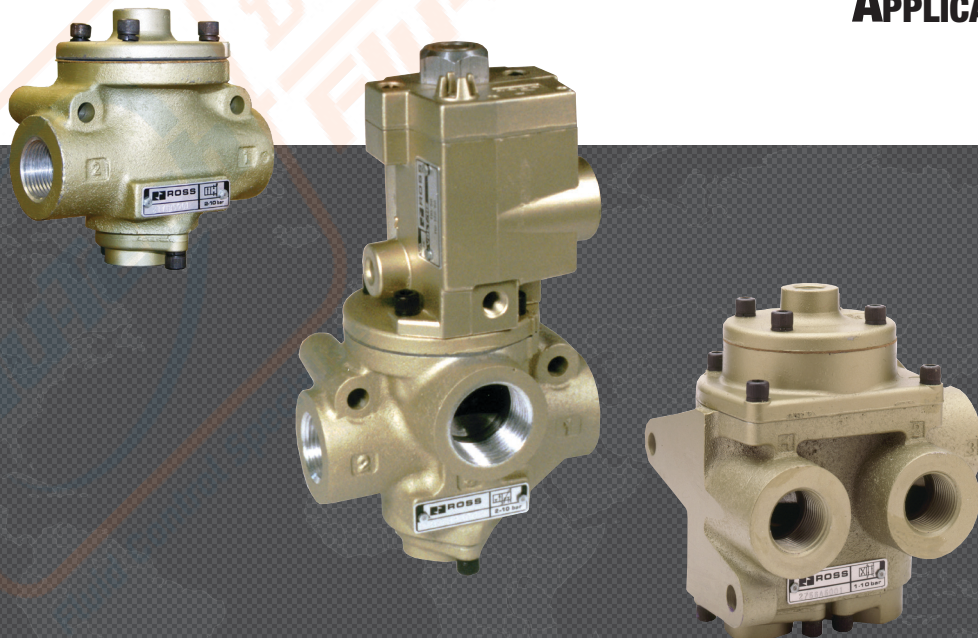




บริษัท ฟลูเทค จำกัด
Flu-tech co.,ltd
Authorized Distributor

DIRECTIONAL CONTROL HEADLINE VALVES 21 SERIES

PRODUCT CATALOG HIGH TEMPERATURE AND LOW TEMPERATURE APPLICATIONS



บริษัท ฟลูเทค จำกัด
FLU - TECH CO., TD

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845/3-4 Thepaharak RD., T. Thepharak, A. Muang, Samutprakan 10270 THAILAND
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Headline Poppet Valves 21 Series

Product Overview

High Temperature and Low Temperature Applications

Directional Control Function

Directional control valves function is to control the direction of flow in the pneumatic circuit. Directional control valves are able to control the way the air passes. These valves can regulate the airflow being capable to stop fluid flow, allow fluid flow, and change the direction of fluid flow. These three functions usually operate in combination.

Solenoid Pilot Controlled	Pressure Controlled
	

Illustration examples.

VALVE FEATURES

Poppet Design

Poppet construction for high dirt tolerance
Valves are designed with metal internals and special seals appropriate for use in more extreme temperatures

Mounting Options

Can be mounted close to actuator, reducing length of pipe to be pressurized/exhausted on each cycle

Pilot Supply

Internal or external; easily field-convertible for use with an external pilot supply

High Velocity

Near zero leakage

Positive Sealing

No sliding action to prevent damage and wear

Reliability

Consistent response times over the life of the valve

Valve models for external pilot supply available, consult ROSS.

Explosion-Proof solenoid pilot valves available, see valves for Hazardous Locations.

For ATEX certified valves order placement, consult ROSS.



Actuation	Available Inlet Port Sizes									Functions			Maximum Flow C _v	Page
	1/4	3/8	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	2/2	3/2	4/2		
Solenoid Pilot Controlled	●	●	●	●	●	●	●	●	●	●	●		40	3 – 9
Pressure Controlled	●	●	●	●	●	●	●			●	●	●	40	10 – 15
Accessories and Options														16

STANDARD SPECIFICATIONS

GENERAL	Function		2/2, 3/2, and 4/2 Valve
	Construction Design		Poppet
	Actuation		Electrical – Solenoid Pilot Controlled Pneumatic – Pressure Controlled
	Mounting	Type	Inline
		Orientation	Any, preferably vertical
	Connection		Threaded; G, NPT
	Manual Override		Non-locking metal button, standard
Minimum Operation Frequency		Once per month, to ensure proper function	

OPERATING CONDITIONS	Temperature	Solenoid Pilot Controlled	High Temperature	Ambient	0° to 250°F (-17° to 122°C)
				Media	0° to 300°F (-17° to 150°C)
			Low Temperature	Ambient	-40° to 120°F (-40° to 50°C)
				Media	-40° to 175°F (-40° to 80°C)
				For temperatures below 40°F (4°C) air must be free of water vapor to prevent formation of ice.	
		Pressure Controlled	High Temperature	Ambient	0° to 300°F (-17° to 150°C)
				Media	0° to 300°F (-17° to 150°C)
			Low Temperature	Ambient	-40° to 175°F (-40° to 80°C)
				Media	-40° to 175°F (-40° to 80°C)
	For temperatures below 40°F (4°C) air must be free of water vapor to prevent formation of ice.				
	Flow Media		Filtered air		
	Operating Pressure		30 to 150 psig (2 to 10 bar)		
	External Pilot Supply		Must be equal to or greater than inlet pressure		

