349

Material specifications

Manifolds & subbases	Aluminum alloy	
Other seals	Nitrile	
Resilient seals: in valve body		
Dynamic	Polyurethane base on 3/8" basic valves*	
Static / dynamic	Nitrile base w / 12% Molybdenum Disulphide on 1/4" & 1/2" basic valves	
Shock pads	Polyurethane	
Solenoid bodies	Plated zinc alloy	
Internal components	Corrosion resistant steel	
Resilient seals	Standard service	Nitrile
	Special service (continuous duty)	Fluorocarbon & Silicone
Other seals	Nitrile	
Coil	Class “B” epoxy encapsulated (Class “H” also available on some models, consult supplier)	
Valve bodies	Aluminum alloy	
Valve spacers	Brass	
Valve spool	Aluminum alloy with special coating on 3/8" basic valves*. Hard chrome plated AISI type 416 stainless steel on 1/4" & 1/2" basic valves.	

* These materials are specially designed for valves used on non-lubricated service



Operating information

Pressure range for solenoid operated valves

Media	Internal pilot supply			External pilot supply			
	1/4"	3/8"	1/2"	1/4"	3/8"	1/2"	1"
Air	35-140* PSIG			N.A. Main	0-250 PSIG Pilot		
Vacuum	do not use			N.A. Main	within 1 Hg of perfect Pilot		
Other	Consult supplier						

* 200 PSIG solenoid is optional (consult supplier).

Pressure range for remote pilot operated valves

Media		Valve type	
		Single	Double & 3-position
Air	Main	35-250 PSIG	0-250 PSIG
	Pilot	35-200 PSIG	35-200 PSIG
Vacuum	Main	Do not use	Within 1" Hg of perfect
	Pilot	Do not use	35-200 PSIG
Other	Consult supplier		

Ambient temperature – standard service solenoid operator

Minimum	Maximum	
	Intermittent duty	Continuous duty
0°F	125°F	100°F
Special service (continuous duty) solenoid operator		
0°F	125°F	125°F

Ambient temperature – remote pilot operated valves

0°F	200°F
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As the above chart indicates, Standard Duty Solenoids may be used on continuous duty but ambient temperature is de-rated.
 In some cases, Special Service Solenoids may be rated for higher ambient temperatures (consult supplier).



CAUTION:

If it is possible that the ambient temperature may fall below freezing, the medium must be moisture free to prevent internal damage and unpredictable behavior.

 Most popular.



For inventory, lead time, and kit lookup, visit www.pdnplu.com

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D

Subbase & Manual Valves

H Series Micro

Moduflex Series

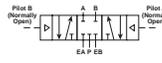
H Series ISO

Fieldbus Systems

DX ISOMAX Series

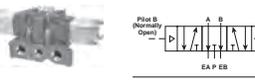
Valvair II Series

3/8" Basic plug-in solenoid valve only with light

Symbol	Type	Cv	Operator	Voltage	Non-locking	Locking
	4-way, 2-position, spring return	4.8	Single solenoid	24 VDC 110 VAC	L6753810249 L6753810253	L6753910249 L6753910253
	4-way, 2-position	4.8	Double solenoid	24 VDC 110 VAC	L6553810249 L6553810253	L6553910249 L6553910253
	4-way, 3-position, all ports blocked	4.8	Double solenoid	24 VDC 110 VAC	L6653821149 L6653821153	L6653921149 L6653921153
	4-way, 3-position, center exhaust	4.8	Double solenoid	24 VDC 110 VAC	L6653822149 L6653822153	L6653922149 L6653922153
	4-way, 3-position, pressure center	4.8	Double solenoid	24 VDC 110 VAC	L6653823149 L6653823153	L6653923149 L6653923153

* Order subbase or manifold separately.

3/8" Basic plug-in remote pilot valve only

Symbol	Type	Cv	Operator	Part number
	4-way, 2-position, spring return	4.8	Single remote	L67431102
	4-way, 2-position	4.8	Double remote	L65431102
	4-way, 3-position, all ports blocked	4.8	Double remote	L66431211
	4-way, 3-position, center exhaust	4.8	Double remote	L66431221
	4-way, 3-position, pressure center	4.8	Double remote	L66431231

* Order subbase or manifold separately.

3/8" Valve Subbase and Manifolds

	Cv	Port	Subbase † (side ports)	Manifolds † (end & bottom ports)
 Subbase	4.8	3/8"	K022090	K142230
	4.8	1/2"	K022091	K142231
 Manifold	4.8	3/4"	K022101	K142270

† Manifolds include mounting hardware, except for port adapters. Subbase includes valve mounting hardware.

Plug-in Subbase, 3/8" Basic

K022090Inlet & Cylinder Ports 3/8" NPTF
	Exhaust Ports 1/2" NPTF
K022091Inlet & Cylinder Ports 1/2" NPTF
	Exhaust Ports 1/2" NPTF
K022101Inlet & Cylinder Ports 3/4" NPTF
	Exhaust port 3/4" NPTF
	Conduit port 1/2" NPTF

Note: Subbase assemblies include mounting hardware.

 Most popular.

Plug-in Manifold, 3/8" Basic

K142230Cylinder ports 3/8" NPTF
K142231Cylinder ports 1/2" NPTF
K142270Cylinder ports 3/4" NPTF
	Exhaust port..... 1" NPTF
	Inlet port..... 1" NPTF
	Conduit port..... 1-1/4" NPTF

Note: Manifold assemblies include mounting hardware.

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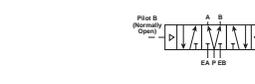


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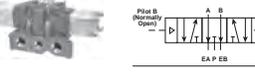
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1" Basic plug-in solenoid valve only with light

Symbol	Type	Cv	Operator	Voltage	Non-locking	Locking
	4-way, 2-position, spring return	11.3	Single solenoid	24 VDC 110 VAC	L6758810249 L6758810253	L6758910249 L6758910253
	4-way, 2-position	11.3	Double solenoid	24 VDC 110 VAC	L6558810249 L6558810253	L6558910249 L6558910253
	4-way, 3-position, all ports blocked	11.3	Double solenoid	24 VDC 110 VAC	L6658821149 L6658821153	L6658921149 L6658921153
	4-way, 3-position, center exhaust	11.3	Double solenoid	24 VDC 110 VAC	L6658822149 L6658822153	L6658922149 L6658922153
	4-way, 3-position, pressure center	11.3	Double solenoid	24 VDC 110 VAC	L6658823149 L6658823153	L6658923149 L6658923153

* Order subbase separately.

1" Basic plug-in valve remote pilot valve only

Symbol	Type	Cv	Operator	Part number
	4-way, 2-position, spring return	11.3	Single remote	L67481102
	4-way, 2-position	11.3	Double remote	L65481102
	4-way, 3-position, all ports blocked	11.3	Double remote	L66481211
	4-way, 3-position, center exhaust	11.3	Double remote	L66481221
	4-way, 3-position, pressure center	11.3	Double remote	L66481231

* Order subbase separately.

1" Valve Subbase

	Cv	Port	Subbase † (side ports)
	11.3	1"	K022095

Subbase

† Subbase includes valve mounting hardware.

Plug-in Manifold, 1" Basic

K0220905 Inlet & Cylinder Ports 1" NPTF
Exhaust Ports 1-1/4" NPTF
Conduit port 1/2" NPTF

Note: Subbase assemblies include mounting hardware.



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Subbase & Manual Valves

H Series Micro

Moduflex Series

H Series ISO

Fieldbus Systems

DX ISOMAX Series

Valvair II Series

3/8" Basic direct pipe ported valve only. Solenoid junction box with light, 1/2" NPT ports

Symbol	Type	Cv	Operator	Voltage	Non-locking	Locking
	4-way, 2-position, spring return	4.8	Single solenoid	24 VDC 110 VAC	L7054810249 L7054810253	L7054910249 L7054910253
	4-way, 2-position	4.8	Double solenoid	24 VDC 110 VAC	L6854810249 L6854810253	L6854910249 L6854910253
	4-way, 3-position, all ports blocked	4.8	Double solenoid	24 VDC 110 VAC	L6954821149 L6954821153	L6954921149 L6954921153
	4-way, 3-position, center exhaust	4.8	Double solenoid	24 VDC 110 VAC	L6954822149 L6954822153	L6954922149 L6954922153
	4-way, 3-position, pressure center	4.8	Double solenoid	24 VDC 110 VAC	L6954823149 L6954823153	L6954923149 L6954923153

3/8" Basic direct pipe ported remote pilot valve only, 1/2" NPT ports

Symbol	Type	Cv	Operator	Part number
	4-way, 2-position, spring return	4.8	Single remote	L70441102
	4-way, 2-position	4.8	Double remote	L68441102
	4-way, 3-position, all ports blocked	4.8	Double remote	L69441211
	4-way, 3-position, center exhaust	4.8	Double remote	L69441221
	4-way, 3-position, pressure center	4.8	Double remote	L69441231

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Most popular.



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1" Basic direct pipe ported valve only. Solenoid junction box with light, 1" NPT ports

Symbol	Type	Cv	Operator	Voltage	Non-locking	Locking
	4-way, 2-position, spring return	11.3	Single solenoid	24 VDC 110 VAC	L7058810249 L7058810253	L7058910249 L7058910253
	4-way, 2-position	11.3	Double solenoid	24 VDC 110 VAC	L6858810249 L6858810253	L6858910249 L6858910253
	4-way, 3-position, all ports blocked	11.3	Double solenoid	24 VDC 110 VAC	L6958821149 L6958821153	L6958921149 L6958921153
	4-way, 3-position, center exhaust	11.3	Double solenoid	24 VDC 110 VAC	L6958822149 L6958822153	L6958922149 L6958922153
	4-way, 3-position, pressure center	11.3	Double solenoid	24 VDC 110 VAC	L6958823149 L6958823153	L6958923149 L6958923153

1" Basic direct pipe ported remote pilot valve only. 1" NPT ports

Symbol	Type	Cv	Operator	Part number
	4-way, 2-position, spring return	11.3	Single remote	L70481102
	4-way, 2-position	11.3	Double remote	L68481102
	4-way, 3-position, all ports blocked	11.3	Double remote	L69481211
	4-way, 3-position, center exhaust	11.3	Double remote	L69481221
	4-way, 3-position, pressure center	11.3	Double remote	L69481231

1" Valve Subbase

		Cv	Port	Subbase (side ports)
Subbase		11.3	1"	K022095



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Subbase & Manual Valves

H Series Micro

Moduflex Series

H Series ISO

Fieldbus Systems

DX ISOMAX Series

Valvair II Series

Lubricated Non-Lubricated Service
2-position, Plug-In, 3/8" & 1" Basic Size

L 67 5 3 9 10 2 53

Type	
Double	65
Single	67

Operator	
Remote	4
Solenoid	5

Size	
3/8" Basic	3
1" Basic	8

Operator options	
Solenoid (basic) or remote	1
Solenoid with locking override	3
Solenoid w/light (120VAC, 24VDC) & non-locking override	8
Solenoid w/light (120VAC, 24VDC) & locking override	9

	Voltage & frequency		
	60Hz	50Hz	DC
45			12
49			24
53	120	110	
57	240	220	
Blank	Remote		

Duty Cycle	
2	Standard service, solenoid or remote
4	Continuous service solenoid

Enclosure "Class"	
10	Standard (NEMA 1 & 12) or remote

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Lubricated or Non-Lubricated Service
3-position, Plug-In, 3/8" & 1" Basic Size

L 66 5 3 9 21 1 53

Type	
Double	66

Operator	
Remote	4
Solenoid	5

Size	
3/8" Basic	3
1" Basic	8

Operator options	
Solenoid (basic) or remote	1
Solenoid with locking override	3
Solenoid w/light (120VAC, 24VDC) & non-locking override	8
Solenoid w/light (120VAC, 24VDC) & locking override	9

	Voltage & frequency		
	60Hz	50Hz	DC
45			12
49			24
53	120	110	
57	240	220	
Blank	Remote		

Duty cycle	
1	Standard service, solenoid or remote
5	Continuous service solenoid

Enclosure "class"	
21	All ports blocked in neutral (NEMA 1 & 12 enclosure) or remote
22	Cyl. Ports open to exhaust in neutral (NEMA 1 & 12 enclosure) or remote
23	Cyl. Ports open to inlet in neutral (NEMA 1 & 12 enclosure) or remote

Most popular.



