



PNEUMATIC VALVES AND MOTION CONTROL

2, 3, AND 4-WAY VALVES, AVAILABLE WITH ELECTRIC, MANUAL,
MECHANICAL, AND PNEUMATIC ACTUATORS. MINIATURE TO FULL SIZE VALVES.





About ARO®

ARO® is a worldwide manufacturer of fluid management products that are skillfully engineered to deliver performance and serviceability, allowing success to flow freely in our customers' businesses. That's why ARO® is fluid intelligence—the smart choice in fluid management products for industrial operations.

With over an 85-year legacy of premier product performance and service excellence, ARO® provides fluid management equipment for customers and industries around the globe. ARO® has the right product to meet our customers' specific needs. We offer air-operated diaphragm pumps, piston pumps and packages, filters, regulators, and lubricators (FRLs), lubrication equipment, and pneumatic valves and cylinders.

ARO's Fluid Power Products Keep the Unknown In Check

The smallest things pose the biggest threats to your facility. Air particle contaminants, improper pressure levels, lack of safety switches, and more can cause major damage to equipment and employees. Too often than not, plant managers are unaware of these threats until suddenly an essential tool doesn't work or their facility is shut down and they lose major time diagnosing the issue. ARO® builds the quality products to keep you from getting too familiar with the unknown. ARO® valves, cylinders, logic controls, and filters/regulators/lubricators (FRLs) make it easy to manage the small stuff. ARO® products are expertly engineered to protect your equipment and your employees from unscheduled downtime, premature breakdown, and injury risks. And because they integrate perfectly together, building a complete system for full protection is a breeze.

Our robust valve offering is broad and deep

We have a valve for almost every solenoid, manual and mechanical application. In the rare case we don't have it, we can expertly modify or customize our standard product to meet your application needs. ARO® can provide customized pneumatic control solutions to meet the needs of large customers and OEMs

The performance you deserve. The reliability you expect

ARO® has always delivered on a promise of performance, and valves are no exception. Built with the rugged reliability to handle heavy duty and dirty applications while offering excellent flow rates, our valves can control cylinder movement and machine sequence, operate pumps, and more with top-of-the-line efficiency.

ARO®

50 Series

Features

50 Series 3-Way & 4-Way Valves

- Numerous Styles and Options
 - 3-Way or 4-Way Configurations
- Six Actuator Styles.

Hand Lever	Cam Stem
Palm Button	Pilot
Roller Cam	Manual Bleed
- Compact Size provides greater design flexibility
- Perfect for low to moderate flow applications requiring manual or mechanical valve operation

Comprehensive Valve Design

Aluminum Body

50 Series Valves feature an extruded aluminum body for less porosity, greater durability and lighter weight.

Body Threaded Ports

Port threads are 1/8" NPTF

Buna N Seals

The standard spool seals are Buna N.

For high temperature applications, Viton seals are available.

Consult the factory for ordering information.

Sturdy Valve Spools

Spools are steel on mechanical and manually actuated valves.

Pilot and bleed actuator valves feature aluminum spools.



Hand Lever



Palm Button



Roller Cam



Cam Stem



Pilot



Manual Bleed

50 Series

Ordering

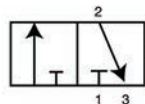
3-Way and 4-Way Valves

Position	1	2	3		4
Example:	50	X	X	-	XX

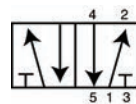
Position 1 Series	Position 2 Valve Function	Position 3 Body Style	Position 4 Actuation/Return			
50 50 Series	3 3-Way	0 1/8" Side Ports 1* 1/8" Side Ports with panel mounting *Available only with Palm Button Actuators (02, 12, 21, 32, 41)	Code	Actuator/Return	Code	Actuator/Return
	4 4-Way		01	Hand Lever/Spring	05	Roller Cam/Spring
			10	Hand Lever/Manual	06	Cam Stem/Spring
			20	Hand Lever/Pilot	24	Cam Stem/Pilot
			02	Palm Button/Spring	07	Pilot/Spring
			12	Palm Button/Manual	35	Pilot/Pilot
			21	Palm Button/Pilot	33	Manual Bleed/Manual Bleed
			32	Palm w/o Button/Manual		
			41	Palm w/o Button/Pilot		

Optional Palm Buttons

Code	Description
13111	Plastic, Black
119243	Metal, Plain
119244	Metal, Red
119245	Metal, Green
MP3651-7	Plastic, Red
For 32 or 41 Actuators	



3-Way



4-Way

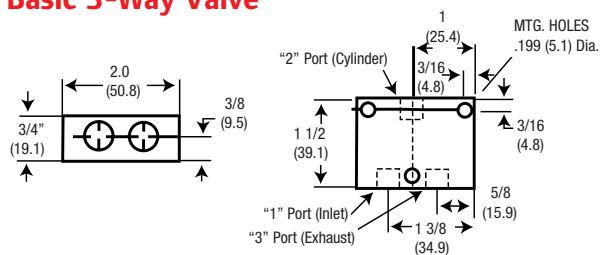
Performance Specifications

Pressure Range:	20-150 PSI Max. 50-150 PSI Max. (Manual Bleed Actuator)
Flow:	16 SCFM
Cv Factor:	.43 Cv
Temperature Rating:	-10° to 180°F (-23° to 82°C)
Minimum Pilot Pressure:	30 PSI (2.1 Bar) Pilot Return 60 PSI (4.2 Bar) Pilot Actuator/Spring Return Valves
Lubrication:	Valves use O-ring seals. For maximum performance and life expectancy, standard air line lubrication should be used.

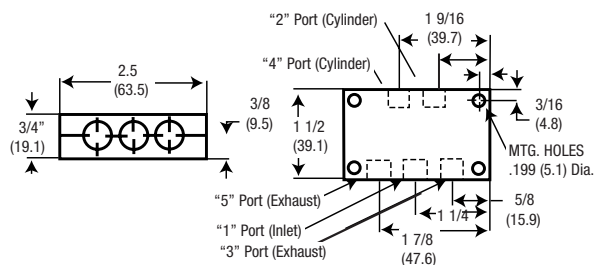
50 Series

► **Dimensions** Dimensions given in Inches and (Millimeters)