ELECTRICAL DATA FOR SOLENOID PILOT	Solenoids		Rated for continuous duty		
	Operating Voltage (each solenoid)		24 volts DC 110-120 volts AC, 50/60 Hz 230-240 volts AC, 60 Hz		
	Power Consumption		24 V DC – 14 watts 110-120 V AC – 87 VA inrush, 30 VA holding 230-240 V AC – 87 VA inrush, 30 VA holding		

CONSTRUCTION MATERIAL	Valve Body		Cast Aluminum		
	Poppet		Aluminum and Stainless Steel		
	Seals	High Temperature	Fluorocarbon		
		Low Temperature	Buna-N		

SAFETY DATA	Safety Integrity Level (SIL)		Certified by TÜV Rheinland in accordance to IEC 61508 and IEC 61511 safety integrity level 2 (SIL 2) and EN ISO 13849-1, PL c (with application specific diagnosis) in singular application with HFT = 0 and SIL 3 and PL e in redundant application with HFT≥1, for details see certificate.		
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IMPORTANT NOTE: Please read carefully and thoroughly all of the CAUTIONS, WARNINGS on the inside back cover.

PRODUCT CREDENTIALS

SIL Safety Integrity Level	CE Conformity Declaration	EAC Conformity Declaration	CSA Certificate of Compliance	CRN Certification
				Available for appropriately tested valves

Ordering Information

2/2 Solenoid Pilot Controlled Valves

MODEL NUMBER CONFIGURATOR

2-Way 2-Position Valves

Thread	Series	Actuation	Revision Level	Size	Application	Voltage*
G D	21	Solenoid Controlled	B	200	High Temperature 0° to 250°F (-17° to 122°C) 1	24 volts DC W
NPT Leave Blank	7				Low Temperature -40° to 120°F (-40° to 50°C) 2	110-120 volts AC, 50/60 Hz Z
						230-240 volts AC, 60 Hz Y
						* For other voltages consult ROSS.

Valve Function	
2/2	Normally Closed 1
	Normally Open 2

Size			
Body	Port 1	Port 2	
3/8	1/4	1/4	200
	3/8	3/8	300
	1/2	1/2	401
3/4	1/2	1/2	400
	3/4	3/4	500
	1	1	601
1-1/4	1	1	600
	1-1/4	1-1/4	700
	1-1/2	1-1/2	801

Size			Flow C _v		Average Response Constants*			Weight lb (kg)
Body	Port 1	Port 2	Normally Closed	Normally Open	M	F		
			1-2	1-2		Normally Closed	Normally Open	
3/8	1/4	1/4	2.3	2.3	10	0.96	0.96	3.0 (1.4)
	3/8	3/8	3.8	3.3	10	0.90	0.93	
	1/2	1/2	4.0	3.5	10	0.82	0.88	
3/4	1/2	1/2	7.7	6.5	14	0.39	0.50	3.3 (1.5)
	3/4	3/4	9.0	7.3	14	0.32	0.37	
	1	1	9.0	7.9	14	0.31	0.36	
1-1/4	1	1	24	21	26	0.19	0.20	7.5 (3.4)
	1-1/4	1-1/4	29	20	26	0.14	0.18	
	1-1/2	1-1/2	29	21	26	0.13	0.17	

Valve Response Time – Response Time (msec) = M + (F • V). This is the average time required to fill a volume V (cubic inches) to 90% of supply pressure or to exhaust it to 10% of supply pressure. M and F values are shown above.

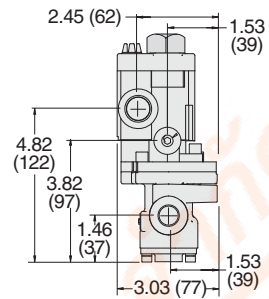
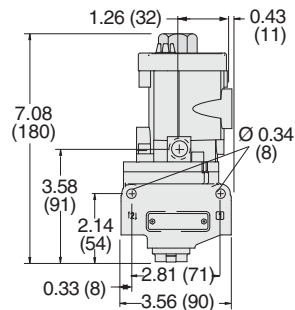
Valve Schematic		Valve Diagrams	
Normally Closed	Normally Open	1/2 Solenoid Pilot Y-3 1/8" Pilot Exhaust Port	1/2 Electrical Conduit Port X-1 1/8" External Pilot Supply

2/2 Solenoid Pilot Controlled Valves

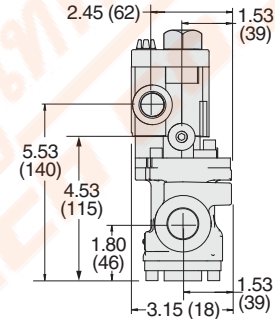
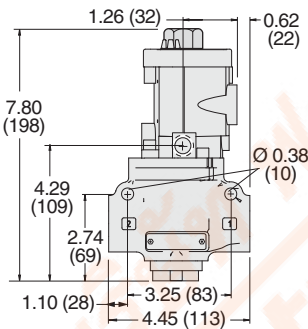
DIMENSIONS

Inches (mm)

