

## **PRODUCT INFORMATION**

# MECHANICAL OPERATED VALVES

### **11 SERIES**



### Mechanical Cam Valves Cam Roller & Plunger

#### Heavy-Duty 11 Series

2-Way 2-Position Valves, 2-Direction Cam Roller										
Port	Valve Model Number		C,	Average Response Constants**		Weight				
Size	NPT Threads	G Threads	υv	F In	-Out	lb (kg)			200	
1/4	1131A2001	D1131A2001	0.5	2.	5	1.0 (0.5)	1			
	ć	2-Direc Rol	N/a							
Port	Valve Mod	Valve Model Number		Average Response Constants*		- Weight				
Size	NPT Threads	G Threads	C <sub>v</sub>	In-Out	Out-Exh.	lb (kg)				
1/4	1133A2001	D1133A2001	0.5	2.5	3.2	1.0 (0.5	) 31	1.0		
		20								
Port	Valve Model Number		•	Average Response Constants**		Weight	2	• • • • • • •	10	
Size	NPT Threads	G Threads	C <sub>v</sub>	F In	-Out	lb (kg)			and the	
1/4	1131A2002	D1131A2002	0.5	2.	5	1.0 (0.5)				
		1-Direction	dia							
Port	Valve Model Number		С	C <sub>v</sub> F		Weight	12	Roller		
Size	NPT Threads	G Threads	υv	In-Out	Out-Exh.	lb (kg)	09 IL/M			
1/4	1133A2002	D1133A2002	0.5	2.5	3.2	1.0 (0.5)	3 1			
		2-Way	2-Pc	siti <mark>o</mark> n Valves	s, Plunger					
Port	Valve Mod	Valve Model Number Average Response Constants** Weight 10 2							-	
Size	NPT Threads	G Threads	C <sub>v</sub>	F In	-Out	lb (kg)				
1/4	1131A2003	D1131A2003	0.5	2.	5	1.0 (0.5)				
		3-Way	y 2-Pc	sition Valves	s, Plunger				d'a	
Port Size	Valve Model Number		C <sub>v</sub>	Average R <mark>e</mark> spon F		Weight		Plunger		
5120	NPT Threads	G Threads		In-Out	Out-Exh.	lb (kg)	╙─┨┰╶Ш╱┎┰╵╵			
1/4	113 <mark>3A</mark> 2003	D1133A2003	0.5	2.5	3.2	1.0 (0.5)	<sup>3</sup> 1			

\*\* 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.

2-Direction Roller 1-Direction Roller Valve Dimensions - inches (mm) Plunger Travel 0.05 to 0.10 (1.3 to 2.5) Travel 0.10 to 0.29 (2.5 to 7.4) Travel 0.07 to 0.25 (1.8 to 6.4) Port2 0.34 (8) dia. 4 places (outlet) 3.38 (86) Port 1 (inlet) 4.37 2.00 (51<del>)</del> 4.50 (114) (111) 0.78 ŧ (25) 1.56 (40) Ð ÷ 7 0.67 (17) \_1.82 → (46) +2.12 (54)→ 2.76 (70)→ Accessories

	Port	Thread Type	Model	Avg.	Dimensions inches (mm)		Weight	
Silencers	Size		NPT Threads	BSPT Threads	C <sub>v</sub>	Width	Length	lb (kg)
for 3-way Valves	1/4	Male	5500A2003	D5500A2003	2.1	0.9 (21)	2.2 (55)	0.1 (0.1)
Pressure Range: 0 to 290 psig (0 to 20 bar) maximum. Flow Media: Filtered a								tered air.

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

Construction Design	Poppet	Flow Media	Filtered air
Mounting Type	Side and bottom mounting flanges	<b>Operating Pressure</b>	5 to 150 psig (0.3 to 10 bar)
Temperature	Ambient/Media: -10° to 175°F (-23° to 80°C) For temperatures below 40°F (4°C) air must be free of water vapor to prevent formation of ice. For temperatures below -10°F (-23°C), consult ROSS.		Valve Body: Cast Aluminum

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