



MARTIN® P-Series Pneumatic Piston Vibrators

Tough materials that are sticky, coarse, and high in moisture content require linear force to flow freely. Powerful **MARTIN® P-Series Pneumatic Piston Vibrators** provide the force that activates free flow of such materials.

BENEFITS

- **Economical**
Low initial cost, plus labor savings by eliminating pounding, poking, and sledging of hoppers, ensures material flow with a cost savings.
- **Minimal Maintenance**
Limited maintenance required for life of the vibrator when used with filtered and lubricated air.
- **Reduce Hopper Damage**
Reduce equipment damage caused by sledging and poking.
- **Versatility**
Variable control of force and frequency to meet a variety of material conditions.



PERFORMANCE DATA

Model	Starting	40 psi [2.76 bar]			60 psi [4.14 bar]			80 psi [5.51 bar]			db†	Weight lb (kg)	Inlet Size in. (mm)
		Speed VPM	cfm [L/sec]	Force lb (kg)	Speed VPM	cfm [L/sec]	Force lb (kg)	Speed VPM	cfm [L/sec]	Force lb (kg)			
With or without optional internal starter spring*													
P-1.25	4 (0.27)	4200	4.5 (2.12)	180 (82)	5000	6.3 (2.97)	230 (104)	5500	8.5 (4.01)	290 (132)	101	5 (2.27)	1/4 (6)
P-2	4 (0.27)	2100	6.4 (3.02)	260 (118)	2600	9.5 (4.48)	375 (170)	2800	13.0 (6.13)	490 (222)	103	16 (7.26)	1/4 (6)
P-3	6 (0.41)	1850	9.1 (4.29)	570 (258)	2000	17.0 (8.02)	810 (367)	2200	21.0 (9.91)	985 (447)	106	43 (19.50)	3/8 (10)
P-4	10 (0.69)	1500	22.0 (10.38)	1330 (603)	1750	25.0 (11.80)	2010 (912)	1900	42.0 (19.82)	2200 (998)	118	106 (48.08)	1/2 (13)
With optional noise reduction feature**													
P-1.25Q	4 (0.27)	2500	4.5 (2.12)	95 (43)	2800	6 (2.83)	130 (59)	3200	8 (3.78)	170 (77)	85	5 (2.27)	1/4 (6)
P-2Q	4 (0.27)	2000	6.0 (2.83)	190 (86.2)	2100	9 (4.25)	250 (114)	2200	11 (5.19)	300 (136)	87	16 (7.26)	1/4 (6)
P-3Q	6 (0.41)	1450	8.5 (4.01)	280 (127)	1600	15.0 (7.08)	390 (177)	1700	17 (8.12)	500 (227)	92	43 (19.50)	3/8 (10)
P-4Q	10 (0.69)	1000	20.0 (9.44)	590 (267)	1100	22 (10.38)	820 (372)	1150	42 (19.82)	1000 (453)	97	106 (48.08)	1/2 (13)

* A MARTIN® P-Series Pneumatic Piston Vibrator will operate in virtually any position once it is started. If adverse temperatures (150° to 250°F) prevail or if the vibrator is infrequently used or mounted horizontally, a piston starter spring is recommended. To order a MARTIN® P-Series Pneumatic Piston Vibrator with a starter spring, simply put an "S" at the end of the model number (example, P-1.25S).

† Decibels measured at 4 ft and 60 psi on a 10,000 lb test block.
The MARTIN® P-Series Pneumatic Piston Vibrator is also available in a single-impacting version. Simply designate "SI" at the end of the model number (example, P-1.25SI). The starter spring is standard with these models.

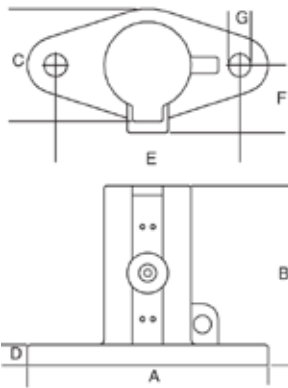
** When noise levels of the standard piston units are objectionable, specify the air-cushioned model. This noise reduction feature eliminates metal-to-metal impact, staying well within OSHA requirements. A "Q" in the model number of a MARTIN® P-Series Pneumatic Vibrator designates it is an air-cushioned unit (example P-1.25Q). All air-cushioned units are equipped with a piston starter spring to ensure instant starting.

All MARTIN® P-Series Pneumatic Vibrators must be operated by filtered and lubricated air.

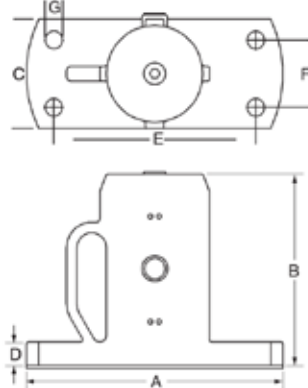
DIMENSIONS—in. (mm)

Model	A	B	C	D	E	F	G	H	J	K
P-1.25	5.88 (149)	4.38 (111)	2.75 (70)	0.50 (13)	4.49 (114)	1.65 (42)	0.56–9/16 (14)	—	—	—
P-2	9.50 (241)	6.50 (165)	4.00 (102)	0.69 (18)	7.50 (191)	2.25 (57)	0.69–11/16 (18)	—	—	—
P-3	10.00 (254)	8.50 (216)	5.00 (127)	1.00 (25)	7.75 (197)	3.25 (83)	0.93–15/16 (24)	—	—	—
P-4	15.25 (387)	11.36 (289)	6.50 (165)	1.40 (36)	12.00 (305)	4.00 (102)	1.06–1-1/16 (27)	—	—	—
PR-3™	8.00 (203)	8.50 (216)	5.10 (130)	1.00 (25)	5.75 (146)	3.38 (86)	0.93–15/16 (24)	13.00 (330)	8.00 (203)	4.50 (114)

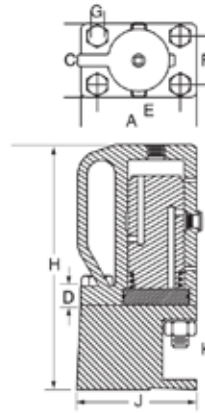
P-1.25 and P-2 Models



P-3, P-3SI, P-3Q, P-3QM and P-4 Models



P-R-3B Railcar Models



See the operator's manual for application information and mount selection.

MARTIN® PR-3™ Portable Railcar Vibrator



shown with male wedge bracket

Easily handled by one person to unload bulk solids in less time with less work.

Specify PR-3B for vibrator with male wedge bracket or PR-3 for vibrator only.



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QUALITY MANAGEMENT SYSTEM
CERTIFIED BY DNV