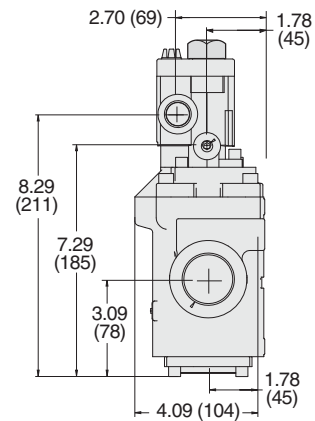
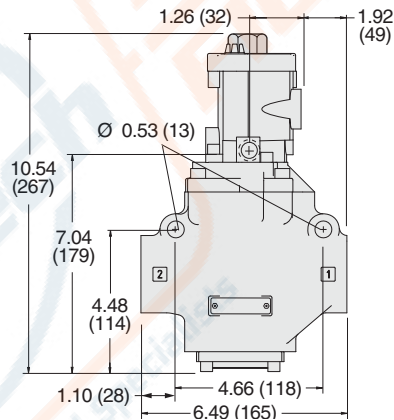
Body Size 3/8



Body Size 3/4



Body Size 1-1/4



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Ordering Information

3/2 Solenoid Pilot Controlled Valves

MODEL NUMBER CONFIGURATOR 3-Way 2-Position Valves

MODEL NUMBER CONFIGURATOR 3-Way 2-Position Valves

Thread	Series	Actuation	Valve Function	Size	Application																																												
G D	21	Solenoid Controlled	3/2 Normally Closed 3 Normally Open 4	<table border="1"> <thead> <tr> <th>Body</th> <th>Port 1</th> <th>Port 2</th> <th></th> </tr> </thead> <tbody> <tr> <td rowspan="3">3/8</td> <td>1/4</td> <td>1/4</td> <td>200</td> </tr> <tr> <td>3/8</td> <td>3/8</td> <td>300</td> </tr> <tr> <td>1/2</td> <td>1/2</td> <td>401</td> </tr> <tr> <td rowspan="3">3/4</td> <td>1/2</td> <td>1/2</td> <td>400</td> </tr> <tr> <td>3/4</td> <td>3/4</td> <td>500</td> </tr> <tr> <td>1</td> <td>1</td> <td>601</td> </tr> <tr> <td rowspan="3">1-1/4</td> <td>1</td> <td>1</td> <td>600</td> </tr> <tr> <td>1-1/4</td> <td>1-1/4</td> <td>700</td> </tr> <tr> <td>1-1/2</td> <td>1-1/2</td> <td>801</td> </tr> </tbody> </table>	Body	Port 1	Port 2		3/8	1/4	1/4	200	3/8	3/8	300	1/2	1/2	401	3/4	1/2	1/2	400	3/4	3/4	500	1	1	601	1-1/4	1	1	600	1-1/4	1-1/4	700	1-1/2	1-1/2	801	<table border="1"> <tr> <td>Voltage*</td> <td></td> </tr> <tr> <td>24 volts DC</td> <td>W</td> </tr> <tr> <td>110-120 volts AC, 50/60 Hz</td> <td>Z</td> </tr> <tr> <td>230-240 volts AC, 60 Hz</td> <td>Y</td> </tr> <tr> <td colspan="2"><i>* For other voltages consult ROSS.</i></td> </tr> </table>	Voltage*		24 volts DC	W	110-120 volts AC, 50/60 Hz	Z	230-240 volts AC, 60 Hz	Y	<i>* For other voltages consult ROSS.</i>	
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NPT Leave Blank	7																																																
	3																																																
	B																																																
	200																																																
	1																																																
	W																																																

Size				Flow C _v				Average Response Constants*					Weight lb (kg)
Body	Port 1	Port 2	Port 3	Normally Closed		Normally Open		M	F				
									Normally Closed		Normally Open		
				1-2	2-3	1-2	2-3		1-2	2-3	1-2	2-3	
3/8	1/4	1/4	1/2	2.4	3.4	2.0	2.1	10	1.76	2.08	1.60	2.30	3.0 (1.4)
	3/8	3/8	1/2	3.0	5.8	2.3	2.4	10	0.95	1.07	1.03	1.60	
	1/2	1/2	1/2	3.0	5.2	2.9	2.8	10	0.94	0.98	11.00	2.00	
3/4	1/2	1/2	1	6.6	12	6.5	7.0	11	0.58	0.64	0.50	0.70	3.3 (1.5)
	3/4	3/4	1	7.8	13	7.5	7.5	11	0.38	0.41	0.43	0.67	
	1	1	1	7.5	12	7.7	7.6	11	0.24	0.36	0.42	0.60	
1-1/4	1	1	1-1/2	24	40	15	17	28	0.16	0.18	0.17	0.20	7.5 (3.4)
	1-1/4	1-1/4	1-1/2	29	39	21	23	28	0.12	0.17	0.15	0.19	
	1-1/2	1-1/2	1-1/2	30	38	22	23	28	0.12	0.16	0.13	0.18	

Valve Response Time – Response Time (msec) = $M + (F \bullet V)$. This is the average time required to fill a volume V (cubic inches) to 90% of supply pressure or to exhaust it to 10% of supply pressure. M and F values are shown above.

