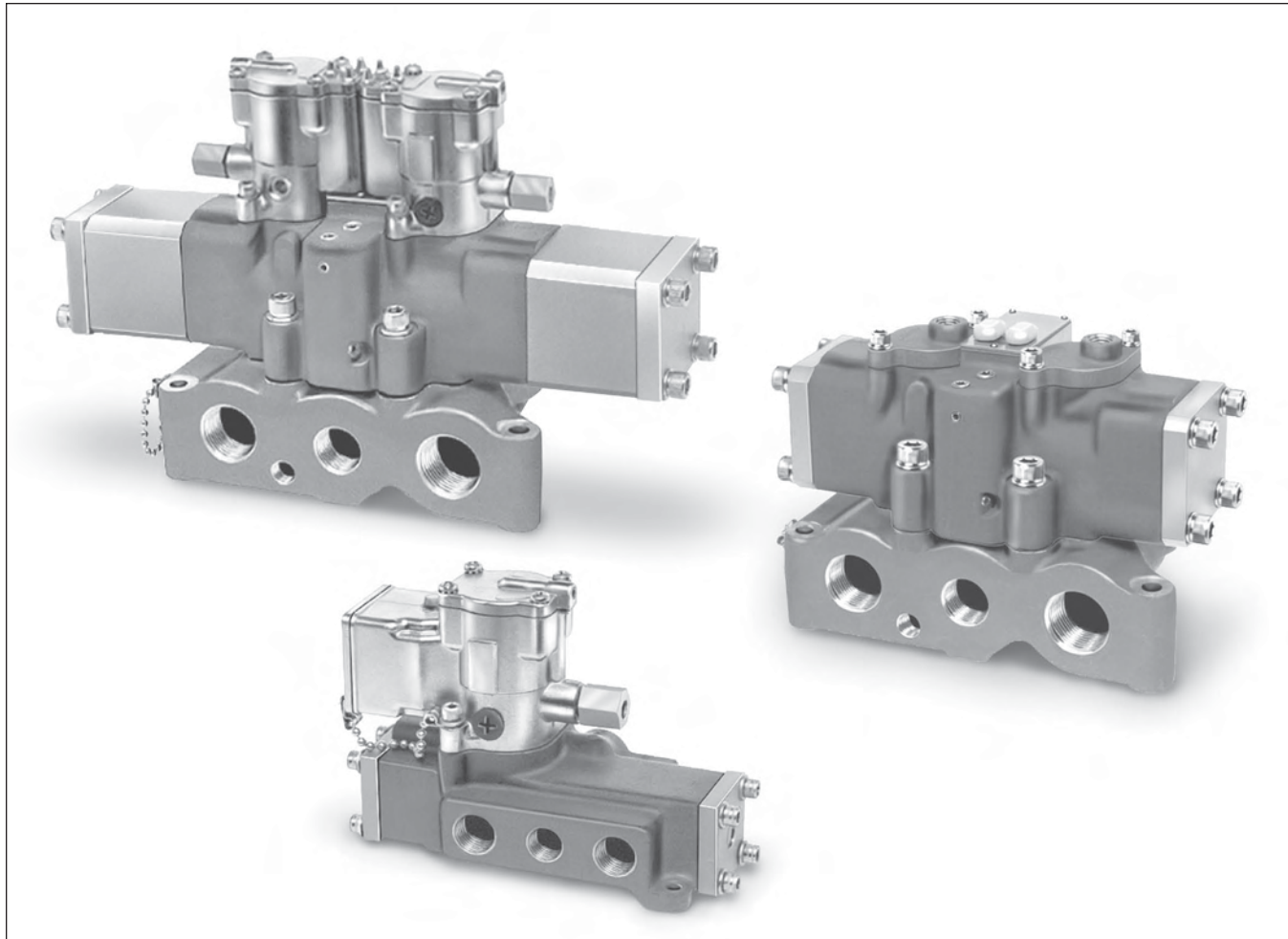




Valvair II

Solenoid Operated
Directional Spool Valves

Section E
www.parker.com/pneu



Basic Valve Functions	E228	Modular Regulators	E244-E245
Basic Valve Features	E229	Accessories	E246
Common Part Numbers		Replacement Parts	E247
Plug-In	E230-E232	Technical Information	E248-E251
Direct Pipe Ported	E233-E235	Dimensions	
Model Number Index		Plug-In	E252-E257
Plug-In	E236	Direct Pipe Ported	E258-E263
Direct Pipe Ported	E237	Plug-In Manifold Dimensions	E264-E265
Plug-In Regulators	E238-E243		

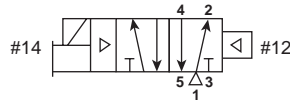
BOLD ITEMS ARE MOST POPULAR.



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Valvair II

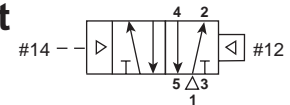
**Single Solenoid
 4-Way, 2-Position**



De-energized position – Solenoid operator #14 de-energized. Pressure at inlet port 1 connected to outlet port 2. Outlet port 4 connected to exhaust port 5.

Energized position – Solenoid operator #14 energized. Pressure at inlet port 1 connected to outlet port 4. Outlet port 2 connected to exhaust port 3.

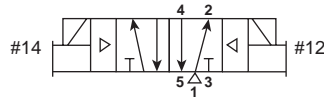
**Single Remote Pilot
 4-Way, 2-Position**



Normal position – Pressure at inlet port 1 connected to outlet port 2. Outlet port 4 connected to exhaust port 5.

Operated position – Maintained air signal at port 14. Pressure at inlet port 1 connected to outlet port 4. Outlet port 2 connected to exhaust port 3.

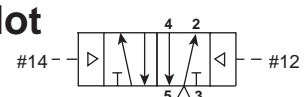
**Double Solenoid
 4-Way, 2-Position**



Solenoid operator #14 energized last. Pressure at inlet port 1 connected to outlet port 4. Outlet port 2 connected to exhaust port 3.

Solenoid operator #12 energized last. Pressure at inlet port 1 connected to outlet port 2. Outlet port 4 connected to exhaust port 5.

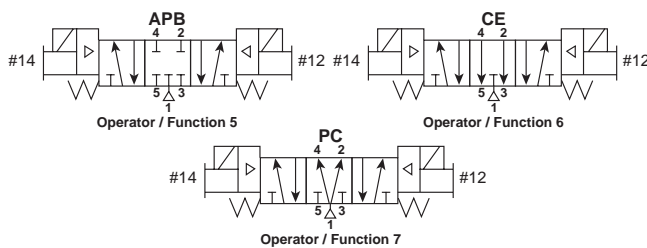
**Double Remote Pilot
 4-Way, 2-Position**



Momentary air signal at port 14 last. Pressure at inlet port 1 connected to outlet port 4. Outlet port 2 connected to exhaust port 3.

Momentary air signal at port 12 last. Pressure at inlet port 1 connected to outlet port 2. Outlet port 4 connected to exhaust port 5.

**Double Solenoid
 4-Way, 3-Position**



With #12 operator energized – inlet port 1 connected to cylinder port 2, cylinder port 4 connected to exhaust port 5.

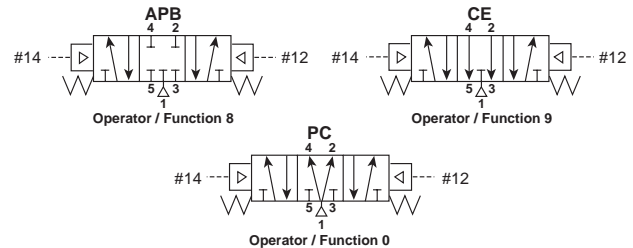
With #14 operator energized – inlet port 1 connected to cylinder port 4, cylinder port 2 connected to exhaust port 3.

Function 5: All Ports Blocked
 All ports blocked in the center position.

Function 6: Center Exhaust
 Cylinder ports 2 and 4 connected to exhaust ports 3 and 5 in center position. Port 1 is blocked.

Function 7: Pressure Center
 Pressure port 1 connected to cylinder ports 2 and 4, and exhaust ports 3 and 5 blocked in center position.

**Double Remote Pilot
 4-Way, 3-Position**



With #12 operator signaled – inlet port 1 connected to cylinder port 2, cylinder port 4 connected to exhaust port 5.

With #14 operator signaled – inlet port 1 connected to cylinder port 4, cylinder port 2 connected to exhaust port 3.

Function 8: All Ports Blocked
 All ports blocked in the center position.

Function 9: Center Exhaust
 Cylinder ports 2 and 4 connected to exhaust ports 3 and 5 in center position. Port 1 is blocked.

Function 0: Pressure Center
 Pressure port 1 connected to cylinder ports 2 and 4, and exhaust ports 3 and 5 blocked in center position.



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Valvair II

Basic Valve Features

- Full Air Operation for fastest response.
- “Plug-In” Design simplifies maintenance and installation. Reduces downtime. No wiring or plumbing to disturb.
- “Direct Pipe” Design for economy and performance.
- Solenoids Interchange between all styles of plug-in valves.
- Variety of Operators Available; Direct Conduit, (JIC) Junction Box, NEMA 4, Hazardous Duty, (UL, CSA), and remote air pilot.
- Locking Manual Overrides Standard. Non-locking overrides optional.
- Indicator Lights Standard on 120VAC and 24VDC models.
- Encapsulated Coil designed for low-power consumption and maximum life.
- Field Convertible to External Pilot Supply for vacuum or other services.
- “Oversized” Flow Areas.
- 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.
- Plug-In “Sandwich” Regulators (Available for specific models) fit between valve and base, increase systems design capabilities.
- CSA - Selected Valves are Canadian Standards Association approved for general purpose use.

General Purpose Approvals

CSA - Canadian Standards Association
File Number 42024

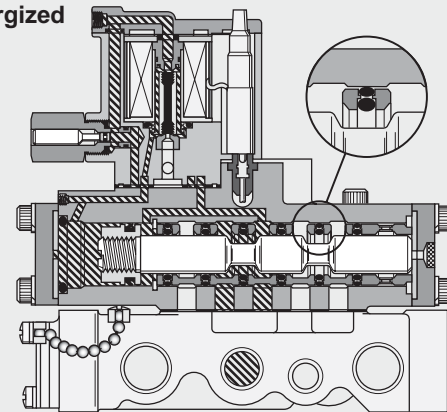
Hazardous Duty Approvals

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

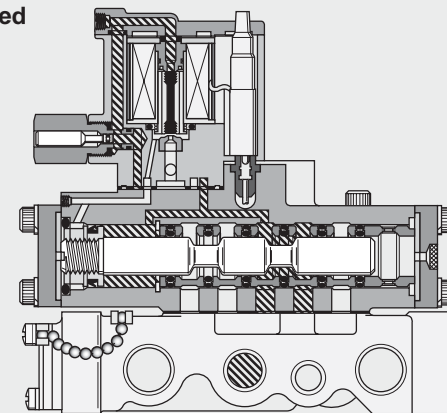
CSA - Canadian Standards Association
File Number 24349

**Valvair II Series Valves
“Plug-In” & “Direct Pipe Ported”****Plug-In**

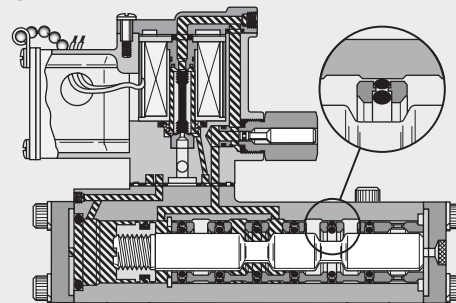
De-Energized



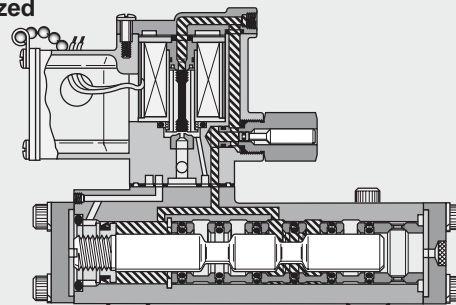
Energized



**Direct Pipe Ported**

De-Energized



Energized



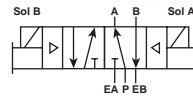
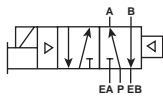
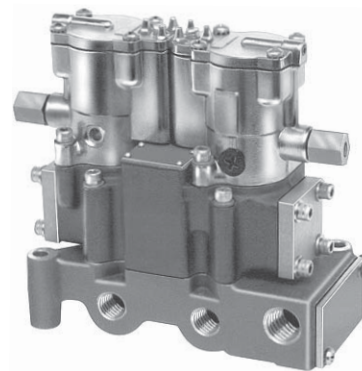
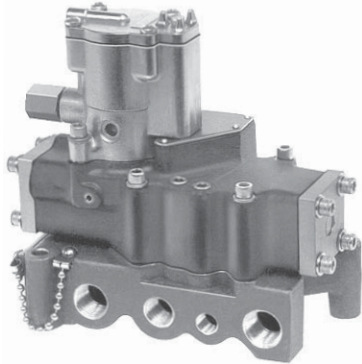
 Pressure  Exhaust

EIsys
MicroIsys
ISOFieldbus
SystemsDX
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Valvair II

L675 (3/8" Basic Valve)
Single Solenoid
4-Way, 5-Port, 2-Position

L655 (3/8" Basic Valve)
Double Solenoid
4-Way, 5-Port, 2-Position



Valve Only		Voltage	Subbase (Side Ports)	Manifold † (End & Bottom Ports)	Port Size (NPT)	Nominal Cv
Single Solenoid	Double Solenoid					
L6753910253	L6553910253	120V 60Hz	K022090	K142230	3/8"	4.8
		110V 50Hz	K022091	K142231	1/2"	4.8
L67533102**	L65533102**	Other	K022101	K142270	3/4"	4.8

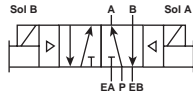
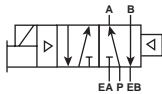
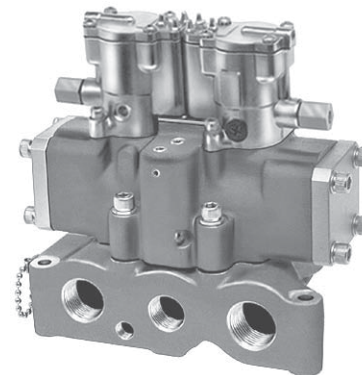
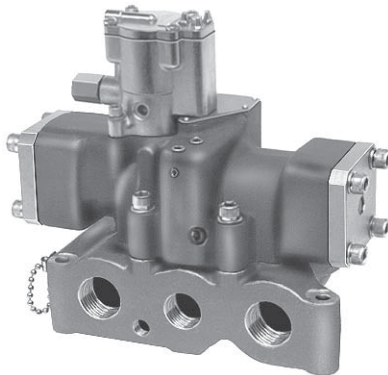
See page E236 for variations and (**) voltage codes.

† Manifolds include mounting hardware.



L675 (1" Basic Valve)
Single Solenoid
4-Way, 5-Port, 2-Position

L655 (1" Basic Valve)
Double Solenoid
4-Way, 5-Port, 2-Position



Valve Only		Voltage	Subbase (Side Ports)	Manifold † (End & Bottom Ports)	Port Size (NPT)	Port Adapter (Manifolds)	Nominal Cv
Single Solenoid	Double Solenoid						
L6758910253	L6558910253	120V 60Hz	—	—	3/4"	K122016 Kit Includes Both Ends	11.3
		110V 50Hz	K022095	—	1"		
L67583102**	L65583102**	Other	—	—	1-1/4"		

See page E236 for variations and (**) voltage codes.

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

Isys
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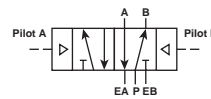
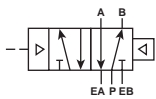
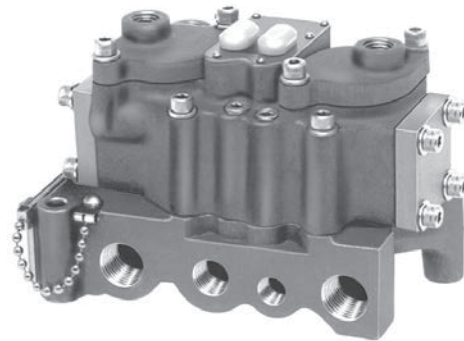
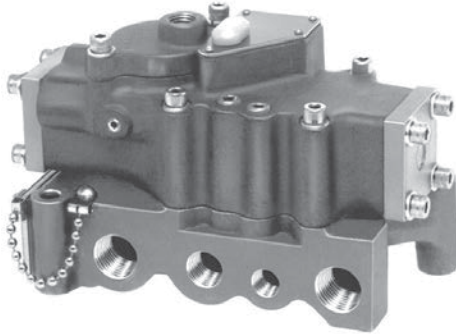
Fieldbus
Systems

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Valvair II

L674 (3/8" Basic Valve)
Single Remote Pilot
4-Way, 5-Port, 2-Position

L654 (3/8" Basic Valve)
Double Remote Pilot
4-Way, 5-Port, 2-Position

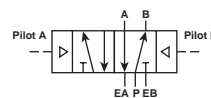
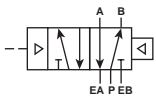
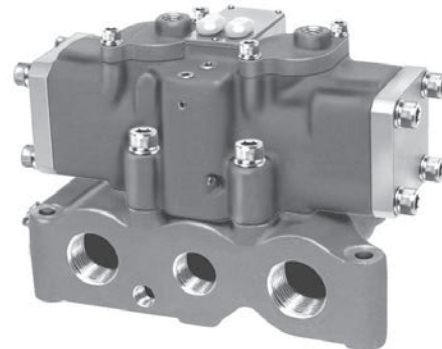
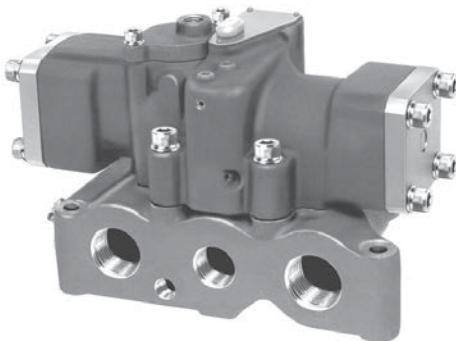


Valve Only		Subbase (Side Ports)	Manifold † (End & Bottom Ports)	Port Size (NPT)	Nominal Cv
Single Remote	Double Remote				
L67431102	L65431102	K022090	K142230	3/8"	4.8
		K022091	K142231	1/2"	4.8
		K022101	K142270	3/4"	4.8

† Manifolds include mounting hardware.

