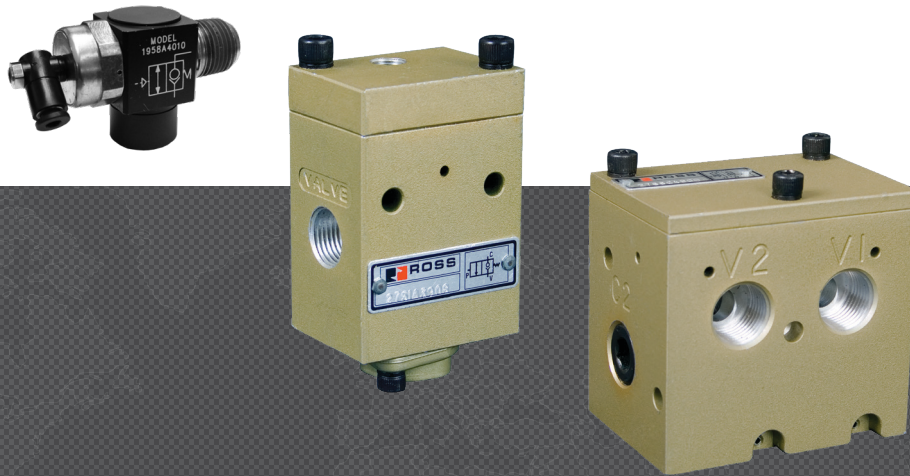




# SAFE LOAD HOLDING PO CHECK VALVES SERIES

## PRODUCT CATALOG



# Right Angle Pilot Operated Check Valves 19 Series

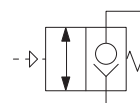
## Product Overview



### Pilot Operated Check Function

Pilot Operated Check valves are designed to trap pressure in order to hold a cylinder in place when a safety event occurs.

Schematic



Pilot Operated Check Valves are used to block the return of air from cylinders or other devices. Air flows freely from port 1 to port 2, but a signal at port 12 is required to allow flow in the reverse direction from port 2 to port 1.

Right-angle models with threaded Banjo are designed for easy positioning of pipe or tubing.

Model with Threaded Banjo



Model with Push-to-Connect Fittings



### VALVE FEATURES

**Design**

Right-angle design for easy positioning of pipe or tubing

**Ease of Maintenance**

Lube or non-lube operation

**Connectivity**

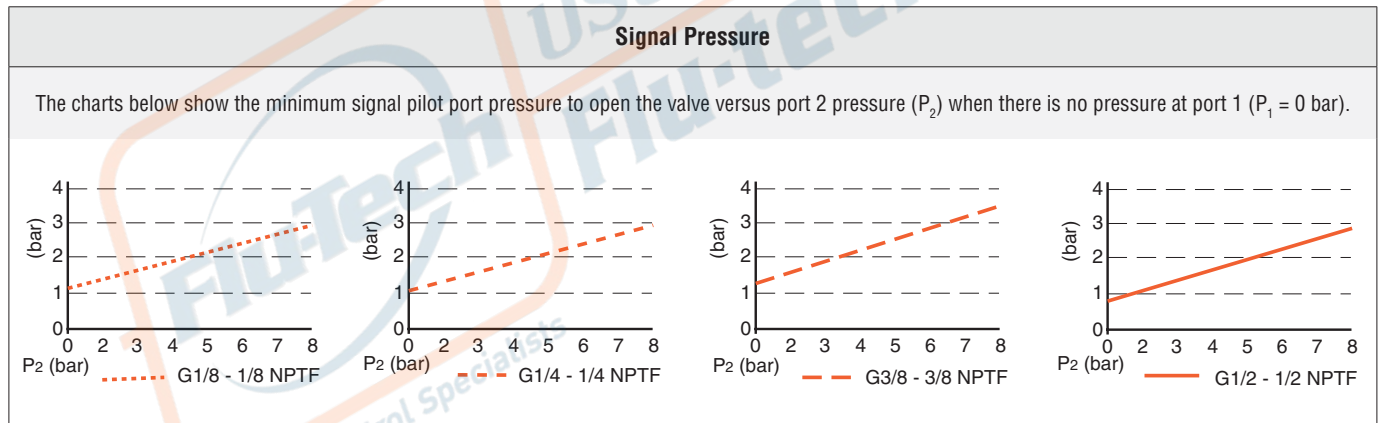
Right Angle Valves with Threaded Banjo or Push-to-Connect Fitting



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Tel. 0 2384 6060, Fax 0 2384 5701, Email : sales@flutech.co.th, www.flutech.co.th

STANDARD SPECIFICATIONS			
<b>GENERAL</b>	Function		Safe Load Holding
	Construction Design		Poppet
	Actuation		Pneumatic
	Mounting	Type	Inline
		Orientation	Any, preferably vertical
	Connection		Threaded; G, NPT
Minimum Operation Frequency		Once per month, to ensure proper function	
<b>OPERATING CONDITIONS</b>	Temperature	Ambient	15° to 160°F (-10° to 70°C)
		Media	
	Flow Media		Filtered air
Operating Pressure		5 to 150 psig (0.3 to 10 bar)	
<b>CONSTRUCTION MATERIAL</b>	Valve Body		Nickel Plated Brass and Anodized Aluminum
	Poppet		Acetal and Stainless Steel
	Seals		Buna-N; Fluorocarbon
	Manual Override		Valve equipped with port, manual override adapter available
<b>IMPORTANT NOTE:</b> Please read carefully and thoroughly all of the CAUTIONS, WARNINGS on the inside back cover.			



PRODUCT CREDENTIALS	
<b>Safety Category</b>  	<b>EAC Conformity Declaration</b>  



# Ordering Information

## Pilot Operated Check Right Angle Valves with Threaded Banjo

Port Size		Port Thread	Valve Model Number	Port 12
Port 1 (female threads)	Port 2 (male threads)			
1/8	1/8	G	D1958A1010	M5
1/4	1/4	G	D1958A2010	
3/8	3/8	G	D1958A3010	
1/2	1/2	G	D1958A4010	
1/8	1/8	NPT	1958A1010	10-32 UNF
1/4	1/4	NPT	1958A2010	
1/2	1/2	NPT	1958A4010	

Port Size	Port Thread	C <sub>v</sub>		Tightening Torque Max. Ft-lb (Nm)
		1-2	2-1	
1/8	G	0.4	0.4	7.38 (10)
1/4	G	0.8	0.7	8.85 (12)
3/8	G	1.2	1.3	14.75 (20)
1/2	G	2.3	2.2	22.13 (30)
1/8	NPT	0.4	0.4	22.13 (30)
1/4	NPT	0.8	0.7	14.75 (20)
3/8	NPT	1.2	1.3	22.13 (30)
1/2	NPT	2.3	2.2	29.50 (40)

Manual Override	Manual Trapped Pressure Relief Adapter			
	Port 1 (male thread)	Port 2	Port Thread	Model Number*
	M5	M5 Manual Operated Check	G	D1998A1010
	5/32 tubing	10/32 – Manual Operated Check	NPT	1998A1015

\* Adapter threads into the signal port.



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## Pilot Operated Check Right Angle Valves with Push-to-Connect Fitting

Port Size		Port 2 Thread Type	Valve Model Number	Port 12
Port 1 # (female thread)	Port 2 (male thread)			
4 mm	1/8	G	D1958A1140	M5
6 mm	1/8	G	D1958A1160	
8 mm	1/8	G	D1958A1180	
6 mm	1/4	G	D1958A2160	
8 mm	1/4	G	D1958A2180	
10 mm	3/8	G	D1958A3110	
5/32"	1/8	NPT	1958A1115	10-32 UNF
1/4"	1/8	NPT	1958A1120	
	1/4	NPT	1958A2120	
3/8"	1/4	NPT	1958A2130	
	3/8	NPT	1958A3130	

# Port 1 tubing size in inches (") or millimeters (mm).

Port Size		Port 2 Thread Type	C <sub>v</sub>		Tightening Torque Max. Ft-lb (Nm)
Port 1 # (female thread)	Port 2 (male thread)		1-2	2-1	
4 mm	1/8	G	0.4	0.4	7.38 (10)
6 mm	1/8	G	0.4	0.4	
8 mm	1/8	G	0.4	0.4	
6 mm	1/4	G	0.8	0.7	8.85 (12)
8 mm	1/4	G	0.8	0.7	
10 mm	3/8	G	1.2	1.3	14.75 (20)
5/32"	1/8	NPT	0.4	0.4	
1/4"	1/8	NPT	0.4	0.4	11.06 (15)
	1/4	NPT	0.8	0.7	
3/8"	1/4	NPT	0.8	0.7	14.75 (20)
	3/8	NPT	1.2	1.3	

# Port 1 tubing size in inches (") or millimeters (mm).

Manual Override	Manual Trapped Pressure Relief Adapter			
	Port 1 (male thread)	Port 2	Port Thread	Model Number*
	M5	M5 Manual Operated Check	G	D1998A1010
	5/32 tubing	10/32 – Manual Operated Check	NPT	1998A1015

\* Adapter threads into the signal port.