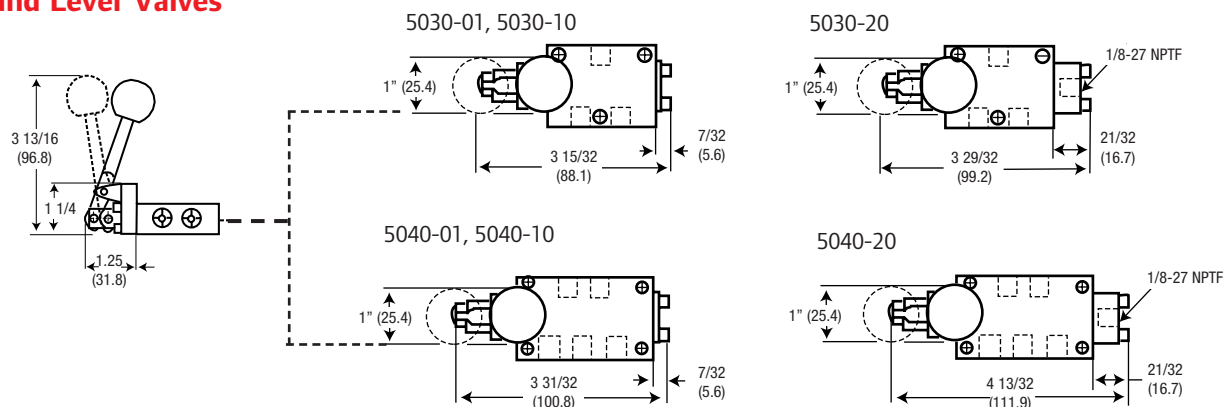
Basic 3-Way Valve



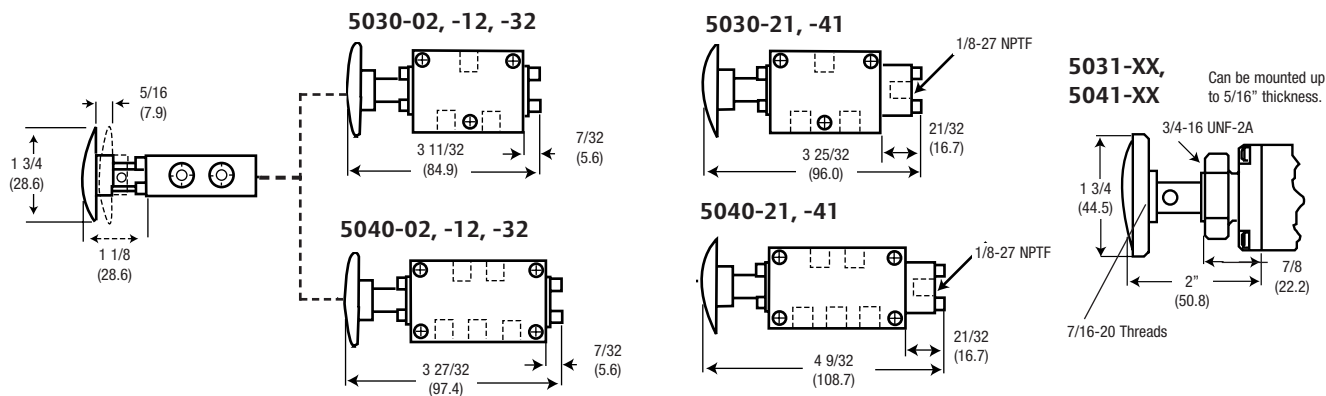
Basic 4-Way Valve



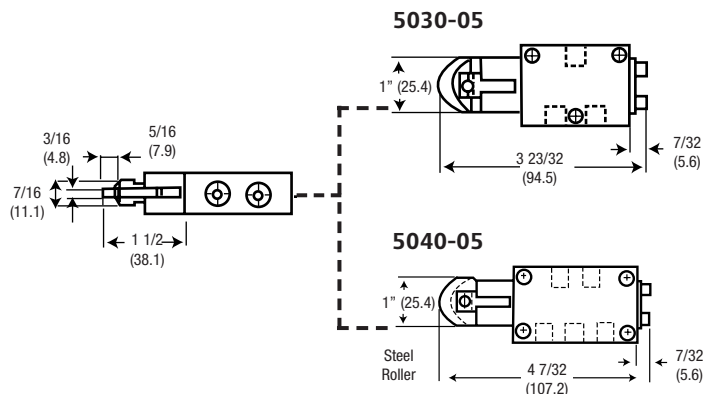
Hand Lever Valves



Palm Button Valves

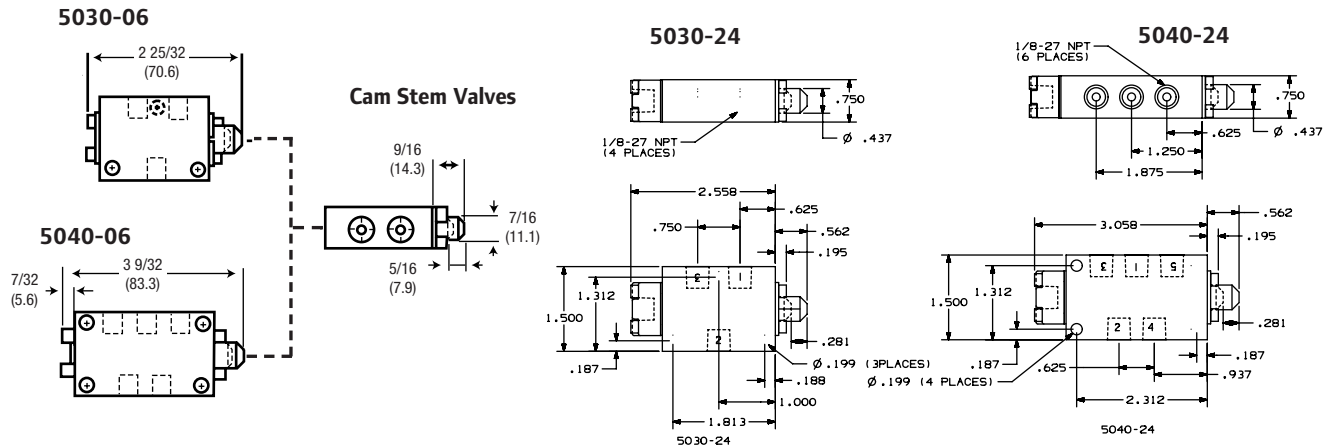


Roller Cam Valves

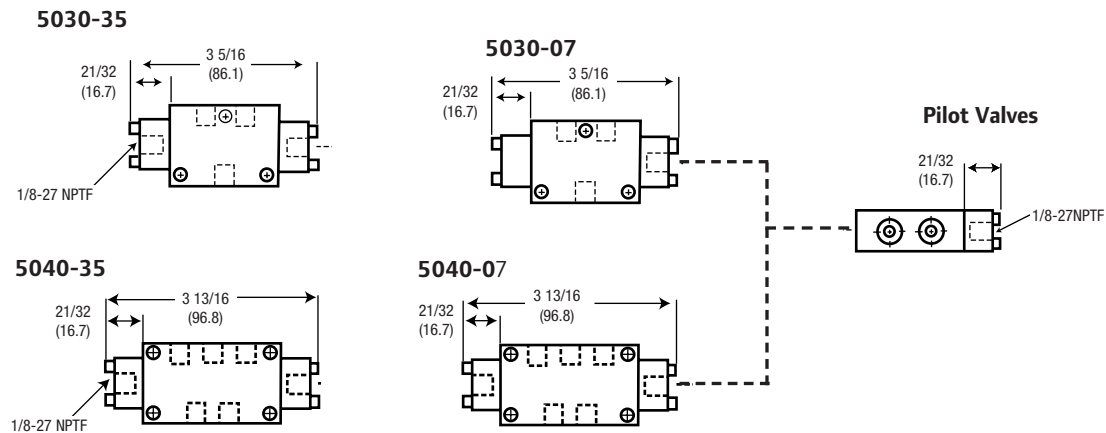


50 Series

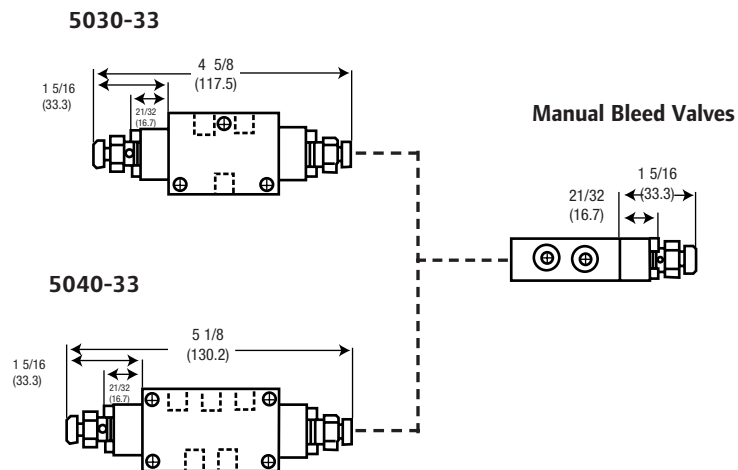
Cam Stem Valves



Pilot Valves



Manual Bleed Valves



E Series

Features

3-Way and 4-Way Valves

Several Styles and Options

- 3-Way or 4-Way Configurations. 2-and 3-position configurations.