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Lubricated or Non-Lubricated Service
2-position, Direct Pipe Ported, 3/8" & 1" Basic Size

L 70 5 3 9 10 2 53 —

Type	
Double	68
Single	70

Operator	
Remote	4
Solenoid	5

Size	
3/8" NPT inlet & cylinder 1/2" NPT exhaust	3
1/2" NPT inlet, cylinder & exhaust	4
1" NPT inlet & cylinder 1-1/4" NPT exhaust	8
1-1/4" NPT inlet cylinder & exhaust	9*

* Not available operator option 4 - Remote pilot.

Lead length	
Blank	19" (Standard)

Voltage & frequency			
	60Hz	50Hz	DC
45			12
49			24
53	120	110	
57	240	220	
Blank	Remote		

Duty cycle	
2	Standard service, solenoid or remote
4	Continuous service solenoid

Enclosure "Class"	
10	Standard (NEMA 1 & 12) or remote
60*†	Hazardous duty (NEMA 7 & 9)
80†	NEMA 4

* Voltage 49 / 53 only.
 † Use with operator options 1 & 3 only, voltage 53 only.

Operator options	
Solenoid (basic) or remote	1
Solenoid with locking override	3
Solenoid w/ junction box & locking override	6
Solenoid w/ junction box & light (120VAC, 24VDC) & non-locking override	8
Solenoid w/ junction box & light (120VAC, 24VDC) & locking override	9

Lubricated or Non-Lubricated Service
3-position, Direct Pipe Ported, 3/8" & 1" Basic Size

L 69 5 3 9 21 1 53 —

Type	
Double	69

Operator	
Remote	4
Solenoid	5

Size	
3/8" NPT inlet & cylinder 1/2" NPT exhaust	3
1/2" NPT inlet, cylinder & exhaust	4
1" NPT inlet & cylinder 1-1/4" NPT exhaust	8
1-1/4" NPT inlet cylinder & exhaust	9*

* Not available operator option 4 - Remote pilot.

Lead length	
Blank	19" (Standard)

Voltage & frequency			
	60Hz	50Hz	DC
45			12
49			24
53	120	110	
57	240	220	
Blank	Remote		

Duty cycle	
1	Standard service, solenoid or remote
5	Continuous service solenoid

Enclosure "Class"	
All ports blocked in neutral	
21	Standard (NEMA 1 & 12) or remote
71*†	Hazardous duty (NEMA 7 & 9)
91†	NEMA 4
Cylinder ports open to exhaust in neutral	
22	Standard (NEMA 1 & 12) or remote
72*†	Hazardous duty (NEMA 7 & 9)
92†	NEMA 4
Cylinder ports open to inlet in neutral	
23	Standard (NEMA 1 & 12) or remote
73*†	Hazardous duty (NEMA 7 & 9)
93†	NEMA 4

* Voltage 49 / 53 only.
 † Use with operator options 1, 2 & 3 only, voltage 53 only.

■ Most popular.



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Subbase & Manual Valves

H Series Micro

Moduflex Series

H Series ISO

Fieldbus Systems

DX ISOMAX Series

Valvair II Series

Modular Pneumatic Controls Plug-In Sandwich Block Design for Modular Port Regulation

These modular regulators assemble to any 3/8" basic valve interface pattern.

Port Regulation Made Easy

Place the sandwich on the manifold or subbase, tighten the four securing screws, then plug the valve into the sandwich and tighten its securing screws to complete the assembly.

Within minutes, these modular components can be installed in new, or used to improve existing manifold systems, without disturbing wiring or air connections.

3-Configurations

1. **Common Port Regulation** - A common regulated pressure is selected to both cylinder ports.
2. **Single Port Regulation** - Line pressure is available to one cylinder port, while a single regulated pressure is selected to the other cylinder port.
3. **Independent Port Regulation** - Two independently regulated pressures selected to the cylinder ports.

NOTE: When using single or independent port sandwich regulators, be aware that:

1. Cylinder port outlets are reversed.
2. 3-Position, cylinder ports open to exhaust and cylinder ports open to inlet functions are reversed. To produce a cylinder ports open to exhaust function, order valve with cylinder ports open to inlet. To produce a cylinder ports open to inlet function, order valve with cylinder ports open to exhaust.

Manual or Remote secondary pressure adjustment.

Three Pressure Ranges are standard for manual units:

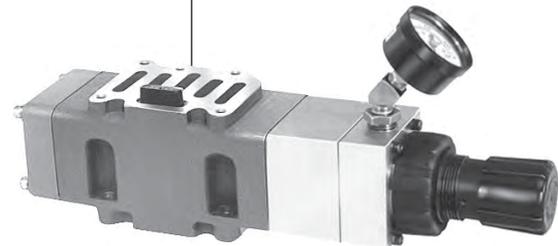
- 1-30 PSIG
- 1-60 PSIG
- 2-125 PSIG

Range for Remote: 0-140 PSIG

Gauges are furnished standard; liquid filled gauges are optional.



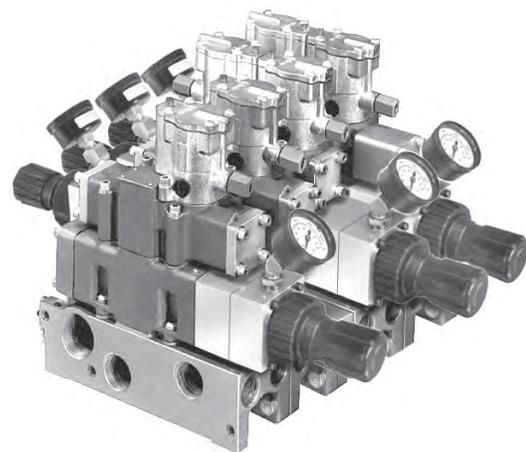
Solenoid Valve Assembly



Regulator Assembly



Manifold



Typical Assembly

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Function - Single Port Regulation

This modular air pressure regulator assembly, when installed between a 3/8" basic, 4-Way valve and subbase or modular manifold, supplies one or more regulated pressures to one of the valve cylinder ports and supply pressure to the other cylinder port.

On Single Port Cylinder Port Regulation Units controlled by a single solenoid valve, cylinder port "B" is the normally open cylinder port. The solenoid is energized to open cylinder Port "A". On double solenoid operated valves, energizing solenoid "B" opens cylinder port "A" and energizing solenoid "A" opens cylinder port "B".

Valve must be converted to external pilot supply.

Features

Regulated pressure output from the valve is adjusted by knob on the manually set model or by air pressure signal applied to the regulator pilot port on the remotely set model.

For reduced pressure at "A" cylinder port, the regulator is mounted per assembly "A" on end opposite the electrical junction box. For reduced pressure at "B" cylinder port the regulator is mounted per Assembly "B" which places the regulator over the electrical junction box.

Furnished with pressure gauge as standard.

Pressure Range Options

Maximum Supply Pressure	140 PSIG
Output Pressure Range	1 - 30 PSIG
	1 - 60 PSIG
	2 - 125 PSIG

Operating Temperature Range

32°F (0°C) to 175°F (79°C)

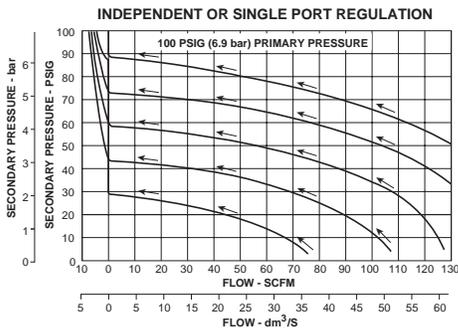
How To Order

1. Select type of adjustment.
2. Select pressure range.
3. Select assembly style.

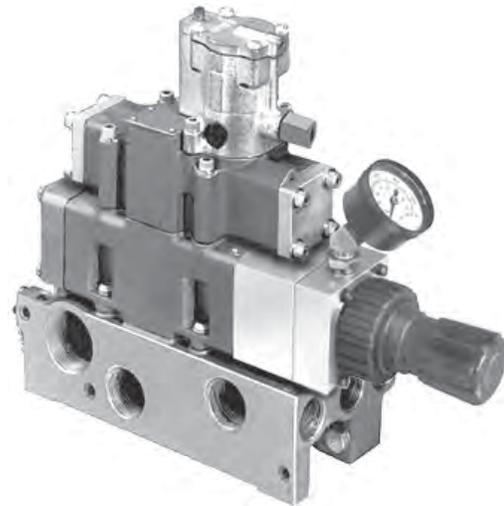
Example: Manual adjustment.
 5-60 PSIG, Port A reduced.

Model No. L55405307C

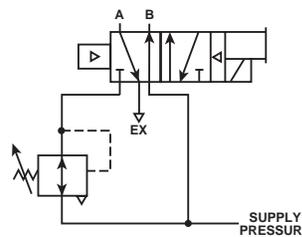
Relief and Flow Characteristics



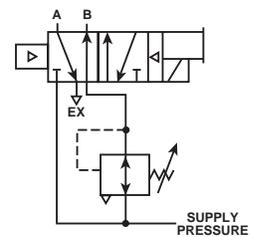
The above curves illustrate flow characteristics through an assembled valve, air regulator, and base (or modular manifold) unit.



Assembly "A"



Supply Pressure at "B" & Regulated at "A"



Supply Pressure at "A" & Regulated at "B"

Pressure adjustment	Pressure range PSIG	Model number	
		Reduced pressure Cyl. Port "A"	Cyl. Port "B"
Manual	1 - 60	L55405307C	L55407305C
	2 - 125	L55406307C	L55407306C
Remote	0 - 140	L55414307C	L55407314C

Note: When using single or independent port sandwich regulators, be aware that:

1. Cylinder port outlets are reversed.
2. 3-Position, cylinder ports open to exhaust and cylinder ports open to inlet functions are reversed. To produce a cylinder ports open to exhaust function, order valve with cylinder ports open to inlet. To produce a cylinder ports open to inlet function, order valve with cylinder ports open to exhaust.