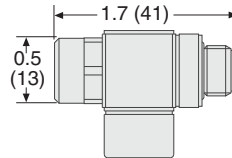
# Valve Technical Data

## Right Angle Pilot Operated Check Valves with Threaded Banjo

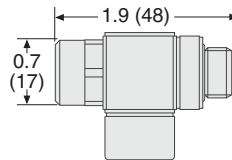
### DIMENSIONS

Inches (mm)

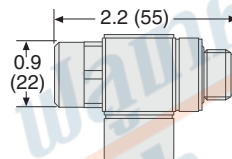
Port Size 1/8



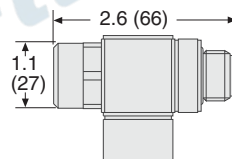
Port Size 1/4



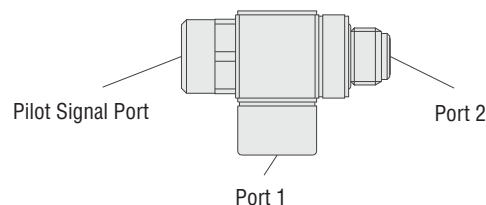
Port Size 3/8



Port Size 1/2



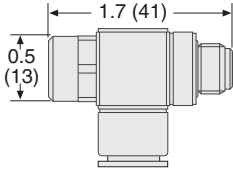
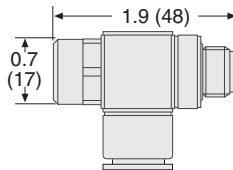
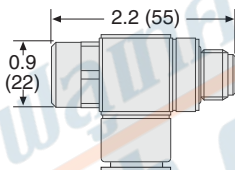
For additional information, and to assist you with piping and connectivity designs, our products are available in downloadable 2D drawings and 3D CAD models in a wide range of options including native formats, visit [www.rosscontrols.com](http://www.rosscontrols.com).

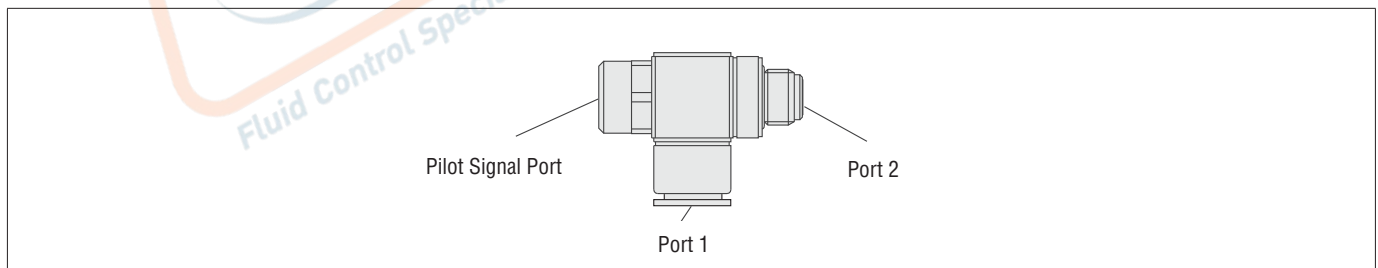
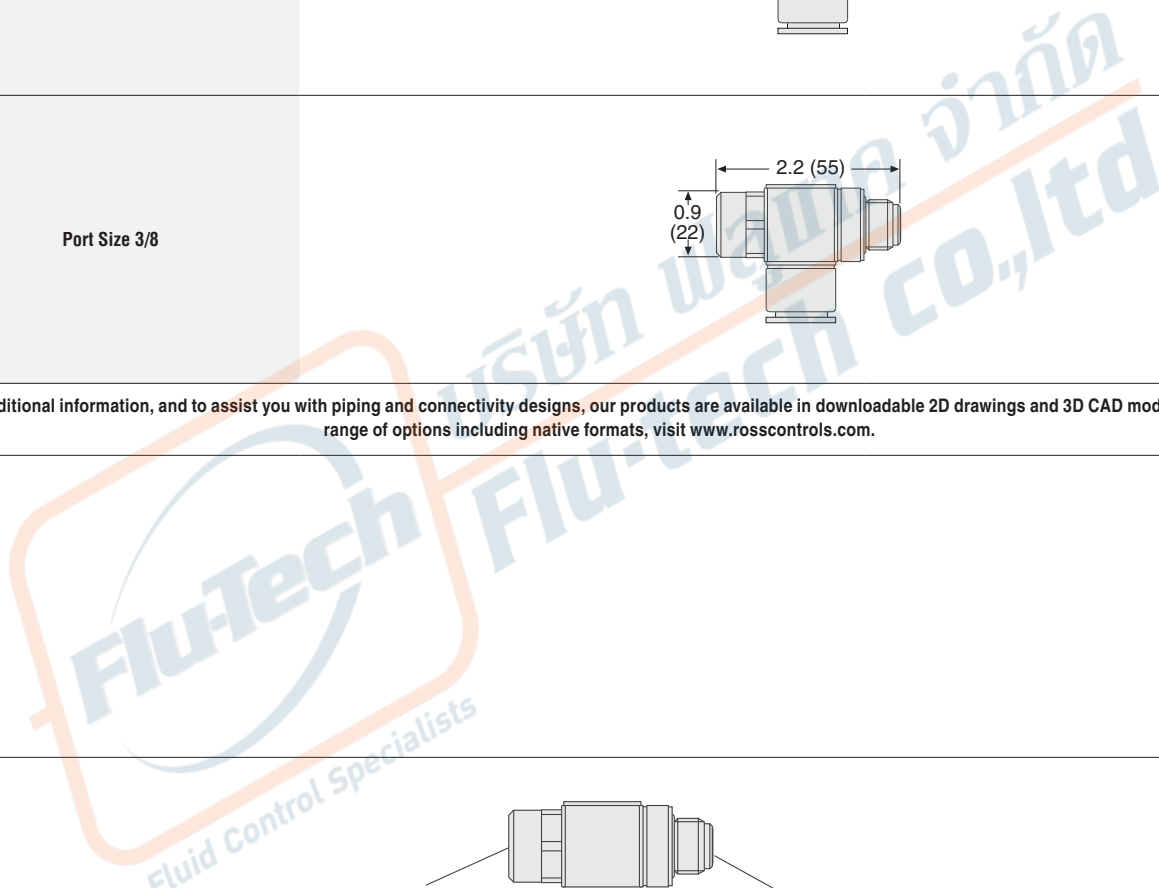


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## Right Angle Pilot Operated Check Valves with Push-to-Connect Fitting

DIMENSIONS	Inches (mm)
Port Size 1/8	
Port Size 1/4	
Port Size 3/8	
<p>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, visit <a href="http://www.rosscontrols.com">www.rosscontrols.com</a>.</p>	





# Pilot Operated Check Valves 27 Series

## Product Overview



### Pilot Operated Check Function

Pilot Operated Check valves are designed to trap pressure in order to hold a cylinder in place when a safety event occurs.

Solenoid Pilot Controlled Valves – Dual Pilot Operated Check				
Schematic	Connector Wiring			
	DIN EN	AC Mini	DC Mini	DC Micro

Pressure Controlled Valves – Schematics			
	Trapped Pressure Relief Options		
	None	Remote	Manual
Single Pilot Operated Check			
Dual Pilot Operated Check			

Pilot Operated Check valves can be used wherever a high-flow or remotely-controlled checking function is needed. Can be used in a circuit to provide automatic stopping of a cylinder in the event of the loss of electrical or pneumatic power.

