

# Directional Control Valves

1/4 & 3/8 NPT  
2, 3 & 4 Way

14, M14 & 34 Series

## 1/4 & 3/8 NPT PORTED, MANUAL, MECHANICAL AND PILOT OPERATED AIR VALVES – “The Finest in Simplicity” 2, 3 and 4 Way - 2 Position – Operation to 150 psi Air

**Suitable for Vacuum directional flow applications, but NOT for holding vacuum.**

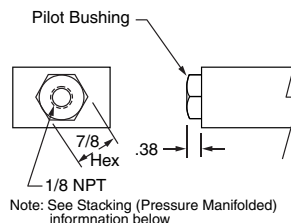
The short stroke of the lightweight Delrin® spool provides fast, positive, and reliable response.

Note 1: Specify Normally Open by substituting -30 for -3.

### Air Pilot



Brass bushing with 1/8 NPT port. Standard 3 Way spring return is normally closed. For normally open the actuators may be exchanged end for end or by specifying -30 for -3. Minimum pilot pressure:  
Standard spring . . . . . 50 psi  
Light spring (Option-L) . . . 40 psi  
Double pilot . . . . . 20 psi

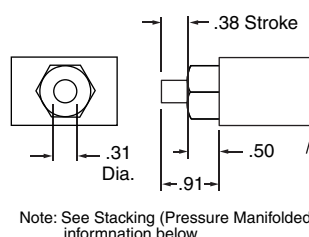


	3 Way	4 Way
Single Pilot - Spring Return		
1/4 NPT	14SP-3	14SP-4
1/4 Stacking	N/A	M14SP-4
3/8 NPT	34SP-3	34SP-4
Double Pilot		
1/4 NPT	14DP-3	14DP-4
1/4 Stacking	N/A	M14DP-4
3/8 NPT	34DP-3	34DP-4
Replacement spool & seals	1400-903	1400-904

### Rod Actuator



Stainless steel rod in brass bushing. Standard 3 Way spring return is normally closed. For normally open the actuators may be exchanged end for end or specify by substituting -30 for -3. Force to actuate:  
Standard spring . . . . . 10.5 lb.  
Light spring (Option-L) . . . 9.0 lb.  
Double rod . . . . . 1.2 lb.

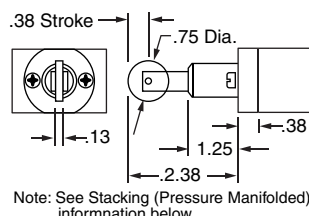


	3 Way	4 Way
Single Rod - Spring Return		
1/4 NPT	14SR-3	14SR-4
1/4 Stacking	N/A	M14SR-4
3/8 NPT	34SR-3	34SR-4
Single Rod - Pilot Return		
1/4 NPT	14SRP-3	14SRP-4
1/4 Stacking	N/A	M14SRP-4
3/8 NPT	34SRP-3	34SRP-4
Double Rod		
1/4 NPT	14DR-3	14DR-4
1/4 Stacking	N/A	M14DR-4
3/8 NPT	34DR-3	34DR-4
Replacement spool & seals	1400-903	1400-904

### Roller Cam



Case hardened steel roller and shaft in hard anodized aluminum housing. Standard 3 Way spring return is normally closed. For normally open specify by substituting -30 for -3. Force to actuate:  
Standard spring . . . . . 10.5 lb.  
Light spring (Option-L) . . . 9.0 lb.  
Cam-Pilot return . . . . . 1.2 lb.



	3 Way	4 Way
Single Cam - Spring Return		
1/4 NPT	14CR-3	14CR-4
1/4 Stacking	N/A	M14CR-4
3/8 NPT	34CR-3	34CR-4
Single Cam - Pilot Return		
1/4 NPT	14CRP-3	14CRP-4
1/4 Stacking	N/A	M14CRP-4
3/8 NPT	34CRP-3	34CRP-4
Replacement spool & seals for above	1400-913	1400-914
Double cam		
1/4 NPT	14CCR-3	14CCR-4
1/4 Stacking	N/A	M14CCR-4
3/8 NPT	34CCR-3	34CCR-4
Replacement spool & seals	1400-923	1400-924

### Stacking - Pressure Manifold



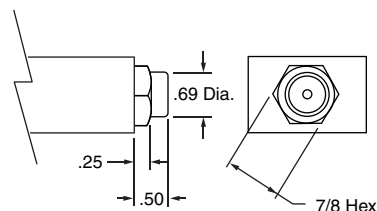
Selected models of the 14 Series 1/4" air valves can be stacked and pressure manifolded for space and money savings. The valve bodies are bolted together with 4 through tie bolts and the pressure is manifolded with O-Ring seals between the valves. Inlet pressure can be connected to either or both ends of the stack. Due to the fact that the pressure port, on all valve bodies, is tapped on both sides, the pressure manifold can be plugged at any point within the stack. This allows you to supply the stack with two different pressures, one from each end.

See Model Numbers in the Air-Pilot Rod Actuator, Roller Cam and Small Palm Button sections of Pgs 11.13 and 11.14 and Solenoid Valves on Pgs 11.19 and 11.20.

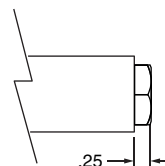
**To Order:** Specify the Quantity of each model desired, the Order in which they are to be assembled, and Brackets, if desired.