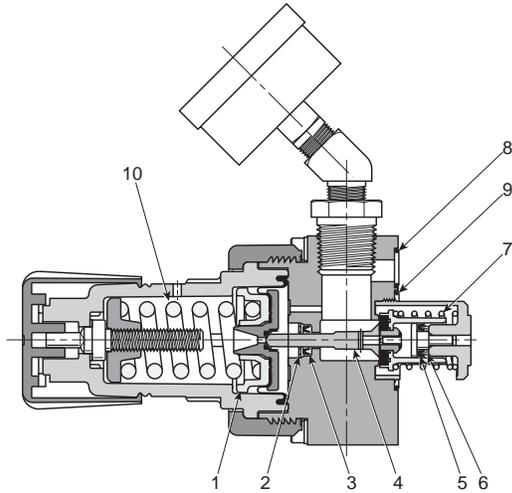
See parts and accessories for gauges.

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 Moduteflex Series
 H Series ISO
 Fieldbus Systems
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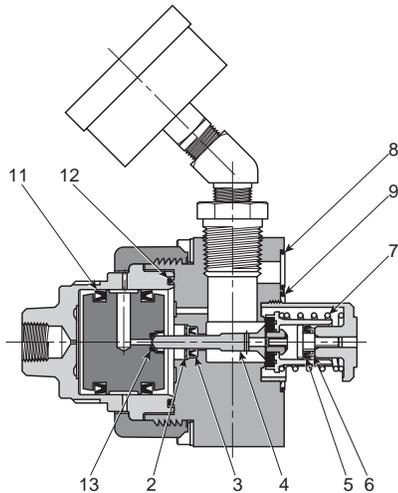


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Manual Adjusting



Remote Operated



Replacement Parts

Item no.	Part number	Description
1	○	Diaphragm Assembly
2	○ ●	Retaining Ring
3	○ ●	Vee Packing
4	○ ●	Poppet Assembly
5	○ ●	Vee Packing
6	○ ●	Backflow Retainer
7	○ ●	Poppet Spring
8	○ ●	.989 ID x .070 W O-Ring
9	○ ●	1.301 ID x .070 W O-Ring
	P01698	1-30 PSI Spring
10	P04062	1-60 PSI Spring (Blue)
	P04063	2-125 PSI Spring
11	●	Vee Packing
12	●	1.674 ID x .103 W O-Ring
13	●	Vent Seal

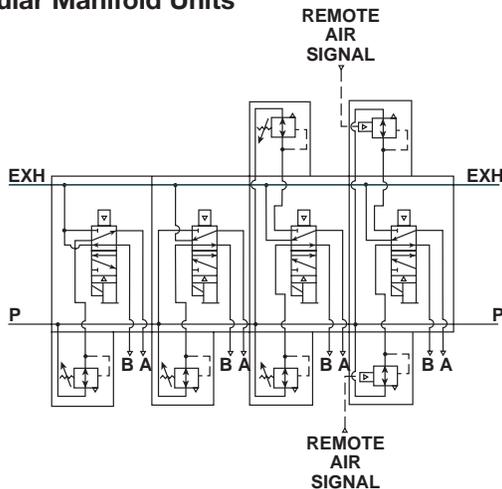
○ Parts included in K352409 service kit for manual operated modular regulators.

● Parts included in K352411 service kit for remote operated modular regulators.

Replacement Gauges

PSIG	Standard
0-60	K4520N14060
0-160	K4520N14160
0-300	K4520N14300

Suggested Schematic of Assembled Valve, Air Regulation and Modular Manifold Units

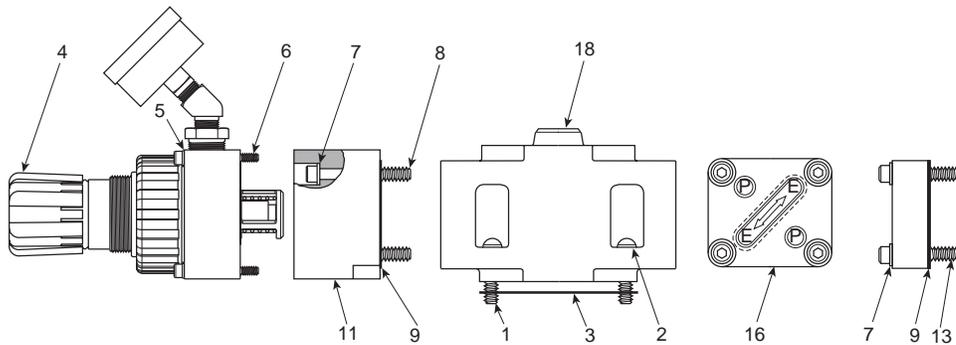


D
 Subbase & Manual Valves
 H Series Micro
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 H Series ISO
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 Valvair II Series

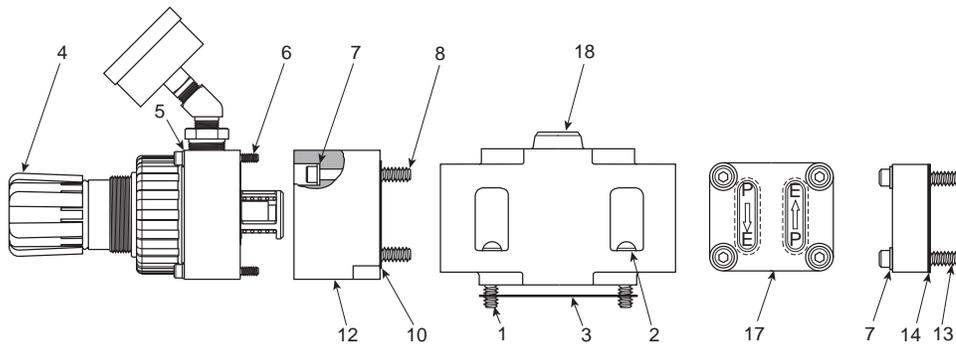


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Common Port Regulation



Single Port Regulation



Independent Port Regulation

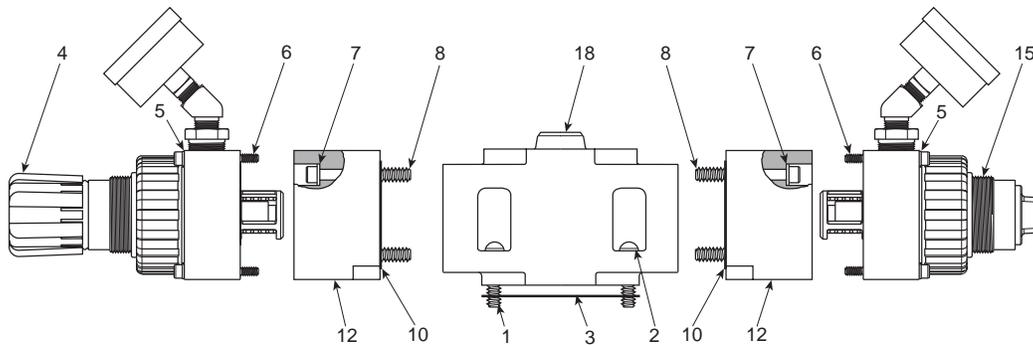


Table "E": Parts

Item No.	Part number	Description
1	H09815	Screw (4)
2	H17512	Lockwasher (4)
3	K183077	Gasket
4	Standard	Manual Reg. Assy. (w/Gauge)
	K472001C	1-30 PSIG
	K472002C	1-60 PSIG
5	K472003C	2-125 PSIG
	H17509	#10 Lockwasher
6	H10032	#10-32 x 1.75" Lg. SHCS
7	H17511	1/4" Lockwasher
8	H10069	1/4-20 x 2.25" Lg. SHCS

Item No.	Part number	Description
9	K183082	Gasket
10	K183084	Gasket
11	K043012	Function Block (P to P)
12	K043011	Function Block (P to E)
13	H100107	1/4-20 x 1-1/2" Lg. SHCS
14	K183083	Gasket
15	Standard	Remote Reg. Assy. (w/Gauge)
	K472009C	0-140 PSIG
16	K362308	Function Plate Assy. (Incl. 7, 9, 13)
17	K362307	Function Plate Assy. (Incl. 7, 13, 14)
18	K032270	Body Assy. (Incl. 1, 2, 3)



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Subbase & Manual Valves

H Series Micro

Moduflex Series

H Series ISO

Fieldbus Systems

DX ISOMAX Series

Valvair II Series

Service Kits

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	Series (prefix)	Solenoid operated *				Remote pilot operated	
		Standard service (intermittent duty)		Special service ** (continuous duty)		Single	Double 2 & 3-position
Size		Single	Double 2 & 3-position	Single	Double 2 & 3-position	Single	Double 2 & 3-position
3/8"	L65	—	K352126	—	K352127	—	K352355
	L66	—	K352126	—	K352127	—	K352355
	L67	K352124	—	K352125	—	K352362	—
	L68	—	K352126	—	K352127	—	K352355
	L69	—	K352126	—	K352127	—	K352355
	L70	K352124	—	K352125	—	K352362	—
	L70	K352128	—	K352129	—	K352359	—
1"	L65	—	K352130	—	K352131	—	K352360
	L66	—	K352130	—	K352131	—	K352360
	L67	K352128	—	K352129	—	K352359	—
	L68	—	K352130	—	K352131	—	K352360
	L69	—	K352130	—	K352131	—	K352360
	L70	K352128	—	K352129	—	K352359	—
	L70	K352128	—	K352129	—	K352359	—

Notes:

* Kits for solenoid operated valves include solenoid service kits.

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

Blank Plate Kit - 3/8" Basic

Manifold assembly	Port size	Part number
K142230	3/8"	K06020003
K142231	1/2"	
K142270	3/4"	

Kit includes: Blank plate, gasket, mounting screws.

Conversion Kits: Lubricated to Non-Lubricated Operation

Basic size	Operators (solenoid or remote pilot)	
	Single	Double (2-position)
3/8"	K322012	K322013

Flush Type Hex Drive Pipe Plugs for Port Isolation

Size (NPTF)	Part number
1/8"	K21R02012L
1/4"	K21R02025L
3/8"	K21R02037L
1/2"	K21R02050L
3/4"	K21R02075L

Electrical Connectors Single or Double Solenoid Valves

Basic size	Valve body		Subbase / manifold	
	Single solenoid	Double solenoid	10" leads	72" leads
3/8"	H02723	H02722	H02713	H02789
1"				

Interchangeable Manual Override Assemblies for Solenoid Operators



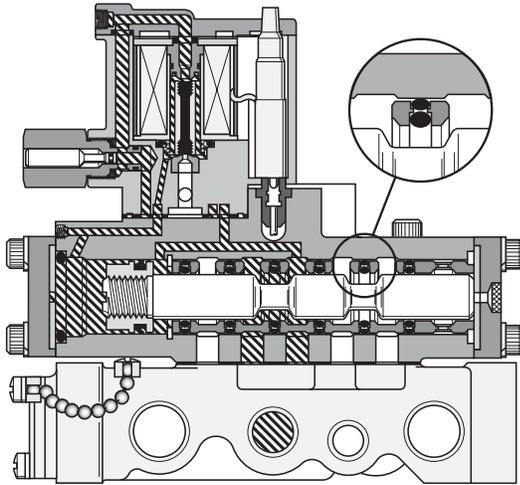
Non-locking type	Locking type
K162001	K152003

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.