### VALVE FEATURES

<b>Poppet Design</b>	Poppet construction for near zero leakage
<b>Trapped Pressure Release Options</b>	Manual or remote trapped pressure release when pressure is removed from the Blowdown Signal Port (BP)
<b>Mounting</b>	Inline



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STANDARD SPECIFICATIONS			
GENERAL	Function		Load Holding
	Construction Design		Poppet
	Actuation		Electrical Pneumatic
	Mounting	Type	Inline
		Orientation	Any, preferably vertical
	Connection		Threaded; G, NPT
Minimum Operation Frequency		Once per month, to ensure proper function	
OPERATING CONDITIONS	Temperature	Ambient	40° to 175°F (4° to 80°C)
		Media	
	Flow Media		Filtered air
	Operating Pressure	Solenoid Pilot Controlled	15 to 150 psig (1 to 10.3 bar)
Pressure Controlled		30 to 150 psig (2 to 10.3 bar)	
Pilot Pressure		Must be equal to or greater than inlet pressure	
ELECTRICAL DATA FOR SOLENOID PILOT CONTROLLED VALVES	Solenoids		AC or DC power; Rated for continuous duty
	Operating Voltage		24 volts DC 110-120 volts AC, 50/60 Hz 230-240 volts AC, 50/60 Hz
	Power Consumption (each solenoid)		4.5 watts with 4-pin Micro connector, 60 watts with 3-pin connector 8 VA inrush, 6 VA holding on AC
	Enclosure Rating		IP65, IEC 60529
	Electrical Connection		EN DIN 175301-803 Form A, 3-Pin Mini or 4-Pin Micro.
CONSTRUCTION MATERIAL	Valve Body		Cast Aluminum
	Poppet		Acetal and Stainless Steel
	Seals		Buna-N
<p><b>IMPORTANT NOTE:</b> Please read carefully and thoroughly all of the CAUTIONS, WARNINGS on the inside back cover.</p>			

PRODUCT CREDENTIALS				
Safety Category	EAC Conformity Declaration	ISO Standard	CSA Certificate of Compliance	CRN Certification
		ISO 13849-1:2015	 Solenoid Pilot Valves	Available for appropriately tested valves



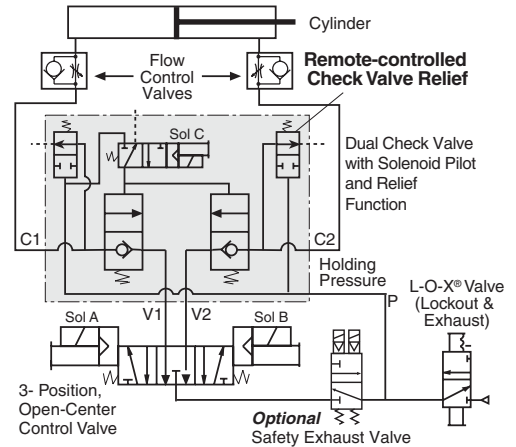
# Applications

## Solenoid Pilot Controlled Valve Application

### Dual Pilot Operated Check Valve

#### CIRCUIT FEATURES

- To operate cylinder, simultaneously energize solenoids A and C or B and C.
- Pilot supply and exhaust are independent of control valve.
- Response time is not affected by exhaust restrictions of the control valve.
- Cylinder remains stationary if neither control valve solenoid is energized, or if electrical signal is lost.
- Pressure in cylinder is exhausted when the air supply at "P" port is lost or locked-out.
- L-O-X® valve provides lockable shut-off of air supply, and exhausting of trapped downstream air.

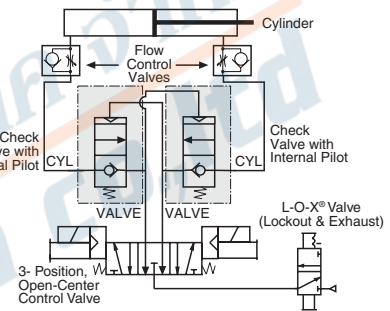


## Pressure Controlled Valve Application

### Single Pilot Operated Check Valve

#### CIRCUIT FEATURES

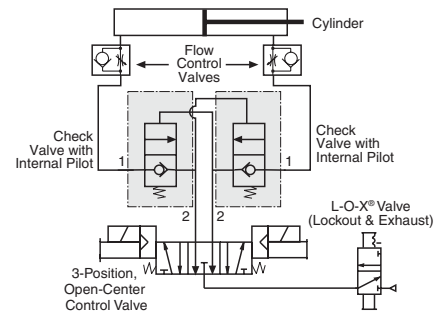
- Cylinder moves as long as the control valve solenoid is energized. Use for continuous motion or jogging.
- Cylinder remains stationary if neither control valve solenoid is energized, or if electrical signal is lost.



### Single Pilot Operated Check Valve

#### CIRCUIT FEATURES

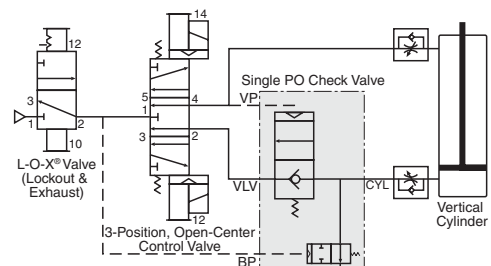
- Cylinder moves as long as the control valve solenoid is energized. Use for continuous motion or jogging.
- Cylinder remains stationary if neither control valve solenoid is energized, or if electrical signal is lost.



### Single Pilot Operated Check Valve with Trapped Pressure Relief Application

#### CIRCUIT FEATURES

- Trapped pressure between check valve and cylinder is exhausted when the air supply at the Blowdown Signal Port (BP) is lost or locked-out.
- Cylinder moves as long as the control valve solenoid is energized. Use for continuous motion or jogging.
- Cylinder remains stationary if neither control valve solenoid is energized, or if electrical signal is lost.



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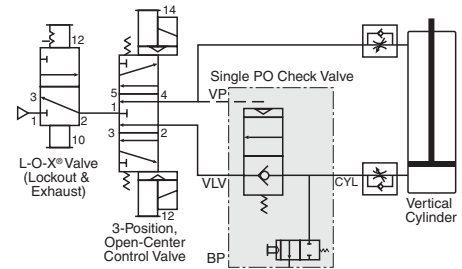
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## Pressure Controlled Valve Application

### Single Pilot Operated Check Valve with Manual Trapped Pressure Relief

#### CIRCUIT FEATURES

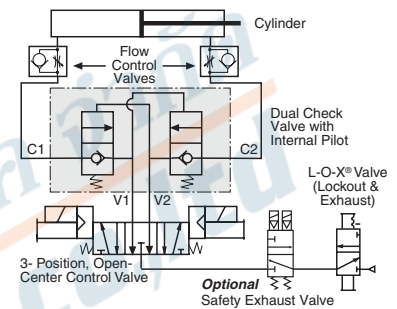
- To operate cylinder, simultaneously energize solenoids A and C or B and C.
- Pilot supply and exhaust are independent of control valve.
- Response time is not affected by exhaust restrictions of the control valve.
- Cylinder remains stationary if neither control valve solenoid is energized, or if electrical signal is lost.
- Pressure in cylinder is exhausted when the air supply at "P" port is lost or locked-out.
- L-O-X® valve provides lockable shut-off of air supply, and exhausting of trapped downstream air.



### Single Pilot Operated Check Valve

#### CIRCUIT FEATURES

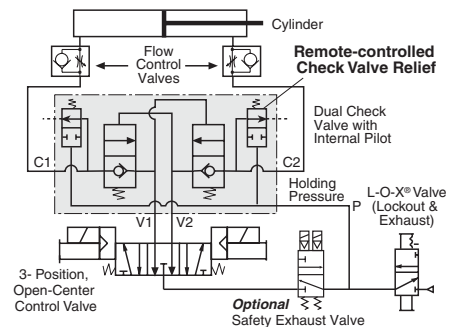
- Cylinder moves as long as the control valve solenoid is energized. Use for continuous motion or jogging.
- Cylinder remains stationary if neither control valve solenoid is energized, or if electrical signal is lost.



### Single Pilot Operated Check Valve

#### CIRCUIT FEATURES

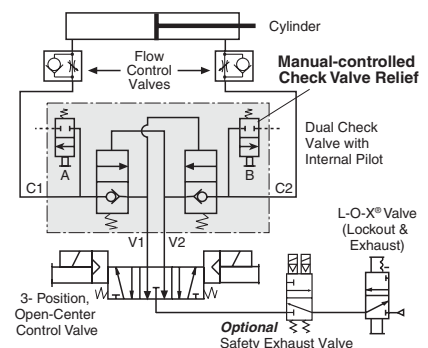
- Cylinder moves as long as the control valve solenoid is energized. Use for continuous motion or jogging.
- Cylinder remains stationary if neither control valve solenoid is energized, or if electrical signal is lost.



