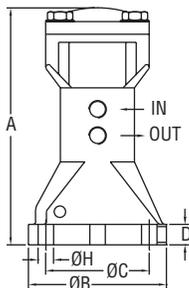


# PISTON VIBRATOR

Air Cushioned or Piston Vibrators



Model	A	B	C	D	H	IN/OUT
APV-X1	5-7/16 [138.11]	3-5/32 [80.17]	2-3/8 [60.33]	31/64 [12.30]	23/64 [9.13]	1/8 BSPT
APV-X2	6-35/64 [166.69]	3-15/16 [100.01]	2-61/64 [75.01]	41/64 [16.27]	7/16 [11.11]	1/4 BSPT
APV-X3	8-13/64 [208.36]	5-33/64 [140.10]	4-9/64 [105.17]	41/64 [16.27]	19/32 [15.08]	1/4 BSPT

The **Series APV Piston Vibrator** uses compressed air to push the piston from one side and cause vibration power. APV-C models are air cushioned to provide low noise, making it suitable for quiet area applications. APV-I models allow direct impact on the tank to help get rid of dust or material accumulated inside of pipes and tanks.

### FEATURES/BENEFITS

- High strength aluminum alloy housing
- Frequency and amplitude of vibration can be adjusted as needed
- Low frequency and direct impact models available

### APPLICATIONS

- Bin vents
- Bag houses
- Dust collectors

### SPECIFICATIONS

**Temperature Limit:** 212°F (100°C).

**Noise Level Range:** APV-C: 60-75 dBA; APV-I: 80-115 dBA.

**Supply Pressure:** 29 to 87 psi (2 to 6 bar).

**Air Consumption:** See model chart.

**Air Connection:** 1/8" BSPT female with 1/4" OD push to connect adapter on APV-C1 and APV-I1; 1/4" BSPT female with 1/4" OD push to connect adapter on APV-C2, APV-C3, APV-I2 and APV-I3. Also includes muffler for exhaust port.

**Housing Material:** Aluminum.

### HOW THEY OPERATE

There are air-breathing tubes located in both ends of the cylinder. Compressed air pushes the piston from one side to the other. Vibration power arises when the piston moves back and forth in the body. In APV-C air cushion at both ends produced by the to-and-fro motion will keep the piston from striking the body. Therefore, the piston will not produce much noise. In APV-I, air cushion at the top end is produced by the to-and-fro compression. This will keep the piston from striking onto the body top. The piston will strike directly on the bottom side of the body to produce a strong impact.

### MODEL CHART

Model	Frequency (V.P.M.) Pressure Input			Force lbf (N) Pressure Input			Air Consumption cfm (l/min) Pressure Input	Weight lb (kg)
	29 psi (2 bar)	58 psi (4 bar)	87 psi (6 bar)	29 psi (2 bar)	58 psi (4 bar)	87 psi (6 bar)		
APV-C1	1765	2308	2857	44 (195)	85 (380)	126 (560)	8.12 (230)	1.98 (0.9)
APV-C2	1333	1677	1875	62 (275)	119 (531)	161 (715)	8.79 (249)	4.19 (1.9)
APV-C3	1000	1200	1340	91 (404)	175 (780)	231 (1030)	9.50 (269)	9.92 (4.5)
APV-I1	1973	2885	3571	1818 (8086)	3044 (13542)	3996 (17776)	8.8 (250)	2.2 (1.0)
APV-I2	1744	2459	3000	3245 (14443)	4934 (21948)	6048 (26904)	9.5 (270)	4.6 (2.1)
APV-I3	1277	1875	1973	3470 (15434)	7799 (34692)	8276 (36816)	10.6 (300)	10.6 (4.8)

V.P.M. = vibrations per minute

Bin Vibrators/  
Aerators