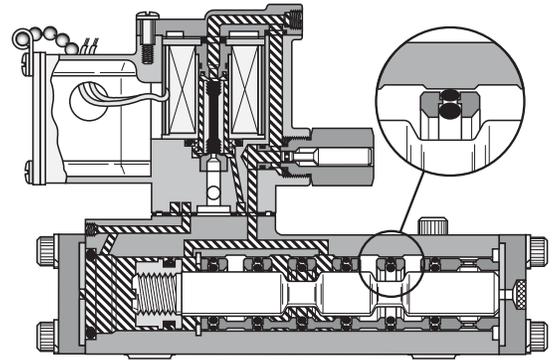


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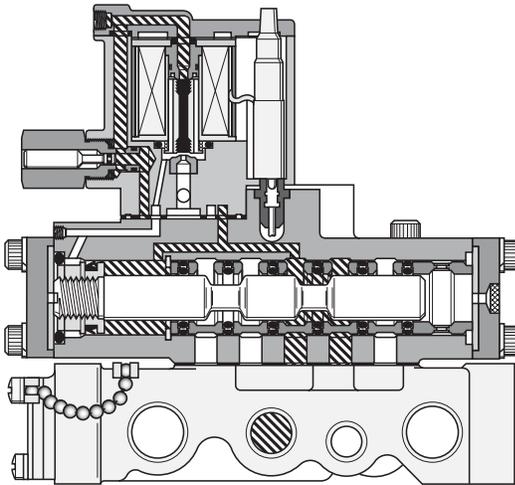
Plug-In
 De-Energized



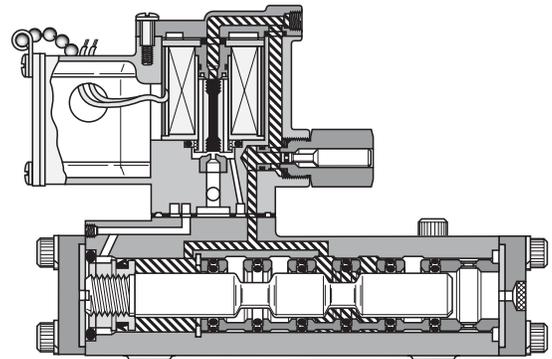
Direct Pipe Ported
 De-Energized



Energized



Energized



 **Pressure**  **Exhaust**

D	Subbase & Manual Valves
H Series Micro	Modulflex Series
H Series ISO	Fieldbus Systems
DX ISOMAX Series	Valvair II Series



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Flow Capacities

Valve Type	Cylinder Port Size (NPTF)	Mounting Style	Cv Flow Rating Inlet to Cylinder "A"
3/8" Single	3/8"	Direct Pipe	4.7
	1/2"	Direct Pipe	5.3
3/8" Double	3/8"	Direct Pipe	4.5
	1/2"	Direct Pipe	5.5
	3/4"	Subbase	5.0
	3/4"	Manifold	4.9
3/8" Double 3-Position	3/8"	Direct Pipe	4.1
	1/2"	Direct Pipe	4.5
	3/4"	Subbase	4.5
	3/4"	Manifold	4.1
1" Single & Double	1"	Direct Pipe	12.0
		Subbase	11.3

Recommended Filtration

Maintained 40 Micron Filtration

Life Expectancy

Valves designed for non-lubricated service as well as those designed for lubricated service will provide millions of maintenance free cycles. Under laboratory conditions service life exceeds 25,000,000 cycles.

Factory Pre-Lubrication

Valves are lubricated at assembly with Sunaplex 781 or equivalent. Valves specified for vacuum service are lubricated with Dow Corning Valve Seal A.

Valves for Non-Lubricated Service

3/8" basic valve sizes are designed to operate in applications where in-service lubrication is not desirable. Valves are factory pre-lubed as noted above. These valves may be used for lubricated service as well.

Lubrication

Air Line Lubricant (compatible with Nitrile & Polyurethane seals) must readily atomize and be of the medium aniline type. Aniline point range must be between 180° and 220°F. Viscosity @ 100°F: 140-170 SUS.

Recommended Lubricant

If in-service lubrication is required, use F442 oil, or equivalent. F442 is specially formulated to provide peak performance and maximum service life for air operated equipment.

Listing Agencies

General Purpose Approvals

CSA - Canadian Standards Association
 File Number 42024

Hazardous Duty Approvals

UL - Underwriters Laboratories, Inc.
 File Number E42542
 Category Y107

CSA - Canadian Standards Association
 File Number 24349

Solenoid Enclosure Ratings

Type	Listing agency	NEMA rating	Description
Plug-In	CSA	1 & 12	General purpose indoor only dust tight
Conduit / flying lead	CSA	1 & 12	General purpose indoor only dust tight
* Conduit (as specified)	UL & CSA	7 & 9	Hazardous location see chart below)
* Conduit (as specified)	CSA	4	General purpose indoor / outdoor

* See ordering information on specific valve type. (Direct Pipe Ported Valves Only.)

Hazardous Duty Solenoid Listing

Valves with solenoid operators designated for hazardous locations are UL & CSA Approved as follows:

National electric code	Ambient conditions	NEMA Classification
Class I Div. 1 Group C	Ethyl, Ether, Etc., Gases & Vapors	VII (7)
Class I Div. 1 Group D	Gasoline, Etc., Gases & Vapors	VII (7)
Class I Div. 2 Group B	Butadiene, Etc., Liquid, Fluid or Vapor Normally Contained, or Atmosphere Ventilated	VII (7)
Class II Div. 1 Group E	Metal Dust	IX (9)
Class II Div. 1 Group F	Coal, Coke, Carbon Black Dust	IX (9)
Class II Div. 1 Group G	Flour, Starch, Grain Dust	IX (9)

See Article 500 - Hazardous (Classified) Locations, National Electric Code.



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Installation

Valves should be installed with reasonable accessibility for service. Exercise care in keeping piping lengths to a minimum. Piping should be free of dirt, chips & scale. Pipe joint compound should be used sparingly applied only to the thread, never to the valve body. Avoid undue strain at piping joints. Protect the valve from exposure to extreme temperatures, dirt and moisture to maximize life.

Note: Valves equipped with locking manual overrides. Override(s) must be in the fully extended position for proper valve operation.

Double Solenoid / Remote Caution

Note: It is recommended that double solenoid and double remote 2-Position valves be mounted with the main spool in the horizontal plane.

Wiring Instructions for Base Mounted Valves

Single Solenoid:

Use wires marked "2" & "3" for connection. Units with DC Solenoids and indicator lights are polarity sensitive. Wire marked "3" is positive (+).

Double Solenoid:

Use wires marked "1" & "2" for Solenoid "A". Use wires marked "3" & "4" for Solenoid "B". Units with DC Solenoids and indicator lights are polarity sensitive. Wires marked "1" and "3" are positive.

CAUTION:

DC Solenoids are polarity sensitive. Observe polarities indicated above.

Units with Flying Leads

Wires are not polarity sensitive.

CAUTION:

DC solenoids with indicator lights and / or arc suppression coils are polarity sensitive. Use red wire as positive.

"Special Service" Solenoid (Continuous Duty)

Special Service Solenoids are designed for use when the solenoid duty cycle is greater than 70% or when energization times are for 10 minutes or longer.

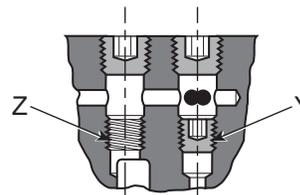
These solenoids should be used when valves are to be held energized for hours, days or weeks... or when extended ambient temperature operation is required. Apply the duty cycle formula to determine if this type of solenoid is required.

Duty Cycle Formula

$$\frac{\text{Time Energized}}{\text{Time Energized} + \text{Time Off}} \times 100 = \% \text{ Duty Cycle}$$

If Duty Cycle is 70% or greater, then Special Service (Continuous Duty) Solenoid should be used.

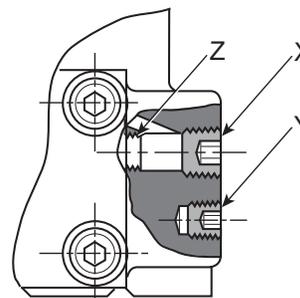
Pilot Supply Conversion



Base Mounted

For field conversion to external pilot supply, remove two 1/8" NPTF plugs from top of valve body and move bottom plug from "Y" to "Z".

Replace 1/8" NPTF plugs and connect pilot pressure to the 1/4" NPTF external pilot supply port "X" in subbase.



Direct Pipe Ported

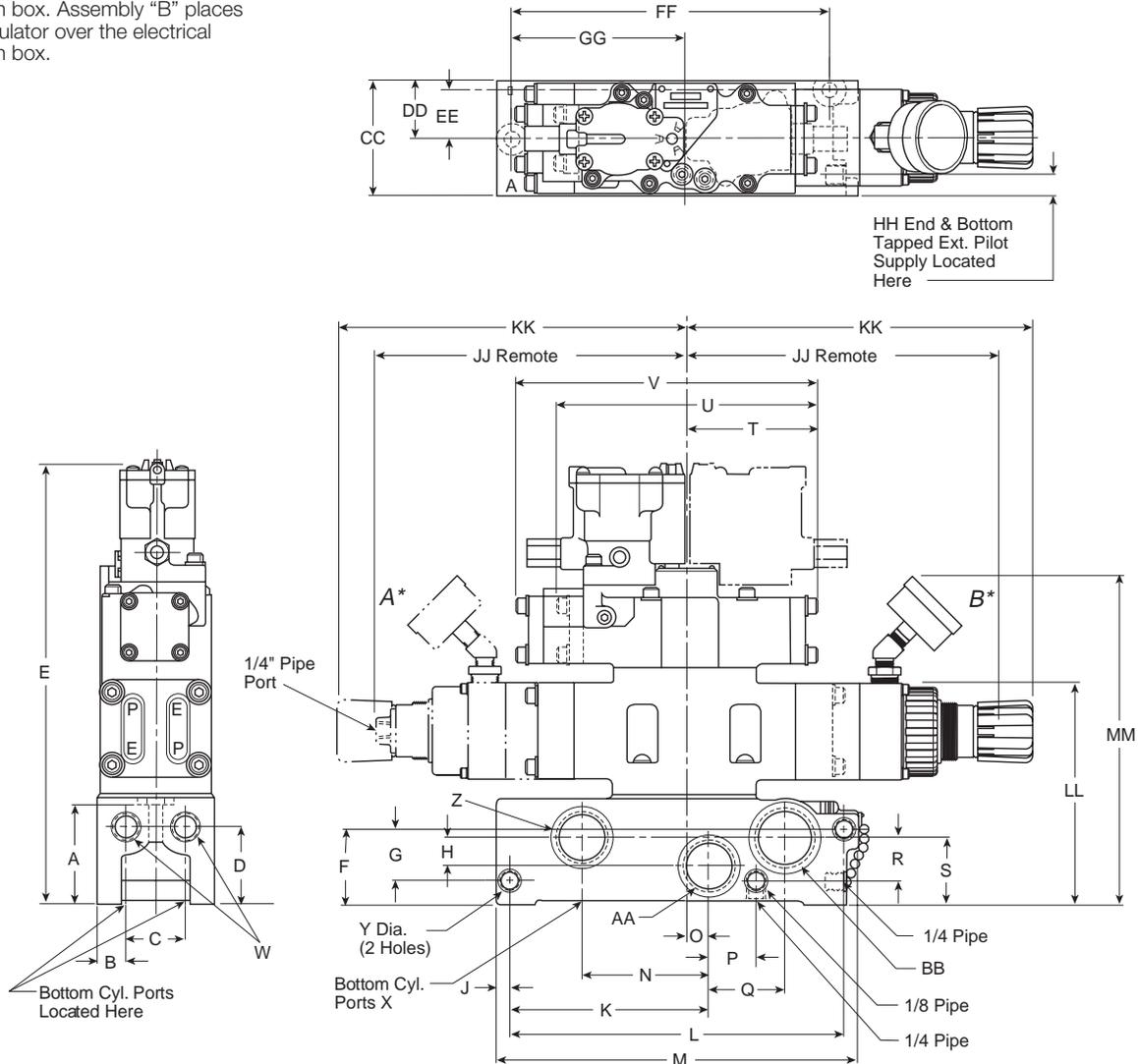
For field conversion to external pilot supply, remove and discard 1/4" NPTF plug in external pilot supply port "X". Move stored plug "Y" to location "Z" in bottom of pilot supply port "X". Then connect pilot pressure to port "X" in valve body.