### Dual Pilot Operated Check Valve Manual Trapped Pressure Relief

#### CIRCUIT FEATURES

- Trapped pressure between check valve and cylinder is exhausted when the air supply at the Blowdown Signal Port (BP) is lost or locked-out.
- Cylinder moves as long as the control valve solenoid is energized. Use for continuous motion or jogging.
- Cylinder remains stationary if neither control valve solenoid is energized, or if electrical signal is lost.



# Ordering Information – Solenoid Pilot Controlled Valves

## Dual Pilot Operated Check – Valves with Remote Trapped Pressure Relief

### Valves with DIN EN Connector

### 2-Way 2-Position Valves

Port Size	Valve Model Number					
	G Thread			NPT Thread		
	24 V DC	110-120 V AC	230 V AC	24 V DC	110-120 V AC	230 V AC
3/8	D2778D3900W	D2778D3900Z	D2778D3900Y	2778D3900W	2778D3900Z	2778D3900Y
1/2	D2778D4900W	D2778D4900Z	D2778D4900Y	2778D4900W	2778D4900Z	2778D4900Y
3/4	D2778D5900W	D2778D5900Z	D2778D5900Y	2778D5900W	2778D5900Z	2778D5900Y
1	D2778D6900W	D2778D6900Z	D2778D6900Y	2778D6900W	2778D6900Z	2778D6900Y

### Valves with 3-Pin Mini Connector

### 2-Way 2-Position Valves

Port Size	Valve Model Number					
	G Thread			NPT Thread		
	24 V DC	110-120 V AC	230 V AC	24 V DC	110-120 V AC	230 V AC
3/8	D2778D3901W	D2778D3901Z	D2778D3901Y	2778D3901W	2778D3901Z	2778D3901Y
1/2	D2778D4901W	D2778D4901Z	D2778D4901Y	2778D4901W	2778D4901Z	2778D4901Y
3/4	D2778D5901W	D2778D5901Z	D2778D5901Y	2778D5901W	2778D5901Z	2778D5901Y
1	D2778D6901W	D2778D6901Z	D2778D6901Y	2778D6901W	2778D6901Z	2778D6901Y

### Valves with 4-Pin Micro Connector

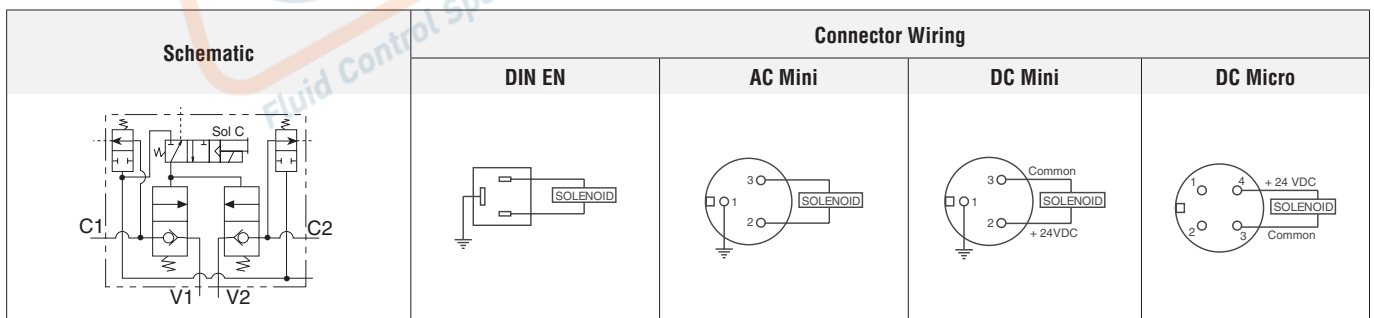
### 2-Way 2-Position Valves

Port Size	Valve Model Number	
	24 V DC	
	G Thread	NPT Thread
3/8	D2778D3904	2778D3904
1/2	D2778D4904	2778D4904
3/4	D2778D5904	2778D5904
1	D2778D6904	2778D6904

Port Size	Signal Port	C <sub>v</sub>	Weight lb (kg)
3/8	1/8	2.9	4.0 (1.8)
1/2	1/8	3.2	4.2 (1.9)
3/4	1/8	8.5 #	4.2 (1.9)
1	1/8	8.5 #	6.1 (2.8)



# Effective C<sub>v</sub> varies with load and pressure drop. Consult ROSS for specifics on your system.



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# Ordering Information – Pressure Controlled valves

## Single Pilot Operated Check - Valves without Trapped Pressure Relief

### Valves without Trapped Pressure Relief – GEN I

### 2-Way 2-Position Valves

Port Size	Body Size	Valve Model Number		Signal Port	C <sub>v</sub>	Weight lb (kg)	
		G Thread	NPT Thread				
1/4	3/8	D2751A2903	2751A2903	1/4	2.3	1.3 (0.6)	
3/8	3/8	D2751A3901	2751A3901	1/4	3.8		
1/2	3/8	D2751A4902	2751A4902	1/4	4		
	3/4	D2751A4905	2751A4905	1/4	7.7	2.3 (1.0)	
3/4	3/4	D2751A5903	2751A5903	1/4	9		
1	3/4	D2751A6901	2751A6901	1/4	9	6.0 (2.7)	
	1 1/4	D2751B6904	2751B6904	1/4	24		
1 1/4	1 1/4	D2751B7901	2751B7901	1/4	29		
1 1/2	1 1/4	D2751B8902	2751B8902	1/4	29		

### Valves without Trapped Pressure Relief – GEN II

### 2-Way 2-Position Valves

Port Size	Valve Model Number		Signal Port	C <sub>v</sub>	Weight lb (kg)	
	G Thread	NPT Thread				
1/4	D2751A2908	2751A2908	1/8	2.2	2.3 (1.0)	
3/8	D2751A3908	2751A3908	1/8	2.9		
1/2	D2751A4915	2751A4915	1/8	3.2		

### Valves with Remote Trapped Pressure Relief

### 2-Way 2-Position Valves

Port Size	Valve Model Number		Signal Port	C <sub>v</sub>	Weight lb (kg)	
	G Thread	NPT Thread				
3/8	D2751A3922	2751A3922	1/8	2.6	1.8 (0.8)	
1/2	D2751A4922	2751A4922	1/8	2.8		
3/4	D2751A5917	2751A5917	1/8	9.2	2.9 (3.1)	

### Valves with Manual Trapped Pressure Relief

### 2-Way 2-Position Valves

Port Size	Valve Model Number		C <sub>v</sub>	Weight lb (kg)	
	G Thread	NPT Thread			
3/8	D2751A3920	2751A3920	2.6	1.8 (0.8)	
1/2	D2751A4920	2751A4920	2.8		
3/4	D2751A5919	2751A5919	9.2	2.9 (3.1)	

### Trapped Pressure Relief Options

None	Remote	Manual



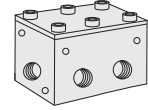
# Ordering Information

## Dual Pilot Operated Check – Pressure Controlled Valves

### Valves without Trapped Pressure Relief

### 2-Way 2-Position Valves

Port Size	Valve Model Number		Signal Port	C <sub>v</sub>	Weight lb (kg)
	G Thread	NPT Thread			
3/8	D2768C3900	2768C3900	1/8	2.9	2.0 (0.9)
1/2	D2768C4900	2768C4900	1/8	3.2	2.4 (1.1)
3/4	D2768C5900	2768C5900	1/8	8.5 #	3.8 (1.7)
1	D2768A6900	2768A6900	1/8	8.5 #	6.8 (3.1)



# Effective C<sub>v</sub> varies with load and pressure drop. Consult ROSS for specifics on your system.

### Valves with Remote Trapped Pressure Relief

### 2-Way 2-Position Valves

Port Size	Valve Model Number		Signal Port	C <sub>v</sub>	Weight lb (kg)
	G Thread	NPT Thread			
3/8	D2768D3901	2768D3901	1/8	2.9	2.3 (1.1)
1/2	D2768D4901	2768D4901	1/8	3.2	2.3 (1.1)
3/4	D2768D5901	2768D5901	1/8	8.5 #	3.8 (1.7)
1	D2768D6901	2768D6901	1/8	8.5 #	7.4 (3.4)

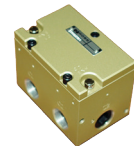


# Effective C<sub>v</sub> varies with load and pressure drop. Consult ROSS for specifics on your system.

### Valves with Manual Trapped Pressure Relief

### 2-Way 2-Position Valves

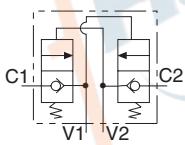
Port Size	Valve Model Number		C <sub>v</sub>	Weight lb (kg)
	G Thread	NPT Thread		
3/8	D2768D3904	2768D3904	2.9	2.3 (1.1)
1/2	D2768D4904	2768D4904	3.2	2.3 (1.1)
3/4	D2768D5904	2768D5904	8.5 #	3.8 (1.7)
1	D2768D6904	2768D6904	8.5 #	6.58 (3.0)



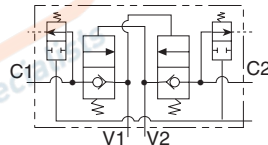
# Effective C<sub>v</sub> varies with load and pressure drop. Consult ROSS for specifics on your system.