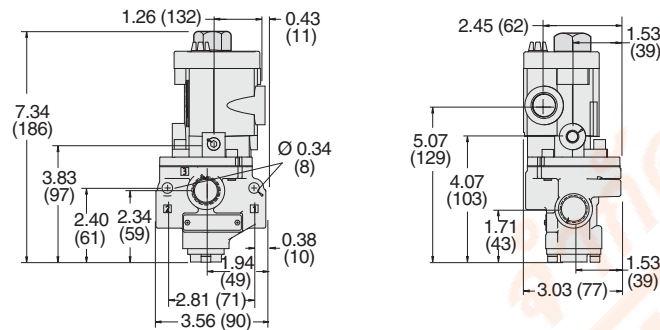
Valve Schematic		Valve Assembly	
Normally Closed	Normally Open		

3/2 Solenoid Pilot Controlled Valves

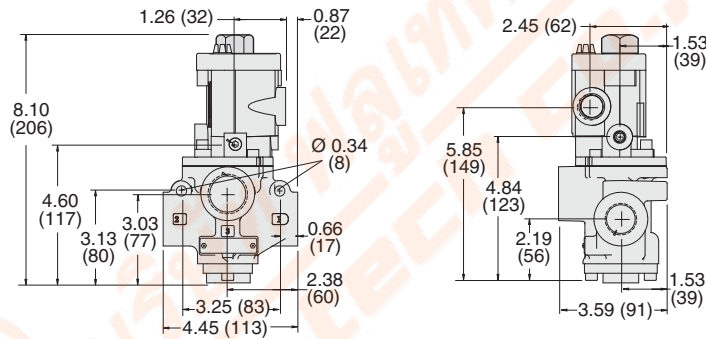
DIMENSIONS

Inches (mm)

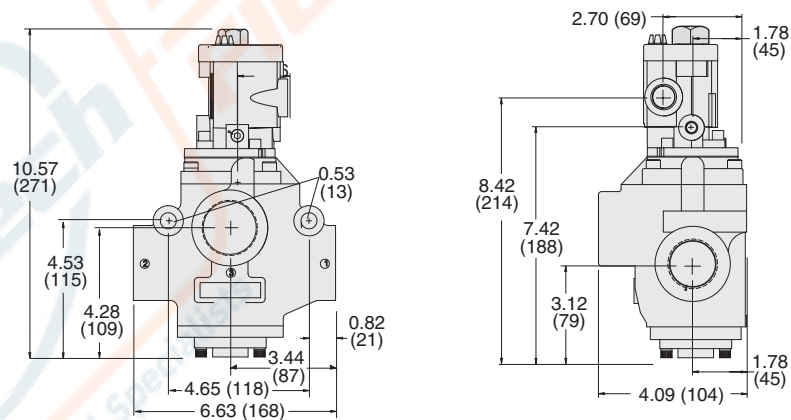
Body Size 3/8



Body Size 3/4



Body Size 1-1/4



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Ordering Information

4/2 Solenoid Pilot Controlled Valves

MODEL NUMBER CONFIGURATOR

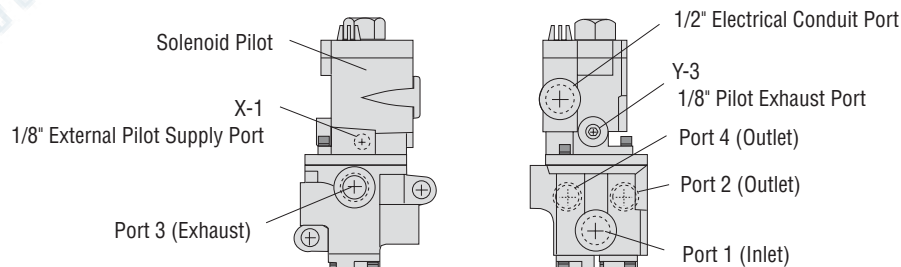
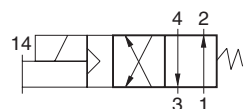
4-Way 2-Position Valves

The diagram illustrates the relationship between various product specifications and their corresponding code characters. The specifications are grouped into boxes, and lines connect them to the code characters in the code string: **G D NPT 21 6 B 200 1 W W Z Y 1 2**.

- Thread** (G, D, NPT) connects to **D** and **NPT**.
- Series** (21) connects to **21**.
- Actuation** (Solenoid Controlled) connects to **6**.
- Valve Function** (4/2) connects to **6**.
- Size** (Body, Port 1, Port 2) connects to **200**.
- Revision Level** (B) connects to **B**.
- Voltage*** (24 volts DC, 110-120 volts AC, 50/60 Hz, 230-240 volts AC, 60 Hz) connects to **W**.
- Application** (High Temperature, Low Temperature) connects to **1** and **2**.

Size				Flow C _v		Average Response Constants*			Weight lb (kg)
Body	Port 1	Port 2, 4	Port 3	1-2, 1-4	4-3, 2-3	M	F		
							1-2, 1-4	4-3, 2-3	
3/8	1/4	1/4	1/2	2.1	2.2	30	1.70	2.28	3.0 (1.4)
	3/8	3/8	1/2	2.5	3.1	30	1.13	1.33	
	1/2	1/2	1/2	2.9	3.8	30	1.00	1.22	
3/4	1/2	1/2	1	5.7	6.5	46	0.50	0.76	5.8 (2.6)
	3/4	3/4	1	7.1	8.7	46	0.36	0.55	
	1	1	1	7.7	10	46	0.36	0.50	
1-1/4	1	1	1-1/2	18	23	99	0.19	0.22	12.0 (5.4)
	1-1/4	1-1/4	1-1/2	20	28	99	0.19	0.22	
	1-1/2	1-1/2	1-1/2	21	29	99	0.16	0.22	

Valve Response Time – Response Time (msec) = $M + (F \cdot V)$. This is the average time required to fill a volume V (cubic inches) to 90% of supply pressure or to exhaust it to 10% of supply pressure. M and F values are shown above.