Numerous Actuator Styles

Manual	Mechanical	Electric	Pneumatic
Hand Lever	Cam Stem	Single Solenoid	Pilot
Palm Button	Roller Cam	Double Solenoid	Bleed
Pedal			
Treadle			

Many Performance Features

- Buna-N spool seals are standard. Viton seals are available for high temperature applications. Consult the factory for ordering information.
- The E Series Valve has a low profile. An extruded aluminum body provides excellent durability and lighter weight.
- An External Solenoid Supply Port allows service in low pressure applications. This requires a #116153 plug Kit. See Page 47 for operation and ordering information.

Solenoid Override

- Manual locking override is standard on solenoid models. Turn override to operate.
- Solenoid override is a convenient means to set-up and trouble shoot circuits. Air pressure at the solenoid exhaust will also override the solenoid.

Coils

Performance Specifications

Flow: 26 SCFM

Cv Factor: .70 Cv

Temperature Ratings: -10° to 180° F (-23° to 82° C)

Weight: Solenoid Valves 1.8 to 3.4 oz. (.82 to 1.5 g)
Non-Solenoid Valves .7 to 1.3 oz (.32 to .6 g)

Lubrication: Valves use O-ring seals. For maximum performance and life expectancy, standard air line lubrication should be used.

	Pressure Range PSI (Bar)	Minimum Pilot Pressure PSI (Bar)
Manual Actuators		
Manual, Spring, and Spring Centered Returns	20 -150 (1.4 - 10.2)	
Mechanical Actuators		
Manual, Spring, and Spring Centered Returns	20 -150 (1.4 - 10.2)	
Electric Actuators		
Spring Return	30-150 (2-10.2)	
Spring Centered Return	35-150 (2.4-10.2)	
Solenoid Return	20-150 (1.4-10.2)	
Pneumatic Actuators		
Pilot/Spring Return	20-150 (1.4-10.2)	30 (2)
Pilot/Spring Centered	20-150 (1.4-10.2)	35 (2.4)
Pilot/Pilot Return	20-150 (1.4-10.2)	15 (1)
Bleed/Spring Return	20-150 (1.4-10.2)	
Bleed/Bleed	20-150 (1.4-10.2)	



Hand Lever



Palm Button



Pedal



Treadle



Cam Stem



Roller Cam



Solenoids



Pilot



Bleed

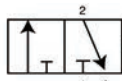
E Series

Ordering

Position	1	2	3	4	5		6		7
Example:	E	X	X	2	XX	-	XXX	-	X

Position 1 Body Style	Position 2 Valve Type	Position 3 Body Style	Position 4 Port Size	Position 5 Actuation/Return*	Position 6 Coil Voltage	Position 7 Current Type
E E Series	1 2 Position Detent 2 2 Position 3 3 Position Spring Centered 5 3 Position Detent (3 & 5, all ports blocked) 6 3 Position Detent (inlet ports blocked, cylinder ports open) 7 3 Position Spring Centered (6 & 7, inlet ports blocked, cylinder ports open)	1 4 Way Side Ported 4* 4 Way Bottom Ported 5 3 Way Side Ported *Solenoid and Pilot Models only.	2 1/4" NPT	BD Bleed Double BS Bleed/Spring CS Cam Stem/Spring US Cam Stem/Spring, 1/4" Spool travel, 3-way valve only. RS Roller Cam/Spring HM Palm/Manual HP Palm/Pilot HS Palm/Spring WM Palm w/o Button/Manual WP Palm w/o Button/Pilot WS Palm w/o Button/Spring LM Hand Lever/Manual LP Hand Lever/Pilot LS Hand Lever/Spring PD Pilot/Double PS Pilot/Spring SD Double Solenoid SN Solenoid/Spring-N.O. SS Solenoid/Spring FP Pedal/Pilot FS Pedal/Spring TM Treadle/Manual TS Treadle/Spring	000 No coil 024 24V AC/DC 120 120V AC 012 12V AC/DC 240 240V AC Required only when ordering Solenoid Valves.	A AC D DC N No Coil Required only on Solenoid Valves If coil option A, D or L is selected, a coil connector must be ordered. See Pg. 69 for coil & connector information.

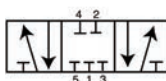
*Numbering ends here if a non-solenoid valve is being selected.



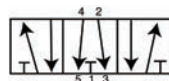
3-Way



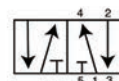
4-Way, 2-Position



4-Way, 3-Position all ports blocked



4-Way, 3-Position inlet ports blocked, cylinder ports open



4-Way, 2-Position Bleed Valve

Accessories

Palm Buttons

For use with WM, WP or WS Actuators.

13111	Plastic, Black
119243	Metal, Plain
119244	Metal, Red
119245	Metal, Green
MP3651-7	Plastic, Red

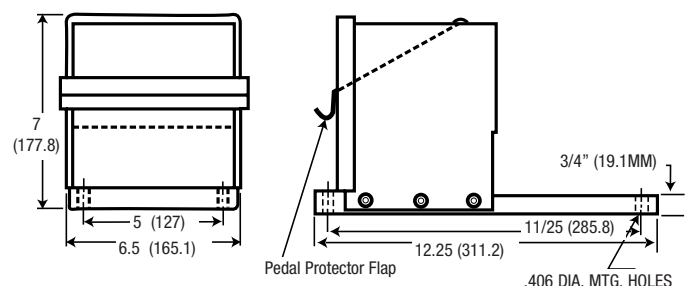


20965-1

Foot Pedal Guards

Recommended for applications where accidental actuation may result in damage or injury. Model 20965-1 is designed to comply with ANSI No. B11.1-1971 specifications and OSHA regulations.