### Spring Cap Dimensions

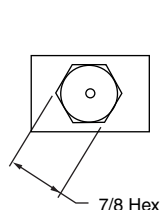
#### STANDARD SPRING



#### LIGHT SPRING



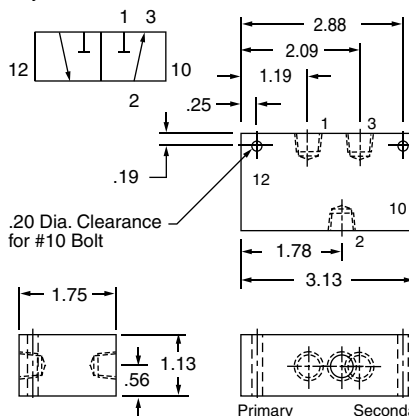
#### OPTION -L



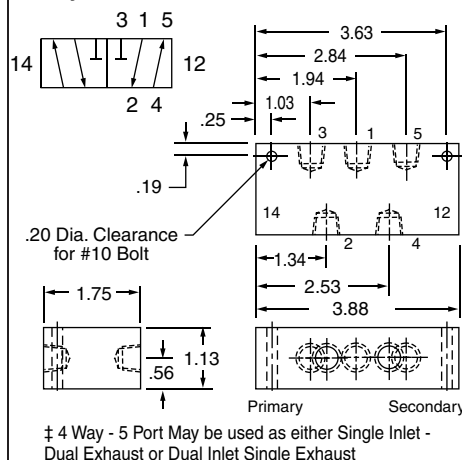
### Valve Body Dimensions

#### 2 Way / 3 Way

This 3 Way Valve may be used for any 2 Way, 3 Way, Selector or Diverter service.

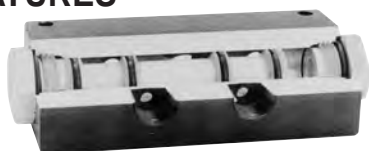


#### 4 Way - 5 Port ±



## FEATURES

- Aluminum bar body
- Anodized black
- Honed & burnished bore
- Pressure balanced spool
- Delrin spool
- Buna-N seals
- Operation to 150 psi
- 4 Way - 5 port may be used as either single inlet - dual exhaust or dual inlet - single exhaust.



- Prelubed with Magnalube®-G Grease
- Interchangeability of Parts
- Cv = 1.0
- 56.2 SCFM Free Flow to Atmosphere at 80 psi Supply
- Operating Temperature +32° to +180°F; Solenoid controlled models +150°F max. See pages 11.17, 11.19 & 11.21.

## OPTIONS

- Light spring – Specify Option -L
- Viton seals – Specify Option -V
- Spools for bleeder pilot – Consult factory.

Note 1: Specify Normally Open by substituting -30 for -3.

## OPERATING TEMPERATURE FOOTNOTE SEE PAGE 11.1

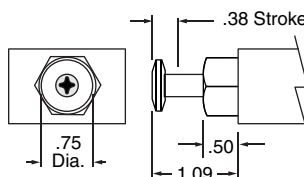
### Small Palm Button



Un-anodized aluminum button with stainless steel rod in brass bushing. Standard 3 Way spring return is normally closed. For normally open the actuators may be exchanged end for end or specify by substituting -30 for -3.

Force to actuate:

Standard spring ..... 10.5 lb.  
Light spring (Option -L) ..... 9.0 lb.  
Double Button ..... 1.2 lb.



	3 Way	4 Way
Single Button - Spring Return		
1/4 NPT	14PS-3	14PS-4
1/4 Stacking	N/A	M14PS-4
3/8 NPT	34PS-3	34PS-4
Single Button - Pilot Return		
1/4 NPT	14PSP-3	14PSP-4
1/4 Stacking	N/A	M14PSP-4
3/8 NPT	34PSP-3	34PSP-4
Double Button		
1/4 NPT	14PPS-3	14PPS-4
1/4 Stacking	N/A	M14PPS-4
3/8 NPT	34PPS-3	34PPS-4
Replacement spool & seals	1400-903	1400-904

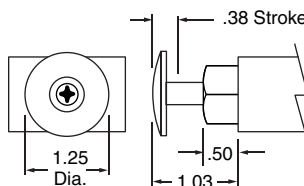
### Large Palm Button



Red anodized aluminum button with stainless steel rod in brass bushing. Standard 3 Way spring return is normally closed. For normally open the actuators may be exchanged end for end or specify by substituting -30 for -3.

Force to actuate:

Standard spring ..... 10.5 lb.  
Light spring (Option -L) ..... 9.0 lb.  
Double Button ..... 1.2 lb.



	3 Way	4 Way
Single Button - Spring Return		
1/4 NPT	14PL-3	14PL-4
3/8 NPT	34PL-3	34PL-4
Single Button - Pilot Return		
1/4 NPT	14PLP-3	14PLP-4
3/8 NPT	34PLP-3	34PLP-4
Double Button		
1/4 NPT	14PPL-3	14PPL-4
3/8 NPT	34PPL-3	34PPL-4
Replacement spool & seals	1400-903	1400-904

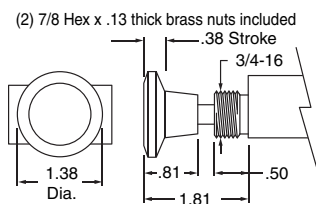
### Panel Mount Button



Phenolic button with plated steel rod in brass bushing; **black** button standard, **red** button Option -R. Standard 3 Way assemblies are normally closed with knob in the "out" position. For normally open specify by substituting -30 for -3.

Force to actuate:

Standard spring ..... 10.5 lb.  
Light spring (Option -L) ..... 9.0 lb.  
Detented ..... 3.0 lb.



	3 Way	4 Way
Spring Return		
1/4 NPT	14PMS-3	14PMS-4
3/8 NPT	34PMS-3	34PMS-4
Pilot Return		
1/4 NPT	14PMP-3	14PMP-4
3/8 NPT	34PMP-3	34PMP-4
Replacement spool & seals for above	1400-903	1400-904
Detented (Push Pull)		
1/4 NPT	14PMD-3	14PMD-4
3/8 NPT	34PMD-3	34PMD-4
Replacement spool & seals	1400-943†	1400-944†

† Includes factory assembled spool attachments.

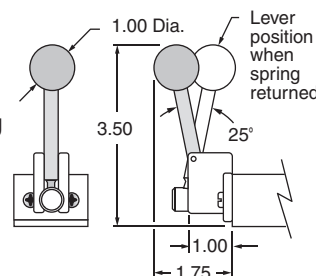
### Hand Lever



Hardened & plated steel shaft with unique connection to spool results in positive shifting. Standard 3 Way spring return is normally closed. For normally open specify by substituting -30 for -3.