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	H Series Micro
H Series	Modutlex Series
	ISO
Fieldbus Systems	DX ISOMAX Series
	Valvair II Series



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* Assembly "A" places the regulator on the end opposite the electrical junction box. Assembly "B" places the regulator over the electrical junction box.



Dimensions - 3/8" Basic Valve

A	B	C	D	E	F	G	H	J	K	L	M	N	O
2.56 (65.0)	.75 (19.1)	1.50 (38.1)	2.09 (53.1)	11.28 (286.5)	2.06 (52.3)	1.41 (35.8)	.75 (19.1)	.34 (8.64)	5.00 (127.0)	8.44 (214.4)	9.09 (230.9)	3.19 (81.0)	.61 (15.5)
P	Q	R	S	T	U	V	W	X	Y	Z	AA	BB	CC
1.19 (30.2)	1.91 (48.5)	1.09 (27.7)	1.81 (46.0)	3.32 (84.3)	6.64 (168.7)	7.56 (192.0)	3/8", 1/2" or 3/4" NPTF	.39 (9.9)	1" NPTF	1" NPTF	1-1/4" NPTF	3.00 (76.2)	
DD	EE	FF	GG	HH	JJ	KK	LL	MM					
1.50 (38.1)	1.24 (31.5)	7.97 (202.4)	4.34 (110.2)	.40 (10.2)	8.53 (216.6)	10.15 (257.8)	5.46 (138.6)	8.80 (223.5)					

Inches (mm)



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D

Subbase & Manual Valves

H Series Micro

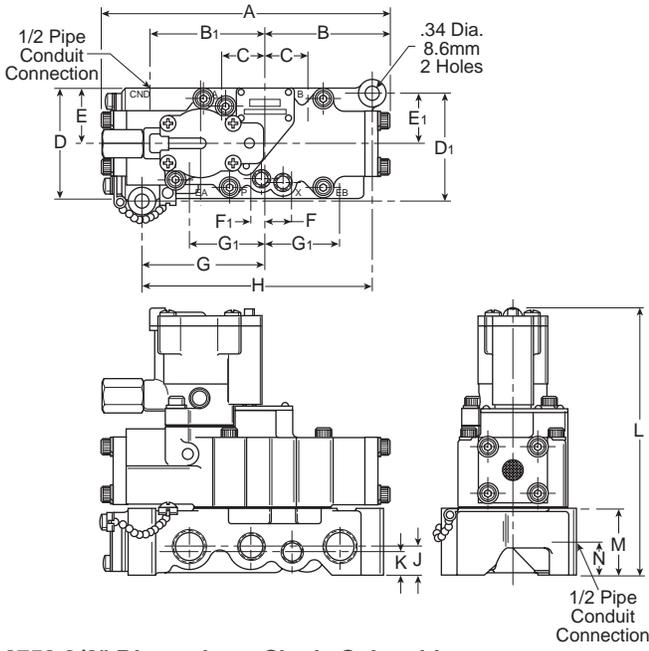
Moduflex Series

H Series ISO

Fieldbus Systems

DX ISOMAX Series

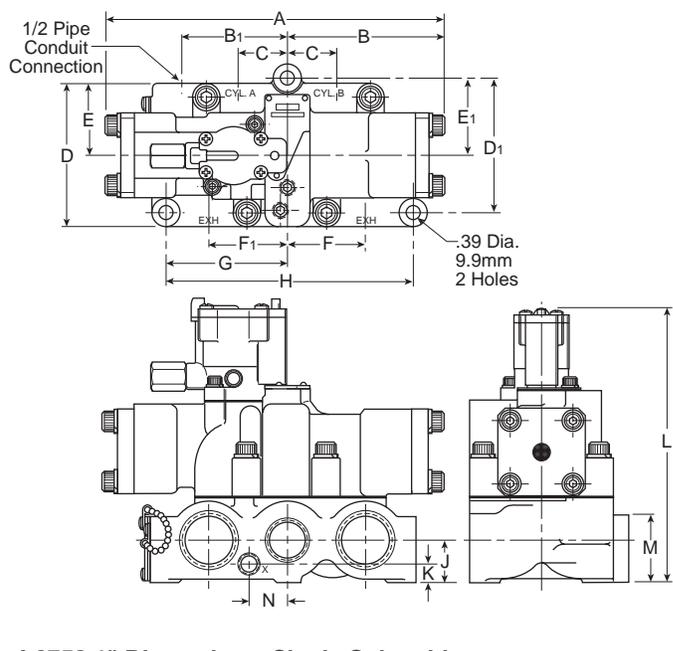
Valvair II Series



L6753 3/8" Dimensions, Single Solenoid

A	B	B ₁	C	D	D ₁	E	E ₁	F
7.56 (192)	3.32 (84.3)	2.94 (74.7)	1.12 (28.4)	2.88 (73.2)	2.84 (72.1)	1.44 (36.6)	1.34 (34)	.75 (19.1)
F ₁	G	G ₁	H	J	K	L	M	N
.38 (9.7)	3.16 (80.3)	2.00 (50.8)	6.03 (153.2)	.75 (19.1)	.62 (15.7)	6.93 (176)	1.75 (44.5)	1.00 (25.4)

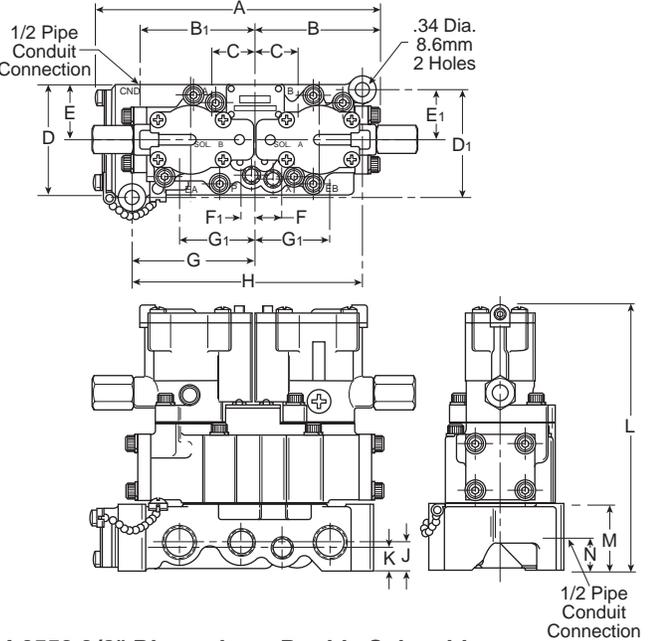
Inches (mm)



L6758 1" Dimensions, Single Solenoid

A	B	B ₁	C	D	D ₁	E	E ₁	F
10.46 (265.7)	4.75 (120.6)	2.94 (74.7)	3.38 (85.8)	4.56 (115.8)	4.28 (108.7)	2.28 (57.9)	2.44 (62)	2.45 (62.2)
F ₁	G	H	J	K	L	M	N	
2.46 (62.5)	3.81 (96.8)	7.62 (193.5)	1.31 (33.3)	.59 (15)	8.74 (222)	2.09 (53.1)	1.22 (31)	

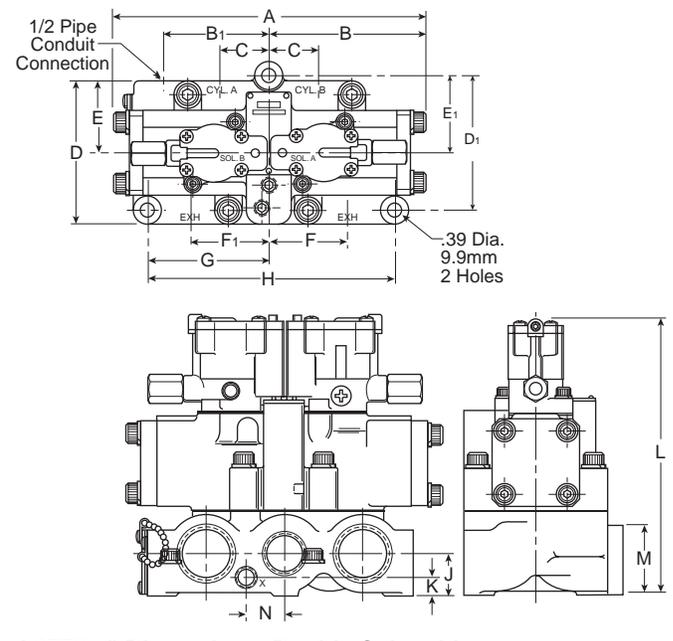
Inches (mm)



L6553 3/8" Dimensions, Double Solenoid

A	B	B ₁	C	D	D ₁	E	E ₁	F
7.38 (187.5)	3.32 (84.3)	2.94 (74.7)	1.12 (28.4)	2.88 (73.2)	2.84 (72.1)	1.44 (36.6)	1.34 (34)	.75 (19.1)
F ₁	G	G ₁	H	J	K	L	M	N
.38 (9.7)	3.16 (80.3)	2.00 (50.8)	6.03 (153.2)	.75 (19.1)	.62 (15.7)	6.93 (176)	1.75 (44.5)	1.00 (25.4)

Inches (mm)



L6558 1" Dimensions, Double Solenoid

A	B	B ₁	C	D	D ₁	E	E ₁	F
9.50 (241.3)	4.75 (120.6)	3.38 (85.8)	1.53 (38.9)	4.56 (115.8)	4.28 (108.7)	2.28 (57.9)	2.44 (62)	2.45 (62.2)
F ₁	G	H	J	K	L	M	N	
2.46 (62.5)	3.81 (96.8)	7.62 (193.5)	1.31 (33.3)	.59 (15)	8.74 (222)	2.09 (53.1)	1.22 (31)	

Inches (mm)