20965-1	Pedal Guard with Flapper
20965-2	Pedal Guard without Flapper

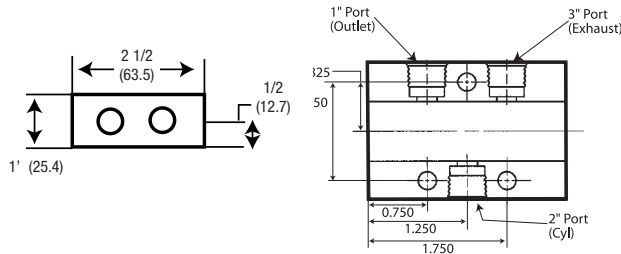


NOTE: Not for use with treadle actuator

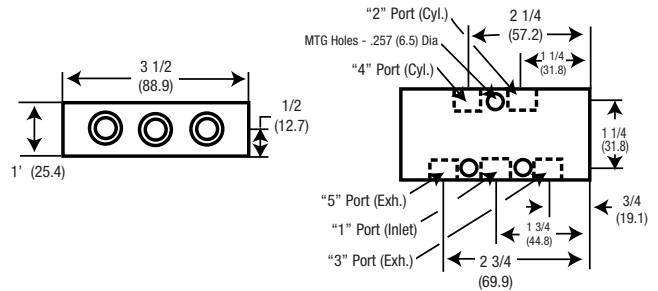
E Series

► **Dimensions** Dimensions given in Inches and (Millimeters)

Basic 3-Way Valve

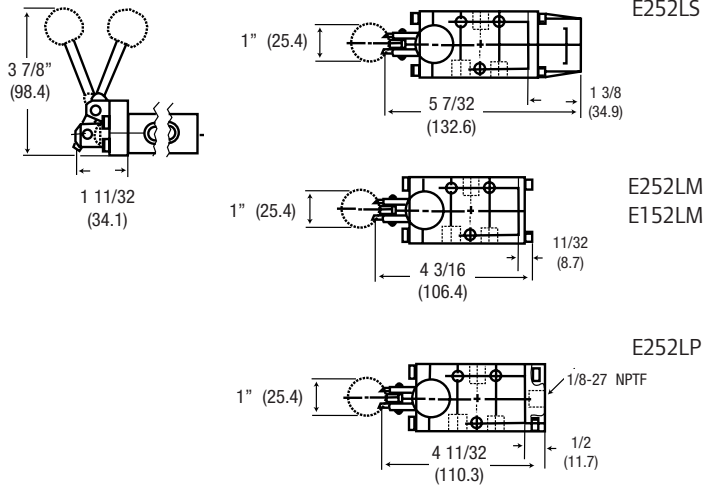


Basic 4-Way Valve

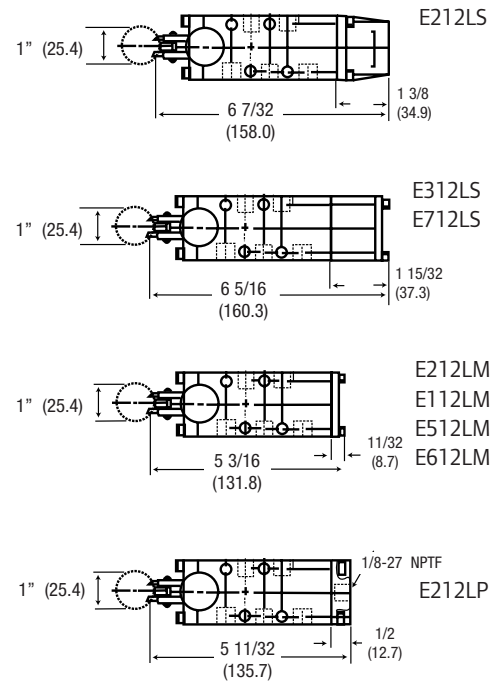


Hand Lever Valves

3 Way Valves

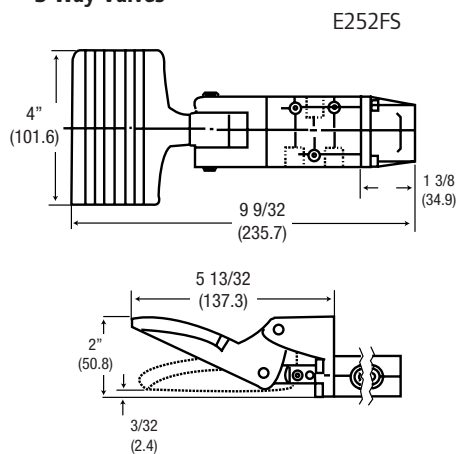


4 Way Valves

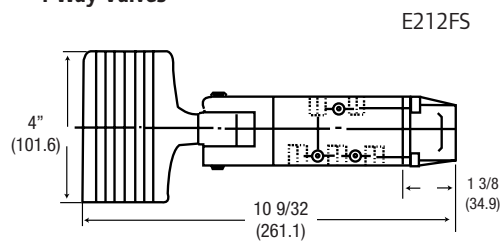


Pedal

3 Way Valves

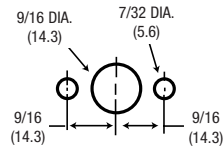
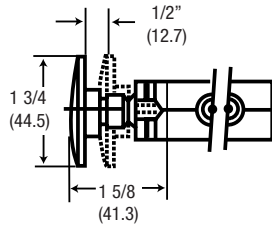


4 Way Valves



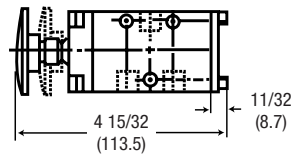
E Series

Palm Button Valves

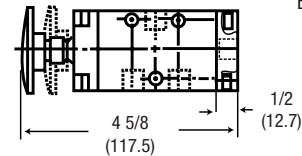


Palm Button Valves may be panel mounted. 1/8" Max. panel thickness utilizing two 10-24 UNC tapped holes in end cap
Not Available on detent models:
 E152HM or -WM
 E112HM or -WM