L674 (1" Basic Valve)
Single Remote Pilot
4-Way, 5-Port, 2-Position

L654 (1" Basic Valve)
Double Remote Pilot
4-Way, 5-Port, 2-Position



Valve Only		Subbase (Side Ports)	Manifold † (End & Bottom Ports)	Port Size (NPT)	Port Adapter (Manifolds)	Nominal Cv
Single Remote	Double Remote					
L67481102	L65481102	—	—	3/4"	K122016 Kit Includes Both Ends	11.3
		K022095	—	1"		
		—	—	1-1/4"		

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

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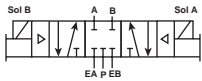
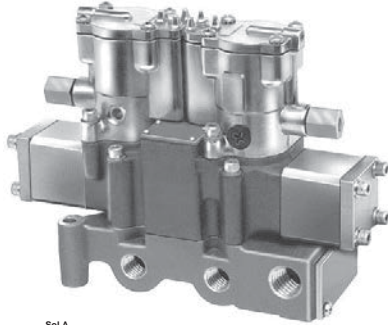
Isys
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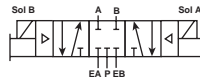
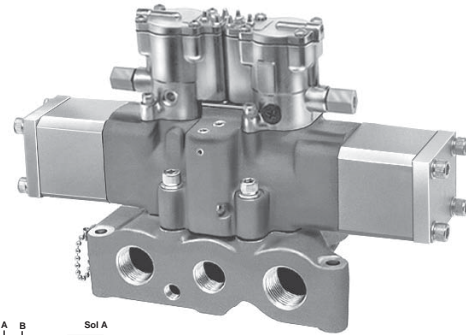
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Isomax

Valvair II

L665 (3/8" Basic Valve)
Double Solenoid
4-Way, 5-Port, 3-Position



L665 (1" Basic Valve)
Double Solenoid
4-Way, 5-Port, 3-Position

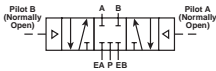
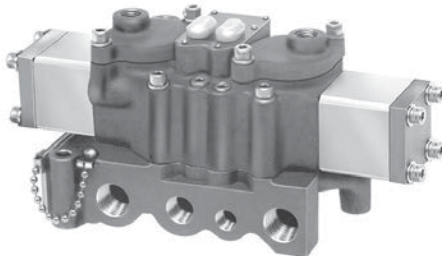


Valve Only	Voltage	Subbase (Side Ports)	Manifold † (End & Bottom Ports)	Port Size (NPT)	Port Adapter	Nominal Cv
L6653921153	120V 60Hz	K022090	K142230	3/8"	Not Req'd	4.8
	110V 50Hz	K022091	K142231	1/2"		
L66533211**	Other	K022101	K142270	3/4"		
L6658921153	120V 60Hz	—	—	3/4"	K122016 Kit Includes Both Ends	11.3
	110V 50Hz	K022095	—	1"		
L66583211**	Other	—	—	1-1/4"		

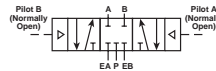
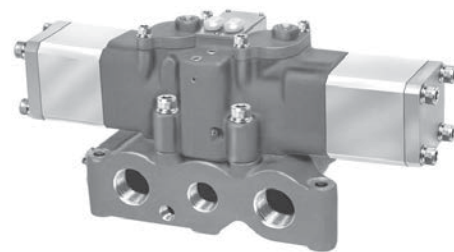
See page E236 for variations in class of neutral configuration and (***) voltage codes.

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

L664 (3/8" Basic Valve)
Double Remote Pilot
4-Way, 5-Port, 3-Position



L664 (1" Basic Valve)
Double Remote Pilot
4-Way, 5-Port, 3-Position



Valve Only	Subbase (Side Ports)	Manifold † (End & Bottom Ports)	Port Size (NPT)	Port Adapter	Nominal Cv
L66431211	K022090	K142230	3/8"	Not Req'd	4.8
	K022091	K142231	1/2"		
	K022101	K142270	3/4"		
L66481211	—	—	3/4"	K122016 Kit Includes Both Ends	11.3
	K022095	—	1"		
	—	—	1-1/4"		

See page E236 for variations in class of neutral configurations.

†Manifolds include mounting hardware.



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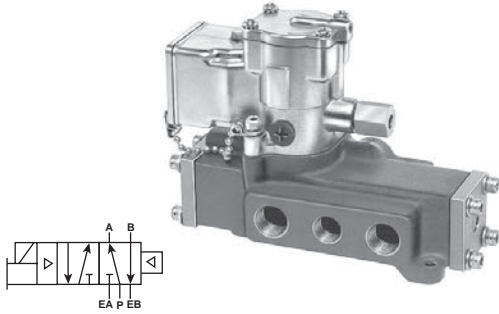
Isys
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Systems

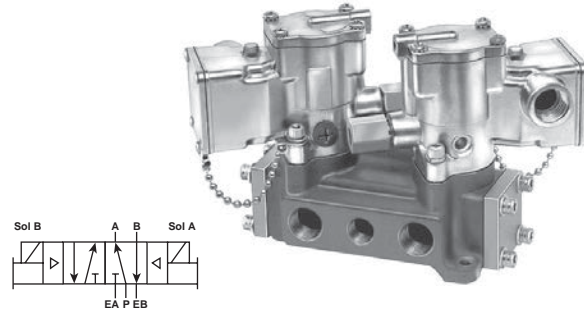
DX
Isomax

Valvair II

L705 (3/8" Basic Valve)
Single Solenoid
4-Way, 5-Port, 2-Position



L685 (3/8" Basic Valve)
Double Solenoid
4-Way, 5-Port, 2-Position

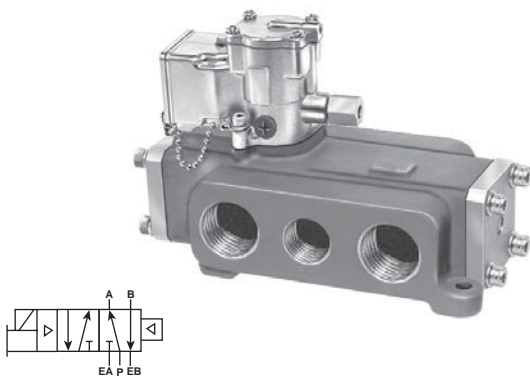


Valve		Voltage	Port Size (NPT)		Operator Type	Nominal Cv
Single Solenoid	Double Solenoid		P, A & B	EA & EB		
L7053910253	L6853910253	120V 60Hz	3/8"	1/2"	Junction Box	4.8
L7054910253	L6854910253	110V 50Hz	1/2"	1/2"		
L70536102**	L68536102**	Other	3/8"	1/2"	Junction Box	4.8
L70546102**	L68546102**		1/2"	1/2"		
L70533102**	L68533102**	Any	3/8"	1/2"	Basic	4.8
L70543102**	L68543102**		1/2"	1/2"		
L70533802**	L68533802**	Any	3/8"	1/2"	NEMA 4	4.8
L70543802**	L68543802**		1/2"	1/2"		
L70533602**	L68533602**	See Voltage Chart	3/8"	1/2"	† Hazardous Duty	4.8
L70543602**	L68543602**		1/2"	1/2"		

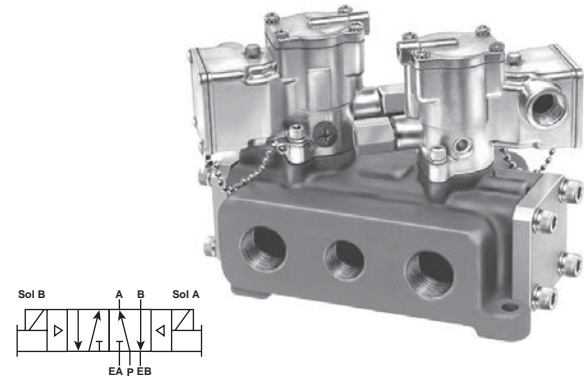
See page E237 for variations and (**) voltage codes.

†UL & CSA Approved.

L705 (1" Basic Valve)
Single Solenoid
4-Way, 5-Port, 2-Position



L685 (1" Basic Valve)
Double Solenoid
4-Way, 5-Port, 2-Position



Valve		Voltage	Port Size (NPT)		Type	Nominal Cv
Single Solenoid	Double Solenoid		P, A & B	EA & EB		
L7058910253	L6858910253	110V 50Hz	1"	1-1/4"	Junction Box	12.0
L7059910253	L6859910253		1-1/4"	1-1/4"		
L70586102**	L68586102**	Other	1"	1-1/4"	Junction Box	12.0
L70596102**	L68596102**		1-1/4"	1-1/4"		
L70583602**	L68583602**	See Voltage Chart	1"	1-1/4"	† Hazardous Duty	12.0
L70593602**	L68593602**		1-1/4"	1-1/4"		

See page E237 for variations and (**) voltage codes.

†UL & CSA Approved.

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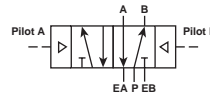
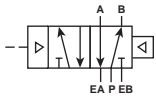
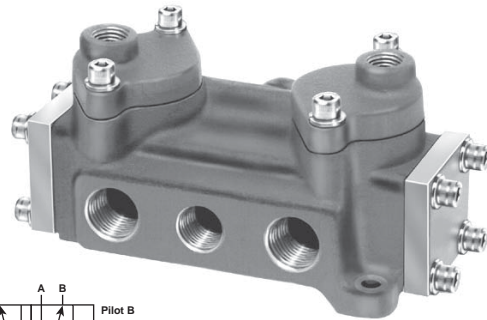
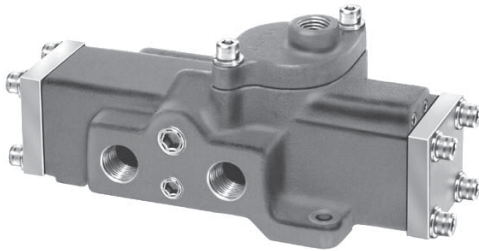
Fieldbus
Systems

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Valvair II

L704 (3/8" Basic Valve)
 Single Remote Pilot
 4-Way, 5-Port, 2-Position

L684 (3/8" Basic Valve)
 Double Remote Pilot
 4-Way, 5-Port, 2-Position



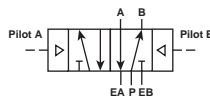
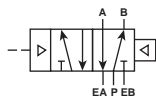
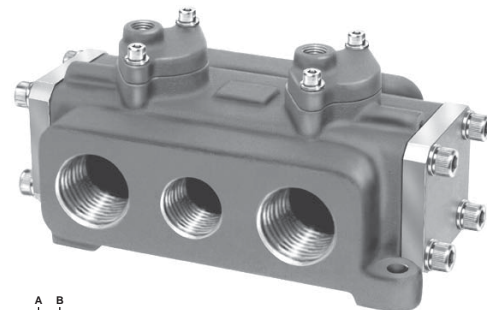
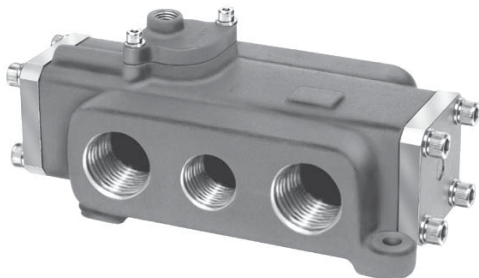
Valve		Port Size (NPT)		Nominal Cv
Single Remote	Double Remote	P, A & B	EA & EB	
L70431102	L68431102	3/8"	1/2"	4.8
L70441102	L68441102	1/2"	1/2"	



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L704 (1" Basic Valve)
 Single Remote Pilot
 4-Way, 5-Port, 2-Position

L684 (1" Basic Valve)
 Double Remote Pilot
 4-Way, 5-Port, 2-Position



Valve		Port Size (NPT)		Nominal Cv
Single Remote	Double Remote	P, A & B	EA & EB	
L70481102	L68481102	1"	1-1/4"	12.0
L70491102	L68491102	1-1/4"	1-1/4"	

Isys
ISO

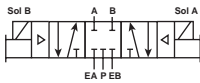
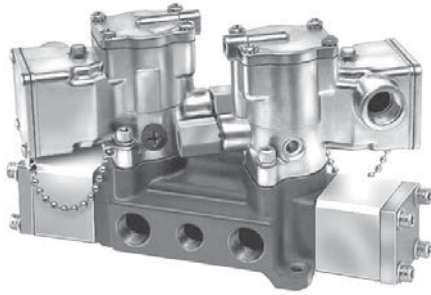
Fieldbus
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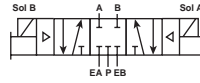
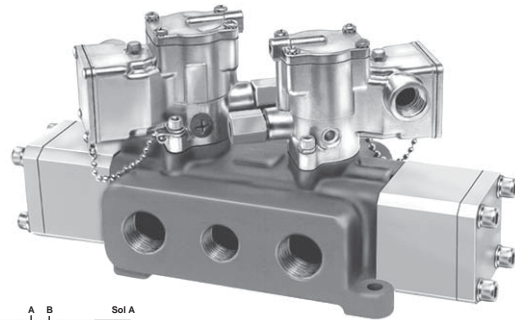
Valvair II



L695 (3/8" Basic Valve)
Double Solenoid
4-Way, 5-Port, 3-Position



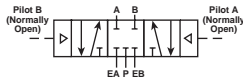
L695 (1" Basic Valve)
Double Solenoid
4-Way, 5-Port, 3-Position



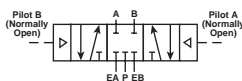
Valve		Voltage	Port Size (NPT)		Type	Nominal Cv
3/8" Basic Size	1" Basic Size		P, A & B	EA & EB		
L6953921153	—	120V 60Hz 110V 50Hz	3/8"	1/2"	Junction Box	4.5
L6954921153	—		1/2"	1/2"		
—	L6958921153		1"	1-1/4"		12.0
—	L6959921153		1-1/4"	1-1/4"		
L69536211**	—	Other	3/8"	1/2"	Basic	4.5
L69546211**	—		1/2"	1/2"		
—	L69586211**		1"	1-1/4"		12.0
—	L69596211**		1-1/4"	1-1/4"		

See page E237 for variations in class of neutral configuration and (**) voltage codes.

L695 (3/8" Basic Valve)
Double Remote Pilot
4-Way, 5-Port, 3-Position



L695 (1" Basic Valve)
Double Remote Pilot
4-Way, 5-Port, 3-Position



Valve	Port Size (NPT)		Nominal Cv
	P, A & B	EA & EB	
L69431211	3/8"	1/2"	4.5
L69441211	1/2"	1/2"	
L69481211	1"	1-1/4"	12.0
L69491211	1-1/4"	1-1/4"	

See page E237 for ordering other neutral configurations.

E

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Valvair II

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

BOLD ITEMS ARE MOST POPULAR.

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	—

Duty Cycle	
2	Standard Service, Solenoid or Remote
4	Continuous Service Solenoid

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



**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	—

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 Exh. in Neutral (NEMA 1 & 12 Enclosure) or Remote
23	Cyl. Ports Open to Inlet in Neutral (NEMA 1 & 12 Enclosure) or Remote

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Valvair II

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

BOLD ITEMS ARE MOST POPULAR.

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	—

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, 2 & 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.

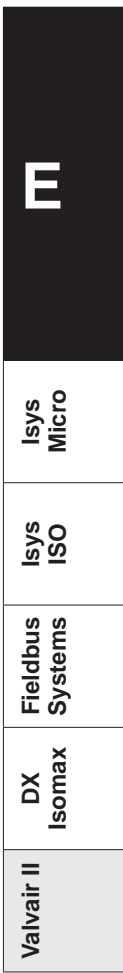
Lead Length			
Blank	19" (Standard)		

Voltage & Frequency			
	60Hz	50Hz	DC
45	—	—	12
49	—	—	24
53	120	110	—
57	240	220	—

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
Cyl. Ports Open to Exh. in Neutral	
22	Standard (NEMA 1 & 12) or Remote
72*†	Hazardous Duty (NEMA 7 & 9)
92†	NEMA 4
Cyl. 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.



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.