Force to actuate:


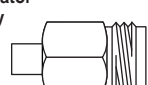

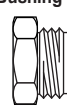
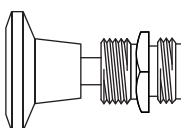
Standard spring . . . 10.0 lb.  
Light spring . . . . . 6.0 lb.  
(Option -L)  
Detented . . . . . 3.0 lb.



	3 Way	4 Way
Spring Return		
1/4 NPT	14HLS-3	14HLS-4
3/8 NPT	34HLS-3	34HLS-4
Detented		
1/4 NPT	14HL-3	14HL-4
3/8 NPT	34HL-3	34HL-4
Replacement spool & seals	1400-933†	1400-934†

† Includes factory assembled spool attachments

## MOST THREADED-IN OPERATORS ARE INTERCHANGEABLE BETWEEN ENDS

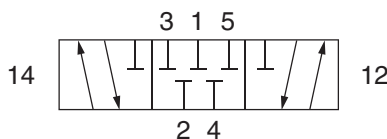
<b>Palm Button Assembly</b>  No. 1400-1 Large Button No. 1400-2 Small Button	<b>Rod Actuator Assembly</b>  No. 1400-3	<b>Spring Housing Assembly</b>  No. 1400-4 Light Spring only (for Option -L) No. 1400-5 Standard Spring only No. 1400-46 Light Spring & Housing Assembly (for Option -L). No. 1400-56 Standard Spring & Housing Assembly .	<b>Pilot Bushing</b>  No. 1400-18 1/8 NPT Port
<b>Panel Mount Button Assembly</b>  Black button standard Red button Option -R	For Detented (with Spool) No. 1400-7-3 (3 Way Normally Closed) 1400-7-30 (3 Way Normally Open) Above NOT interchangeable End for End 1400-7-4 (4 Way) For Spring or Pilot Return (No Spool) 1400-8 (3 Way N.O. or N.C., and 4 Way)		

**Fabco-Air** has the expertise and willingness to design, modify and adapt these valves to your necessary and specific job requirements. Please advise us of your needs.

## 1/4 NPT & 3/8 NPT Ported, Manual & Pilot Operated, & Solenoid Controlled Air Valves

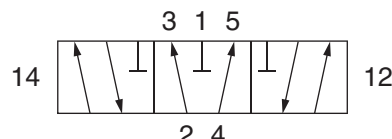
## New 5 Ported, 3-Position 4-Way Operation

## ***New Spools for 14 & 34 Series Air Valves***



**4-Way - 5 Ported - 3 Position - Type B**  
**"Blocked"**

Center position - All ports blocked and isolated. Use on conventional block and hold circuits.



**4-Way - 5 Ported - 3 Position - Type F**  
**"Float"**

Center position - Inlet blocked and  
Cylinders open to exhaust  
Used to vent both ends of cylinder to allow  
cylinder to float with a manual or machine move-  
ment. Flow controls or exhaust speed controls  
should not be used.

## 1/4 NPT & 3/8 NPT Ported, Pilot Operated Air Valves

### 5 Ported, 3-Position 4-Way Operation



Model 14-DPF Shown

## Features

- Aluminum bar body
- Anodized black
- Honed and burnished bore
- Delrin spool, pressure balanced
- Buna N seals
- May be used as either  
single inlet-dual exhaust or  
dual inlet-single exhaust
- Pre-lubed with Magnalube-G® Grease

### Operating Range

- Operating pressure.....0 to 150 psi
  - Minimum pilot pressure .....50 psi
  - Cv = 1.0 (56.2 SCFM free flow to atmosphere @ 80 psi supply)
  - Temperature .....+32° to 180°F
- For long-term, continuous operation in a range of +150°F to +180°F, the Viton seal option can provide the benefits of reliable leak-free operation and extended durability.

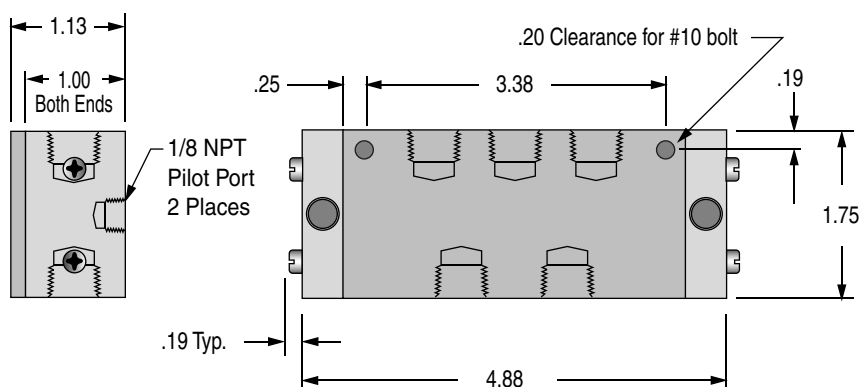
## Options

Viton Seals, Specify Option -V

### Model Number Guide: 3-Position, Pilot Operated

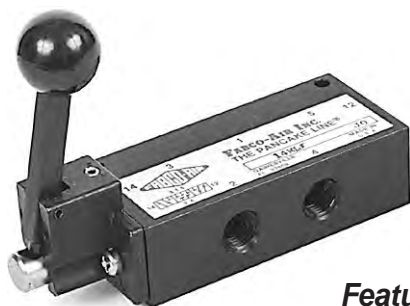
	<b>Spring Centered Spool</b>		<b>Replacement Spool and Seals</b>
Spool Type	1/4 NPT Ports	3/8 NPT Ports	
B Spool	14 DPB	34DPB	1400-904B
F Spool	14DPF	34DPF	1400-904F

### Valve Dimensions



## 1/4 NPT & 3/8 NPT Ported, Hand Lever Operated Air Valves

### 5 Ported, 3-Position 4-Way Operation



Model 14-HLF Shown

#### Features

**Hardened and plated steel shaft with unique connections results in positive shifting**

- Aluminum bar body
- Anodized black
- Honed and burnished bore
- Delrin spool, pressure balanced
- Buna N seals
- May be used as either single inlet-dual exhaust or dual inlet-single exhaust
- Pre-lubed with Magnalube-G® Grease

#### Operating Range

- Operating pressure..... 0 to 150 psi
  - Cv = 1.0 (56.2 SCFM free flow to atmosphere @ 80 psi supply)
  - Temperature .....+32° to 180°F
- Standard catalog models are suitable for operation in intermittent low temperatures in a range of 0° to + 32 °F.