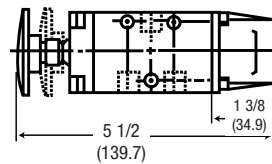
3 Way Valves



E252HM or -WM
 E152HM or -WM

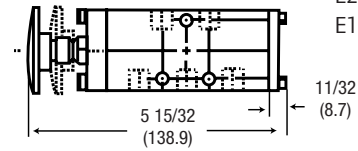


E252HP or -WP

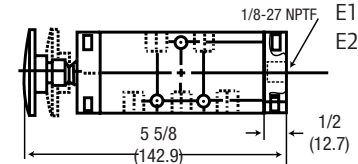


E252HS or -WS

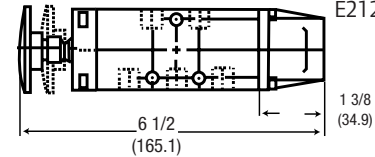
4 Way Valves



E212HM or -WM
 E112HM or -WM

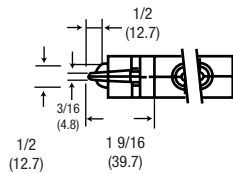


E112HP or -WP
 E212HP or -WP

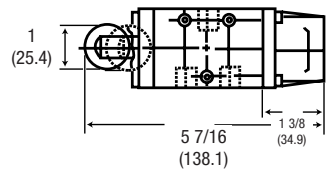


E212HS or -WS

Roller Cam Valves

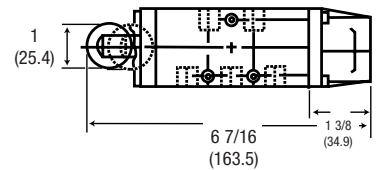


3 Way Valves



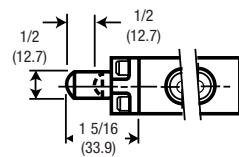
E252RS

4 Way Valves

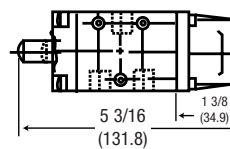


E212RS

Cam Stem Valves

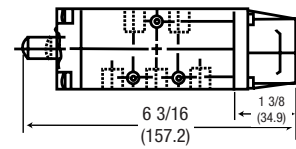


3 Way Valves



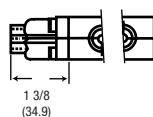
E252CS

4 Way Valves

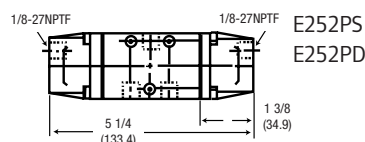


E212CS

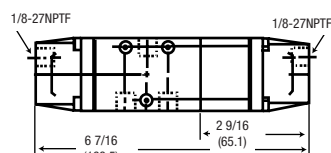
Pilot Valves



3 Way Valves

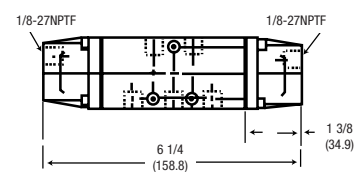


E252PS
 E252PD

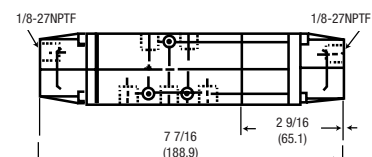


E152PD

4 Way Valves



E212PS
 E212PD

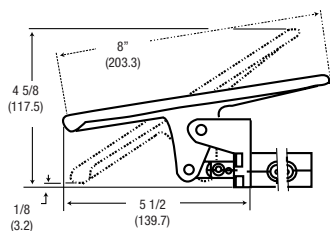


E112PD
 E312PD
 E712PD

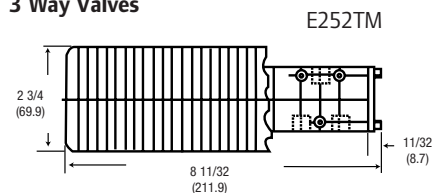
E Series

Dimensions Dimensions given in Inches and (Millimeters)

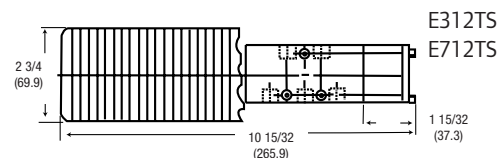
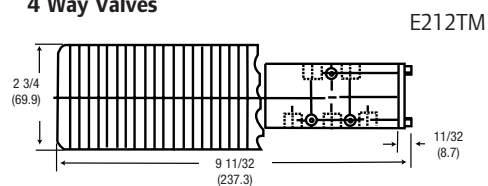
Treadle Valves



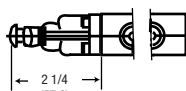
3 Way Valves



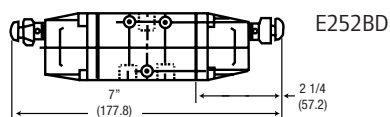
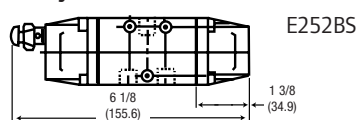
4 Way Valves



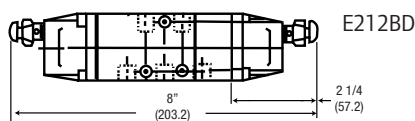
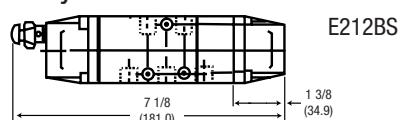
Bleed Valves



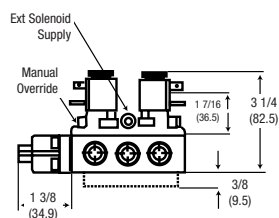
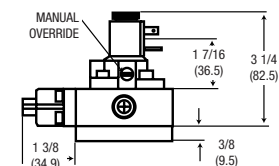
3 Way Valves



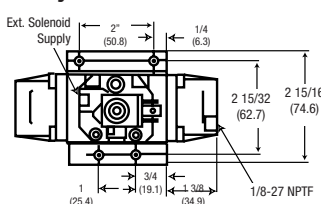
4 Way Valves



Solenoid Valves

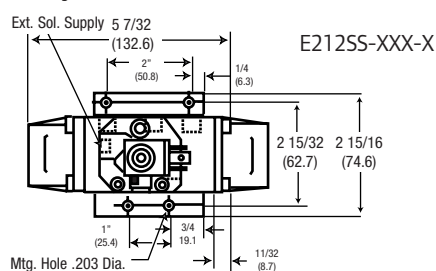


3 Way Valves

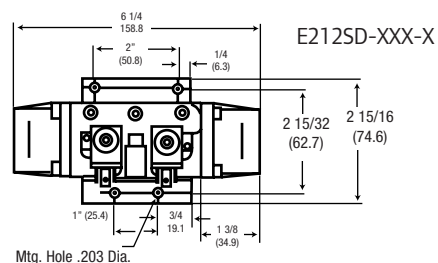


E252SN-XXX-X
E252SS-XXX-X

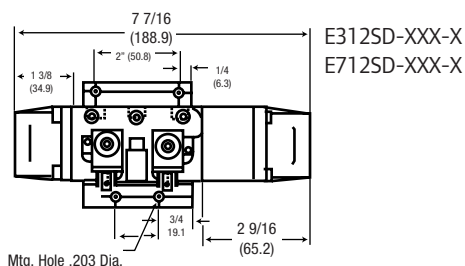
4 Way Valves



Mtg. Hole .203 Dia.



Mtg. Hole .203 Dia.



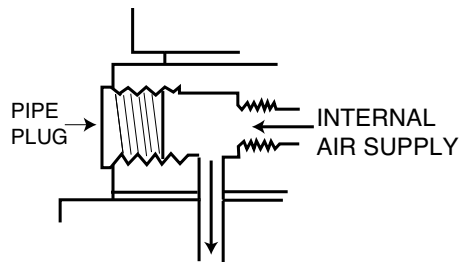
Mtg. Hole .203 Dia.

E Series

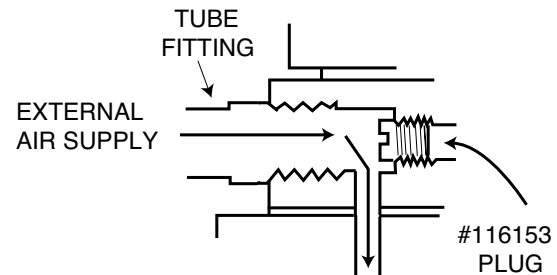
Accessories

116153 Plug Kit

Kit needed for low pressure applications requiring an external Solenoid Supply Pressure. To use, remove and discard the standard pipe plug in the solenoid base. Thread the Plug/O-ring assembly into the threaded port. This blocks the internal supply connection. Finish by connecting an external air supply to the 1/8 NPTF port.



SOLENOID VALVE
W/INTERNAL SOLENOID SUPPLY
FROM VALVE BODY AS SHIPPED



CONVERTED SOLENOID VALVE
W/EXTERNAL SOLENOID SUPPLY
CONNECTION

K Series

Features

Several Styles and Options

- 5-Port, 4-Way, 2 and 3-position directional control valves.

Numerous Actuator Styles

Manual	Electric	Pneumatic
Hand Lever	Single Solenoid	Pilot
Palm Button	Double Solenoid	Bleed
Pedal		
Treadle		

Comprehensive Valve Design

Aluminum Body

Sand cast aluminum body provides a rugged, reliable valve.