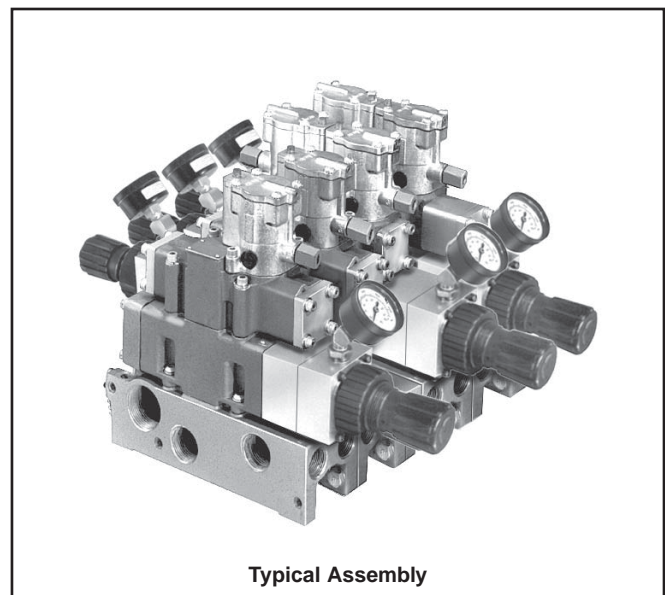
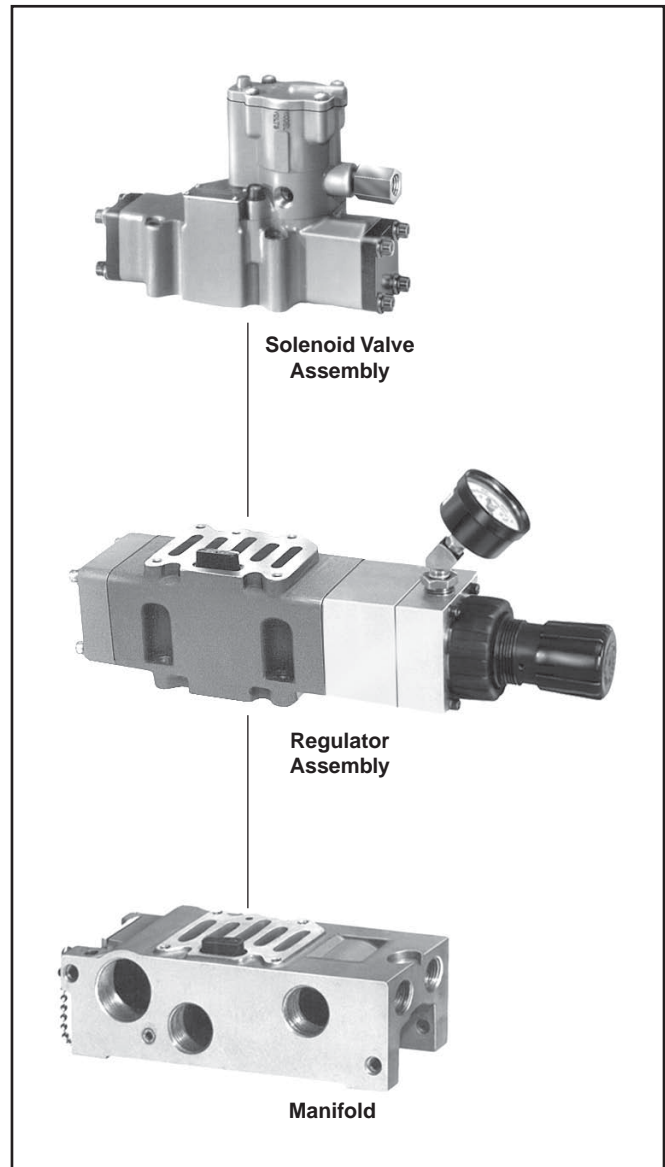
Manual or Remote secondary pressure adjustment.

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.



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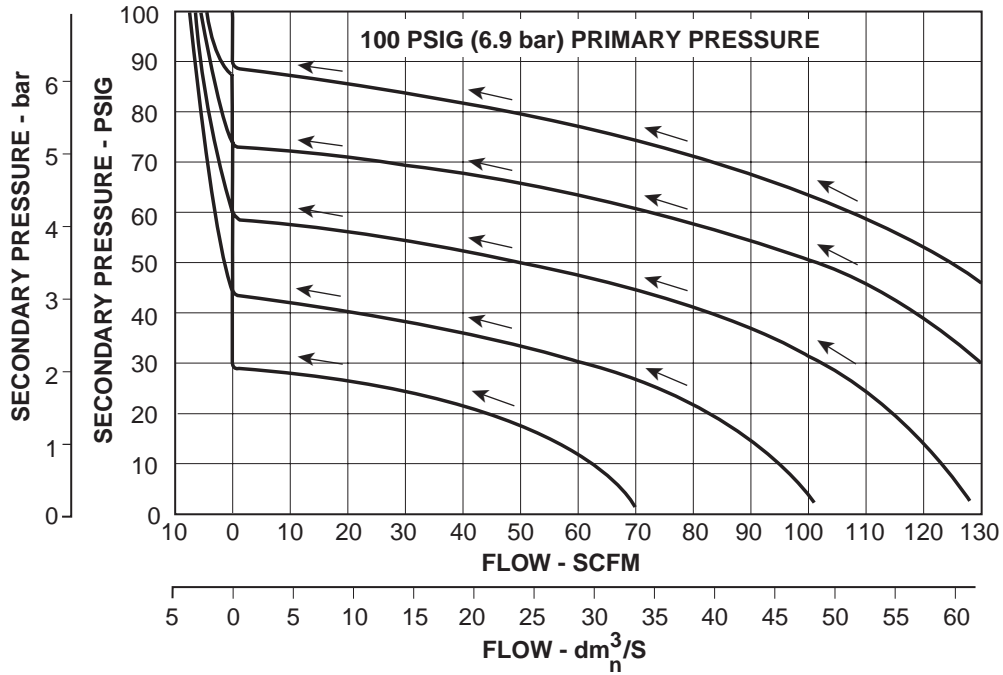
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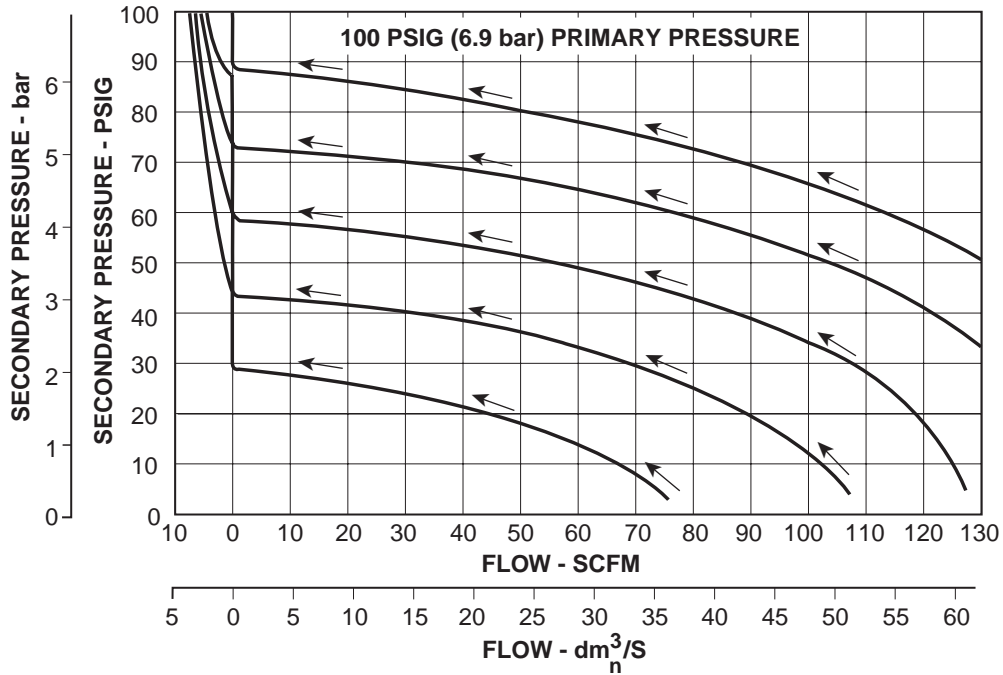
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Valvair II

**RELIEF AND FLOW CHARACTERISTICS
 COMMON PORT REGULATION**



**RELIEF AND FLOW CHARACTERISTICS
 INDEPENDENT OR SINGLE PORT REGULATION**



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

Common Port Regulation

Valvair II Series Valves Plug-In Regulators

Function

This modular air pressure regulator assembly, installed between a 3/8" basic, 4-Way valve and subbase, supplies regulated pressures to both cylinder ports.

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.

Furnished with pressure gauge as standard.

Assembly "A" (Shown at right) or Assembly "B" may be specified as a matter of convenience, or to satisfy space limitations.*

Pressure Range Options

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

Operating Temperature Range

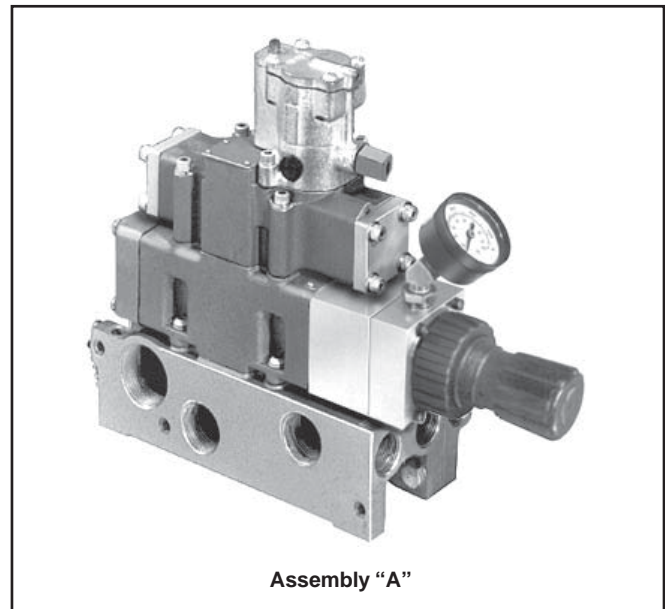
32°F (0°C) to 175°F (79°C)

How To Order

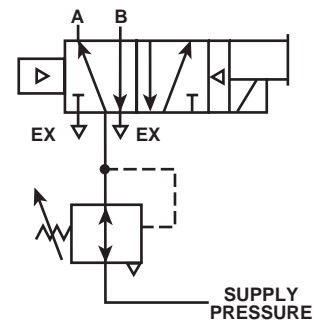
1. Select type of adjustment.
2. Select pressure range.
3. Select assembly style.

Example: Manual adjusted.
1-60 PSIG with regulator positioned over the junction box.

Model No. L55408302C



Graphic Symbol



Regulated Pressure at Both "A" & "B"

Pressure Adjustment	Pressure Range	Model Number	
	PSIG	Assembly "A"	Assembly "B"
Manual	1 - 60	L55402308C	L55408302C
	2 - 125	L55403308C	L55408303C
Remote	0 - 140	L55411308C	L55408311C

* Assembly "A" places the regulator on the end opposite the electrical junction box. Assembly "B" places the regulator over the electrical junction box. See page E245 for gauges.



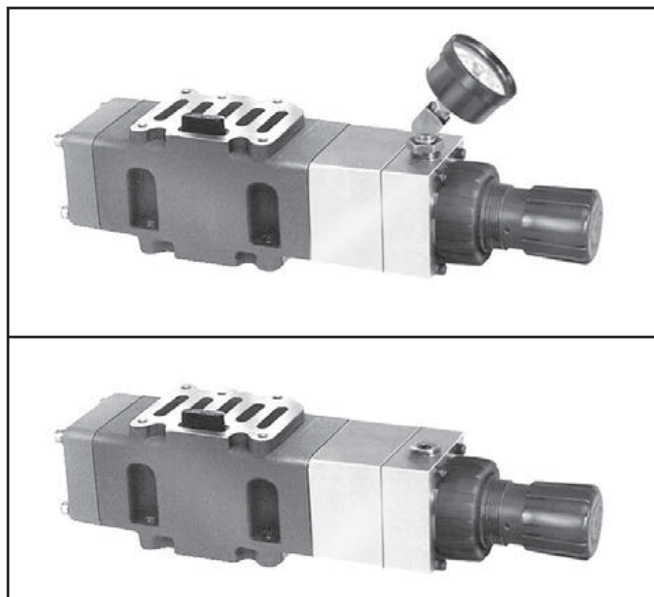
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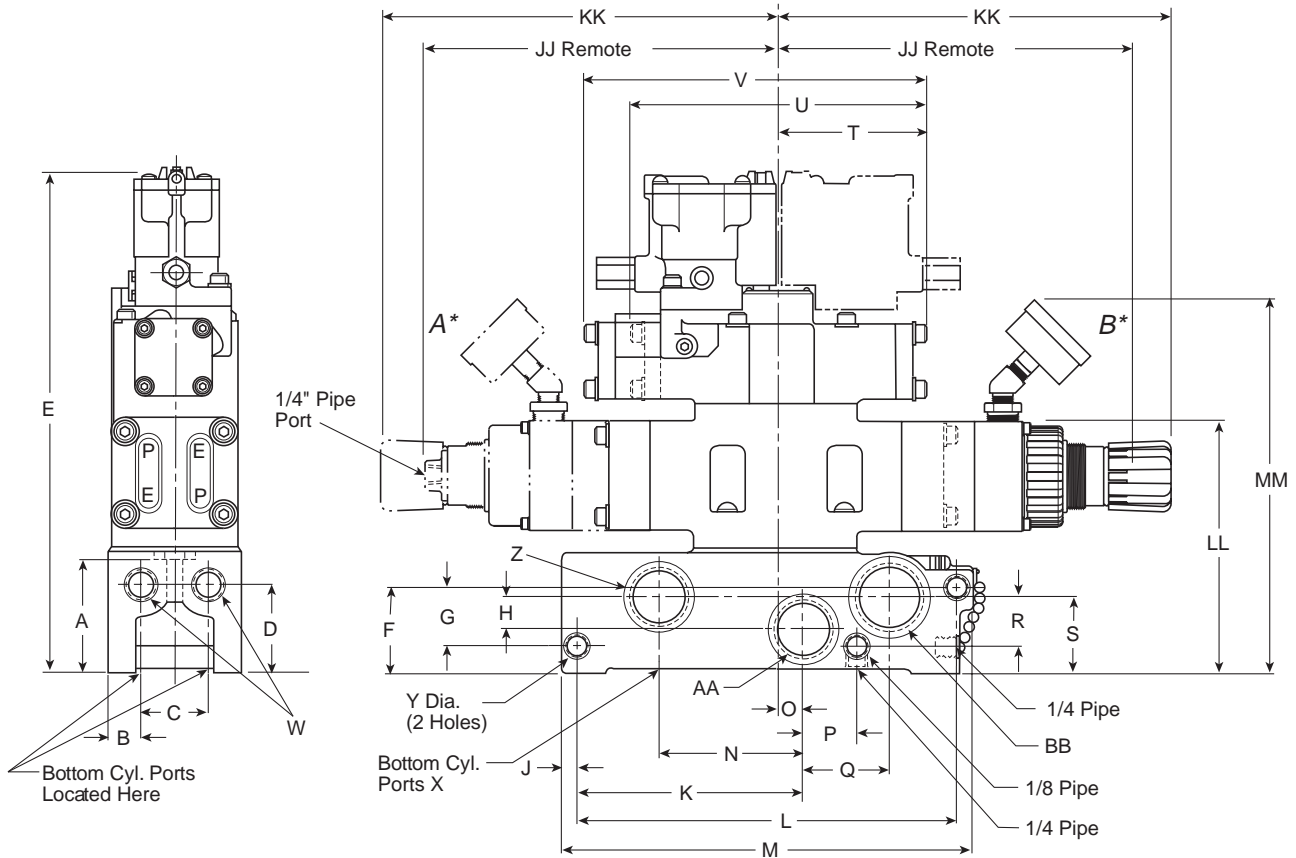
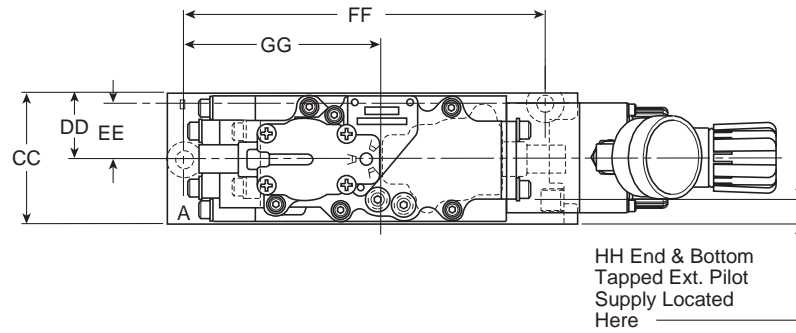
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* Assembly "A" places the regulator on the end opposite the electrical junction box.
 Assembly "B" places the regulator over the electrical junction box.