### Trapped Pressure Relief Options

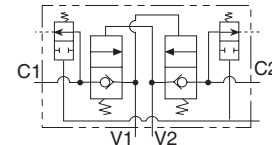
#### None



#### Remote



#### Manual



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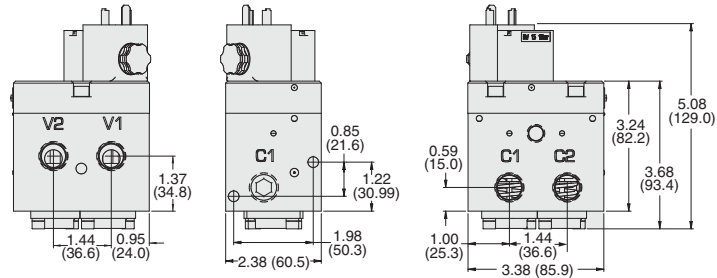
845/3-4 หมู่ 3 ถ.เทพารักษ์ ต.เทพารักษ์ อ.เมือง จ.สมุทรปราการ 10270  
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## Solenoid Pilot Controlled Valves – Dual PO Check with Remote Trapped Pressure Relief

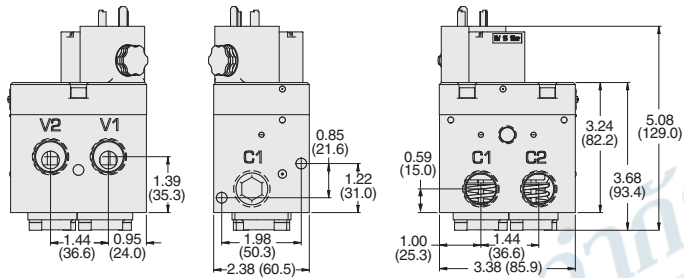
### DIMENSIONS

Inches (mm)

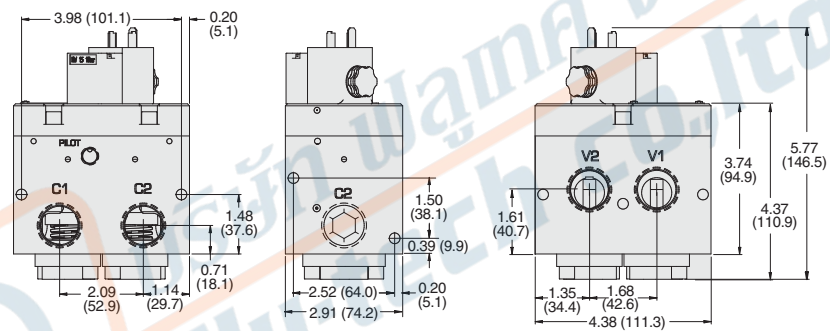
Port Size 3/8



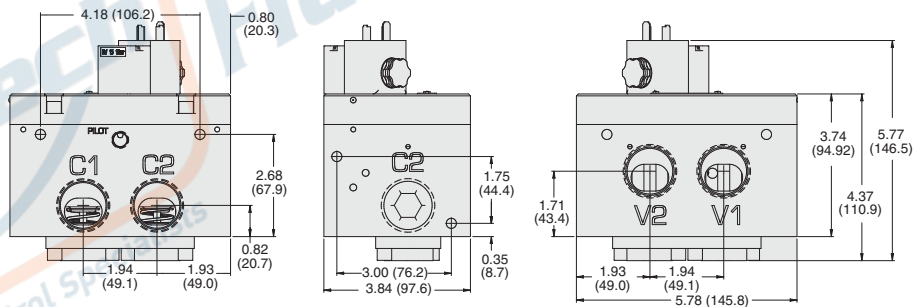
Port Size 1/2



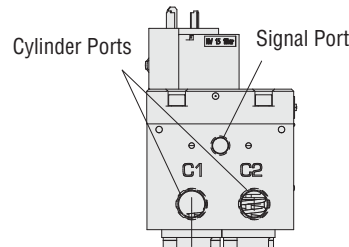
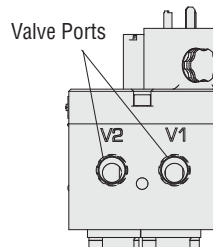
Port Size 3/4



Port Size 1



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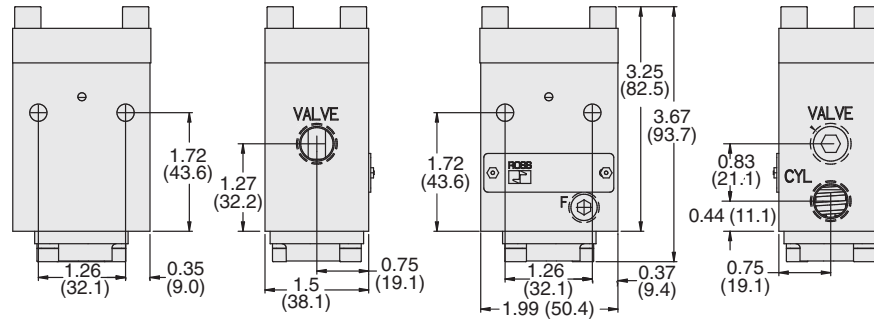
# Valve Technical Data

## Pressure Controlled Valves – Single PO Check Valves without Trapped Pressure Relief

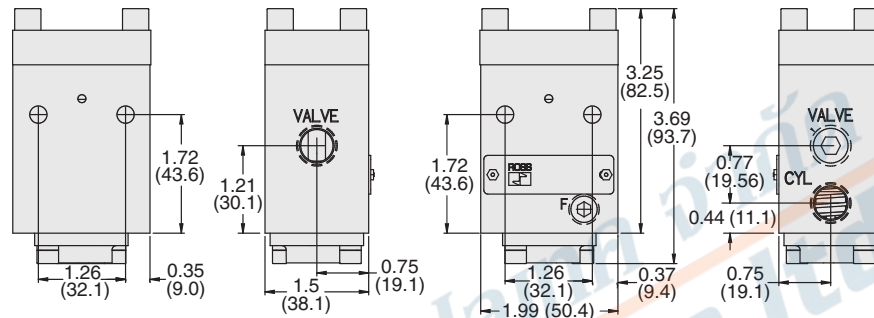
### DIMENSIONS

Inches (mm)