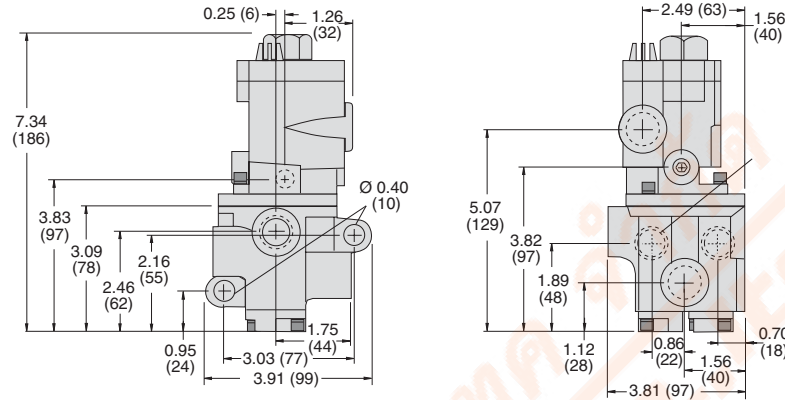


4/2 Solenoid Pilot Controlled Valves

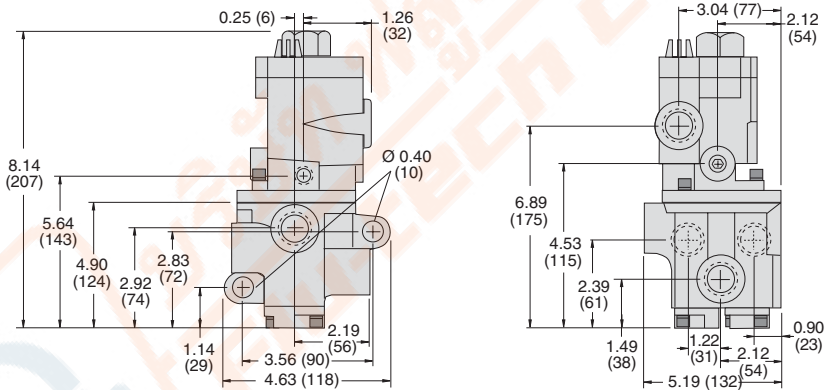
DIMENSIONS – 4/2 VALVES

Inches (mm)

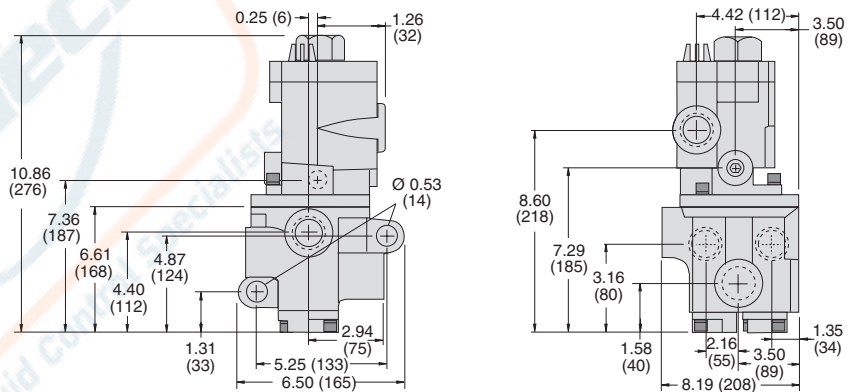
Body Size 3/8



Body Size 3/4



Body Size 1-1/4



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Ordering Information

2/2 Pressure Controlled Valves

MODEL NUMBER CONFIGURATOR

2-Way 2-Position Valves

Thread

G D

NPT Leave Blank

Series

21

5

1

B

200

1

Revision Level

Application

High Temperature
0° to 300°F (-17° to 150°C) 1

Low Temperature
-40° to 175°F (-40° to 80°C) 2

Actuation

Solenoid Controlled

Valve Function

2/2

Normally Closed 1

Normally Open 2

Size

Body	Port 1	Port 2	
3/8	1/4	1/4	200
	3/8	3/8	300
	1/2	1/2	401
3/4	1/2	1/2	400
	3/4	3/4	500
	1	1	601
1-1/4	1	1	600
	1-1/4	1-1/4	700
	1-1/2	1-1/2	801

Size			Flow C _v		Average Response Constants*			Weight lb (kg)
Body	Port 1	Port 2	Normally Closed	Normally Open	M	F		
			1-2	1-2		Normally Closed	Normally Open	
3/8	1/4	1/4	2.3	2.3	10	0.91	0.91	1.8 (0.8)
	3/8	3/8	3.8	3.3	10	0.70	0.76	1.8 (0.8)
	1/2	1/2	4.0	3.5	10	0.64	0.72	1.8 (0.8)
3/4	1/2	1/2	7.7	6.5	16	0.37	0.43	4.2 (2.0)
	3/4	3/4	9.0	7.3	16	0.34	0.39	4.2 (2.0)
	1	1	9.0	7.9	16	0.34	0.37	4.2 (2.0)
1-1/4	1	1	24	21	27	0.17	0.17	11.0 (5.0)
	1-1/4	1-1/4	29	20	27	0.19	0.19	11.0 (5.0)
	1-1/2	1-1/2	29	21	27	0.18	0.18	11.0 (5.0)

Valve Response Time – Response Time (msec) = M + (F • V). This is the average time required to fill a volume V (cubic inches) to 90% of supply pressure or to exhaust it to 10% of supply pressure. M and F values are shown above.