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

Inches (mm)



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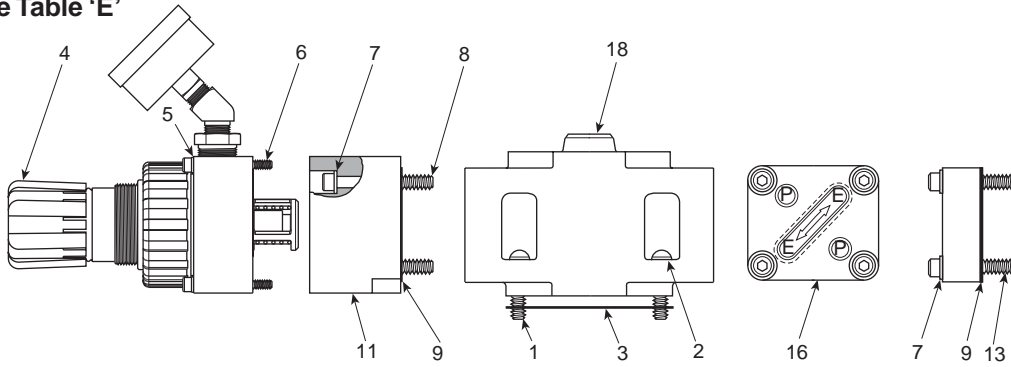
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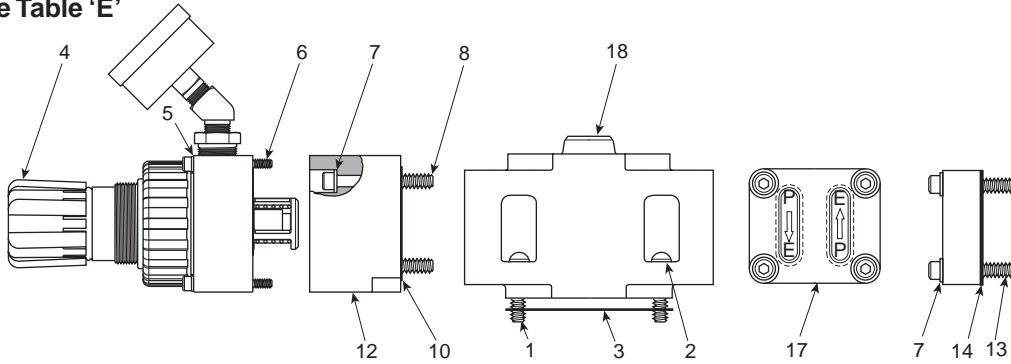
Common Port Regulation

Parts: See Table 'E'



Single Port Regulation

Parts: See Table 'E'



Independent Port Regulation

Parts: See Table 'E'

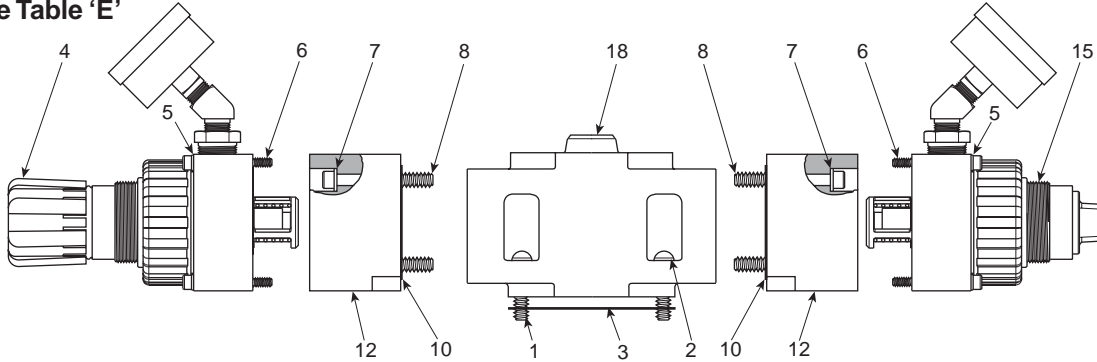


Table "E": Parts

Item No.	Part Number	Description	Item No.	Part Number	Description
1	H09815	Screw (4)	9	K183082	Gasket
2	H17512	Lockwasher (4)	10	K183084	Gasket
3	K183077	Gasket	11	K043012	Function Block (P to P)
4	Standard	Manual Reg. Assy. (w/Gauge)	12	K043011	Function Block (P to E)
	K472001C	1-30 PSIG	13	H100107	1/4-20 x 1-1/2" Lg. SHCS
	K472002C	1-60 PSIG	14	K183083	Gasket
	K472003C	2-125 PSIG	15	Standard	Remote Reg. Assy. (w/Gauge)
5	H17509	#10 Lockwasher		K472009C	0-140 PSIG
6	H10032	#10-32 x 1.75" Lg. SHCS	16	K362308	Function Plate Assy. (Incl. 7, 9, 13)
7	H17511	1/4" Lockwasher	17	K362307	Function Plate Assy. (Incl. 7, 13, 14)
8	H10069	1/4-20 x 2.25" Lg. SHCS	18	K032270	Body Assy. (Incl. 1, 2, 3)



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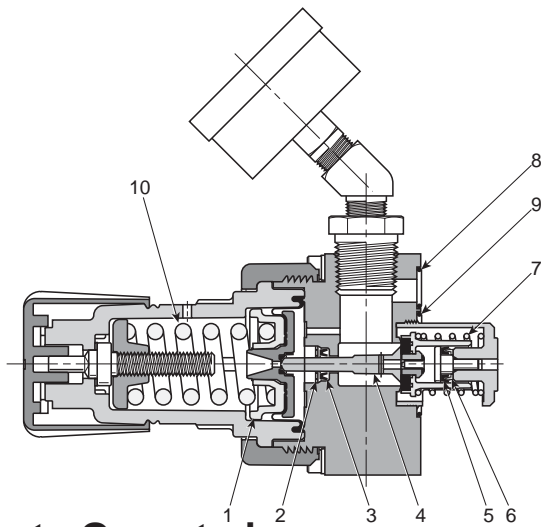
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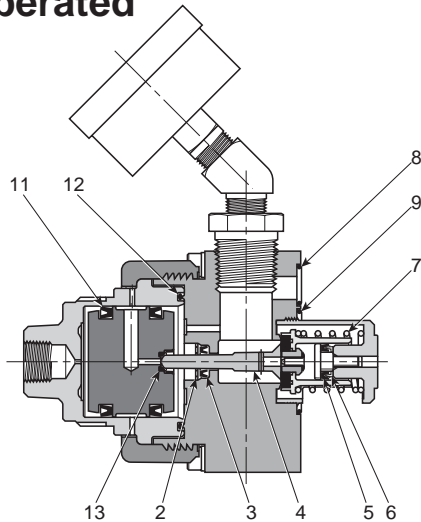
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Manual Adjusting



Remote Operated



Replacement Parts

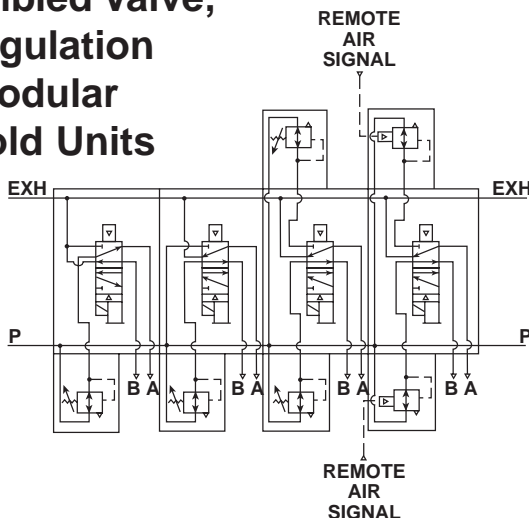
Item No.	Part Number	Description
1	○	Diaphragm Assembly
2	○ ●	Retaining Ring
3	○ ●	Vee Packing
4	○ ●	Poppet Assembly
5	○ ●	Vee Packing
6	○ ●	Backflow Retainer
7	○ ●	Poppet Spring
8	○ ●	.989 ID x .070 W O-Ring
9	○ ●	1.301 ID x .070 W O-Ring
10	P01698	1-30 PSI Spring
	P04062	1-60 PSI Spring (Blue)
	P04063	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



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Blank Station Covers

Manifold Assembly	Blank Cover Kit
—	K06020007
K142230	K06020003
K142231	
K142270	
K142233	K06020009
K142236	K06020004

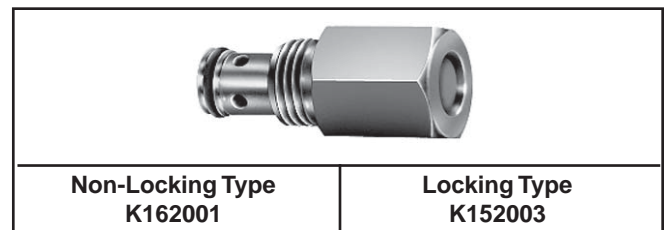
Conversion Kits: Lubricated to Non-Lubricated Operation

Basic Size	Operators (Solenoid or Remote Pilot)	
	Single	Double (2-Position)
3/8"	K322012	K322013

Flush Type" Hex Drive Pipe Plugs for Port Isolation

Part No.	Size (NPTF)
K21R02012L	1/8"
K21R02025L	1/4"
K21R02037L	3/8"
K21R02050L	1/2"
K21R02075L	3/4"

Interchangeable Manual Override Assemblies for Solenoid Operators



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.

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	Solenoid Operated *					Remote Pilot Operated	
	Series (Prefix)	Standard Service (Intermittent Duty)		Special Service ** (Continuous Duty)		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	—
	1"	L65	—	K352130	—	K352131	—
L66		—	K352130	—	K352131	—	K352360
L67		K352128	—	K352129	—	K352359	—
L68		—	K352130	—	K352131	—	K352360
L69		—	K352130	—	K352131	—	K352360
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.

Voltage Suffix Codes

L □ □ □ □ □ □ □ □ **
Voltage Code

Code	Voltage			Coil Number	
	60 Hz	50 Hz	DC	Plug-In	Flying Lead (19") *
49	—	—	24†	K593060 K593274 ‡	K593014
53	120†	110	—	K593071 K593125 ‡	K593025
57	240†	220	—	K593081	K593035

Notes: Bold Face type indicated primary coil rating.

† Indicates voltages approved for solenoid operators designed for use in hazardous locations. (See page E251.)

* 19" Coil lead length is standard. Other lead lengths may be available, consult supplier.

‡ Assembly includes indicator light socket, less light.

Electrical Connectors Single or Double Solenoid Valves

Basic Size	Valve Body		Subbase / Manifold	
	Single Solenoid	Double Solenoid	19" Leads	72" Leads
3/8"	H02723	H02722	H02713	H02789
1"				



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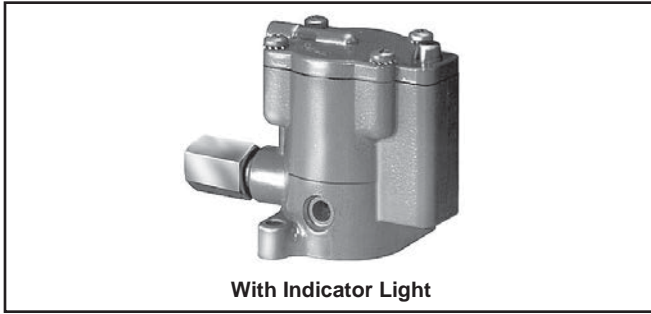
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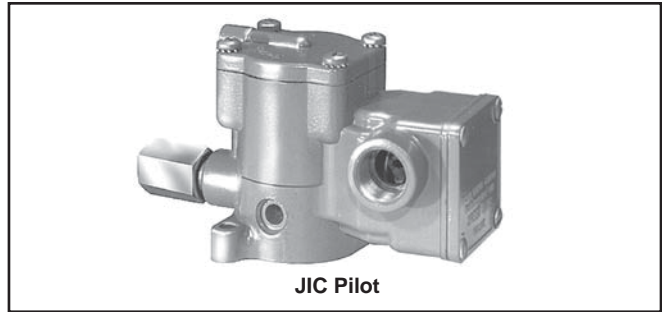
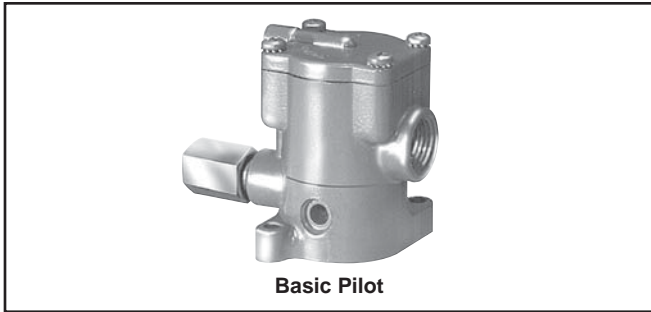
Plug-In Pilot



Description	Standard Service		Special Service	
	Locking	Non-Locking	Locking	Non-Locking
With Override (120VAC)	K175903553	K175803553	K185902553	K185802553
With Override (Other than 120VAC)	K1753035**	—	K1853025**	—

** See voltages on page E246.

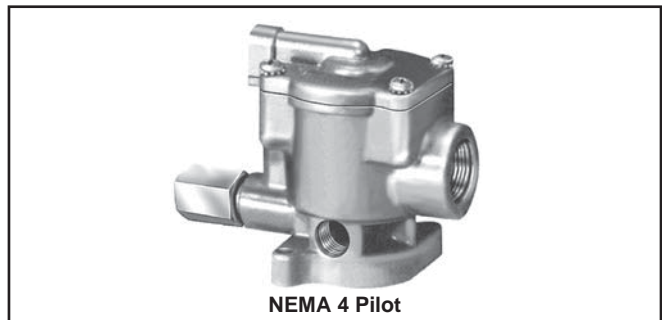
NEMA 1 & 12



Description	Standard Service		Special Service	
	Locking	Non-Locking	Locking	Non-Locking
Basic with Override	K0653035**	—	K0853025**	—
JIC with Junction Box & Override	K0656035**	K0655035**	K0856025**	K0855025**
JIC Pilot with Junction Box & Override & Indicator Lights (120VAC Only)	K0659035**	K0658035**	K0859025**	K0858025**

** See voltages on page E246.

NEMA 4, 7 & 9



Description	Standard Service		Special Service	
	Locking	Non-Locking	Locking	Non-Locking
Hazardous Duty Pilot - UL & CSA	K0251035**†		K0451025**†	
NEMA 4 Pilot	K2351035**†		—	
Override Type	Locking	Non-Locking	Locking	Non-Locking
Hazardous Duty with Override	K0253035**†	K0252035**†	K0453025**†	K0452025**†
NEMA 4 with Override	—	K2353035**†	K2352035**†	—

† 49 / 53 only ** See voltages on page E246.

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Valvair II

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.

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

"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.

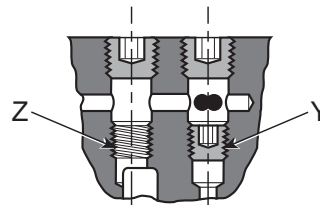
These solenoids should be used when valves are to be held energized for hours, days or weeks... or when extended ambient temperature operation is required. Apply the duty cycle formula to determine if this type of solenoid is required.

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.

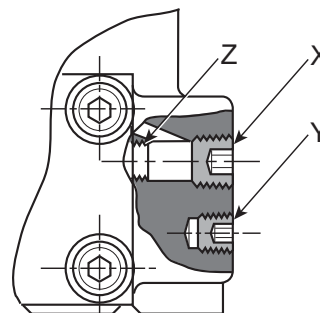
Pilot Supply Conversion



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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See page E251 for Approved Hazardous Location Class, Group & Division.

Flow Capacities

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

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
3/8" Double 3-Position	3/8"	Direct Pipe	4.1
	1/2"	Direct Pipe	4.5
1" Single & Double	1"	Direct Pipe	12.0

Materials of Construction

Valve Bodies Aluminum alloy

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.

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

Other Seals Nitrile

Shock Pads Polyurethane

Valve Spacers Brass

Manifolds & Subbases Aluminum alloy

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)

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

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.

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Pressure Range for Solenoid Operated Valves

Media	Internal Pilot Supply Basic Valve Size			External Pilot Supply Basic Valve Size				
	1/4"	3/8"	1/2"	1/4"		3/8"	1/2"	1"
Air	35-140* PSIG			N.A.	Main	0-250 PSIG		
					Pilot	35-140* PSIG		
Vacuum	Do Not Use			N.A.	Main	Within 1 Hg of Perfect		
					Pilot	35-140* PSIG		
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 Range Standard Service Solenoid Operator

Minimum	Maximum	
	Intermittent Duty	Continuous Duty
0°F	125°F	100°F

Ambient Temperature Range Remote Pilot Operated Valves

Minimum	Maximum
0°F	200°F

⚠ 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.

Special Service (Continuous Duty) Solenoid Operator

Minimum	Maximum	
	Intermittent Duty	Continuous Duty
0°F	125°F	125°F

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).



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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.)

Solenoid Characteristics Chart

Voltage Range +10/-15% of Nominal

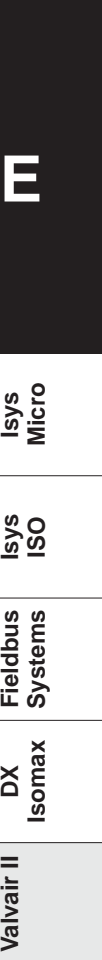
3/8" & 3/4" Basic – L-Pilot					
Voltage/ Cycles	Amps Inrush	Amps Holding	Resistance Ohms	Watts	Insulation Class
120/60VAC	.29	.18	122	12	B
110/50VAC	.21	.14	122	12	B
240/60VAC	.18	.12	610	12	B
24/60VAC	1.6	1.0	4.5	9.5	B
24/50VAC	1.2	.75	6.4	9.5	B
6VDC	–	1.4	4.5	7.6	B
12VDC	–	.66	17.7	9	B
24VDC	–	.32	71	9	B
48VDC	–	.22	216	11	B

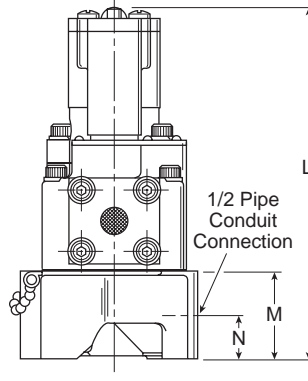
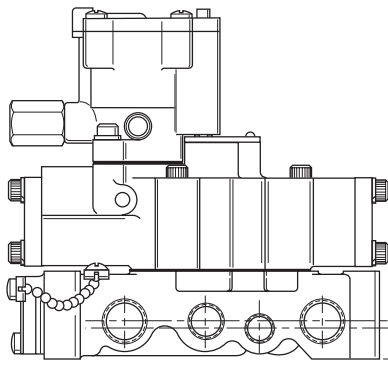
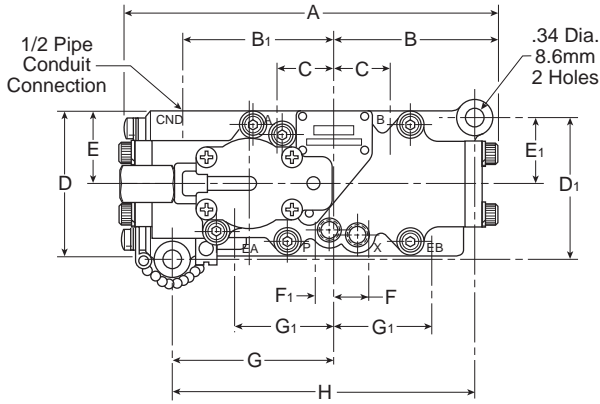
Hazardous Duty Solenoid Listing

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.