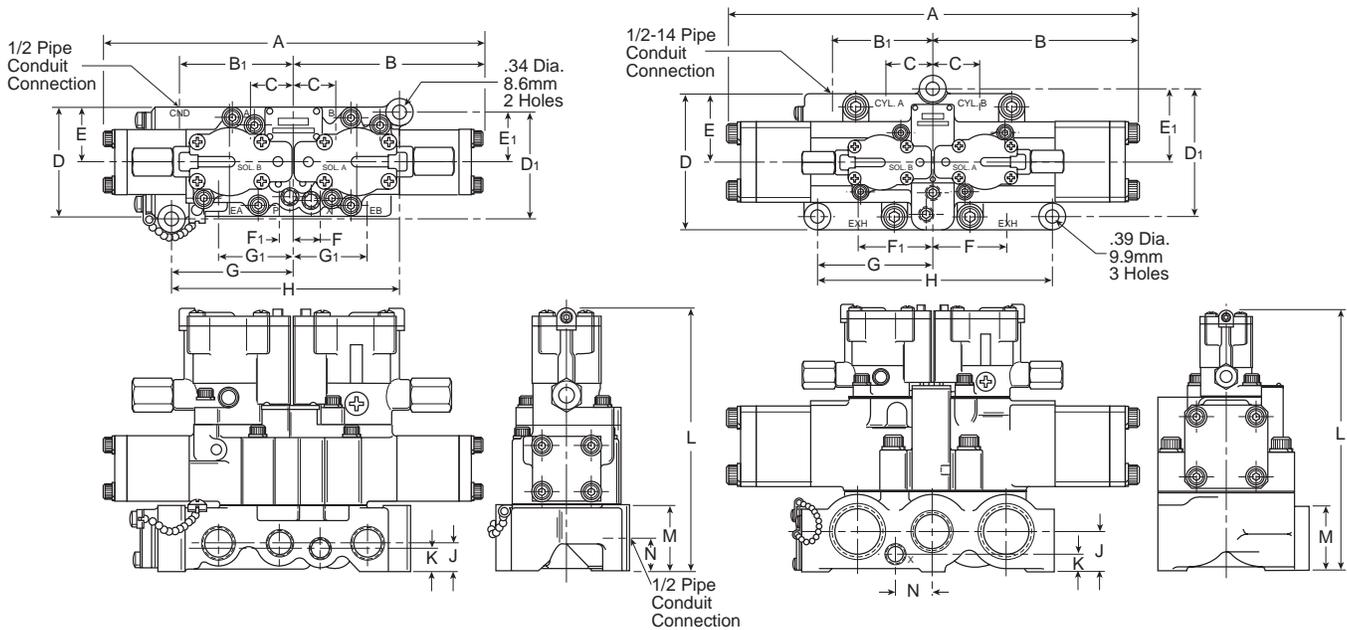
D
 Subbase & Manual Valves
 H Series Micro
 Moduteflex Series
 H Series ISO
 Fieldbus Systems
 DX ISOMAX Series
 Valvair II Series



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L6653 3/8" Dimensions, 3-Position, Double Solenoid

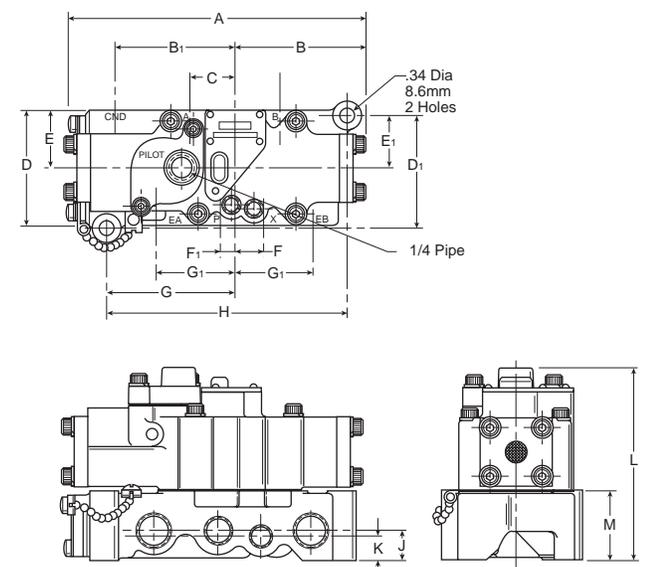
A	B	B ₁	C	D	D ₁	E	E ₁	F
9.64	4.82	2.94	1.12	2.88	2.84	1.44	1.34	.75
(244.8)	(122.4)	(74.7)	(28.4)	(73.2)	(72.1)	(36.6)	(34)	(19.1)
F ₁	G	G ₁	H	J	K	L	M	
.38	3.16	2.00	6.03	.75	.62	6.93	1.00	
(9.7)	(80.3)	(50.8)	(153.2)	(19.1)	(15.7)	176)	(25.4)	

Inches (mm)

L6658 1" Dimensions, 3-Position, Double Solenoid

A	B	B ₁	C	D	D ₁	E	E ₁	F
13.62	6.81	3.38	1.53	4.56	4.28	2.28	2.44	2.45
(345.9)	(173)	(85.8)	(38.9)	(115.8)	(108.7)	(57.9)	(62)	(62.2)
F ₁	G	H	J	K	L	M	N	
2.46	3.81	7.62	1.31	.59	8.74	2.09	1.22	
(62.5)	(96.8)	(193.5)	(33.3)	(15)	(222)	(53.1)	(31)	

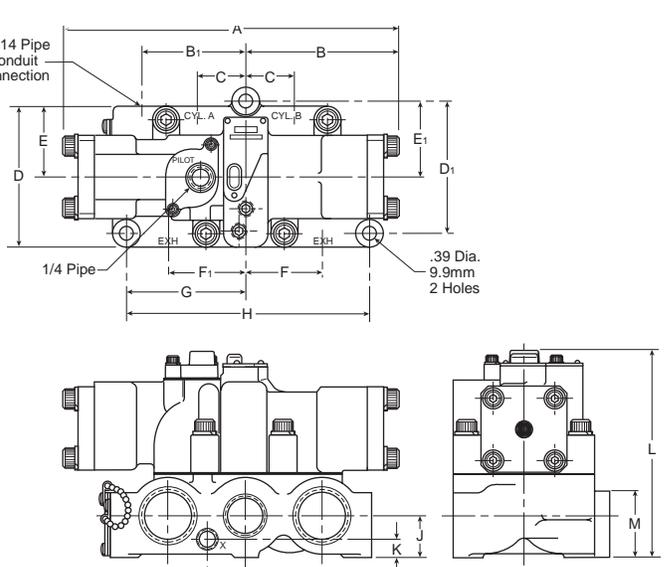
Inches (mm)



L6743 3/8" Dimensions, Single Remote Pilot

A	B	B ₁	C	D	D ₁	E	E ₁	F
7.56	3.32	2.94	1.12	2.88	2.84	1.44	1.34	.75
(192)	(84.3)	(74.7)	(28.4)	(73.2)	(72.1)	(36.6)	(34)	(19.1)
F ₁	G	G ₁	H	J	K	L	M	
.38	3.16	2.00	6.03	.75	.62	4.76	1.75	
(9.7)	(80.3)	(50.8)	(153.2)	(19.1)	(15.7)	(120.9)	(44.5)	

Inches (mm)



L6748 1" Dimensions, Single Remote Pilot

A	B	B ₁	C	D	D ₁	E	E ₁	F
10.46	4.75	3.38	1.53	4.56	4.28	2.28	2.44	2.45
(265.7)	(120.6)	(85.8)	(38.9)	(115.8)	(108.7)	(57.9)	(62)	(62.2)
F ₁	G	H	J	K	L	M	N	
2.46	3.81	7.62	1.31	.59	6.57	2.09	1.22	
(62.5)	(96.8)	(193.5)	(33.3)	(15)	(166.9)	(53.1)	(31)	

Inches (mm)

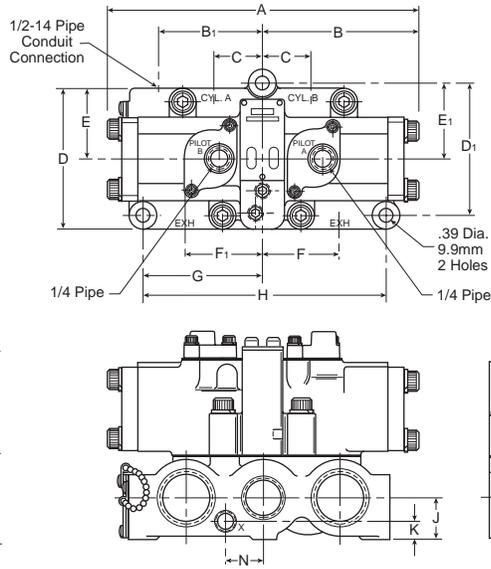
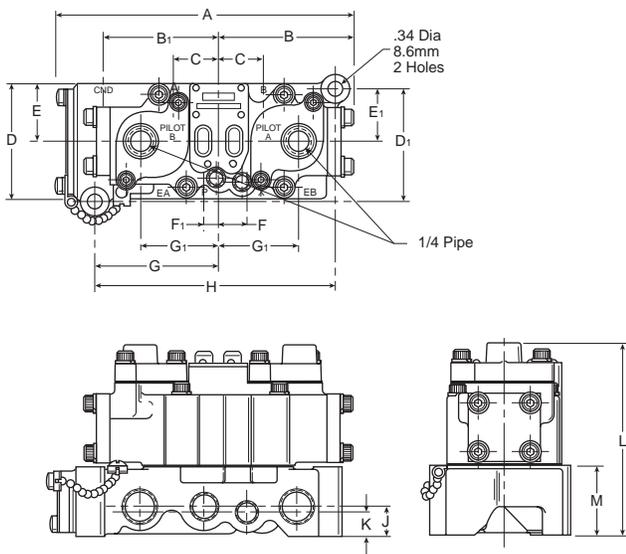


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 Valvair II Series



L6543 3/8" Dimensions, Double Remote Pilot

A	B	B ₁	C	D	D ₁	E	E ₁	F
7.56 (192)	3.32 (84.3)	2.94 (74.7)	1.12 (28.4)	2.88 (73.2)	2.84 (72.1)	1.44 (36.6)	1.34 (34)	.75 (19.1)
F ₁	G	G ₁	H	J	K	L	M	N
.38 (9.7)	3.16 (80.3)	2.00 (50.8)	6.03 (153.2)	.75 (19.1)	.62 (15.7)	4.76 (120.9)	1.75 (44.5)	