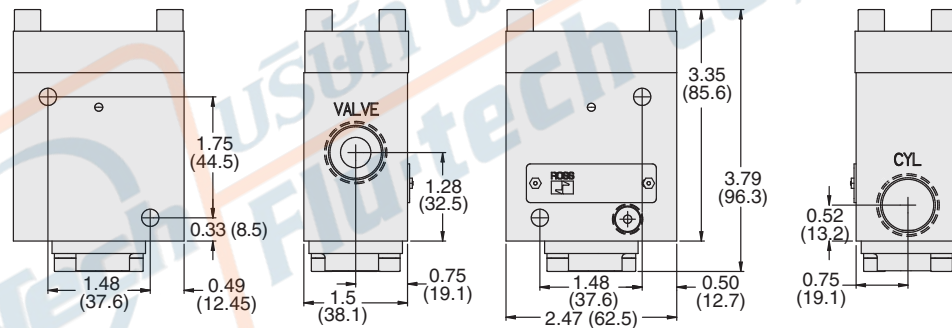
Port Size 1/4



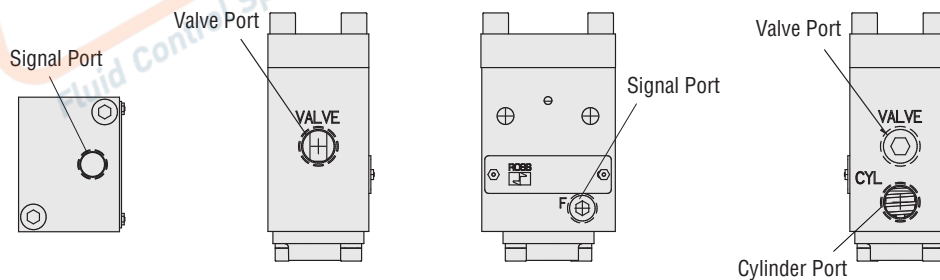
Port Size 3/8



Port Size 1/2



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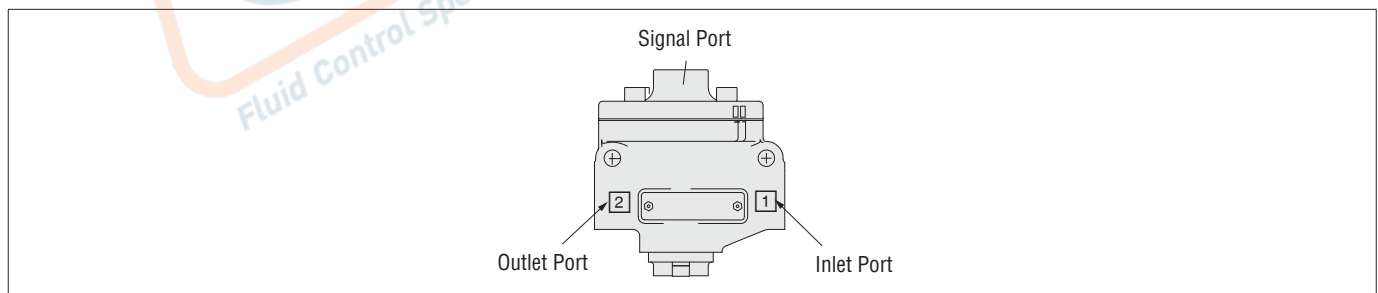


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## Pressure Controlled Valves – Single PO Check Headline Valves without Trapped Pressure Relief

DIMENSIONS	Inches (mm)
Body Size 3/8	
Port Size 3/4	
Port Size 1-1/4	
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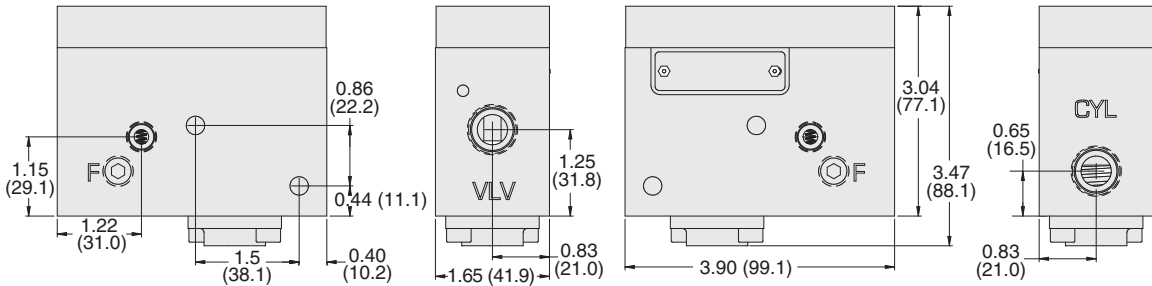
# Valve Technical Data

## Pressure Controlled Valves – Single PO Check Valves with Remote Trapped Pressure Relief

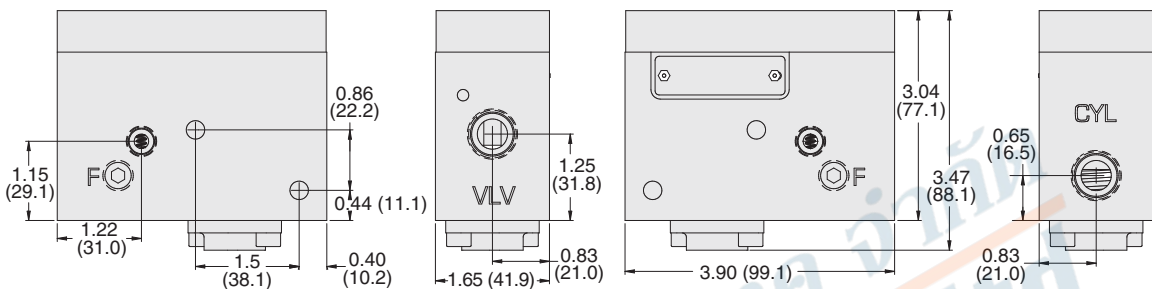
### DIMENSIONS

Inches (mm)