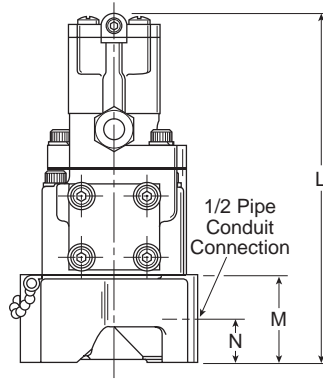
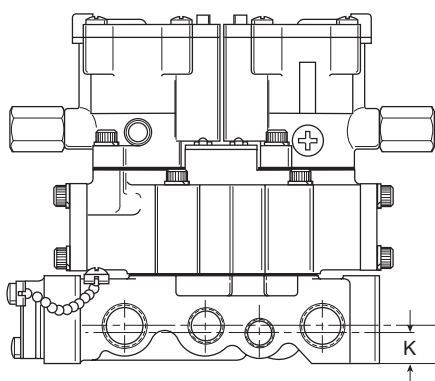
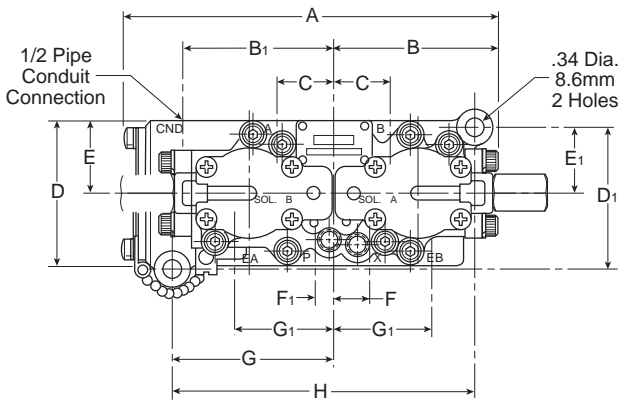




Dimensions

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

Inches (mm)



Dimensions

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

Inches (mm)



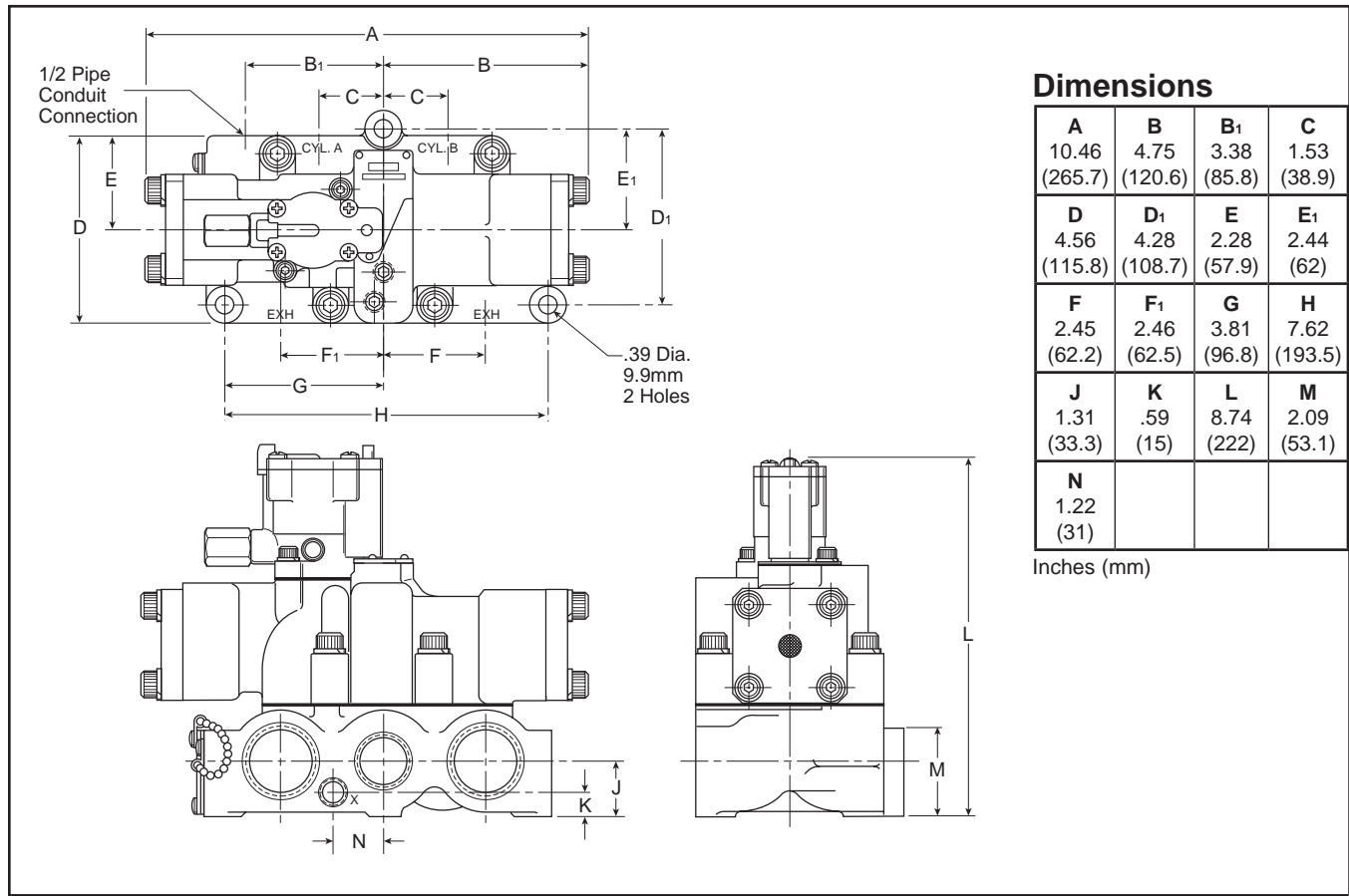
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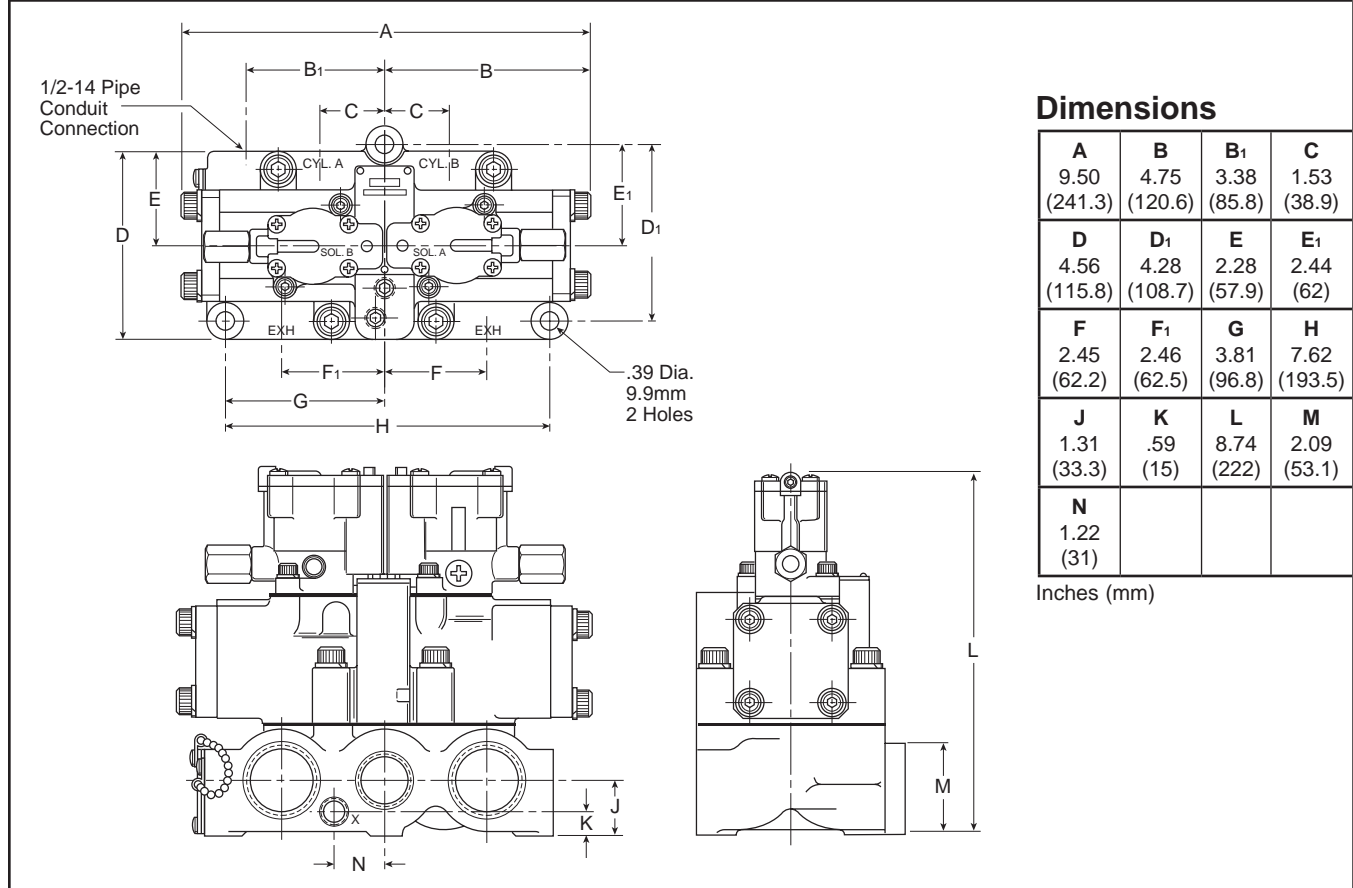
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Dimensions

A 10.46 (265.7)	B 4.75 (120.6)	B₁ 3.38 (85.8)	C 1.53 (38.9)
D 4.56 (115.8)	D₁ 4.28 (108.7)	E 2.28 (57.9)	E₁ 2.44 (62)
F 2.45 (62.2)	F₁ 2.46 (62.5)	G 3.81 (96.8)	H 7.62 (193.5)
J 1.31 (33.3)	K .59 (15)	L 8.74 (222)	M 2.09 (53.1)
N 1.22 (31)			

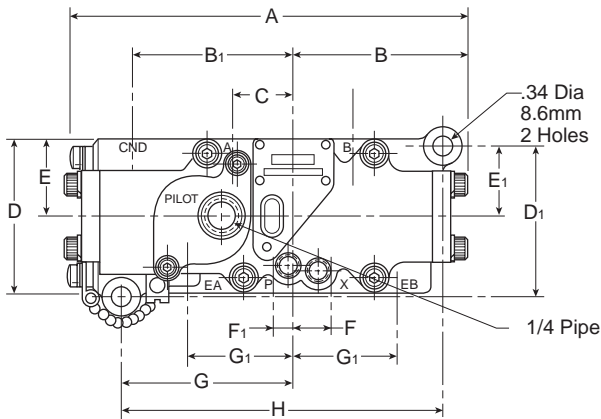
Inches (mm)



Dimensions

A 9.50 (241.3)	B 4.75 (120.6)	B₁ 3.38 (85.8)	C 1.53 (38.9)
D 4.56 (115.8)	D₁ 4.28 (108.7)	E 2.28 (57.9)	E₁ 2.44 (62)
F 2.45 (62.2)	F₁ 2.46 (62.5)	G 3.81 (96.8)	H 7.62 (193.5)
J 1.31 (33.3)	K .59 (15)	L 8.74 (222)	M 2.09 (53.1)
N 1.22 (31)			

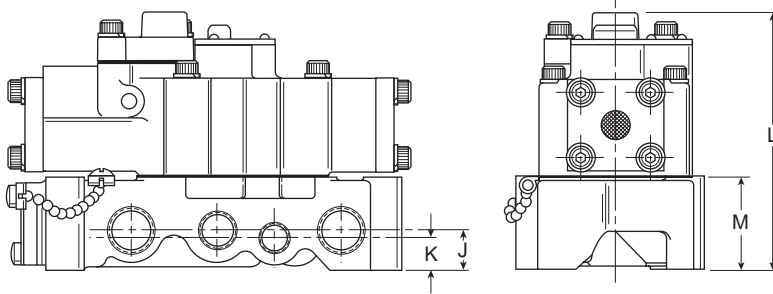
Inches (mm)



Dimensions

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

Inches (mm)



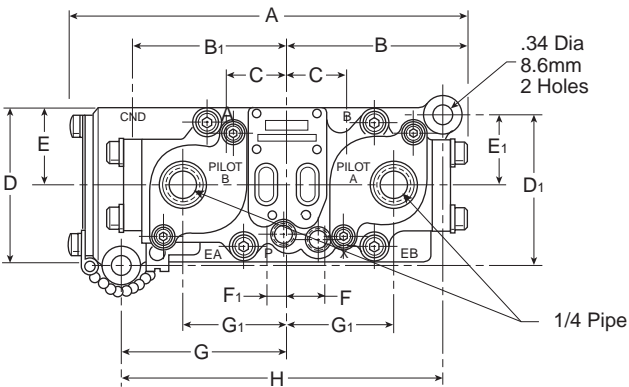
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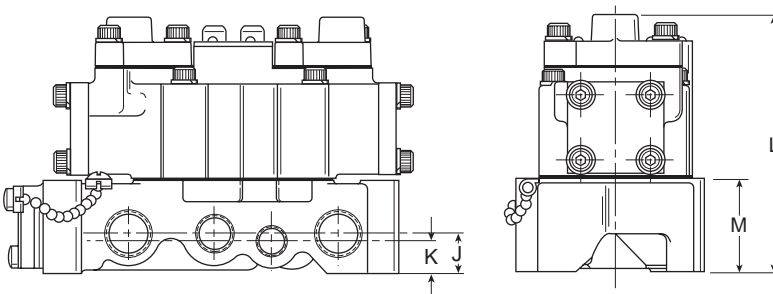
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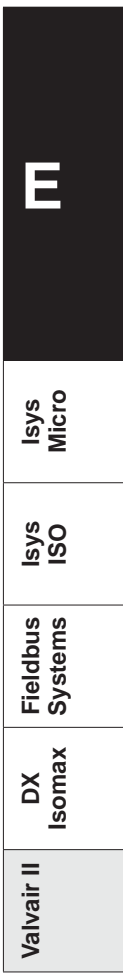
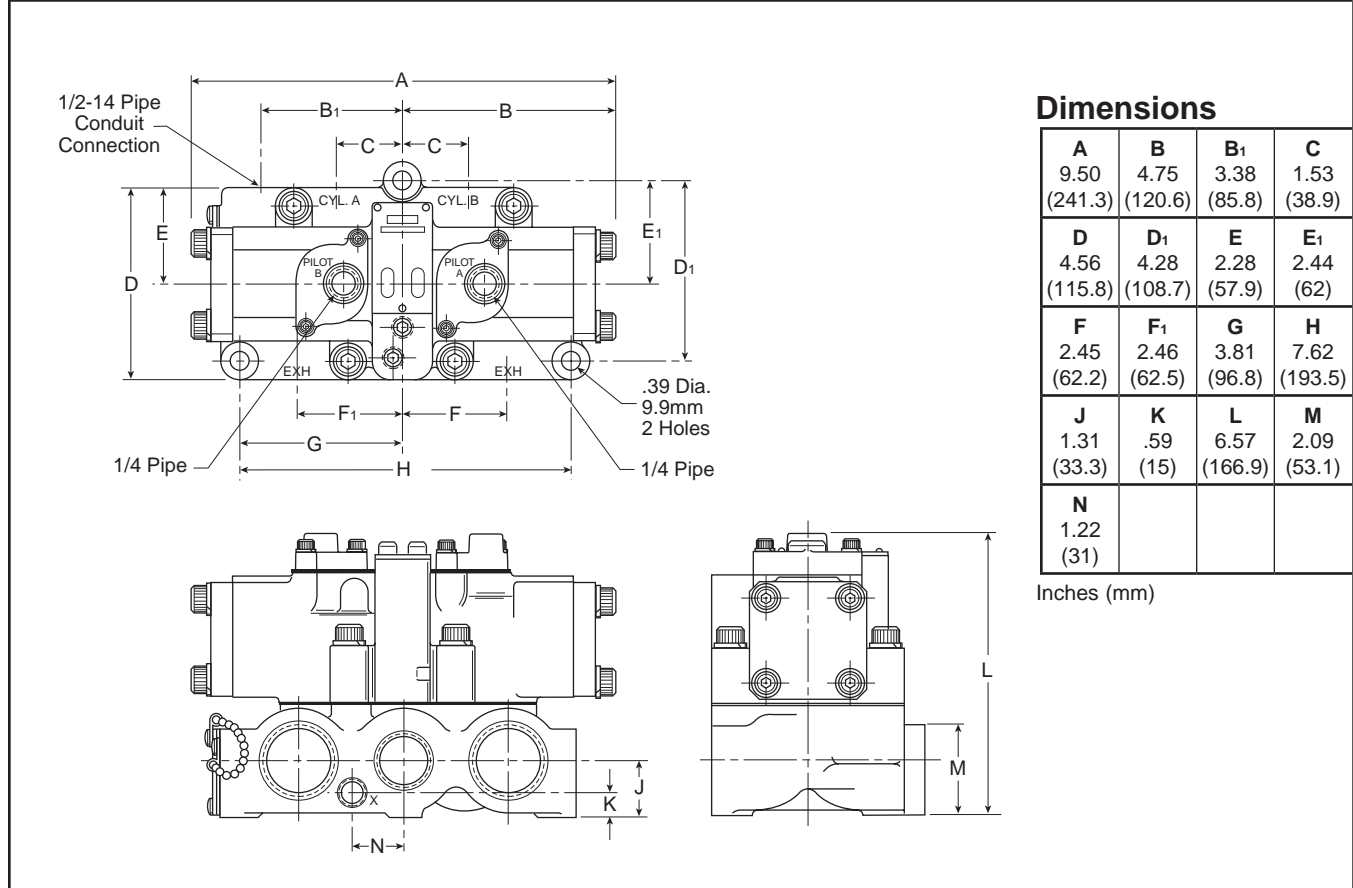
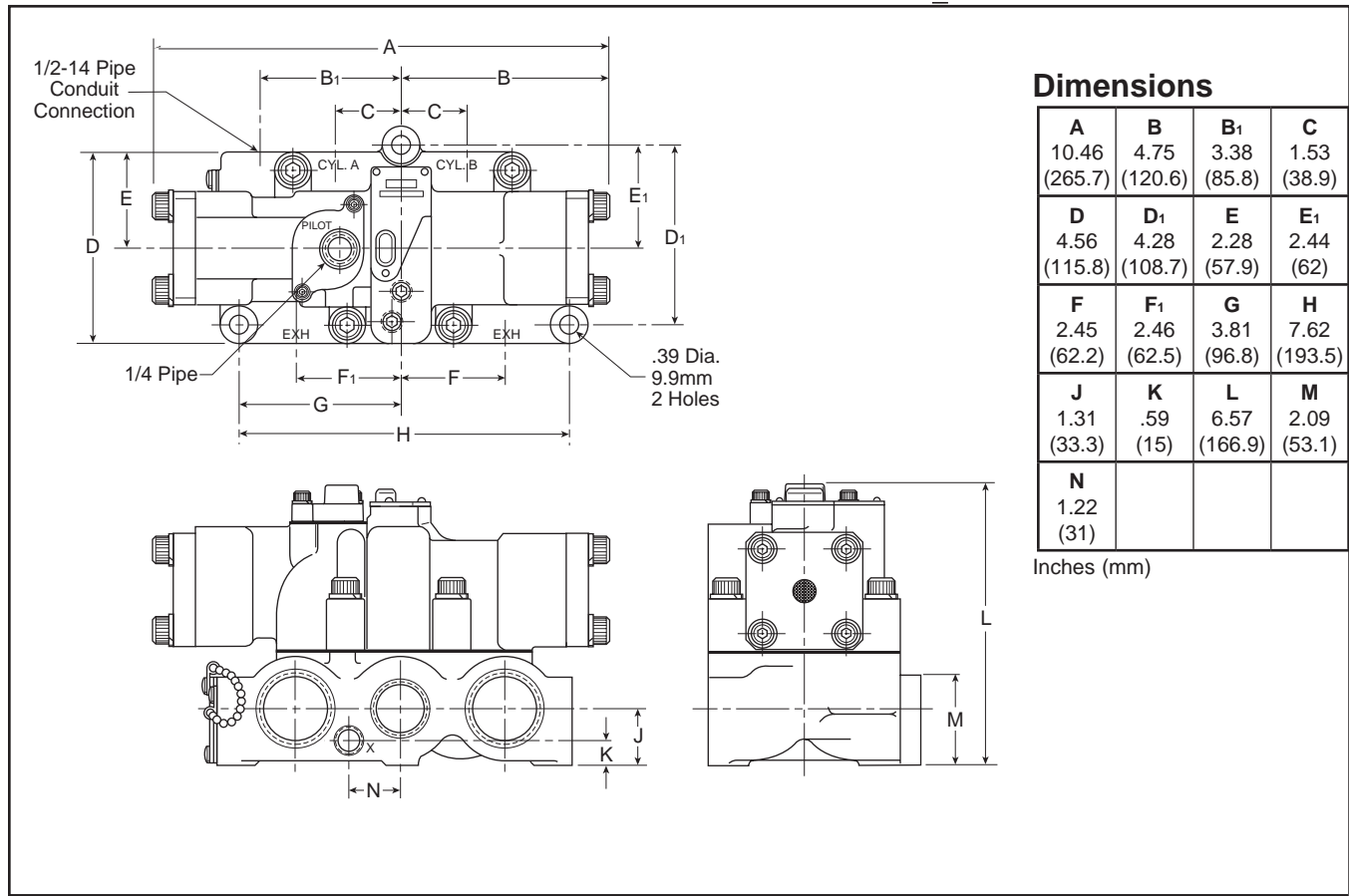


