



# PRODUCT INFORMATION

## FOOT OPERATED VALVES

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### 36 & RM SERIES



**ROSS CONTROLS**

3-Way 2-Position Valves, Pedal, Spring Return						
Port Size	Valve Model Number		C <sub>v</sub>	Average Response Constants**		Weight lb (kg)
	NPT Threads	G Threads		F		
1/4	3643A2002	D3643A2002	1.2	1-2	2-3	1.3 (0.6)



4-Way 2-Position Valves, Pedal, Spring Return						
Port Size	Valve Model Number		C <sub>v</sub>	Average Response Constants**		Weight lb (kg)
	NPT Threads	G Threads		F		
1/4	3646A2002	D3646A2002	1.2	1-2, 1-4	4-3, 2-3	2.8 (1.3)

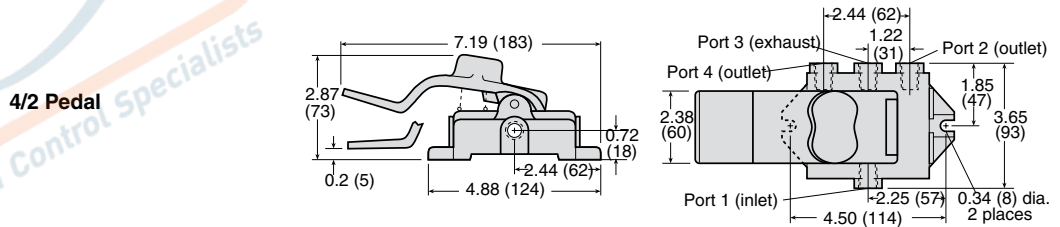
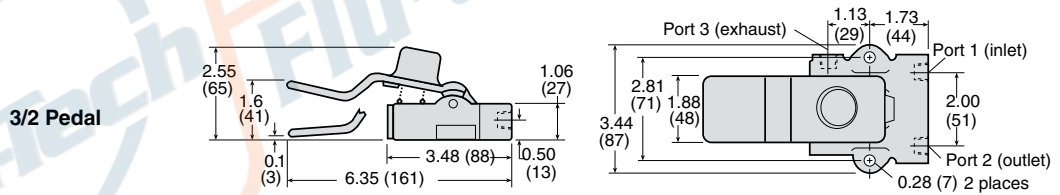
3-Way 2-Position Valves, Treadle, Detented						
Port Size	Valve Model Number		C <sub>v</sub>	Average Response Constants**		Weight lb (kg)
	NPT Threads	G Threads		F		
1/4	3643A2001	D3643A2001	1.2	1-2	2-3	1.3 (0.6)



4-Way 2-Position Valves, Treadle, Detented						
Port Size	Valve Model Number		C <sub>v</sub>	Average Response Constants**		Weight lb (kg)
	NPT Threads	G Threads		F		
1/4	3646A2001	D3646A2001	1.2	1-2, 1-4	4-3, 2-3	2.8 (1.3)

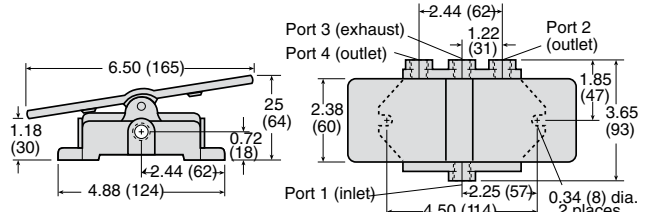
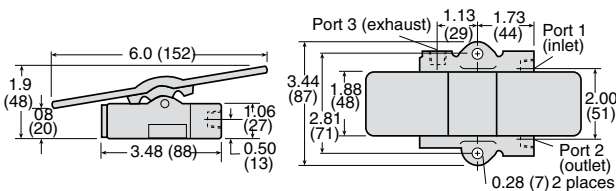
\*\* Valve Response Time – Response Time (msec) = M + (F • V). This is the average time required to fill a volume V (cubic inches) to 90% of supply pressure or to exhaust it to 10% of supply pressure. F values are given in the chart above. M values for manually operated valves depend on the speed of actuation, and may be taken as zero for most practical applications.