Valve Schematic

Normally Closed

Normally Open

1/4" Signal Port

Port 2 (Outlet)

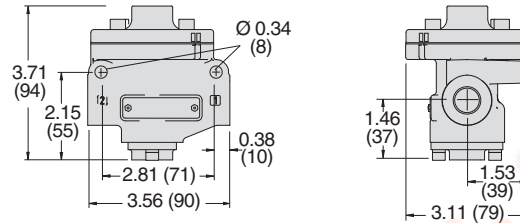
Port 1 (Inlet)

2/2 Pressure Controlled Valves

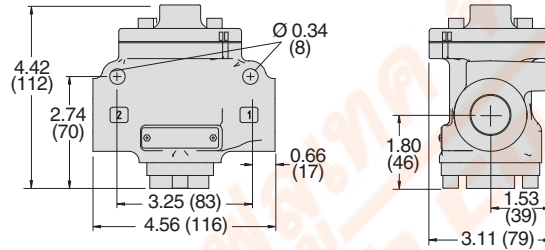
DIMENSIONS

Inches (mm)

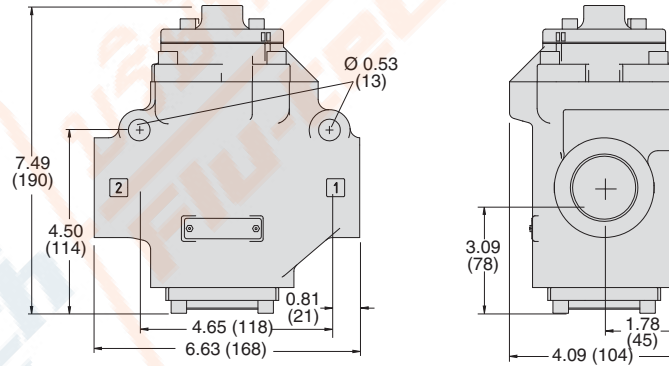
Body Size 3/8



Body Size 3/4



Body Size 1-1/4



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Ordering Information

3/2 Pressure Controlled Valves

MODEL NUMBER CONFIGURATOR

3-Way 2-Position Valves

Thread	Series	Actuation	Valve Function	Size
G D	21	Pressure Controlled	3/2 Normally Closed 3	Body Port 1 Port 2 Port 3
NPT Leave Blank	5		Normally Open 4	
	3			
	B			
	2001			

Body	Port 1	Port 2	Port 3	
3/8	1/4	1/4	1/2	2001
	3/8	3/8	1/2	3001
	1/2	1/2	1/2	4011
3/4	1/2	1/2	1	4001
	3/4	3/4	1	5001
	1	1	1	6011
1-1/4	1	1	1-1/2	6001
	1-1/4	1-1/4	1-1/2	7001
	1-1/2	1-1/2	1-1/2	8011
2	1-1/2	1-1/2	2-1/2	8001
	2	2	2-1/2	9001
	2-1/2	2-1/2	2-1/2	9011

Size				Flow C _v				Average Response Constants*					Weight lb (kg)
Body	Port 1	Port 2	Port 3	Normally Closed		Normally Open		M	F				
									Normally Closed		Normally Open		
				1-2	2-3	1-2	2-3		1-2	2-3	1-2	2-3	
3/8	1/4	1/4	1/2	2.4	3.4	2.0	2.1	10	1.76	2.08	1.60	2.30	1.8 (0.8)
	3/8	3/8	1/2	3.0	5.8	2.3	2.4	10	0.95	1.07	1.03	1.60	1.8 (0.8)
	1/2	1/2	1/2	3.0	5.2	2.9	2.8	10	0.94	0.98	11.00	2.00	1.8 (0.8)
3/4	1/2	1/2	1	6.6	12	6.5	7.0	11	0.58	0.64	0.50	0.70	4.5 (2.1)
	3/4	3/4	1	7.8	13	7.5	7.5	11	0.38	0.41	0.43	0.67	4.5(2.1)
	1	1	1	7.5	12	7.7	7.6	11	0.24	0.36	0.42	0.60	4.5 (2.1)
1-1/4	1	1	1-1/2	24	40	15	17	28	0.16	0.18	0.17	0.20	11.0 (5.0)
	1-1/4	1-1/4	1-1/2	29	39	21	23	28	0.12	0.17	0.15	0.19	11.0 (5.0)
	1-1/2	1-1/2	1-1/2	30	38	22	23	28	0.12	0.16	0.13	0.18	11.0 (5.0)

Valve Response Time – Response Time (msec) = M + (F • V). This is the average time required to fill a volume V (cubic inches) to 90% of supply pressure or to exhaust it to 10% of supply pressure. M and F values are shown above.