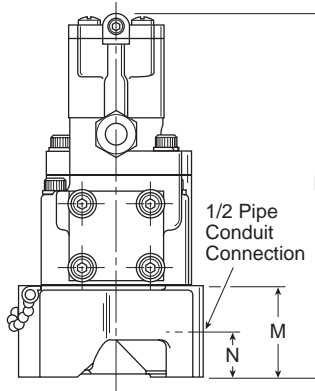
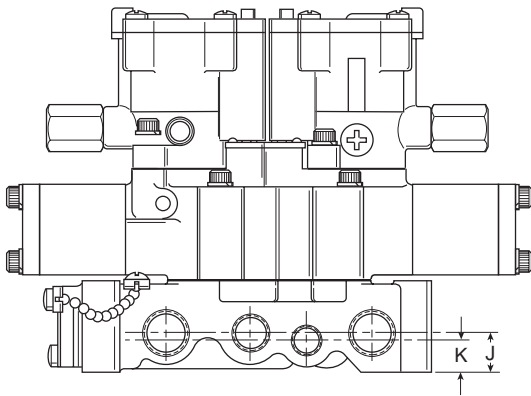
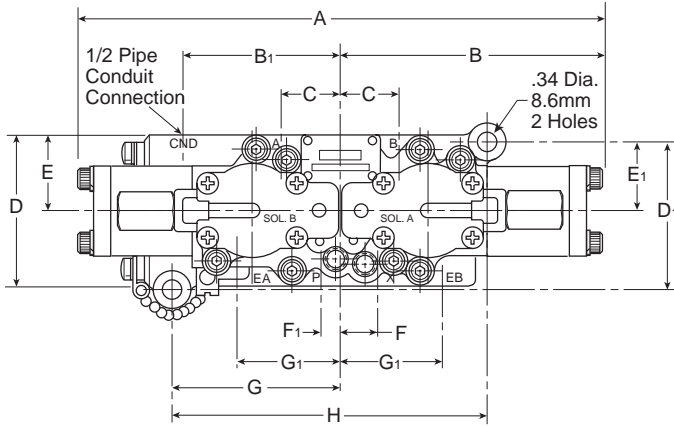
Dimensions

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

Inches (mm)



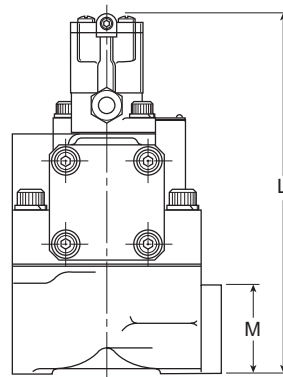
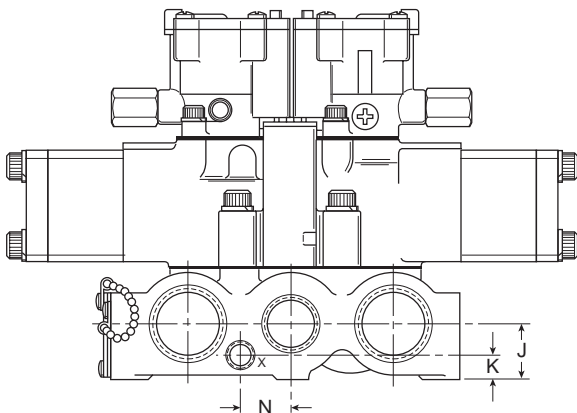
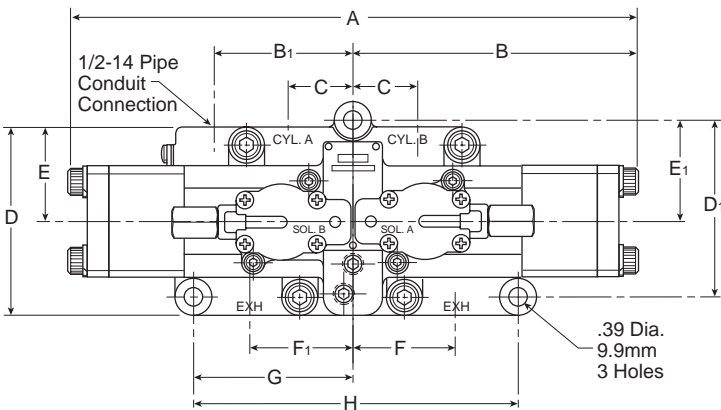




Dimensions

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

Inches (mm)



Dimensions

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

Inches (mm)



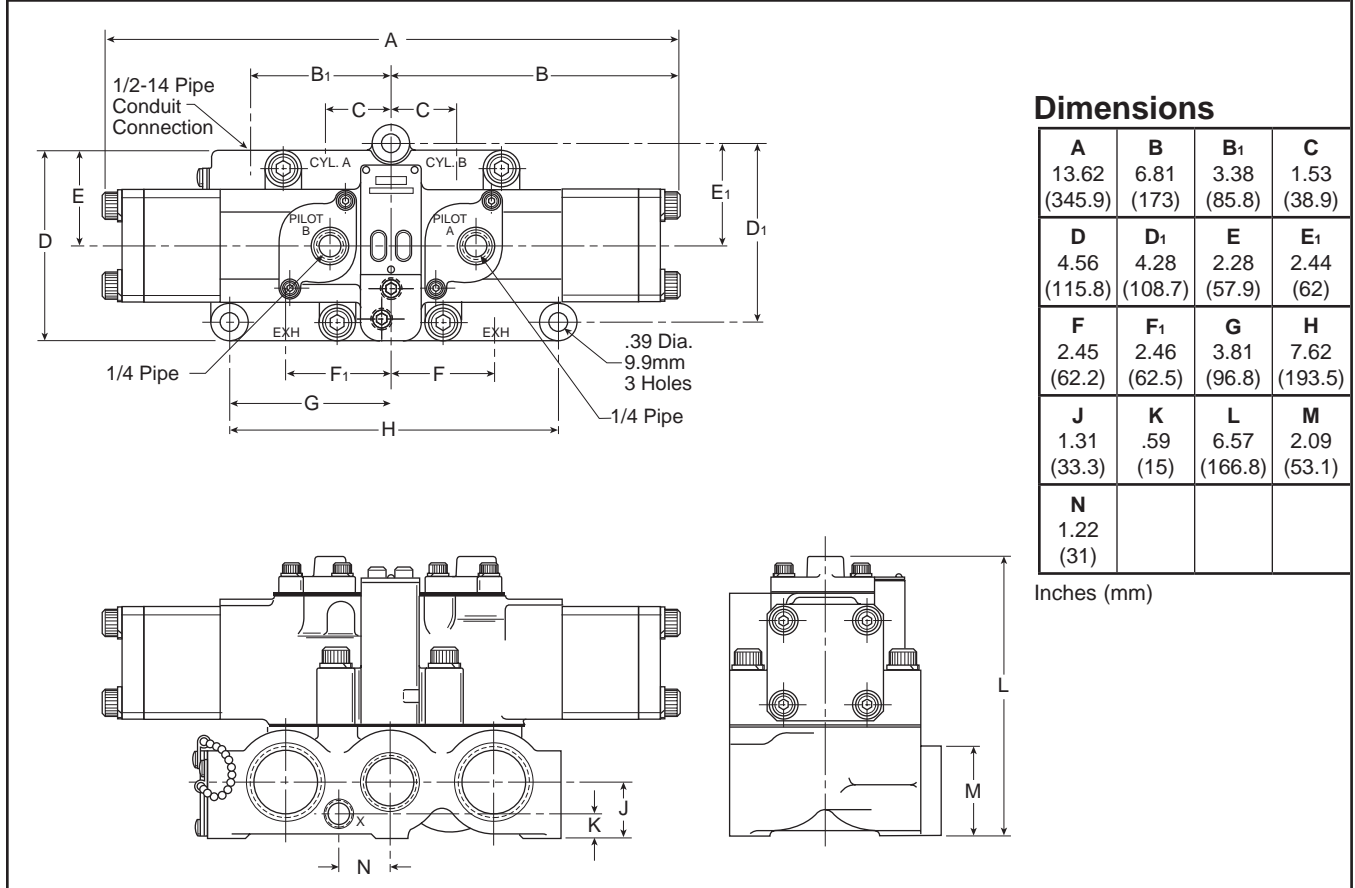
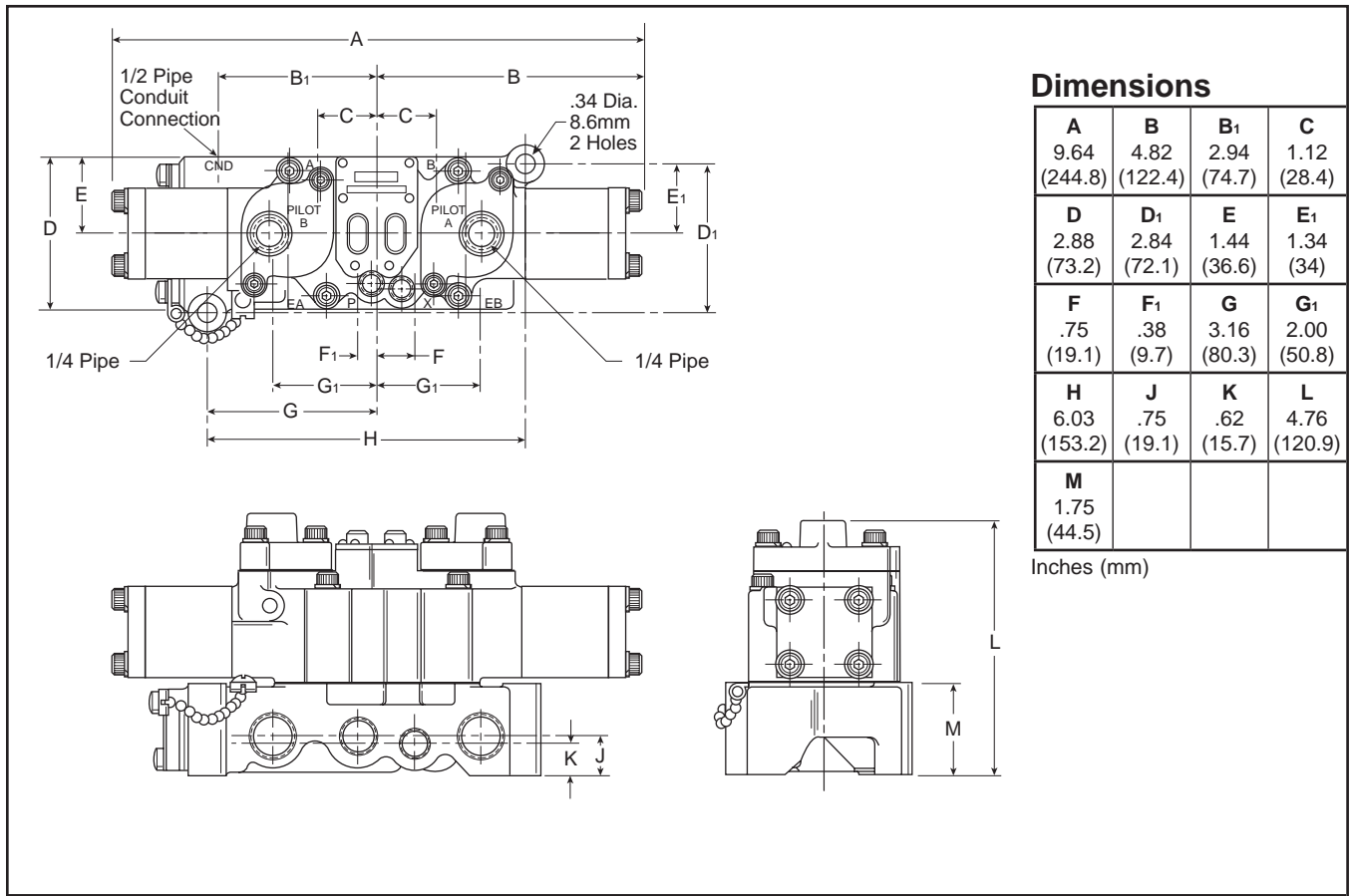
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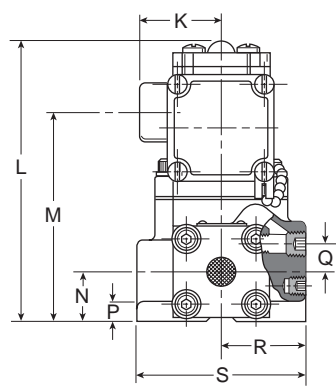
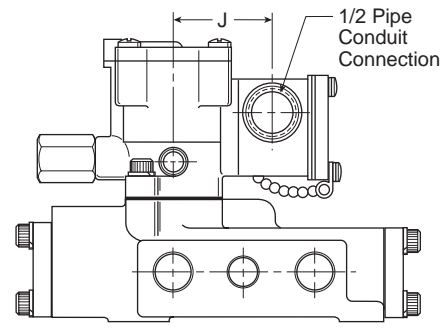
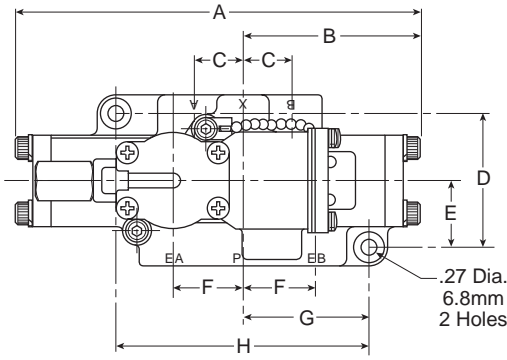
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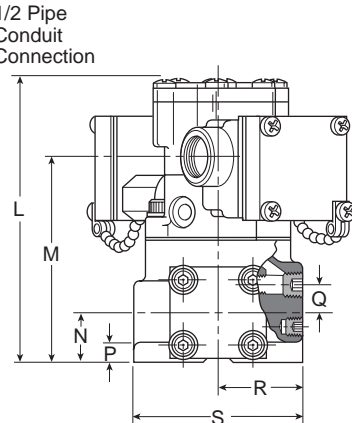
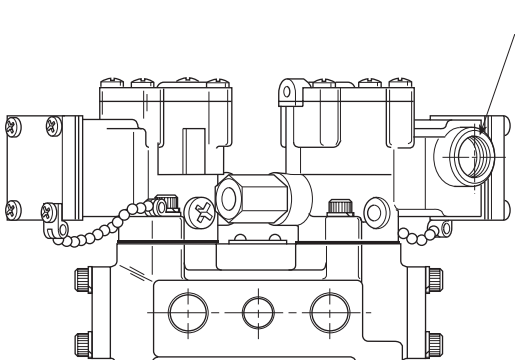
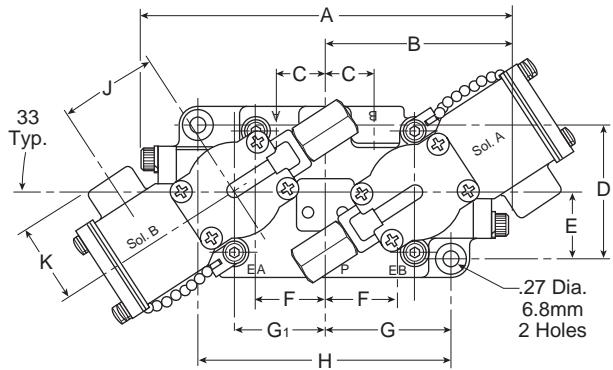
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Dimensions