A custom aluminum spool may be substituted when long-term application temperatures are expected to be -40° to +32°F. These should be limited to manual actuation, not spring centered. Consider that actuation force may exceed catalog specs and that spring return models may not be reliable at these low temperatures. Please consult factory. For long-term, continuous operation in a range of +150°F to +180°F, the Viton seal option can provide the benefits of reliable leak-free operation and extended durability.

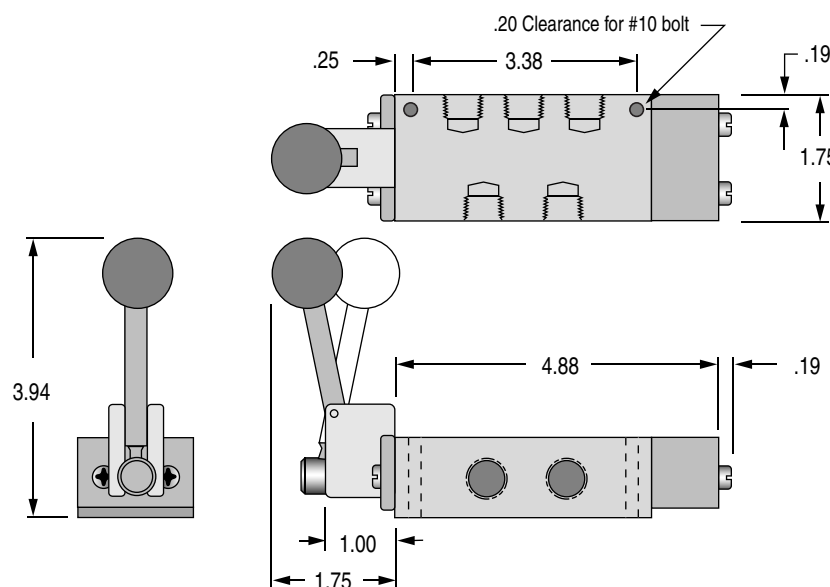
#### Options

Viton Seals, Specify Option -V

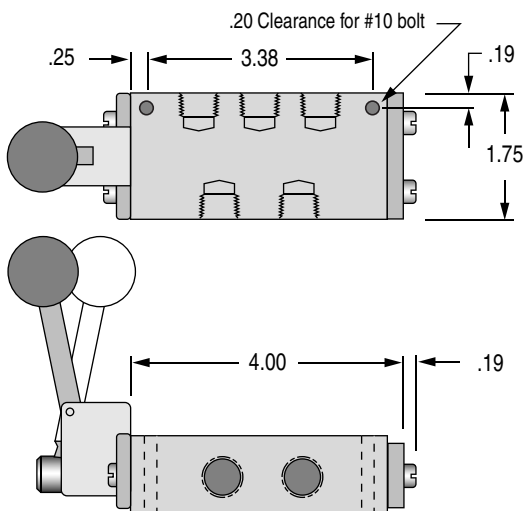
#### Model Number Guide: 3-Position, Hand Lever Operated

Spool Type	Spring Centered Spool		Replacement Spool & Seals	Detented Spool		Replacement Spool & Seals
	1/4 NPT Ports	3/8 NPT Ports		1/4 NPT Ports	3/8 NPT Ports	
B Spool	14HLSB	34HLSB	1400-934SB	14HLB	34HLB	1400-934B
F Spool	14HLSF	34HLSF	1400-934SF	14HLF	34HLF	1400-934F

#### Dimensions – Spring Centered Spool

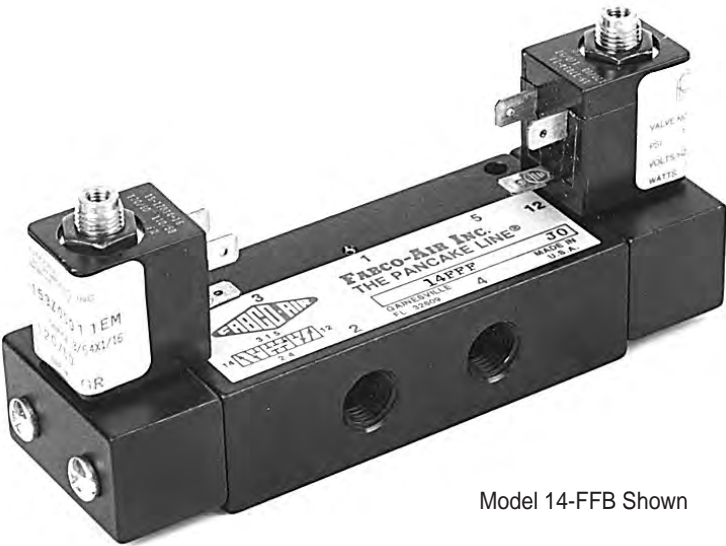


#### Dimensions – Detented Spool



1/4 NPT & 3/8 NPT Ported, 53 Style Solenoid Controlled, Pilot Operated Air Valves

5 Ported, 3-Position 4-Way Operation



Model 14-FFB Shown

Features

- Aluminum bar body
- Anodized black
- Honed and burnished bore
- Delrin spool
- Buna N seals
- Cv = 1.0 (56.2 SCFM free flow to atmosphere @ 80 psi supply)
- Operation to 150 psi
- Operating Temperature:
  - +32°F (0°C) to +104°F (40°C) ambient.
  - +32°F (0°C) to +150°F (65°C) media.
- Pre-lubed with Magnalube-G® Grease
- Coils & Housing information see page 11.29.