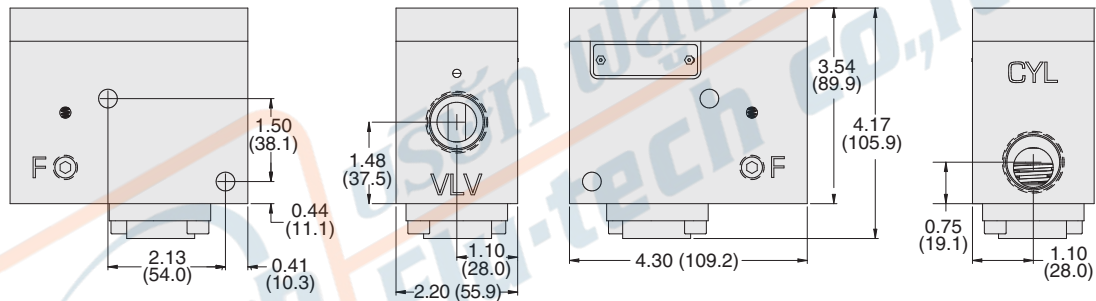
Body Size 3/8



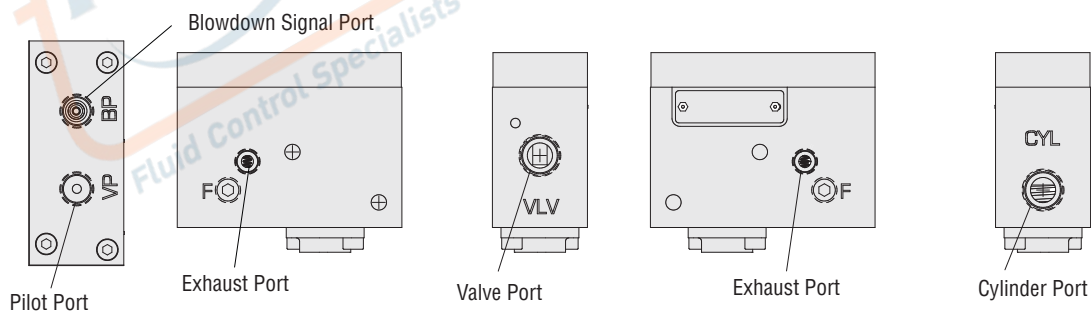
Port Size 1/2



Port Size 3/4



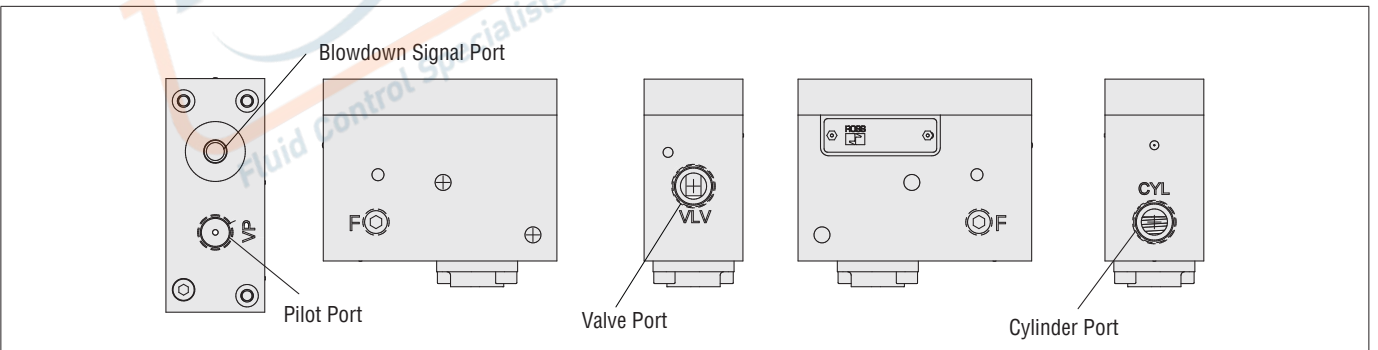
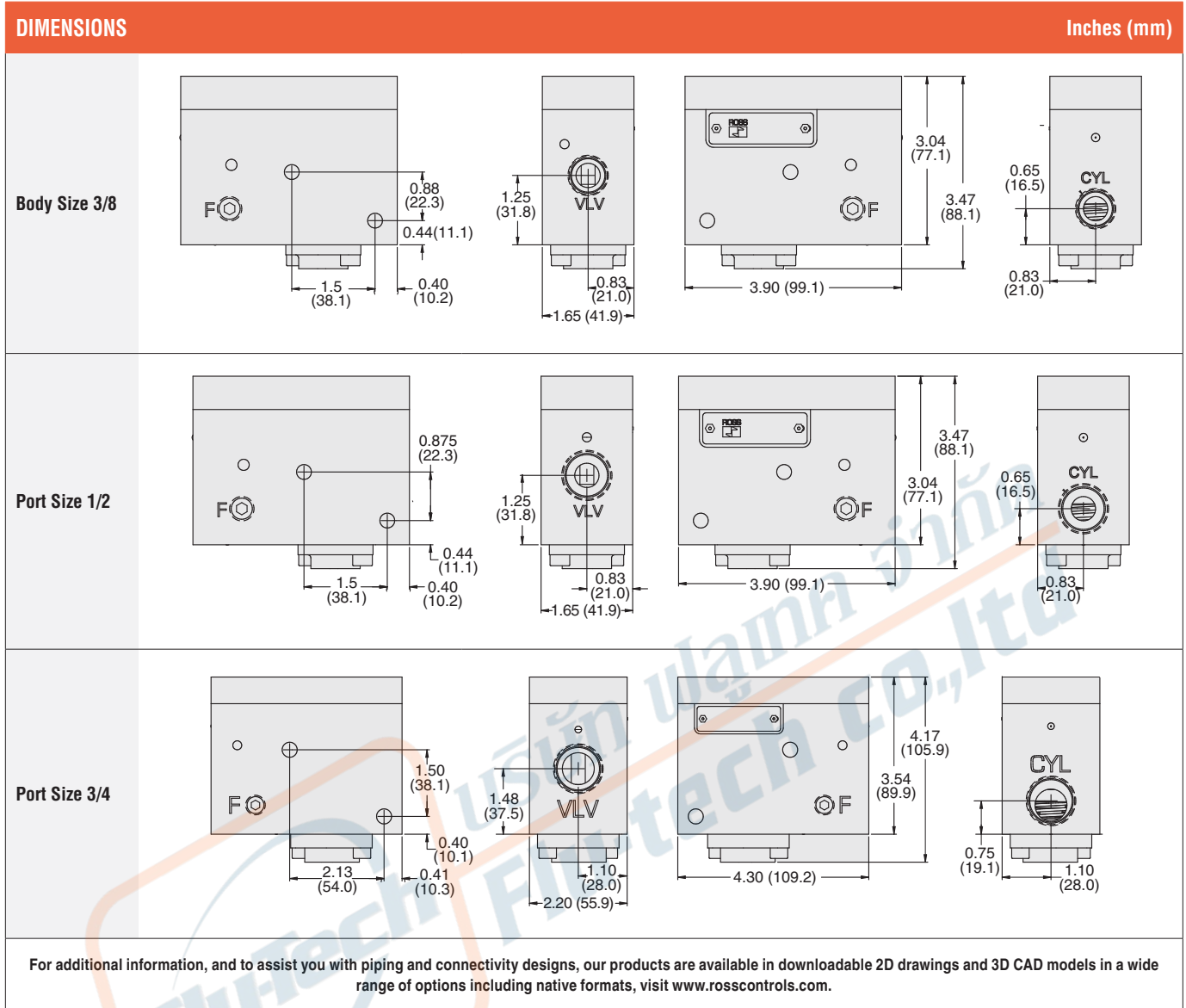
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## Pressure Controlled Valves – Single PO Check Valves with Manual Trapped Pressure Relief



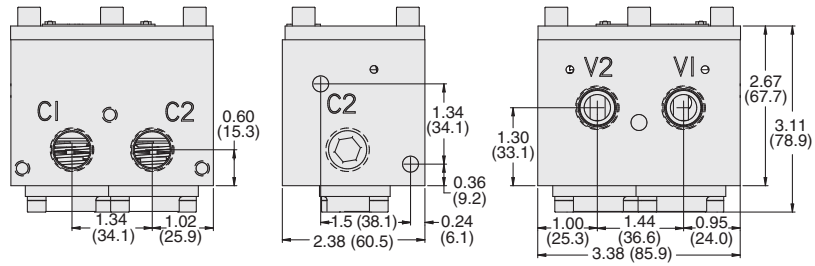
# Valve Technical Data

## Pressure Controlled Valves – Dual PO Check without Trapped Pressure Relief

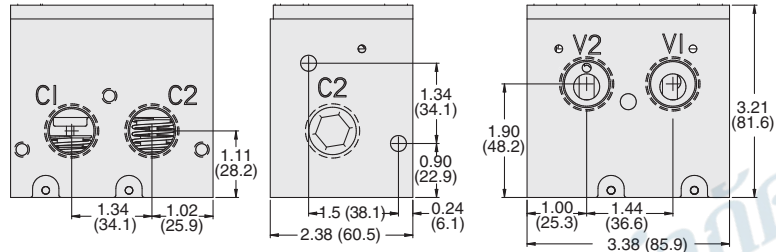
### DIMENSIONS

Inches (mm)

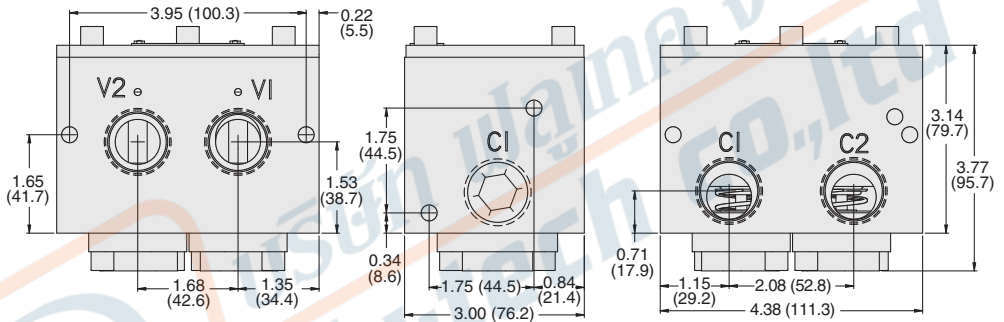
Port Size 3/8



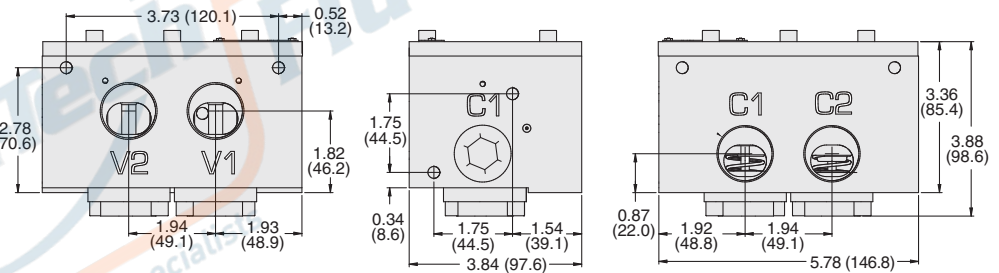
Port Size 1/2



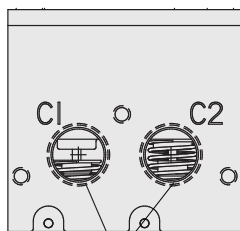
Port Size 3/4



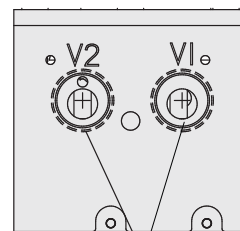
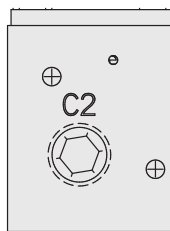
Port Size 1