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

Inches (mm)



Dimensions

A 7.56 (192)	B 3.32 (84.3)	C .90 (22.9)	D 2.56 (65)
E 1.28 (32.5)	F 1.33 (33.8)	G 2.34 (59.4)	G₁ 1.66 (42.4)
H 4.69 (119.1)	J 1.82 (46.2)	K 1.50 (38.1)	L 5.35 (135.9)
M 3.91 (99.3)	N .94 (23.9)	P .38 (9.7)	Q .53 (13.5)
R 1.62 (41.1)	S 3.25 (82.6)		

Inches (mm)



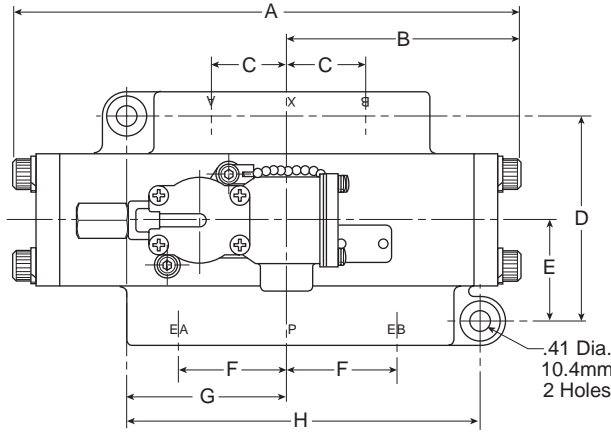
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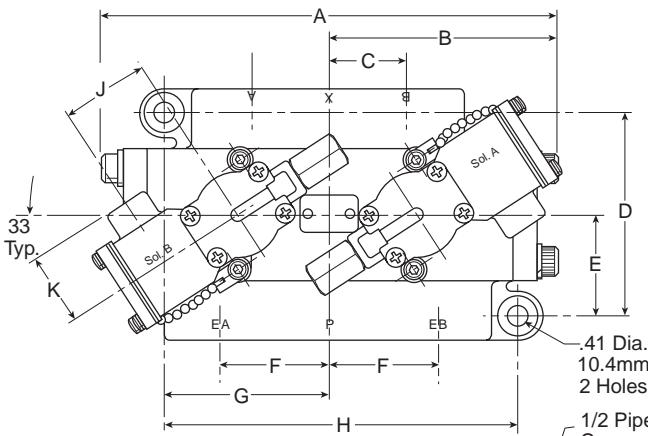
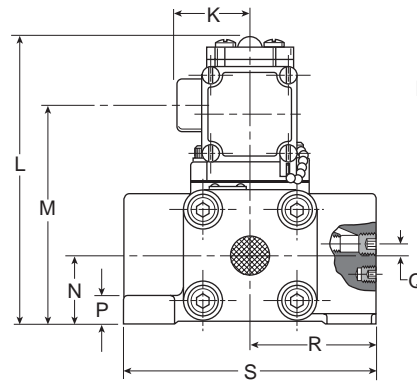
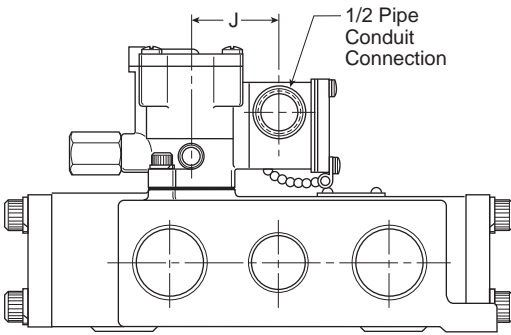
Valvair II



Dimensions

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

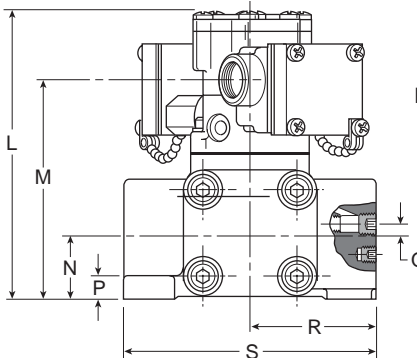
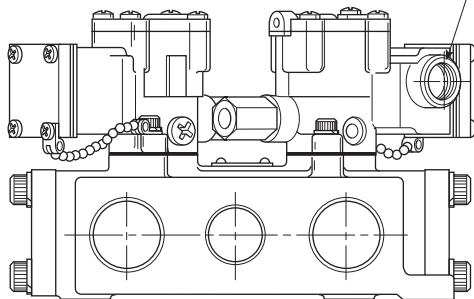
Inches (mm)



Dimensions

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

Inches (mm)



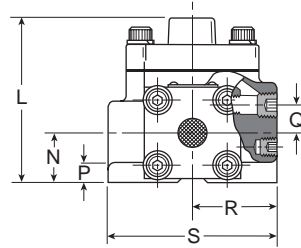
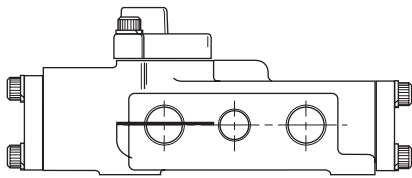
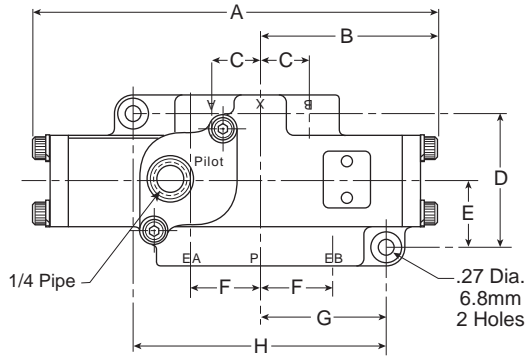
Isys
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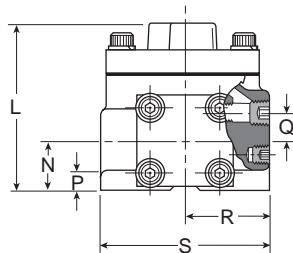
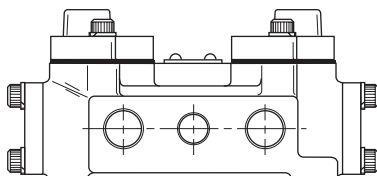
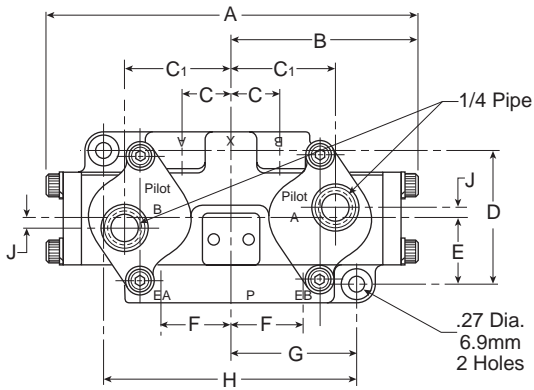
Valvair II



Dimensions

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

Inches (mm)



Dimensions

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

Inches (mm)



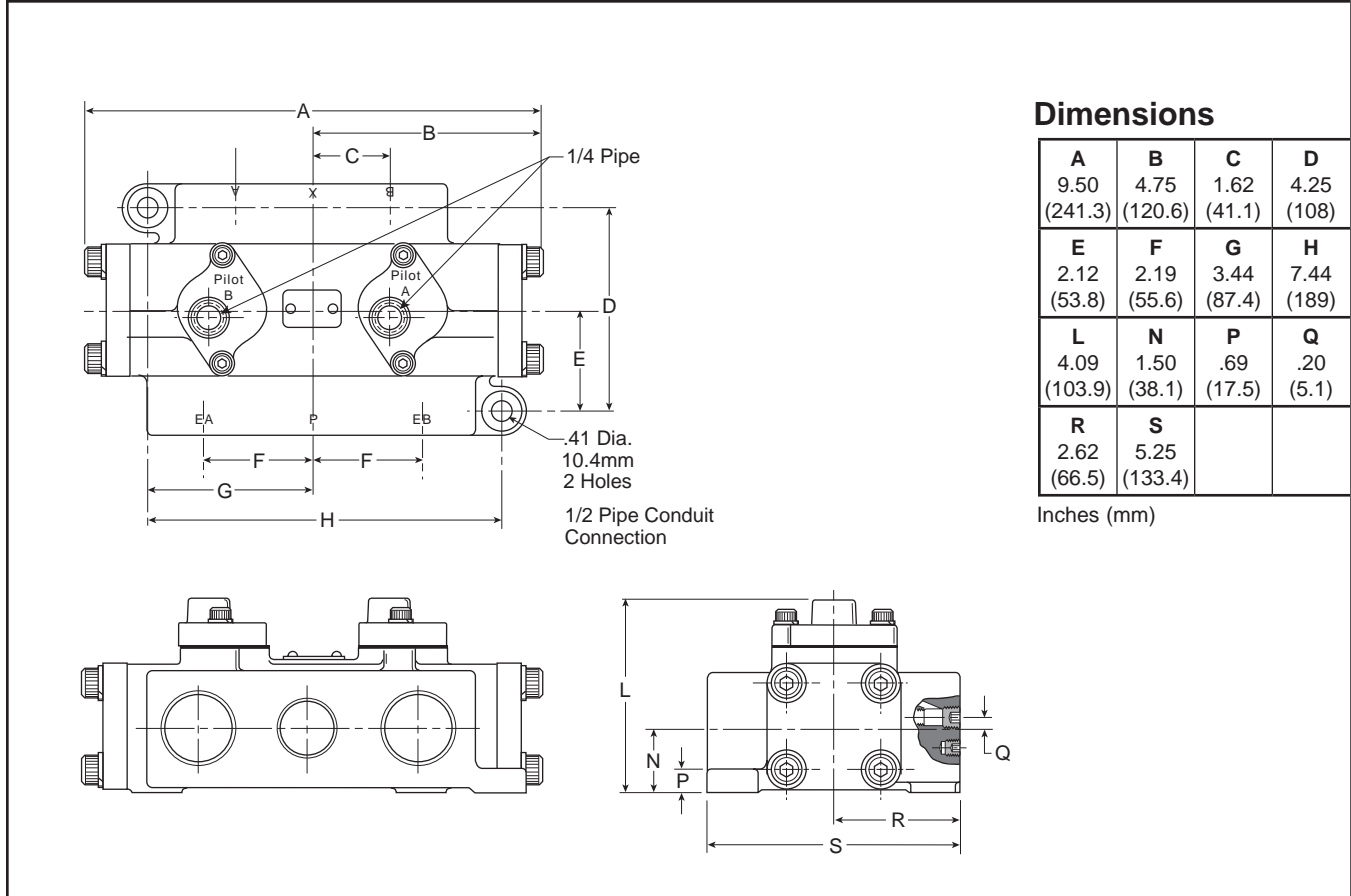
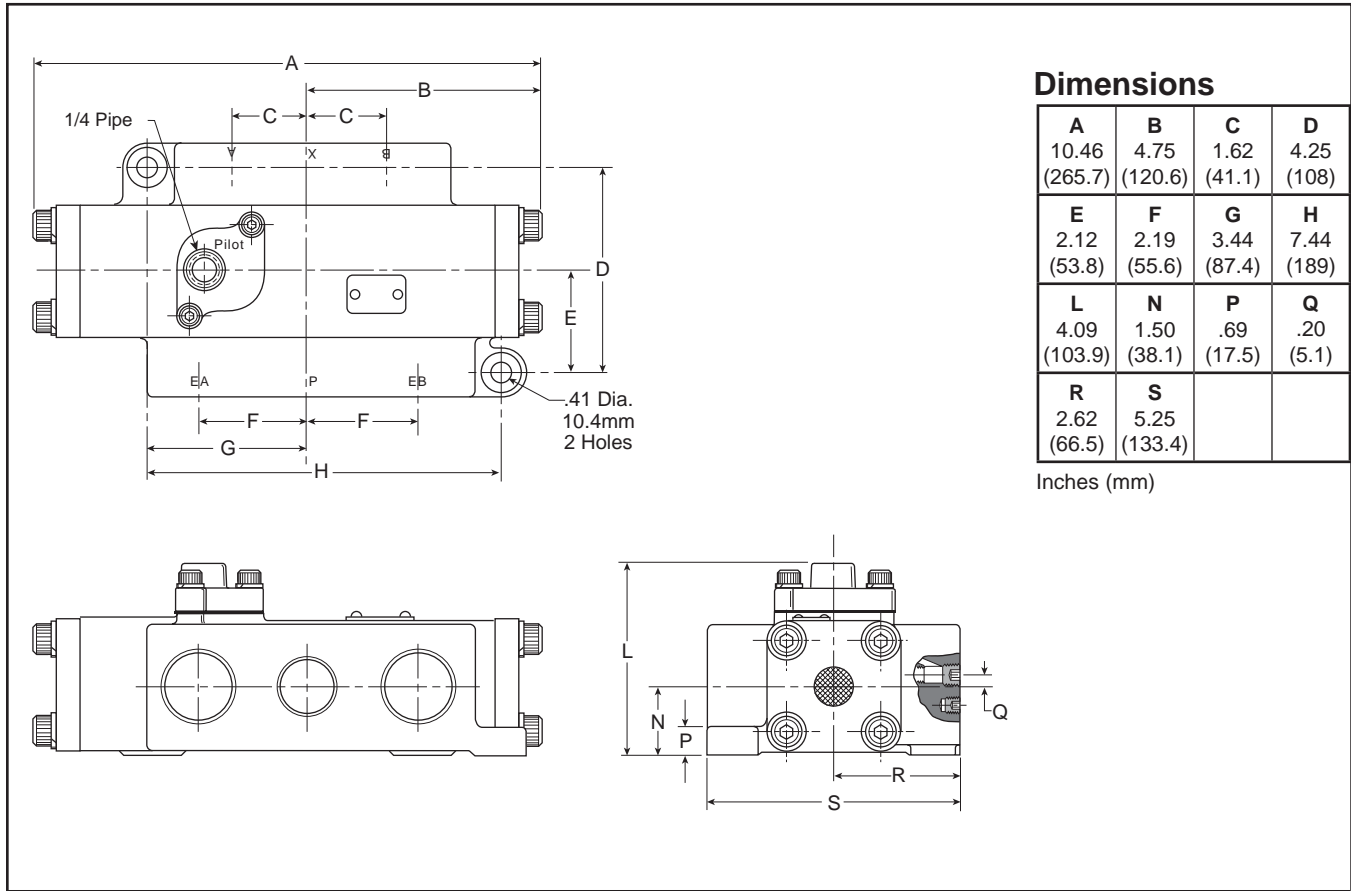
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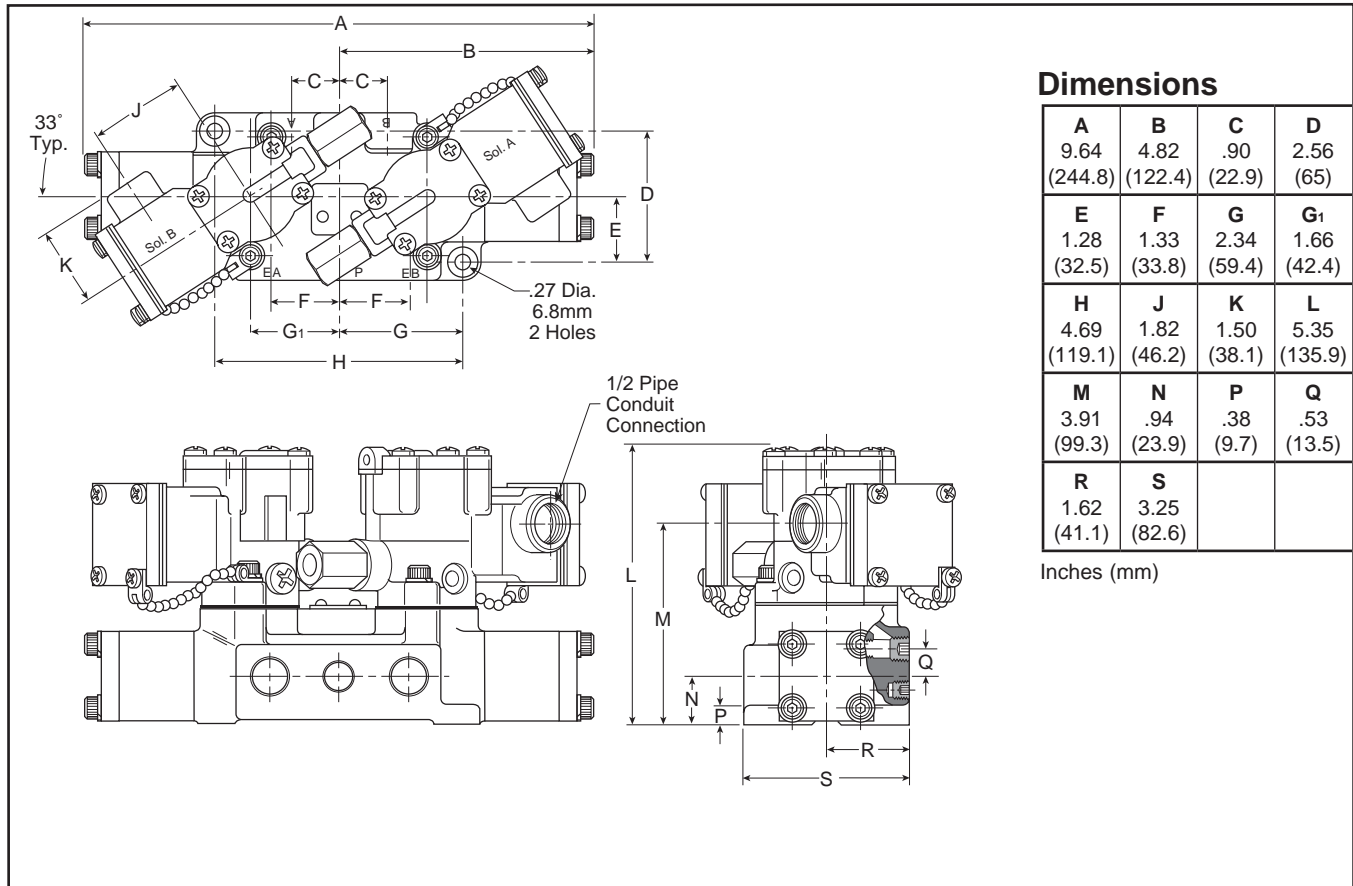
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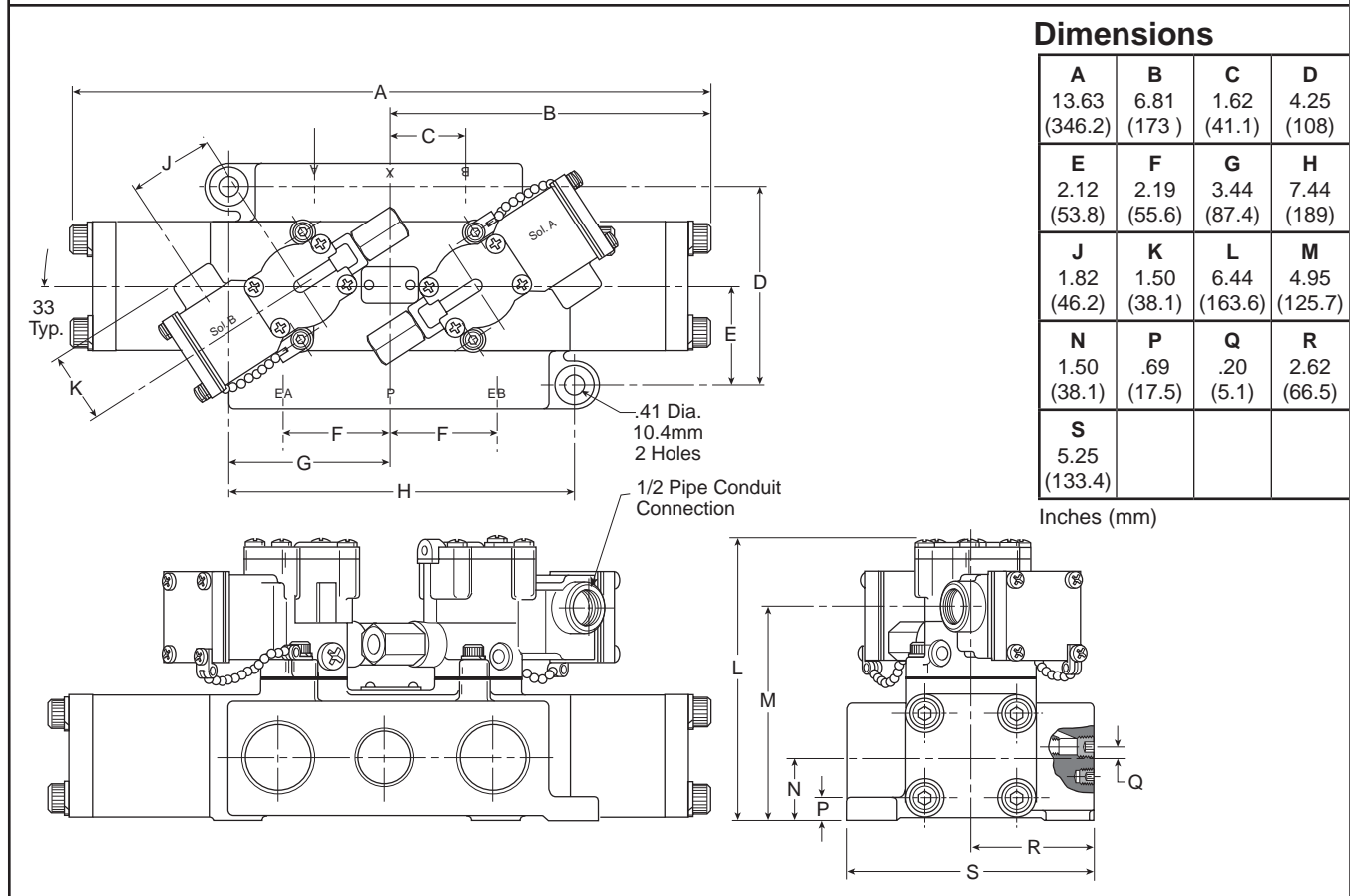