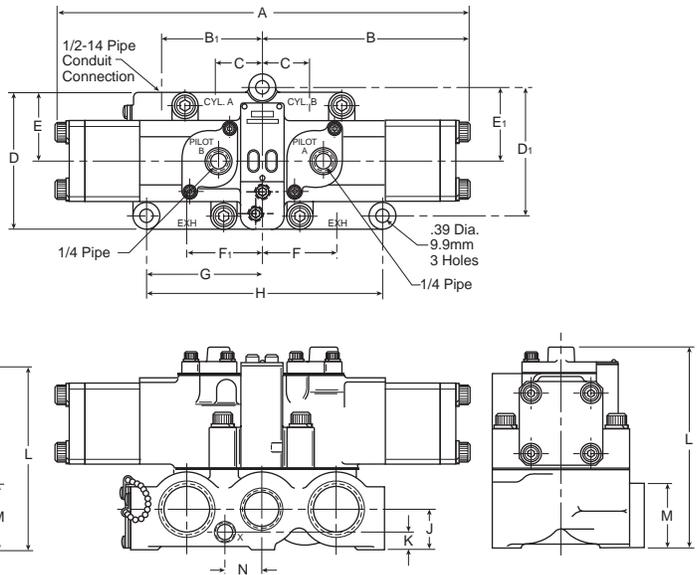
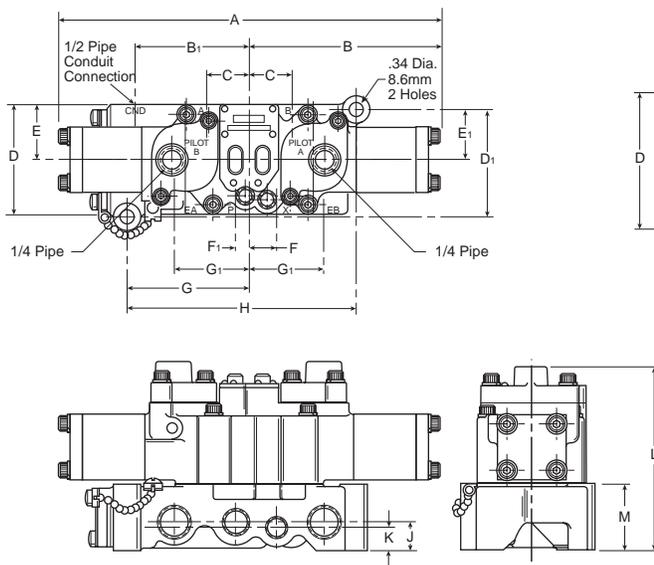
Inches (mm)

L6548 1" Dimensions, Double Remote Pilot

A	B	B ₁	C	D	D ₁	E	E ₁	F
9.50 (241.3)	4.75 (120.6)	3.38 (85.8)	1.53 (38.9)	4.56 (115.8)	4.28 (108.7)	2.28 (57.9)	2.44 (62)	2.45 (62.2)
F ₁	G	H	J	K	L	M	N	
2.46 (62.5)	3.81 (96.8)	7.62 (193.5)	1.31 (33.3)	.59 (15)	6.57 (166.9)	2.09 (53.1)	1.22 (31)	

Inches (mm)

D
 Subbase & Manual Valves
 H Series Micro
 Moduteflex Series
 H Series ISO
 Fieldbus Systems
 DX ISOMAX Series
 Valvair II Series



L6643 3/8" Dimensions, 3-Position, Remote Pilot

A	B	B ₁	C	D	D ₁	E	E ₁	F
9.64 (244.8)	4.82 (122.4)	2.94 (74.7)	1.12 (28.4)	2.88 (73.2)	2.84 (72.1)	1.44 (36.6)	1.34 (34)	.75 (19.1)
F ₁	G	G ₁	H	J	K	L	M	N
.38 (9.7)	3.16 (80.3)	2.00 (50.8)	6.03 (153.2)	.75 (19.1)	.62 (15.7)	4.76 (120.9)	1.75 (44.5)	

Inches (mm)

L6648 1" Dimensions, 3-Position, Remote Pilot

A	B	B ₁	C	D	D ₁	E	E ₁	F
13.62 (345.9)	6.81 (173)	3.38 (85.8)	1.53 (38.9)	4.56 (115.8)	4.28 (108.7)	2.28 (57.9)	2.44 (62)	2.45 (62.2)
F ₁	G	H	J	K	L	M	N	
2.46 (62.5)	3.81 (96.8)	7.62 (193.5)	1.31 (33.3)	.59 (15)	6.57 (166.8)	2.09 (53.1)	1.22 (31)	

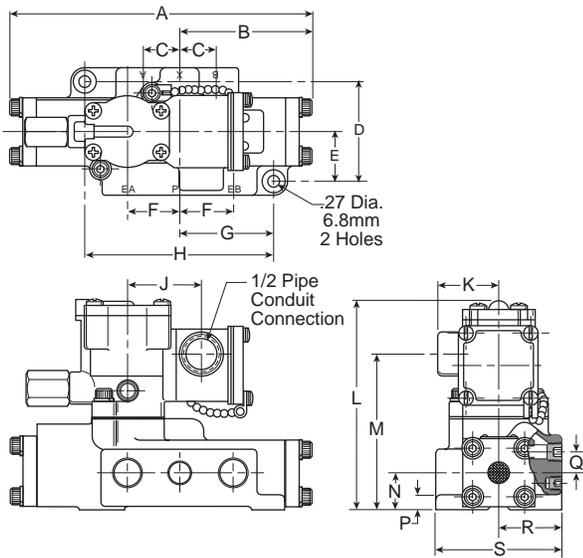
Inches (mm)



For inventory, lead times, and kit lookup, visit www.pdnplu.com

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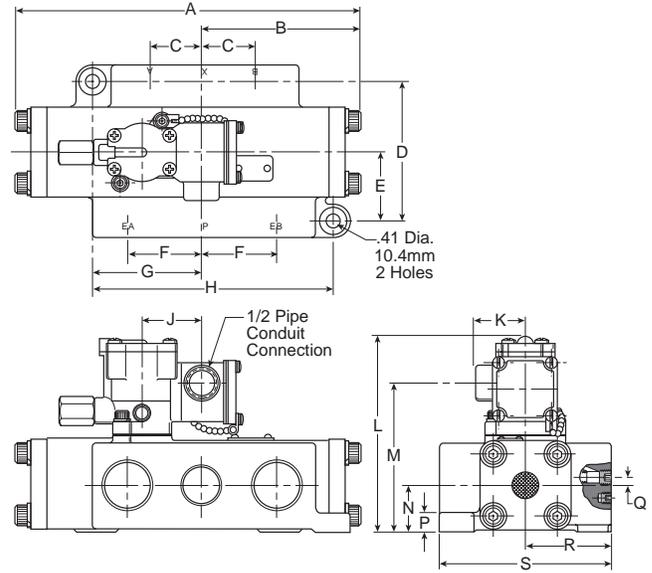
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 Pneumatic Division
 Richland, Michigan
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L705 3/8" Dimensions, Single Solenoid

A	B	C	D	E	F	G	H	J
7.56	3.32	.90	2.56	1.28	1.33	2.34	4.69	1.82
(192)	(84.3)	(22.9)	(65)	(32.5)	(33.8)	(59.4)	(119.1)	(46.2)
K	L	M	N	P	Q	R	S	
1.50	5.35	3.91	.94	.38	.53	1.62	3.25	
(38.1)	(135.9)	(99.3)	(23.9)	(9.7)	(13.5)	(41.1)	(82.6)	

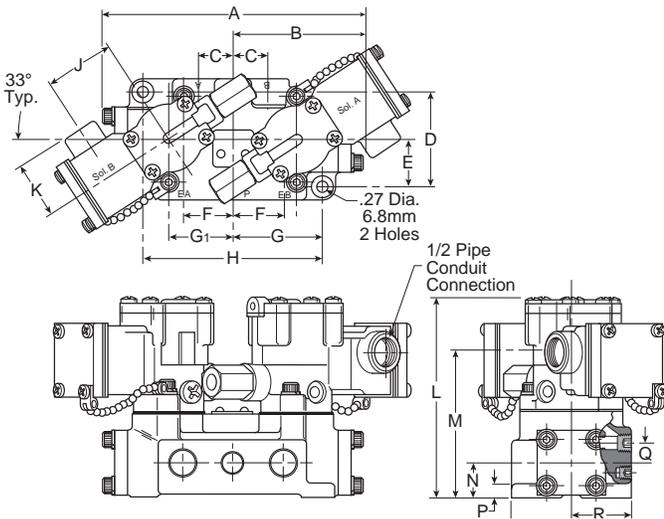
Inches (mm)



L705 1" Dimensions, Single Solenoid

A	B	C	D	E	F	G	H	J
10.46	4.75	1.62	4.25	2.12	2.19	3.44	7.44	1.82
(265.7)	(120.6)	(41.1)	(108)	(53.8)	(55.6)	(87.4)	(189)	(46.2)
K	L	M	N	P	Q	R	S	
1.50	6.44	4.95	1.50	.69	.20	2.62	5.25	
(38.1)	(163.6)	(125.7)	(38.1)	(17.5)	(5.1)	(66.5)	(133.4)	

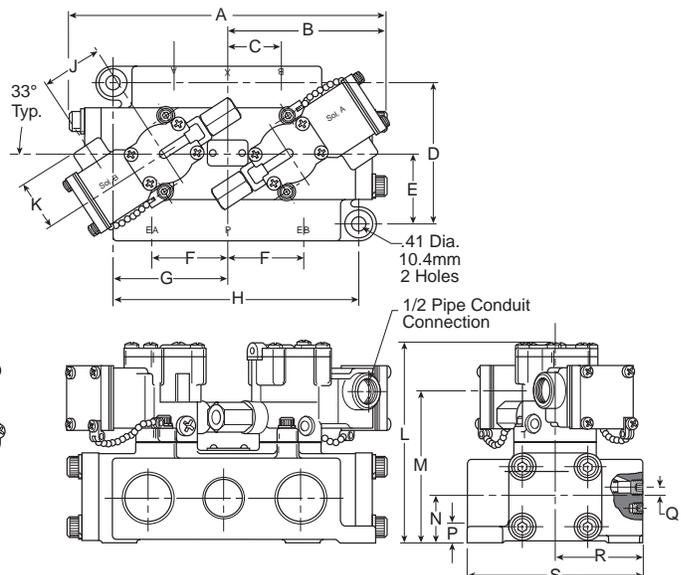
Inches (mm)



L685 3/8" Dimensions, Double Solenoid

A	B	C	D	E	F	G	G ₁	H
7.56	3.32	.90	2.56	1.28	1.33	2.34	1.66	4.69
(192)	(84.3)	(22.9)	(65)	(32.5)	(33.8)	(59.4)	(42.4)	(119.1)
J	K	L	M	N	P	Q	R	S
1.82	1.50	5.35	3.91	.94	.38	.53	1.62	3.25
(46.2)	(38.1)	(135.9)	(99.3)	(23.9)	(9.7)	(13.5)	(41.1)	(82.6)

Inches (mm)



L685 1" Dimensions, Double Solenoid

A	B	C	D	E	F	G	H	J
9.50	4.75	1.62	4.25	2.12	2.19	3.44	7.44	1.82
(241.3)	(120.6)	(41.1)	(108)	(53.8)	(55.6)	(87.4)	(189)	(46.2)
K	L	M	N	P	Q	R	S	
1.50	6.44	4.95	1.50	.69	.20	2.62	5.25	
(38.1)	(163.6)	(125.7)	(38.1)	(17.5)	(5.1)	(66.5)	(133.4)	

Inches (mm)