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Cylinder Ports



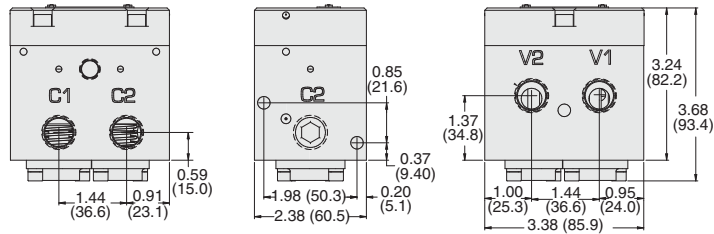
Valve Ports

## Pressure Controlled Valves –Dual PO Check with Remote Trapped Pressure Relief

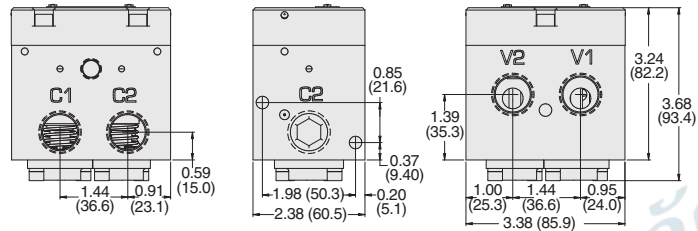
### DIMENSIONS

Inches (mm)

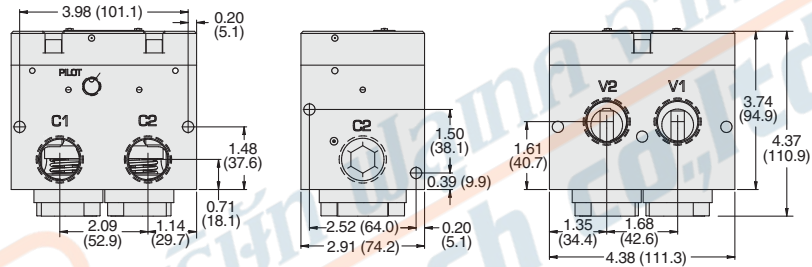
Port Size 3/8



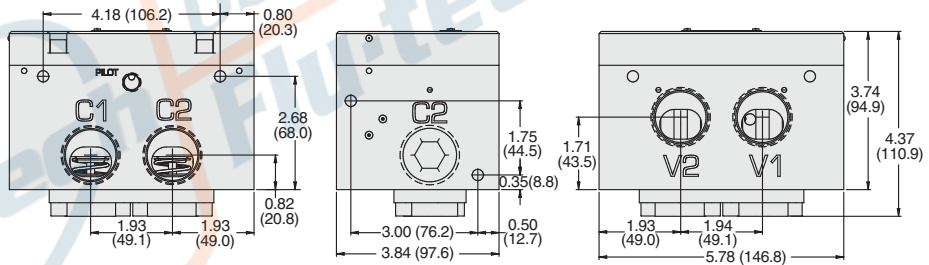
Port Size 1/2



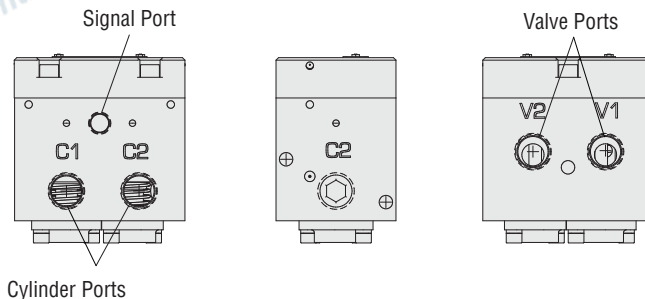
Port Size 3/4



Port Size 1



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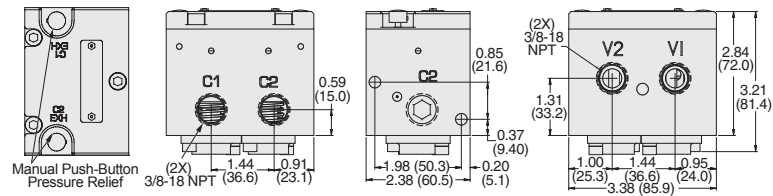
# Valve Technical Data

## Pressure Controlled Valves – Dual PO Check with Manual Trapped Pressure Relief

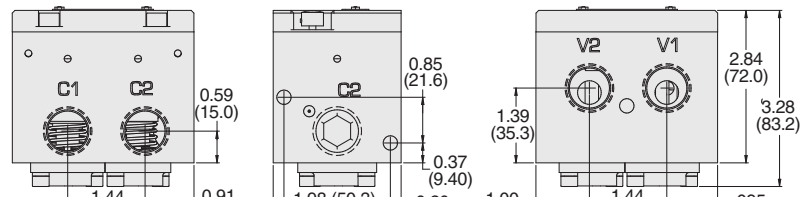
### DIMENSIONS

Inches (mm)

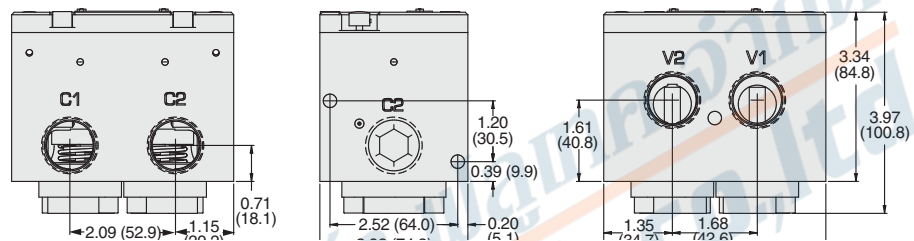
Port Size 3/8



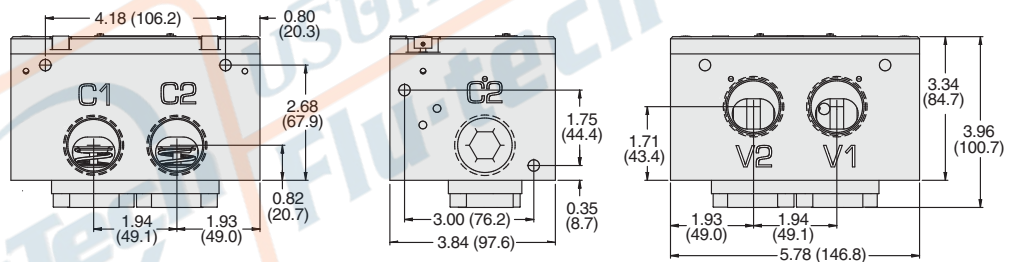
Port Size 1/2



Port Size 3/4

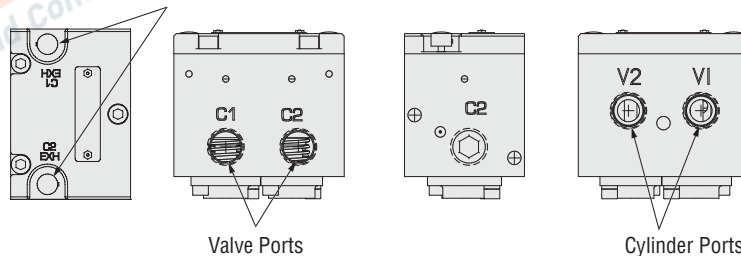


Port Size 1



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Manual Push-Button Pressure Relief



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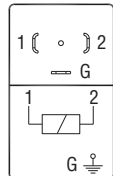
## ELECTRICAL CONNECTORS

Pre-wired Connectors	Connection Type	Connector Type	Cable		Length meters (feet)	Quantity	Cable Diameter	Model Number			
			End 1	End 2				Without Light	Lighted Connector		
									24 V DC	120 V AC	230 V AC
Solenoid	DIN EN 175301-803 Form A	Connector	Flying leads	2 (6.5)	1	6-mm	721K77	720K77-W	720K77-Z	720K77-Y	
					1	10-mm	371K77	383K77-W	383K77-Z	383K77-Y	

Connectors (no cable)	Connection Type	Connector Type	Fitting Connection	Quantity	Model Number			
					Without Light	Lighted Connector		
						24 V DC	120 V AC	230 V AC
Solenoid	DIN EN 175301-803 Form A		Cable grip	1	937K87	936K87-W	936K87-Z	936K87-Y
			1/2" NPT conduit	1	723K77	724K77-W	724K77-Z	724K77-Y

### Connectors Pinout

#### DIN EN 175301-803 Form A



- 1 - Black
- 2 - Black
- G - Green/Yellow (Ground)