Operating Range

Internal pilot supply - standard  
Inlet.....50 to 150 psi

External pilot supply Option -X  
Inlet.....0 to 150 psi  
Pilot Supply .....50 to 150 psi

Ordering

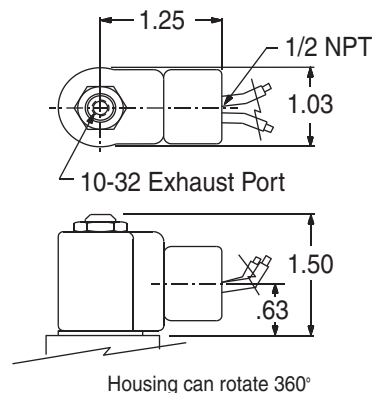
Choose valve model number from table below and add option suffixes as required and specify voltage/hertz.

Model Number Guide: 4-Way, 3-Position, Spring Centered Double Solenoid Valves

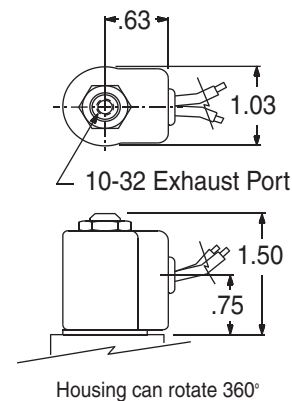
Spool Type	Conduit Housing "C"		Grommet Housing "G"		Male Mini-DIN Housing "F"		Replacement Spool & Seals
	1/4 NPT Ports	3/8 NPT Ports	1/4 NPT Ports	3/8 NPT Ports	1/4 NPT Ports	3/8 NPT Ports	
B Spool	14-CCB	34-CCB	14-GGB	34-GGB	14-FFB	34-FFB	1400-904B
F Spool	14-CCF	34-CCF	14-GGF	34-GGF	14-FFF	34-FFF	1400-904F



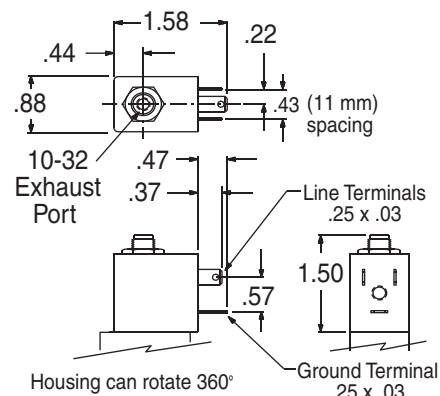
## Conduit Housing "C"



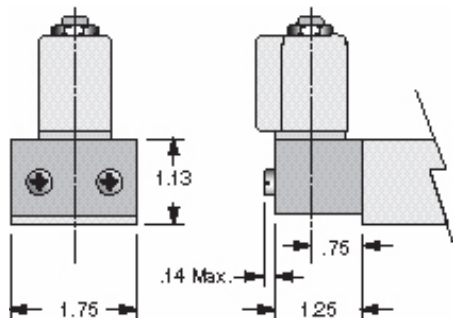
## Grommet Housing "G"



## Male Mini-DIN Housing "F"

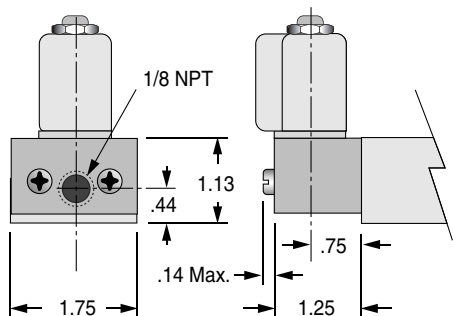


## 53 Style Solenoid Operators



### Standard 53 Style Operator

The solenoid operator is a 3-way NC valve which, upon receiving an electrical signal, directs pressure to shift the main valve spool. As standard, the operator is internally supplied with air pressure from the main valve inlet.

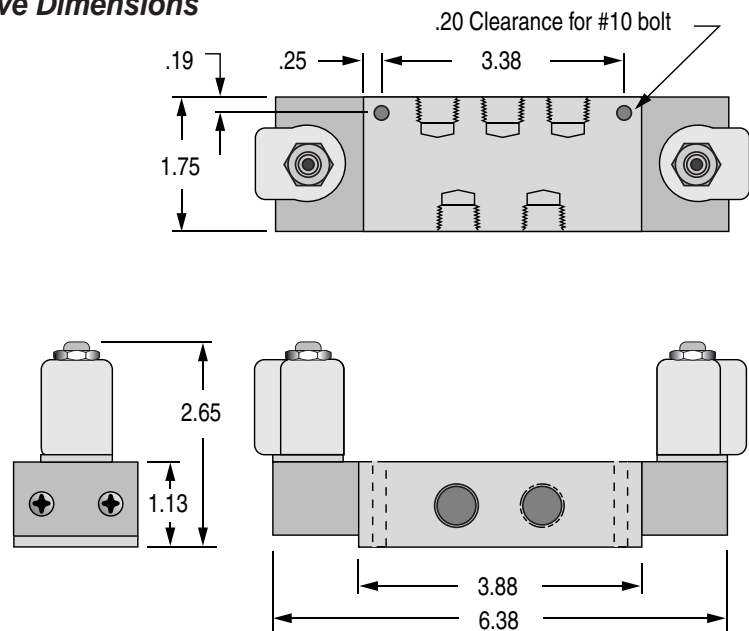


### 53 Style Operator with External Pilot Option -X

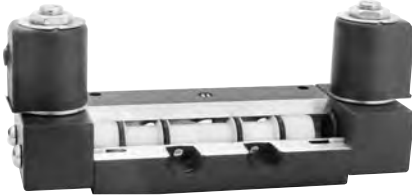
In the following listed applications, as well as many others, a proper air supply may not be available from the main valve inlet. For these applications, an external pilot supply port is available (Option -X). A proper air supply to this port then supplies the solenoid with air pressure for piloting the main valve spool.