Buna N Seals

Standard seals are Buna N, for extended valve life. Viton seals are available for high temperature applications. Consult factory for ordering information.

Sturdy Spools

K-Series valves have an aluminum spool. This slides in a hard anodized Teflon non-stick aluminum sleeve (3/8" or 1/2" models) The sleeves are brass on 3/4" or 1" models.

Standard Solenoid Override Feature

3/8" and 1/2" models only.

External Solenoid

External Solenoid supply port enables valve operation for vacuum service or low pressure operations. For proper supply connection, consult factory. (Remove end cap and rotate gasket 90° for remote solenoid supply.)



Hand Lever



Pedal



Treadle



Solenoids



Pilot



Bleed



K Series

Ordering

Position	1	2	3	4	5		6		7
Example:	K	X	1	X	XX	-	XXX	-	X

Position 1 Body Style	Position 2 Valve Type	Position 3 Body Style	Position 4 Port Size	Position 5 Actuation/Return*	Position 6 Coil Voltage	Position 7 Current Type
K K Series	2 2 Position 3 3 Position Spring Centered 5 3 Position Detent (3 & 5, all ports blocked in neutral) 6 3 Position Detent (inlet ports blocked, cylinder ports open in neutral) 7 3 Position Spring Centered (6 & 7, inlet ports blocked, cylinder ports open in neutral)	1 4 Way Side Ported	3 3/8" NPT 4 1/2" NPT 6 3/4" NPT 8 1" NPT	BD Bleed/Bleed BS Bleed/Spring *FP Pedal/Pilot *FS Pedal/Spring **HS Palm/Spring *LM Hand Lever/Manual *LS Hand Lever/Spring PD Pilot/Pilot PS Pilot/Spring SD Solenoid/Solenoid SS Solenoid/Spring *TM Treadle/Manual *FP, FS, LM, LS & TS available in 3/8" and 1/2" port sizes only. Numbering ends here if a Non-Solenoid valve is being selected. **HS available in 3/8" port size only.	000 No coil 012 12V AC or DC 024 24V AC or DC 120 120V AC or DC 240 240V AC only Required only when ordering Solenoid Valves.	A AC D DC N No Coil Required only on Solenoid Valves If coil option A or D is selected, a coil connector must be ordered. See Pg. 69 for coil & connector information.

Performance Specifications

Temperature Ratings: -10° to 180° F (-23° to 82° C)

Lubrication: Valves use O-ring seals. For maximum performance and life expectancy, standard air line lubrication should be used.

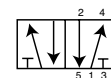
Flow & Cv Factor:

Port Size	Flow	Cv Factor
3/8"	83 SCFM	2.30
1/2"	90 SCFM	2.57
3/4"	270 SCFM	7.54
1"	280 SCFM	7.80

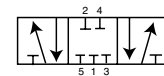


20965-X Foot Pedal Guards, for use with Pedal Style valves. See Pg. 43 (bottom) for details.

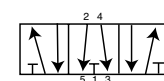
	Pressure Range PSI (Bar)	Minimum Pilot Pressure PSI (Bar)
Manual Actuators		
Manual, Spring, and Pilot	0-150 (0-10.4)	20 (1.4)
Mechanical Actuators		
Manual, Spring, and Pilot	0-150 (0-10.4)	20 (1.4)
Electric Actuators		
Spring Return	50-150 (3.5-10.4)	
Spring Centered Return	60-150 (4.1-10.4)	
Solenoid Return	20-150 (1.4-10.4)	
Pneumatic Actuators		
Pilot/Spring Return	0-150 (0-10.4)	50 (3.5)
Pilot/Spring Centered	0-150 (0-10.4)	60 (4.1)
Pilot/Pilot Return	50-150 (3.5-10.4)	20 (1.4)
Bleed/Spring Return	50-150 (3.5-10.4)	
Bleed/Bleed	20-150 (1.4-10.4)	



2-Position



3-Position, inlet ports blocked

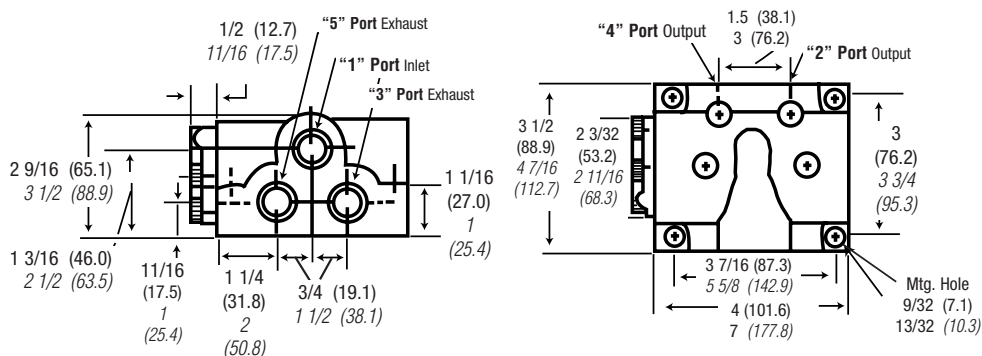


3-Position, inlet blocked, cylinder ports open

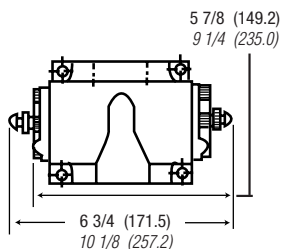
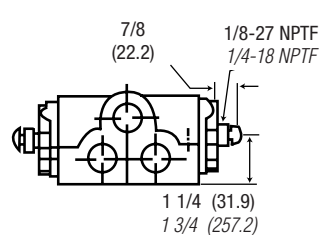
K Series

▀ **Dimensions** Dimensions given in Inches and (Millimeters)

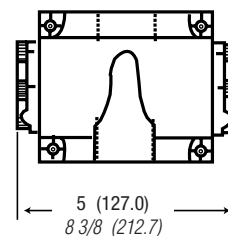
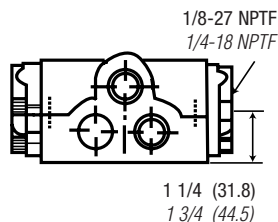
Basic Valves



Pilot and Bleed Valves

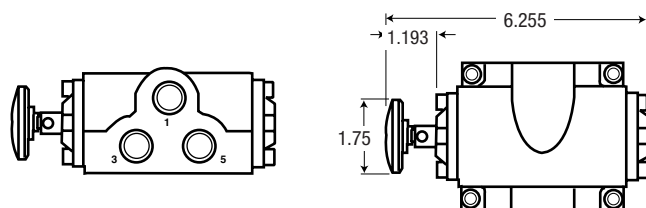


K2XXPS
K2XXPD
K3XXPD
K7XXPD



K21XBS Top Dimension = 3/8" and 1/2" Ports
K21XBD Bottom Dimensions = 3/4" and 1" Ports