### Valve Dimensions – inches (mm)



### 3/2 Treadle

### 4/2 Treadle

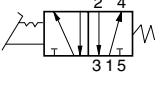
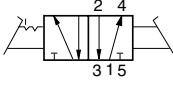


### STANDARD SPECIFICATIONS (for valves on this page):

Construction Design	Poppet	Flow Media	Filtered air
Mounting Type	Line	Operating Pressure	5 to 150 psig (0.3 to 10 bar)
Temperature	Ambient/Media: -30° to 175°F (-34° to 80°C)	Construction Material	Valve Body: Cast Aluminum
	For temperatures below 40°F (4°C) air must be free of water vapor to prevent formation of ice. For temperatures below -30°F (-34°C), consult ROSS.		

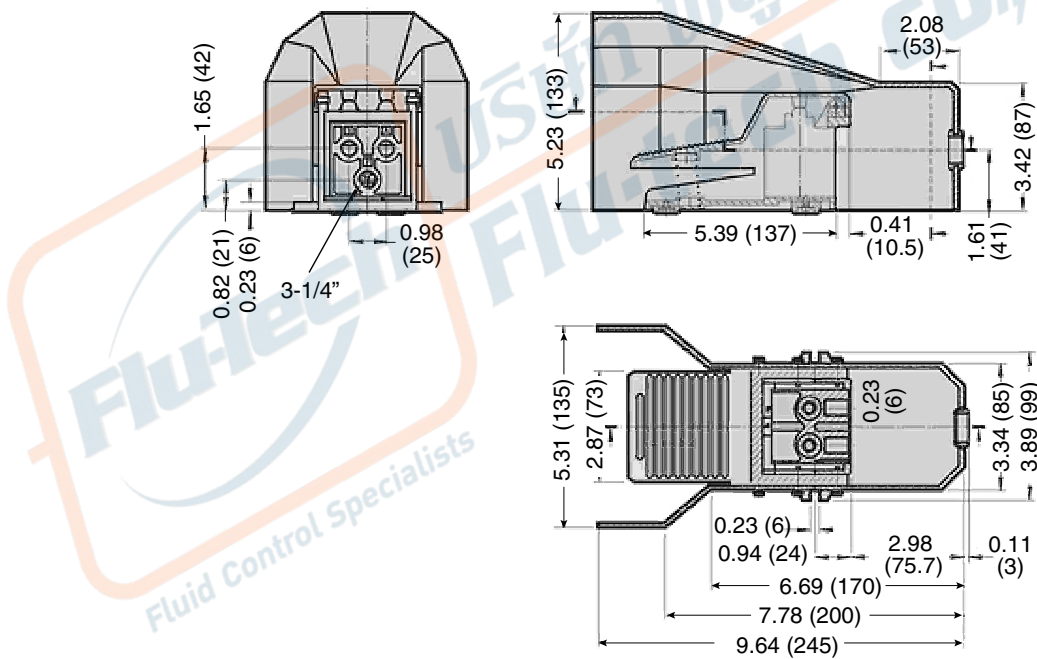
Note: The 3/2 and 4/2 treadle valves are not designed to be used to actuate clutch/brake mechanisms on mechanical power presses.



5-Way 2-Position Valves, Pedal				
Port Size	Operators	Valve Model Number	C <sub>v</sub>	Weight lb (kg)
		NPT Threads		
1/4	Non-locking foot pedal	RM4F210-08G	0.5	2.1 (0.9)
	Locking foot pedal	RM4F210-08LG	0.5	2.1 (0.9)
 5/2 Spring Return without Lock		 5/2 Detented with Lock		



### Valve Dimensions – inches (mm)



E1

E

*Convertible to a 3-Way function.*

*Note: Designed to meet OSHA 1910.217 Mechanical power presses, with protective guard to prevent accidental actuation.*

### STANDARD SPECIFICATIONS (for valves on this page):

Construction Design	Poppet	Operating Pressure	0 to 120 psig (0 to 8.2 bar)
Mounting Type	Line	Construction Material	Valve Body: Aluminum Guard: Plastic
Temperature	Ambient/Media: 23° to 140°F (-5° to 60°C)		
Flow Media	Filtered air		