- Dual inlet, single exhaust
- Insufficient Pressure at main valve inlet
- Media at main valve inlet is other than air
- Extreme fast cycling

## Valve Dimensions



## 1/4 & 3/8 NPT Ported 53 STYLE Solenoid Controlled, Pilot Operated Air Valves 2, 3 & 4 Way - 2 Position - Operation to 150 psi Air



### Options

Manual override  
 Locking .....-MO1  
 Non-Locking .....-MO4  
 External pilot. ....-X  
 Light spring. ....-L  
 Viton seals for media compatibility ....-V  
 Explosion proof operators. ....-EP  
 See page 11.30  
 Dual Inlet - Single Exhaust 4 Way  
 See page 11.20, Note 1: Optional Flow Path.

### Features

- Black anodized aluminum bar stock body • Honed and burnished bore
- Lightweight Delrin® spool provides fast, positive, reliable response
- Buna N seals • Operation to 150 psi
- Coils & housing information see page 11.29
- Cv = 1.0 • 56.2 SCFM free flow to atmosphere @ 80 psi
- Lubricated with Magnalube®-G grease
- Operating temperature:  
 +32°F (0°C) to +104°F (40°C) ambient.  
 +32°F (0°C) to +150°F (65°C) media.

Standard catalog models are suitable for operation in intermittent low temperatures in a range of 0° to + 32 °F.

A custom aluminum spool may be substituted when long-term application temperatures are expected to be 0° to +32°F. These should be limited to double solenoid actuation. Consider that actuation force may exceed catalog specs and that spring return models may not be reliable at these low temperatures. Please consult factory.

### SINGLE SOLENOID

‡Plug 3-Way Valve  
for 2-Way Service.

To Order Specify: Model Number from chart  
 Options  
 Volts & Hertz (See page 11.29)



### Operating Range

Internal Pilot Supply (Standard)  
 Standard Spring ..... 50 to 150 psi  
 Light Spring, Option -L ... 40 to 150 psi  
 Pilot Return (0 psi Pilot) .. 30 to 150 psi  
 External Pilot Supply, Option -X  
 Inlet Pressure ..... 0 to 150 psi  
 External Pilot Supply, Option -X  
 Standard Spring ..... 50 to 150 psi  
 Light Spring, Option -L ... 40 to 150 psi  
 Pilot Return (0 psi Pilot) .. 30 to 150 psi

	1/4 NPT PORTS				3/8 NPT PORTS		
	‡2 / 3 WAY Normally Closed	Normally Open	4 WAY	4 WAY Stacking See pg 11.20	‡2 / 3WAY Normally Closed	Normally Open	4 WAY
Conduit Housing	14CS-3	14CS-30	14CS-4	M14CS-4	34CS-3	34CS-30	34CS-4
Grommet Housing	14GS-3	14GS-30	14GS-4	M14GS-4	34GS-3	34GS-30	34GS-4
Male Mini-DIN Housing	14FS-3	14FS-30	14FS-4	M14FS-4	34FS-3	34FS-30	34FS-4
Replacement Spool & Seals	1400-913	1400-9130	1400-914	1400-904	1400-913	1400-9130	1400-914

### SINGLE SOLENOID - PILOT RETURN MODELS

A pilot return can be substituted for the standard spring return.

It may be used in two manners.

1. For a pulse signal, then pilot return.
2. As a constant, adjustable force, spring.

Supply pilot port with a constant regulated pressure. This will act as a very constant spring against the solenoid controlled pilot signal. The pilot return should be a minimum of 30 psi below the solenoid controlled pressure.

To Specify, Substitute **P** for **S** in the Model Number. (Ex: 14CP-3-120/60)

### DOUBLE SOLENOID

To Order Specify: Model Number from chart  
 Options  
 Volts & Hertz (See page 11.29)

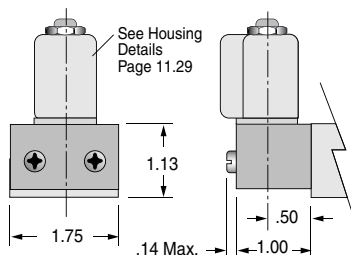
‡Plug 3-Way Valve  
for 2-Way Service.



### Operating Range

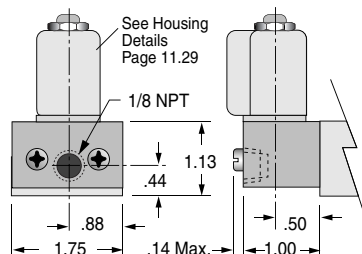
Internal Pilot Supply (Standard)  
 Inlet ..... 30 to 150 psi  
 External Pilot Supply, Option -X  
 Inlet Pressure ..... 0 to 150 psi  
 Pilot Supply ..... 30 to 150 psi

	1/4 NPT PORTS			3/8 NPT PORTS	
	‡2 / 3 WAY	4 WAY	4 WAY Stacking See pg 11.20	‡2 / 3 WAY	4 WAY
Conduit Housing	14CC-3	14CC-4	M14CC-4	34CC-3	34CC-4
Grommet Housing	14GG-3	14GG-4	M14GG-4	34GG-3	34GG-4
Male Mini-DIN Housing	14FF-3	14FF-4	M14FF-4	34FF-3	34FF-4
Replacement Spool & Seals	1400-923	1400-924	1400-904	1400-923	1400-924



## Standard 53 STYLE Solenoid Operator

The solenoid operator is a 3-way NC valve which, upon receiving an electrical signal, directs a pilot pressure to shift the main valve spool. As standard, the operator is internally supplied with air pressure from the main valve inlet. Also see "External Pilot Supply" below.

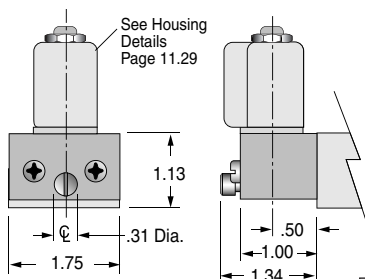


## 53 STYLE Solenoid Operator with External Pilot Supply

### Option -X

In the following listed applications, as well as many others, a proper air supply may not be available from the main valve inlet. For these applications, an external pilot supply port is available (Option -X). A proper air supply to this port then supplies the solenoid with air pressure for piloting the main valve spool.

- Dual Inlet - Single Exhaust 4 Way.
- Insufficient pressure at main valve inlet.
- Media, at main valve inlet, other than air.
- Extremely fast cycling.