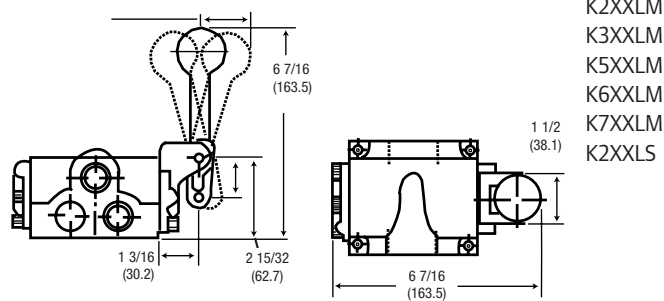
Palm Valves



K213HS

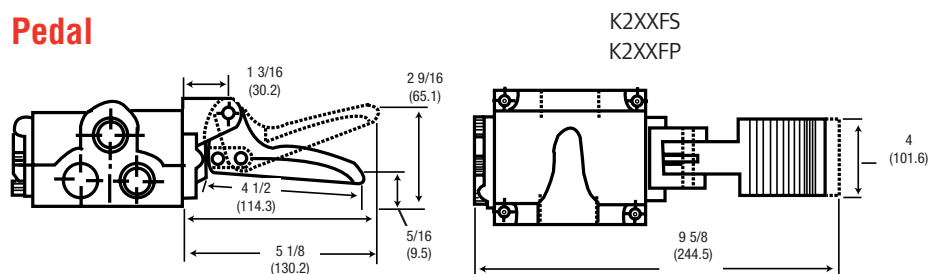
K Series

Hand Lever

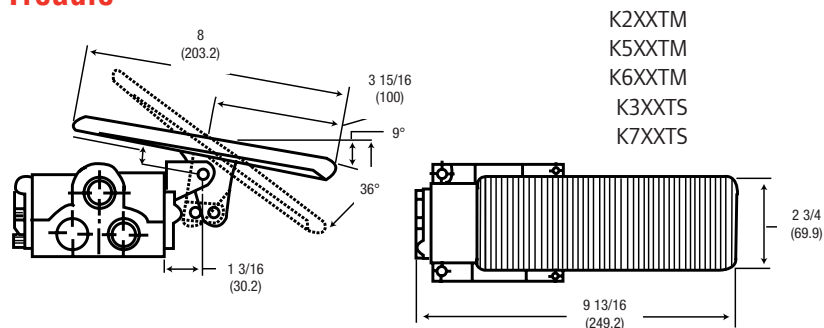


Top Dimension = $\frac{3}{8}$ " and $\frac{1}{2}$ " Ports
 Bottom Dimensions = $\frac{3}{4}$ " and 1" Ports

Pedal

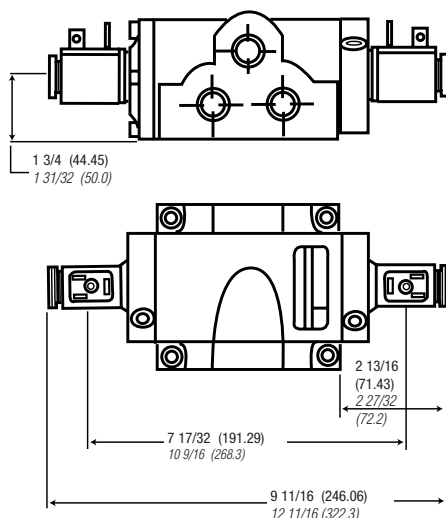


Treadle

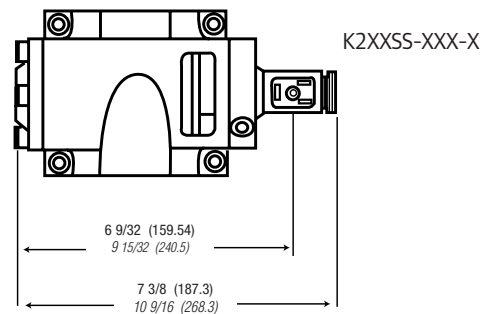


Solenoid

Double Solenoid



Single Solenoid



Top Dimension = $\frac{3}{8}$ " and $\frac{1}{2}$ " Ports
 Bottom Dimensions = $\frac{3}{4}$ " and 1" Ports

H Series

Features

Several Styles and Options

- H-Series Valves feature high-flow and fast response.
- 3-Way and 4-Way 2-position Poppet Valves
- Override is not available with “H” Series Valves

Numerous Actuator Styles

Electric	Pneumatic
3-Way Solenoid	3-Way Pilot
4-Way Solenoid	4-Way Pilot
	4-Way Pilot Bleed
	4-Way Manual Bleed

Comprehensive Valve Design

Durable Valve Body

Valve body is die-cast Zinc, with a zinc chromate coating for added corrosion resistance in harsh environments.

Superior Performance

Large, unrestricted air passages produce high flow and fast response times.

Superior Design

3-Way valves feature a single poppet. 4-Way valves have two simultaneously driven poppets to provide the 4-way function.



3-Way Pilot



3-Way Solenoid



4-Way Solenoid



Manual Bleed



Pilot Bleed



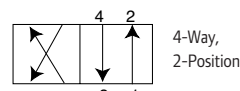
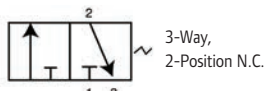
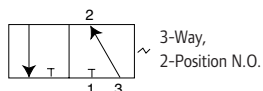
4-Way Pilot

H Series

Ordering

Position	1	2	3	4	5		6		7
Example:	H	2	X	X	XX	-	XXX	-	X

Position 1 Body Style	Position 2 Valve Type	Position 3 Body Style	Position 4 Port Size	Position 5 Actuation/Return	Position 6 Coil Voltage	Position 7 Current Type
H H Series	2 2 Position	1 4 Way Side Ported 5 3 Way Side Ported	2 1/4" NPT 3 3/8" NPT 4 1/2" NPT	3-Way Valves PS Pilot/Spring SS Solenoid/Spring 4-Way Valves BD Manual Bleed/Manual Bleed PA Pilot/Internal Pilot PD Pilot/Pilot SA Solenoid/Internal Pilot SD Solenoid/Solenoid Numbering ends here if a Non-Solenoid valve is being selected.	000 No coil 012 12V AC or DC 024 24V AC or DC 120 120V AC or DC 240 240V AC only Required only when ordering Solenoid Valves.	A AC D DC N No Coil Required only on Solenoid Valves If coil option A or D is selected, a coil connector must be ordered. See Pg. 69 for coil & connector information.



Performance Specifications

Valve Performance Data

Actuator	Return	Pressure Range PSI (bar)	Minimum Pilot Pressure PSI (bar)
3-Way Valves			
Pilot	Spring	30-150 (2.1-10.4)	30 (2.1)
Solenoid	Spring	30-150 (2.1-10.4)	
4-Way Valves			
Pilot	Internal Pilot	20-150 (1.4-10.4)	20 (1.4)
Manual Bleed	Manual Bleed	20-150 (1.4-10.4)	
Pilot Bleed	Pilot Bleed	20-150 (1.4-10.4)	20 (1.4)
Solenoid	Internal Bleed or Solenoid	25-135 (1.7-9.3)	

Flow SCFM

Port Size	Side Ported	Cv Factor
3-Way Valves		
1/4"	55	1.51
3/8"	81	2.27
1/2"	85	2.40
4-Way Valves		
1/4"	50	1.40
3/8"	88	2.38
1/2"	100	2.80