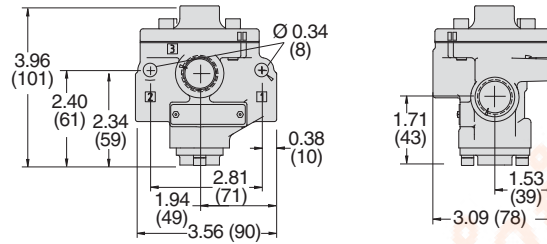
Valve Schematic	
Normally Closed 	Normally Open

3/2 Pressure Controlled Valves

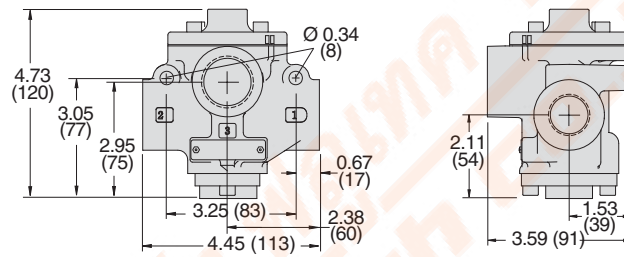
DIMENSIONS

Inches (mm)

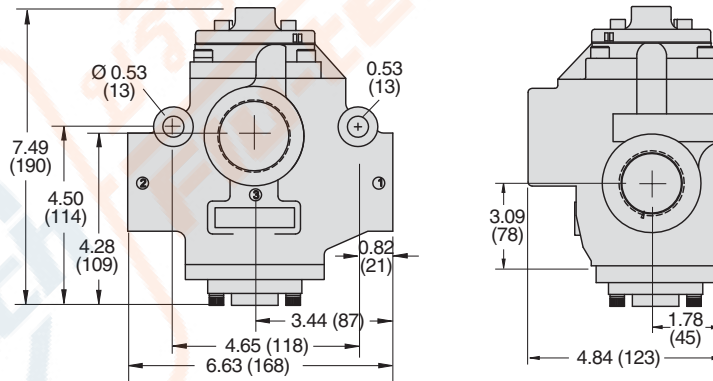
Body Size 3/8



Body Size 3/4



Body Size 1-1/4



For additional information, and to assist you with piping and connectivity designs, our products are available in downloadable 2D drawings and 3D CAD models in a wide range of options including native formats. Please visit www.rosscontrols.com.

Ordering Information

4/2 Pressure Controlled Valves

MODEL NUMBER CONFIGURATOR **4-Way 2-Position Valves**

MODEL NUMBER CONFIGURATOR **4-Way 2-Position Valves**

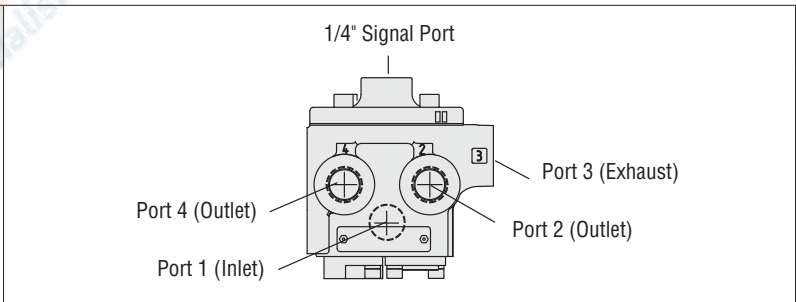
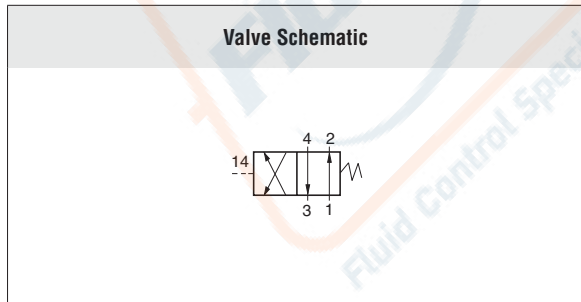
```

graph TD
    Root[ ] --- 21[21]
    Root --- 5[5]
    Root --- 6[6]
    Root --- B[B]
    Root --- 2001[2001]
    
    21 --- Series[Series]
    21 --- Actuation1[Actuation]
    
    5 --- Actuation2[Actuation]
    
    6 --- ValveFunction[Valve Function]
    
    B --- RevisionLevel[Revision Level]
    
    2001 --- Size[Size]
    2001 --- Body[Body]
    2001 --- Port1[Port 1]
    2001 --- Port24[Port 2, 4]
    2001 --- Port3[Port 3]
    2001 --- Final[ ]
    
    Size --- 38[3/8]
    Size --- 34[3/4]
    Size --- 114[1-1/4]
    
    38 --- 2001_1[2001]
    38 --- 3001[3001]
    38 --- 4011[4011]
    
    34 --- 4001[4001]
    34 --- 5001[5001]
    34 --- 6011[6011]
    
    114 --- 6001[6001]
    114 --- 7001[7001]
    114 --- 8011[8011]
    
    Series --- G[G]
    Actuation1 --- PC1[Pressure Controlled]
    Actuation2 --- PC2[Pressure Controlled]
    ValveFunction --- 42[4/2]
  
```

The diagram illustrates the hierarchical structure of a part number 21-5-6-B-2001. The root node is 2001, which branches into 21, 5, 6, B, and 2001. The 21 node branches into Series (G) and Actuation (Pressure Controlled). The 5 node branches into Actuation (Pressure Controlled). The 6 node branches into Valve Function (4/2). The B node branches into Revision Level. The 2001 node branches into Size (3/8, 3/4, 1-1/4). The Size node further branches into Body, Port 1, Port 2, 4, Port 3, and a final column with values like 2001, 3001, 4011, 4001, 5001, 6011, 6001, 7001, 8011.

