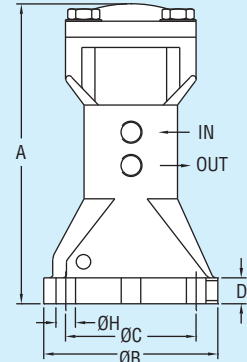


Piston Vibrator

Air Cushioned or Piston Vibrators



Model	A	ØB	ØC	D	ØH	Connection
APV-C1	5.43" (138 mm)	3.15" (80 mm)	2.36" (60 mm)	0.47" (12 mm)	0.79" (20 mm)	1/8"
APV-C2	6.54" (166 mm)	3.94" (100 mm)	2.95" (75 mm)	0.63" (16 mm)	0.94" (24 mm)	1/4"
APV-C3	8.19" (208 mm)	5.51" (140 mm)	4.13" (105 mm)	0.63" (16 mm)	0.94" (24 mm)	1/4"
APV-I1	5.43" (138 mm)	3.15" (80 mm)	2.36" (60 mm)	0.47" (12 mm)	0.79" (20 mm)	1/8"
APV-I2	6.54" (166 mm)	3.94" (100 mm)	2.95" (75 mm)	0.63" (16 mm)	0.94" (24 mm)	1/4"
APV-I3	8.19" (208 mm)	5.51" (140 mm)	4.13" (105 mm)	0.63" (16 mm)	0.94" (24 mm)	1/4"

Series APV-C Piston Vibrators are air cushioned to provide low noise. This makes it suitable for quiet area applications. It is a good solution to prevent clogs on tank walls and material delivery problems. It can also be applied on vibrating separators and conveyors.

Series APV-I impact version piston vibrators can help to get rid of dust or material accumulated inside of pipes or tanks. It allows direct impact on the tank with low specific gravity and high moisture materials inside. It also helps prevent material build-up, pipe clogs, and rust.

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.

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: BSPT female with NPT female adapter, see dimension chart. Also includes muffler for exhaust port.

Housing Material: Aluminum.

FEATURES

- The body is made of high strength aluminum alloy.
- APV-C: Low frequency vibration is the best solution to bridge-break.
- APV-I: Allows direct impact onto the target object to produce the optimum vibration.
- Frequency and amplitude can be adjusted as needed.
- Sudden Power on/off will not damage.
- Movement by air, easy operation, and no sparking. They can be installed in hazardous areas or high humidity work environments.

Model	Frequency (V.P.M.) Pressure Input			Force lbf (N) Pressure Input			Air Consumption	Weight
	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