Response Time @ 100 PSI

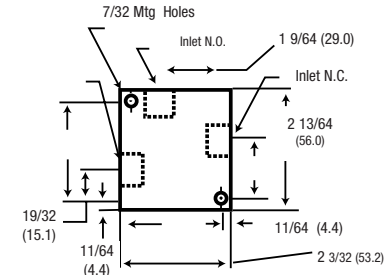
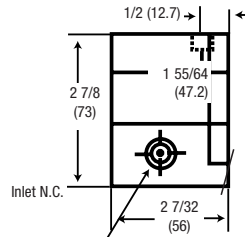
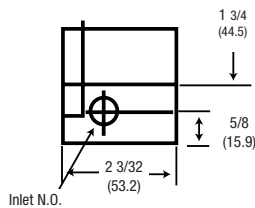
Energized	De-energized
3-Way Valves	
N.O. - 23 ms	20 ms
N.C. - 22 ms	26 ms
4-Way Valves	
44 ms	27 ms

H Series

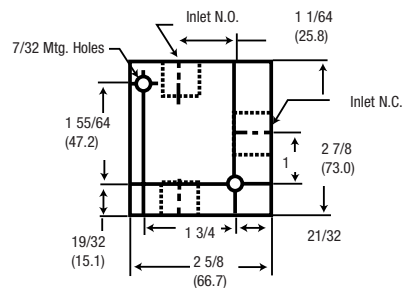
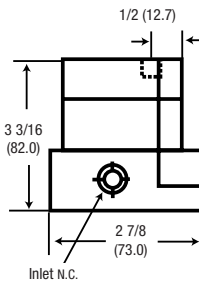
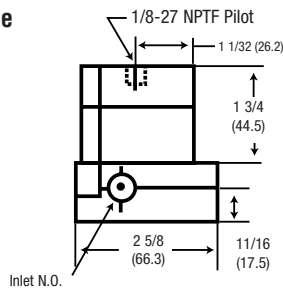
► **Dimensions** Dimensions given in Inches and (Millimeters)

3-Way Basic Valves

1/4" and 3/8" Side Port

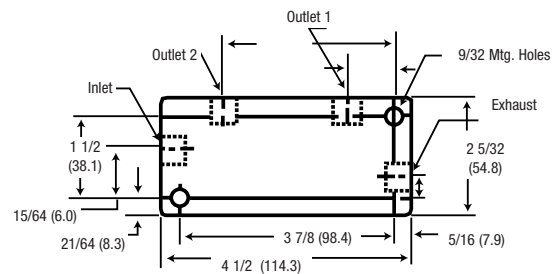
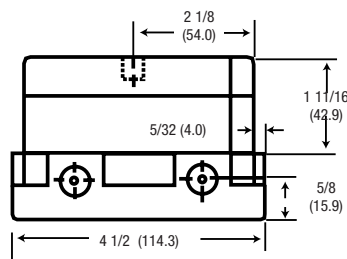
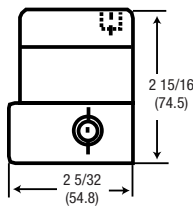


1/2" Side Port

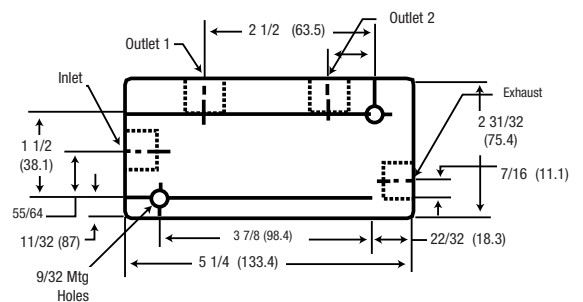
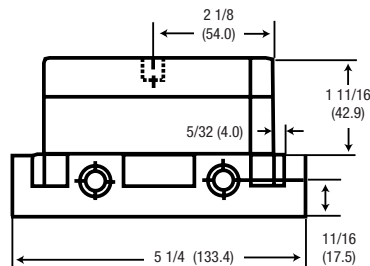
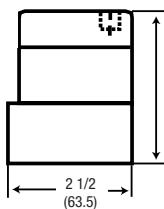


4-Way Basic Valves

1/4" and 3/8" Side Port



1/2" Side Port

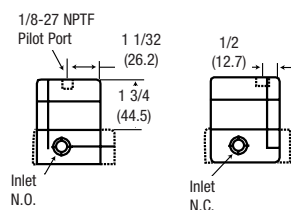


H Series

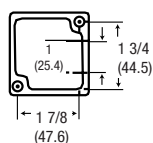
► **Dimensions** Dimensions given in Inches and (Millimeters)

Pilot Valves

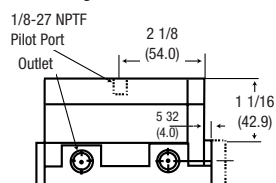
3-Way Pilot



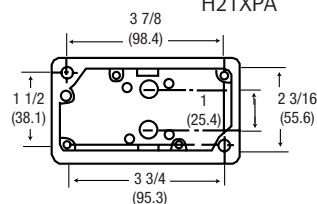
H25XPS



4-Way Pilot

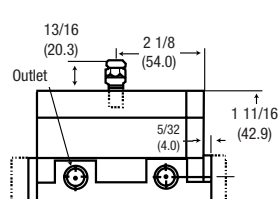


H21XPA

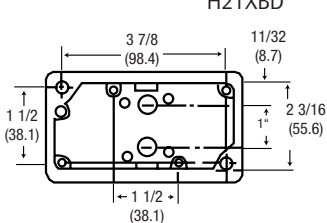


Bleed Valves

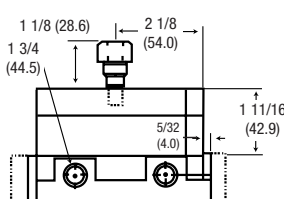
4-Way Manual Bleed



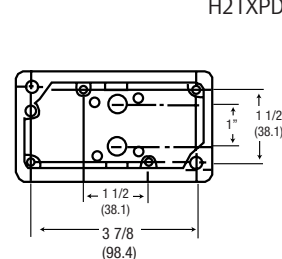
H21XBD



4-Way Pilot Bleed

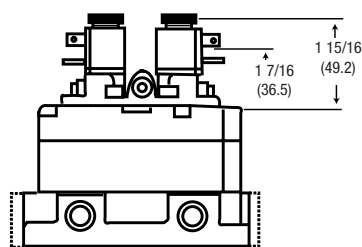


H21XPD

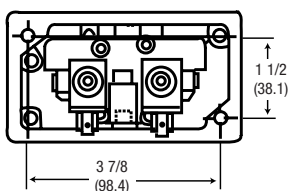


Solenoid Valves

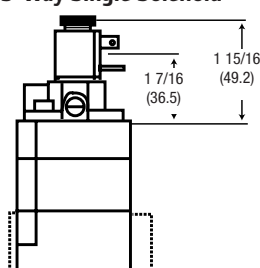
4-Way Double Solenoid



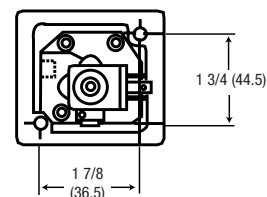
H21XSD-XXX-X



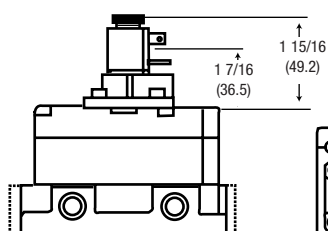
3-Way Single Solenoid



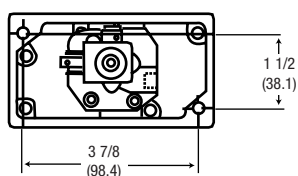
H25XSS-XXX-X



4-Way Single Solenoid



H21XSA-XXX-X



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