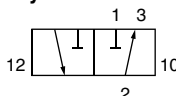
## 53 STYLE Solenoid Operator with Manual Override

This manual override is a 3-way NC valve that when pushed, directs pilot pressure to shift the main spool. Pressure must be present at main valve inlet for this override to function.

TYPE	SUFFIX
LOCKING Push to override; Turn to lock in; Turn back to release.	-MO1
NON-LOCKING Push to override.	-MO4

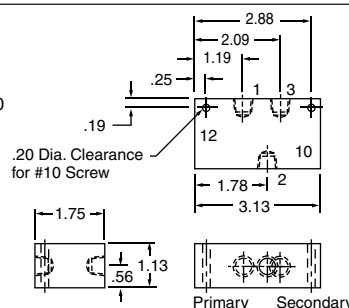
Option -X  
is NOT combinable  
with either Option  
-MO1 or -MO4

## 3 Way



## 2 Way Function

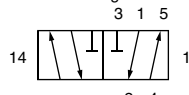
This 3 Way Valve may be used for any 2 Way, 3 Way, Selector or Diverter service.



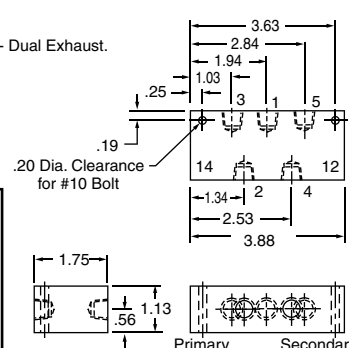
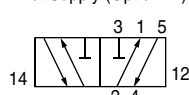
Spring Return Valves	End	Operator
Normally Closed	10	Spring
	12	Solenoid
Normally Open	10	Solenoid
	12	Spring

## 4 Way - 5 Port

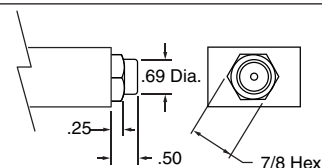
Standard: Single Inlet - Port #1 - Dual Exhaust.



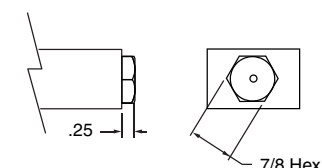
**Note 1: Optional Flow Path:**  
Dual Inlet - Ports #3 & #5 -  
Single Exhaust. Use External  
Pilot Supply (Option -X).



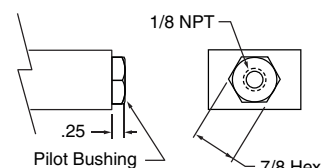
## Standard Spring Return



## Light Spring Return Option -L



## Pilot Return Option -P 1/8 NPT Port See Page 11.13

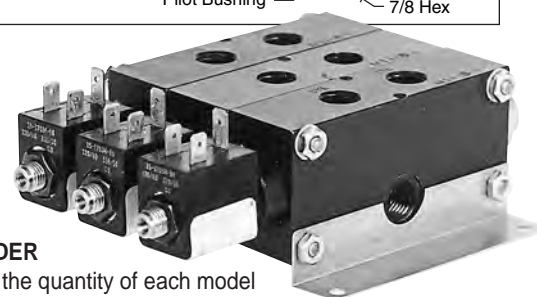


## STACKING - PRESSURE MANIFOLDED

Versions of these 1400 Series 1/4 NPT solenoid valves with different adaptor blocks can be stacked and pressure manifolded for space and money savings. The valve bodies are bolted together with 4 through tie bolts and the pressure is manifolded with O-Ring seals between valves. Inlet pressure can be connected to either or both ends of the stack. Due to the fact that the pressure port, on all valve bodies, is tapped on both sides, the pressure manifold can be plugged at any point within the stack. This allows you to supply the stack with two different pressures, one from each end. Versions of the Air Pilot, Rod Actuator, Roller Cam and Small Palm Button valves may be mounted in the same stack along with these solenoid valves.

## TO ORDER

Specify the quantity of each model desired, the order in which they are to be assembled, and Brackets, if desired.





1/4 & 3/8 NPT Ported 58 STYLE Solenoid Controlled, Pilot Operated Air Valves  
2, 3 & 4 Way - 2 Position



Features

- Black anodized aluminum bar stock body
- Honed and burnished bore
- Lightweight Delrin® spool provides fast, positive, reliable response
- Simplicity • Reliability
- Corrosion resistant construction
- Buna N seals • Operation to 150 psi
- Solenoid operator information see page 11.31
- Cv = 1.0
- 56.2 SCFM Free flow to atmosphere @ 80 psi
- Prelubed with Magnalube® -G grease
- Operating temperature:
  - +32°F (0°C) to +122°F (50°C) ambient.
  - +32°F (0°C) to +122°F (50°C) media.



Standard catalog models are suitable for operation in intermittent low temperatures in a range of 0° to + 32 °F.

A custom aluminum spool may be substituted when long-term application temperatures are expected to be 0° to +32°F. These should be limited to double solenoid actuation. Consider that actuation force may exceed catalog specs and that spring return models may not be reliable at these low temperatures. Please consult factory.