Size				Flow C _v		Average Response Constants*			Weight lb (kg)
Body	Port 1	Port 2, 4	Port 3	1-2, 1-4	4-3, 2-3	M	F		
							1-2, 1-4	4-3, 2-3	
3/8	1/4	1/4	1/2	2.1	2.9	30	1.70	2.28	3.0 (1.4)
	3/8	3/8	1/2	2.9	4.2	30	1.13	1.33	3.0 (1.4)
	1/2	1/2	1/2	3.1	4.3	30	1.00	1.22	3.0 (1.4)
3/4	1/2	1/2	1	5.6	8.1	46	0.50	0.76	5.8 (2.6)
	3/4	3/4	1	7.0	9.3	46	0.36	0.55	5.8 (2.6)
	1	1	1	7.8	10	46	0.36	0.50	5.8 (2.6)
1-1/4	1	1	1-1/2	19	26	99	0.19	0.22	12.0 (5.4)
	1-1/4	1-1/4	1-1/2	21	27	99	0.19	0.18	12.0 (5.4)
	1-1/2	1-1/2	1-1/2	22	27	99	0.16	0.15	12.0 (5.4)

Valve Response Time – Response Time (msec) = $M + (F \cdot V)$. This is the average time required to fill a volume V (cubic inches) to 90% of supply pressure or to exhaust it to 10% of supply pressure. M and F values are shown above.

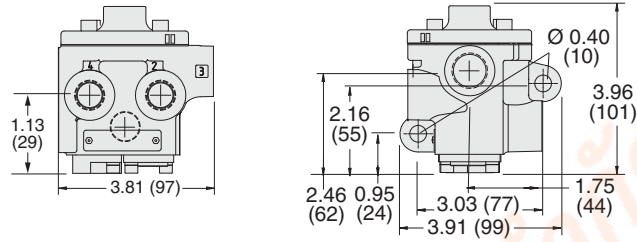


4/2 Pressure Controlled Valves

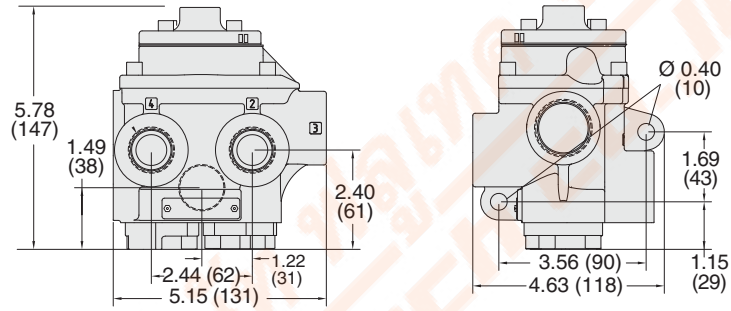
DIMENSIONS

Inches (mm)

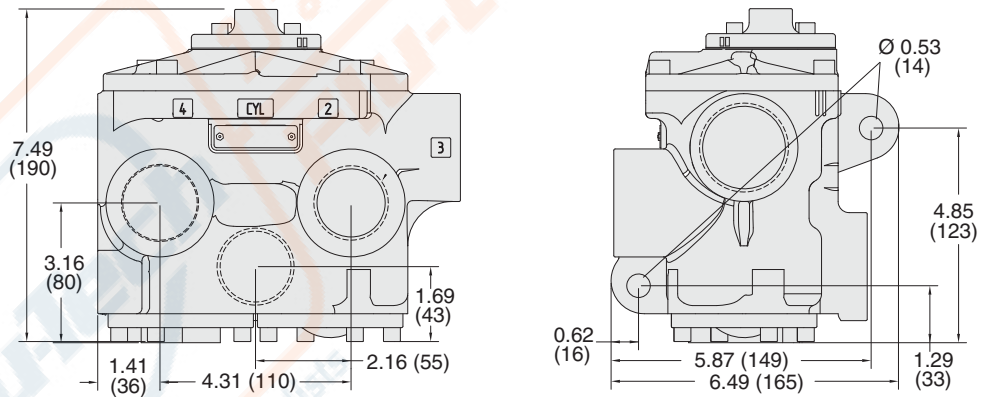
Body Size 3/8



Body Size 3/4



Body Size 1-1/4



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Accessories & Options

SILENCERS

Silencers	Port Size	Thread Type	Model Number		Flow Avg. C _v	Pressure Range psig (bar)
			R/Rp Thread	NPT Thread		
	1/2	Male	D5500A4003	5500A4003	4.7	0-290 (0-20) maximum
	1	Male	D5500A6003	5500A6003	15	
	1-1/2	Female	D5500A8001	5500A8001	30	

SOLENOID PILOT OPTIONS

Indicator Light Kits	Kit Number					
	24 V DC		110-120 V AC, 50-60 Hz		230 V AC, 50-60 Hz	
	862K87-W		862K87-Z		862K87-Y	
	To visually verify valve operation, indicator light kits are available for single solenoid models. Indicator lights are standard on double solenoid valves. The indicator light is illuminated when the solenoid is energized.					
Manual Override Kits	Flush Button		Extended Button		Extended Button with Palm	
	Locking Type	Kit Number	Locking Type	Kit Number	Locking Type	Kit Number
	Non-Locking	790K87	Non-Locking	791K87	Non-Locking	984H87
	Locking	792K87				
	Flush metal button, non-locking manual override is standard on solenoid models.					
Each of the buttons in the override kits is made of metal and is spring-returned. The locking type button, however, can be kept in the actuated position by turning the slot in the top of the button with a screwdriver.						