Dimensions

A 9.64 (244.8)	B 4.82 (122.4)	C .90 (22.9)	D 2.56 (65)
E 1.28 (32.5)	F 1.33 (33.8)	G 2.34 (59.4)	G₁ 1.66 (42.4)
H 4.69 (119.1)	J 1.82 (46.2)	K 1.50 (38.1)	L 5.35 (135.9)
M 3.91 (99.3)	N .94 (23.9)	P .38 (9.7)	Q .53 (13.5)
R 1.62 (41.1)	S 3.25 (82.6)		

Inches (mm)



Dimensions

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

Inches (mm)



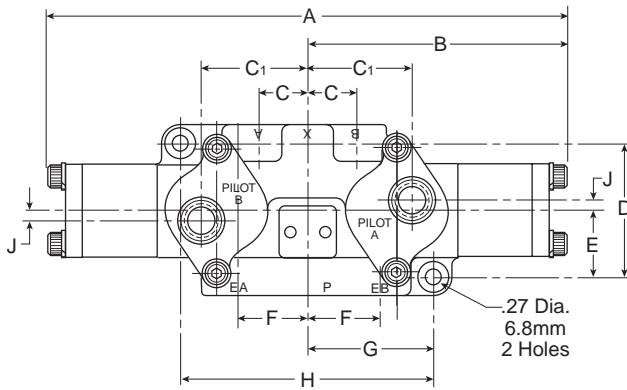
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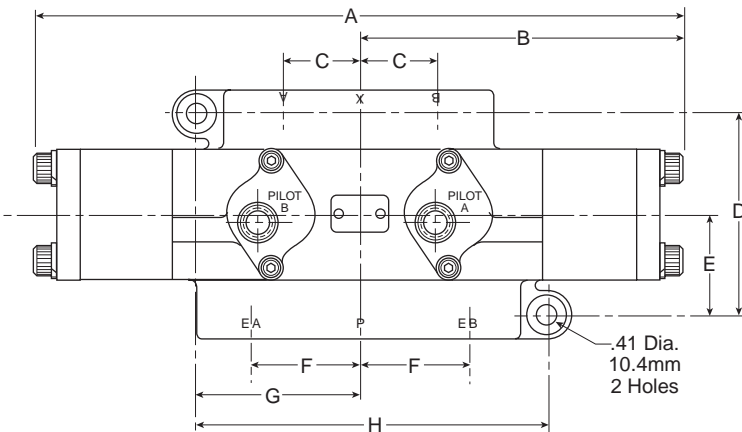
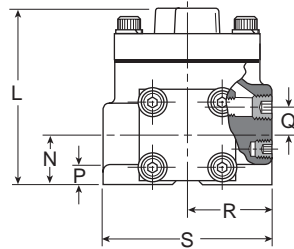
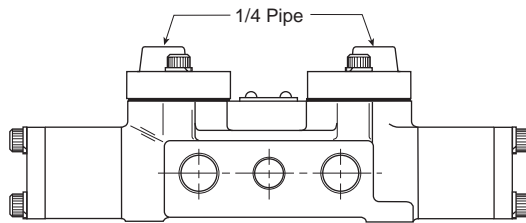
Valvair II



Dimensions

A 9.64 (244.8)	B 4.82 (122.4)	C .90 (22.9)	C₁ 1.98 (50.3)
D 2.56 (65)	E 1.28 (32.5)	F 1.33 (33.8)	G 2.34 (59.4)
H 4.69 (119.1)	J .22 (5.6)	L 3.05 (77.5)	N .94 (23.9)
P .38 (9.7)	Q .53 (13.5)	R 1.62 (41.1)	S 3.25 (82.6)

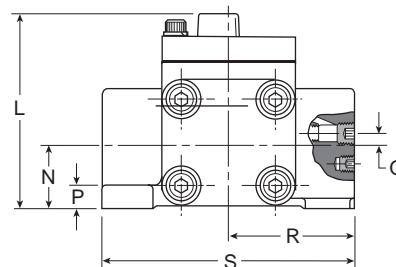
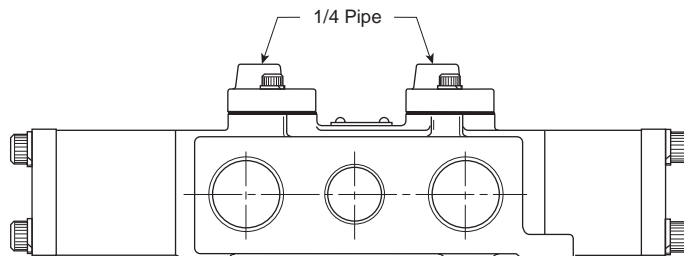
Inches (mm)



Dimensions

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

Inches (mm)



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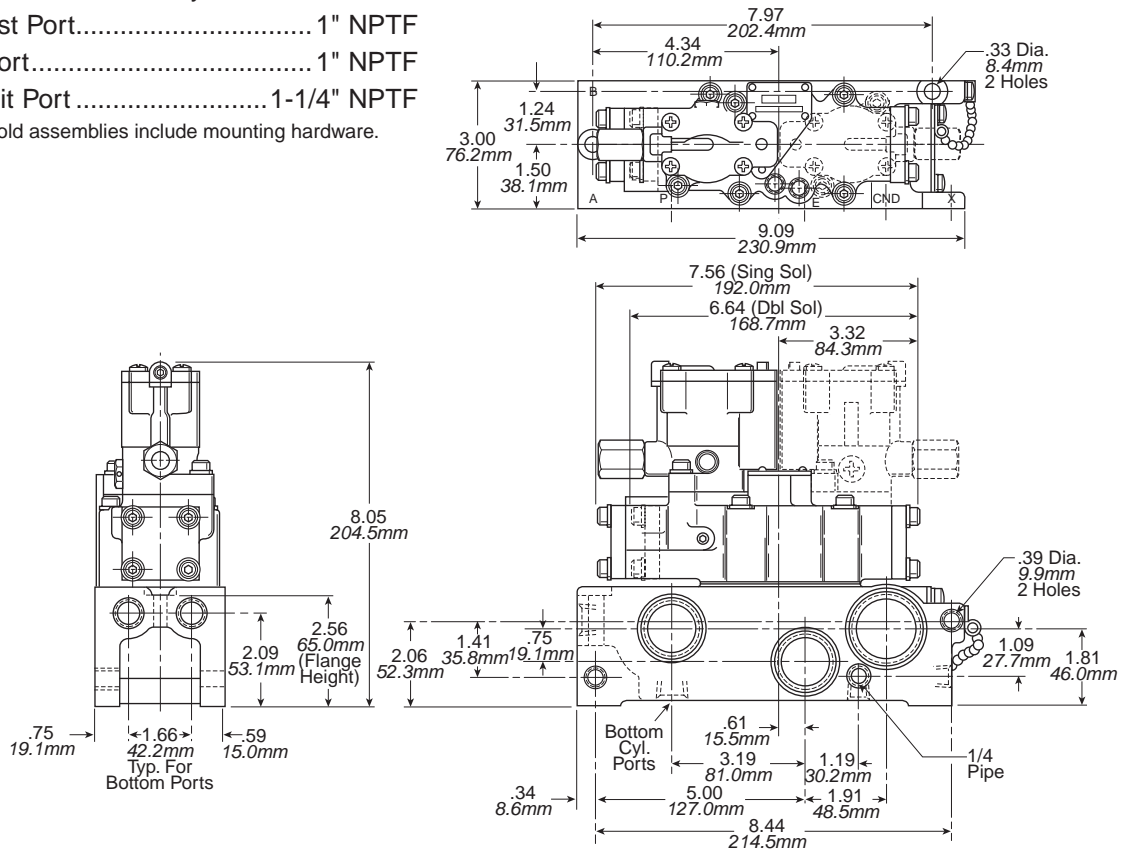
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Valvair II

3/8" Basic

- K142230 Cyl. Ports 3/8" NPTF
- K142231 Cyl. Ports 1/2" NPTF
- K142270 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.

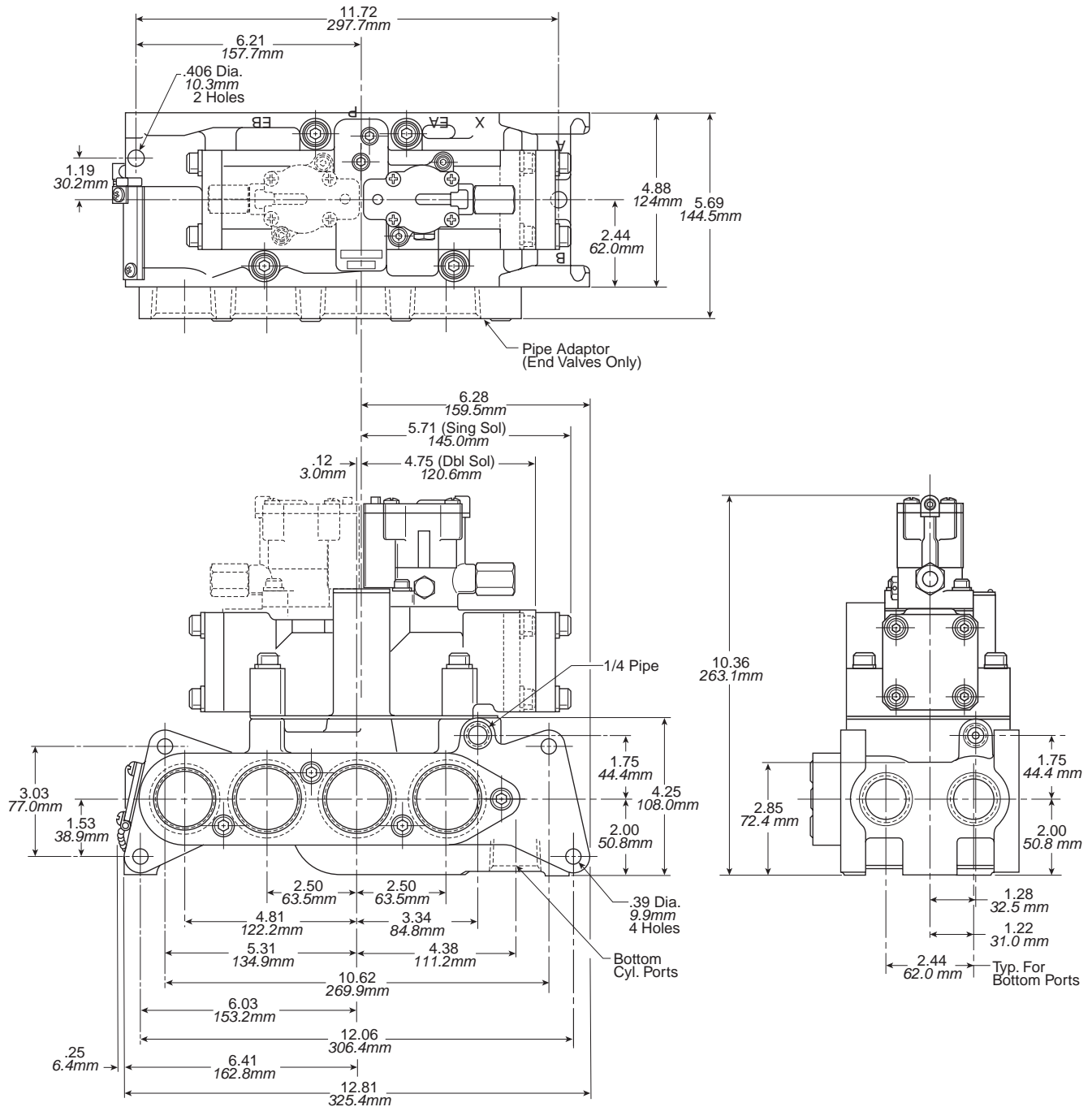


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Valvair II

1" Basic

- K142236 Cyl. Ports 1" NPTF
- K122016 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:
K142236 dimension is for reference only.
The manifold is discontinued as of August 15, 2008.



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