D

Subbase & Manual Valves

H Series Micro

Moduflex Series

H Series ISO

Fieldbus Systems

DX ISOMAX Series

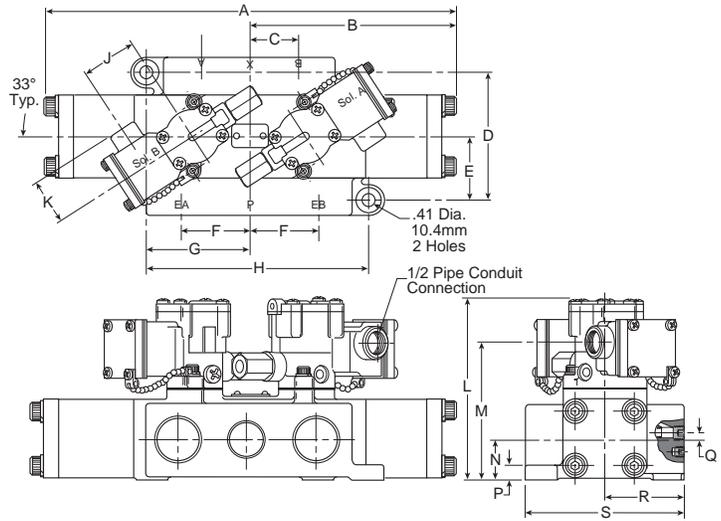
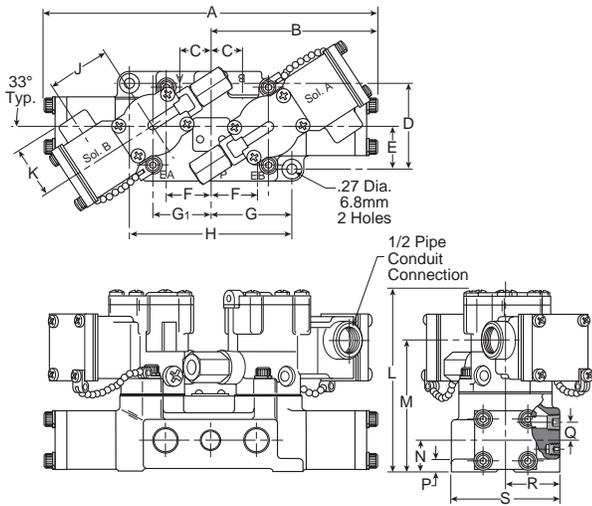
Valvair II Series



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L695 3/8" Dimensions, 3-Position Double Solenoid

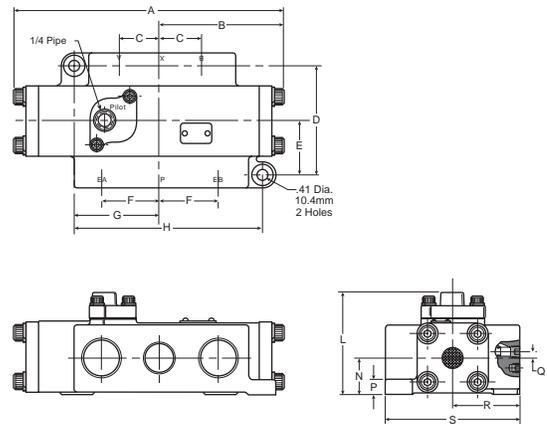
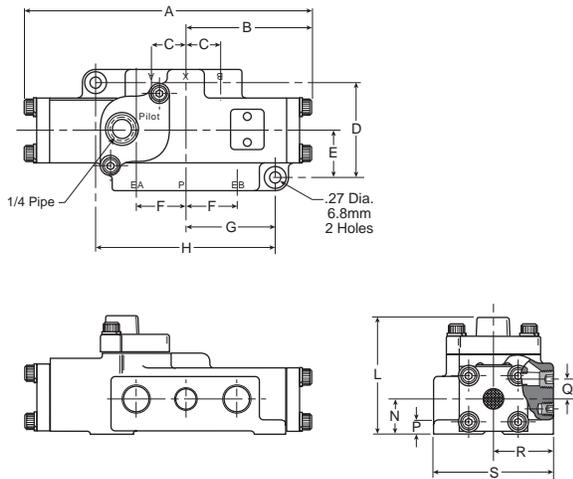
A	B	C	D	E	F	G	G ₁	H
9.64 (244.8)	4.82 (122.4)	.90 (22.9)	2.56 (65)	1.28 (32.5)	1.33 (33.8)	2.34 (59.4)	1.66 (42.4)	4.69 (119.1)
J	K	L	M	N	P	Q	R	S
1.82 (46.2)	1.50 (38.1)	5.35 (135.9)	3.91 (99.3)	.94 (23.9)	.38 (9.7)	.53 (13.5)	1.62 (41.1)	3.25 (82.6)

Inches (mm)

L695 1" Dimensions, 3-Position, Double Solenoid

A	B	C	D	E	F	G	H	J
13.63 (346.2)	6.81 (173)	1.62 (41.1)	4.25 (108)	2.12 (53.8)	2.19 (55.6)	3.44 (87.4)	7.44 (189)	1.82 (46.2)
K	L	M	N	P	Q	R	S	
1.50 (38.1)	6.44 (163.6)	4.95 (125.7)	1.50 (38.1)	.69 (17.5)	.20 (5.1)	2.62 (66.5)	5.25 (133.4)	

Inches (mm)



L704 3/8" Dimensions, Single Remote Pilot

A	B	C	D	E	F	G	H	L
7.56 (192)	3.32 (84.3)	.90 (22.9)	2.56 (65)	1.28 (32.5)	1.33 (33.8)	2.34 (59.4)	4.69 (119.1)	3.18 (80.8)
N	P	Q	R	S				
.94 (23.9)	.38 (9.7)	.53 (13.5)	1.62 (41.1)	3.25 (82.6)				

Inches (mm)

L704 1" Dimensions, Single Remote Pilot

A	B	C	D	E	F	G	H	L
10.46 (265.7)	4.75 (120.6)	1.62 (41.1)	4.25 (108)	2.12 (53.8)	2.19 (55.6)	3.44 (87.4)	7.44 (189)	4.09 (103.9)
N	P	Q	R	S				
1.50 (38.1)	.69 (17.5)	.20 (5.1)	2.62 (66.5)	5.25 (133.4)				

Inches (mm)

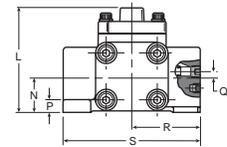
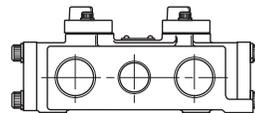
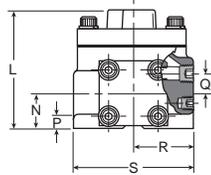
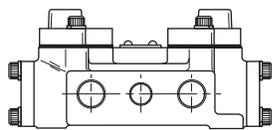
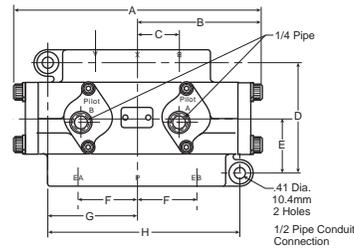
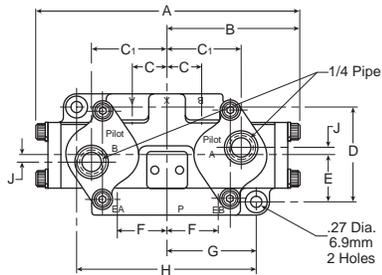
D
 Subbase & Manual Valves
 H Series Micro
 Moduteflex Series
 H Series ISO
 Fieldbus Systems
 DX ISOMAX Series
 Valvair II Series



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L684 3/8" Dimensions, Double Remote Pilot

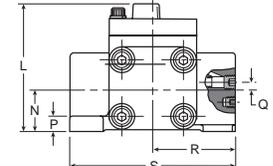
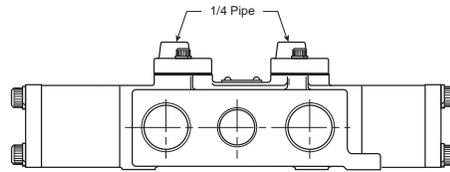
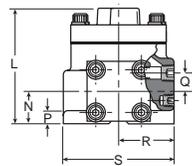
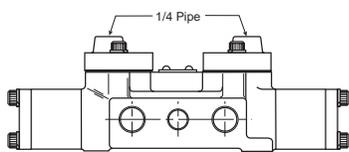
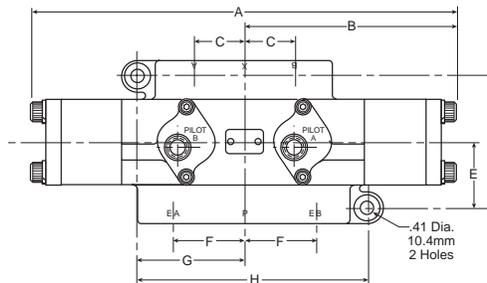
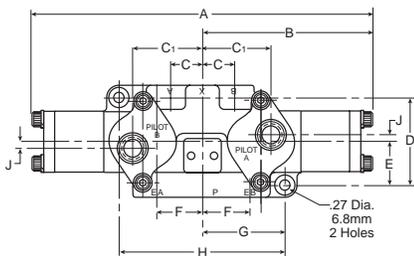
A	B	C	C ₁	D	E	F	G	H
6.64	3.32	.90	1.98	2.56	1.28	1.33	2.34	4.69
(168.7)	(84.3)	(22.9)	(50.3)	(65)	(32.5)	(33.8)	(59.4)	(119.1)
J	L	N	P	Q	R	S		
.22	3.05	.94	.38	.53	1.62	3.25		
(5.6)	(77.5)	(23.9)	(9.7)	(13.5)	(41.1)	(82.6)		

Inches (mm)

L684 1" Dimensions, Double Remote Pilot

A	B	C	D	E	F	G	H	L
9.50	4.75	1.62	4.25	2.12	2.19	3.44	7.44	4.09
(241.3)	(120.6)	(41.1)	(108)	(53.8)	(55.6)	(87.4)	(189)	(103.9)
N	P	Q	R	S				
1.50	.69	.20	2.62	5.25				
(38.1)	(17.5)	(5.1)	(66.5)	(133.4)				

Inches (mm)



L694 3/8" Dimensions, 3-Position, Double Remote Pilot

A	B	C	C ₁	D	E	F	G	H
9.64	4.82	.90	1.98	2.56	1.28	1.33	2.34	4.69
(244.8)	(122.4)	(22.9)	(50.3)	(65)	(32.5)	(33.8)	(59.4)	(119.1)
J	L	N	P	Q	R	S		
.22	3.05	.94	.38	.53	1.62	3.25		
(5.6)	(77.5)	(23.9)	(9.7)	(13.5)	(41.1)	(82.6)		

Inches (mm)

L694 1" Dimensions, 3-Position, Double Remote Pilot

A	B	C	D	E	F	G	H	L
13.63	6.81	1.62	4.25	2.12	2.19	3.44	7.44	6.44
(346.2)	(173)	(41.1)	(108)	(53.8)	(55.6)	(87.4)	(189)	(163.6)
N	P	Q	R	S				
1.50	.69	.20	2.62	5.25				
(38.1)	(17.5)	(5.1)	(66.5)	(133.4)				

Inches (mm)



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Subbase & Manual Valves

H Series Micro

Moduflex Series

H Series ISO

Fieldbus Systems

DX ISOMAX Series

Valvair II Series