Options

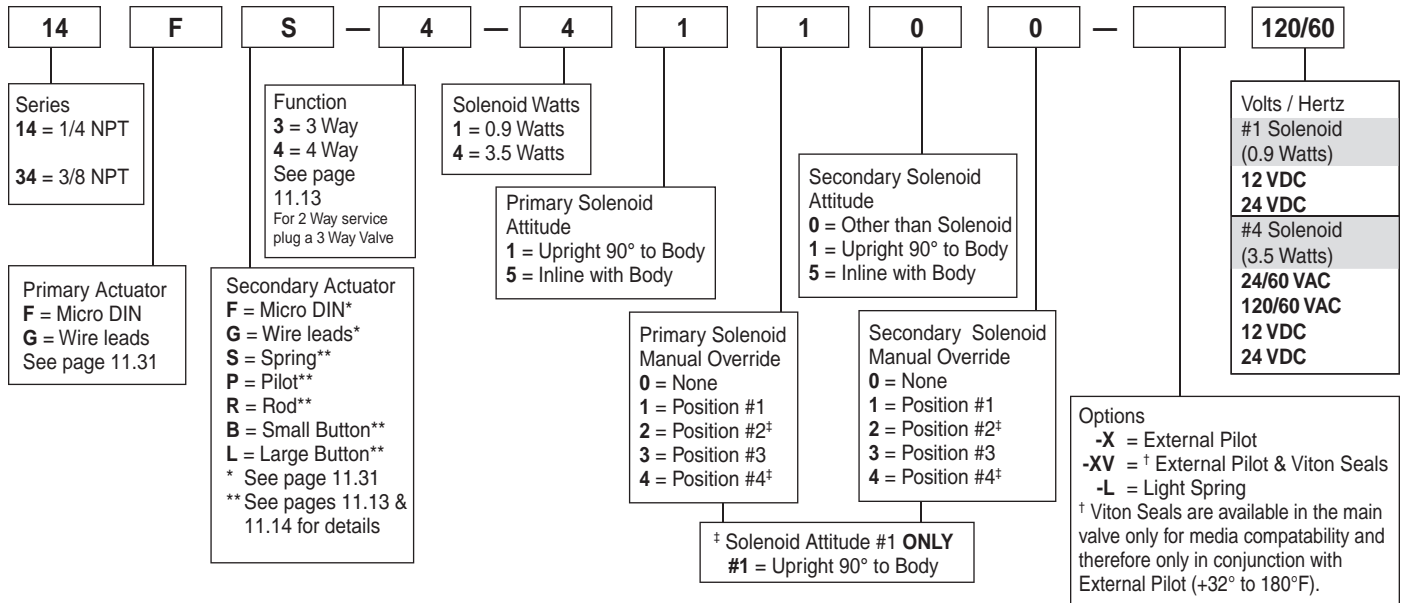
- External Pilot .....-X
- † External Pilot and Viton Seals ..... -XV
- Light Spring .....-L

† Viton Seals are available in the main valve only, for media compatibility, and therefore only in conjunction with External Pilot: +32°F (0°C) to +122°F (50°C).

Operating Ranges, psi

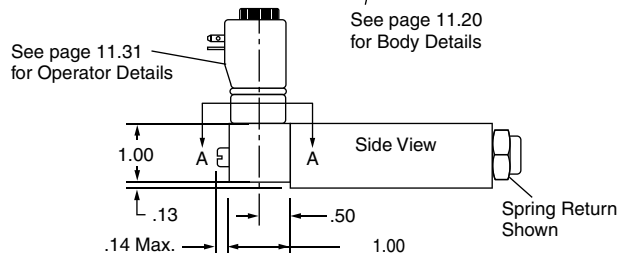
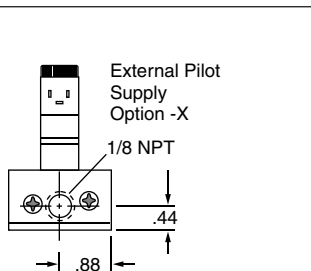
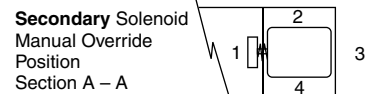
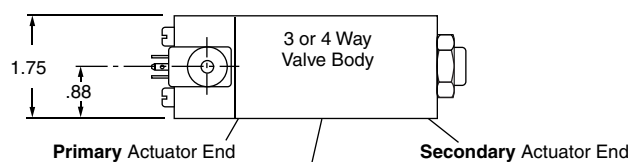
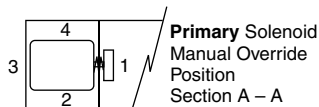
	#1 Solenoid 0.9 Watts	#4 Solenoid 3.5 Watts
Internal pilot supply (standard) inlet pressure		
Non Spring Return .....	30 to 130.....	30 to 145
Spring Return .....	50 to 130.....	50 to 145
Light Spring Option -L .....	40 to 130.....	40 to 145
External pilot supply, Option -X <u>inlet pressure</u> . . . .		
0 to 150.....0 to 150		
External pilot supply, Option -X <u>pilot supply</u>		
Non Spring Return .....	30 to 130.....	30 to 145
Spring Return .....	50 to 130.....	50 to 145
Light Spring Option -L .....	40 to 130.....	40 to 145

## 58 STYLE Solenoid Valve, Model Number Code



**Example: 14FS-4-41100-120/60**

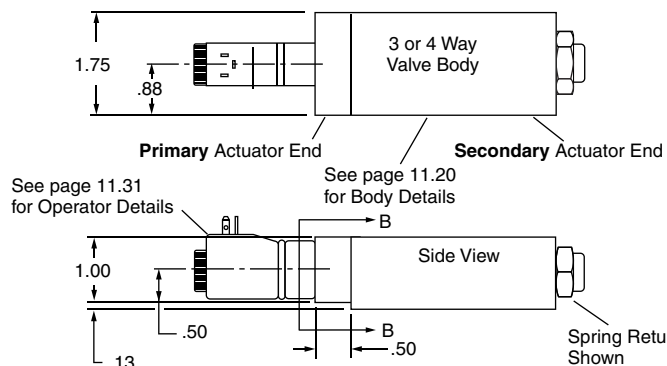
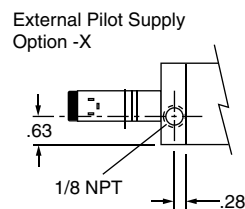
1/4 NPT – Primary Actuator Solenoid with Micro DIN coil; Secondary Actuator, Spring Return – 4 Way Function 3.5 Watt Solenoid; Primary Solenoid Upright position with Manual Override in Position #1; Secondary Actuator is not a Solenoid; no Manual Override on Secondary Actuator – No Options – 120 Volt/60 Hertz.



**Upright**  
Solenoid Attitude #1

(Solenoid centerline 90° to Valve Body centerline)

11



**Inline**  
Solenoid Attitude #5

(Solenoid centerline inline with Valve Body centerline)

