

# Martin® AP5 Series Piston Vibrators



## NOTES

- The AP5 Series piston vibrator without spring must be mounted with a minimum slope of 15 degrees below horizontal.
- If mounted at less than 15 degrees below horizontal, order with starter spring by adding an S after the model number.
- The AP5 Series is also available in single impacting. Designate SI at the end of the model number.
- The starter spring is standard in the single impacting models.
- Air cushioned units are available by designating a Q at the end of the model number. This reduces noise by eliminating metal to metal impact.
- All air cushioned units are equipped with starter spring.
- All Martin AP5 Series vibrators must be operated by filtered and lubricated air.

## BENEFITS

- **Economical**  
Low initial cost, plus cost savings by eliminating the pounding, poking, and hammering of hoppers, ensures material flow with cost savings.
- **Minimal Maintenance**  
Limited maintenance required for life of the vibrator when used with a filtered and lubricated air supply.
- **Versatility**  
Variable control of force and frequency to meet a variety of material conditions.
- **Slotted Mounting Holes**  
The AP5 Series can be a bolt in direct replacement for nearly all piston vibrators in the marketplace.
- **Exhaust Mufflers**  
The AP5 Series comes standard with exhaust mufflers to attenuate the exhaust noise and aid in preventing dust and dirt from entering the vibrator.

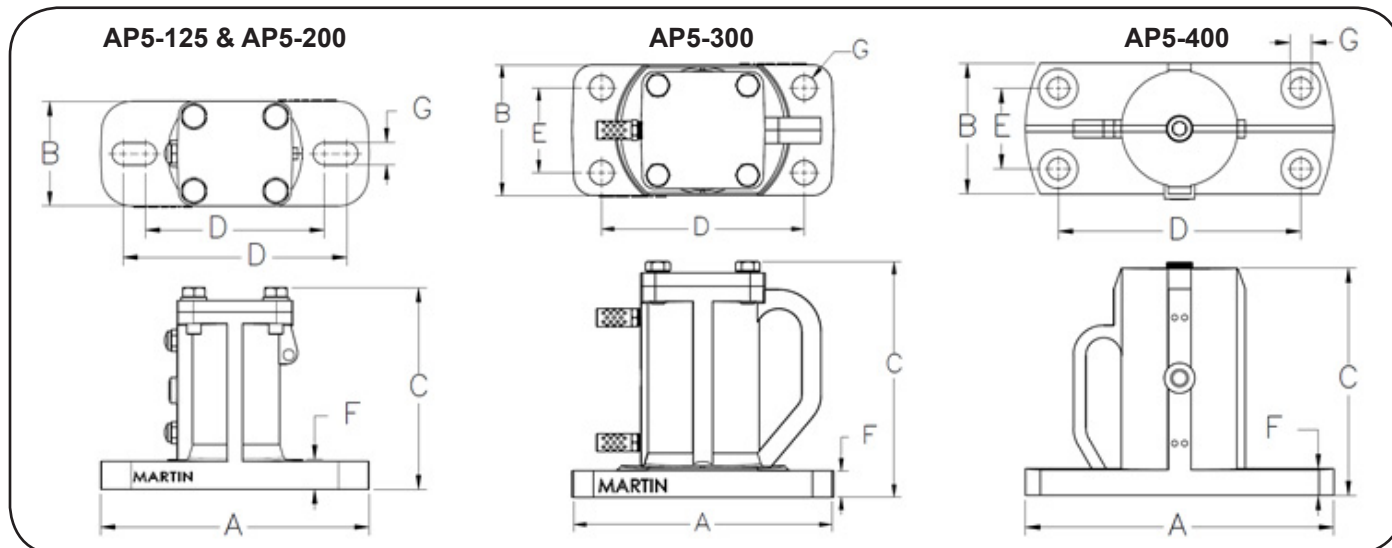
## FEATURES

- Uni-Body Construction
- Hardened pistons
- Low air consumption
- Produces uniform directional force
- Optional
  - air cushioned non-impacting

## Specify Martin for:

- Cost effective solutions
- Expert technical assistance
- Complete service and support

# TECHNICAL DATA SHEET



## OVERALL DIMENSIONS—in. (mm)

| Model   | A           | B         | C           | D                   | E         | F         | GØ        | No. |
|---------|-------------|-----------|-------------|---------------------|-----------|-----------|-----------|-----|
| AP5-125 | 5.87 (149)  | 2.75 (70) | 4.95 (126)  | 3.75–4.75 (95–121)  | —         | 0.66 (17) | 0.57 (15) | 2   |
| AP5-200 | 9 (229)     | 3.5 (89)  | 6.75 (172)  | 6.00–7.50 (152–191) | —         | 1 (25)    | .75 (19)  | 2   |
| AP5-300 | 10 (254)    | 5 (127)   | 9 (229)     | 7.75 (197)          | 3.25 (83) | 1 (25)    | .93 (24)  | 4   |
|         |             |           |             | 8.31 (211)          | 2.64 (67) |           |           |     |
| AP5-400 | 15.25 (387) | 6.5 (165) | 11.36 (289) | 12 (305)            | 4 (102)   | 1.4 (36)  | 1.06 (27) | 4   |

## PERFORMANCE DATA

| Model    | Piston Size In. | 40 PSI |             |               | 60 PSI |             |               | MAX 80 PSI |             |               | dB  | Weight lb (kg) | Inlet Size in. (mm) |
|----------|-----------------|--------|-------------|---------------|--------|-------------|---------------|------------|-------------|---------------|-----|----------------|---------------------|
|          |                 | VPM    | CFM (L/sec) | Force lb (kg) | VPM    | CFM (L/sec) | Force lb (kg) | VPM        | CFM (L/sec) | Force lb (kg) |     |                |                     |
| AP5-125  | 1.25            | 3200   | 10 (4.72)   | 104 (47)      | 4500   | 12.5 (5.90) | 206 (93)      | 5000       | 15 (7.08)   | 255 (116)     | 101 | 5 (2.27)       | 1/4 (6)             |
| AP5-125Q | 1.25            | 2700   | 10 (4.72)   | 68 (31)       | 3000   | 12.5 (5.90) | 84 (38)       | 3500       | 15 (7.08)   | 114 (52)      | 85  | 5 (2.27)       | 1/4 (6)             |
| AP5-200  | 2               | 2640   | 9 (4.25)    | 175 (79)      | 3180   | 14 (6.61)   | 254 (115)     | 3600       | 18 (8.50)   | 325 (147)     | 103 | 18 (8.2)       | 1/4 (6)             |
| AP5-200Q | 2               | 2200   | 12 (5.66)   | 110 (50)      | 2600   | 17.5 (8.26) | 155 (70)      | 2800       | 20 (9.44)   | 180 (82)      | 87  | 18 (8.2)       | 1/4 (6)             |
| AP5-300  | 3               | 2400   | 22 (10.38)  | 899 (408)     | 2800   | 25 (11.80)  | 1224 (555)    | 3200       | 35 (16.52)  | 1699 (771)    | 106 | 43 (19.5)      | 3/8 (10)            |
| AP5-300Q | 3               | 1400   | 25 (11.80)  | 284 (129)     | 1800   | 32 (15.10)  | 469 (213)     | 2000       | 40 (18.88)  | 506 (230)     | 92  | 43 (19.5)      | 3/8 (10)            |
| AP5-400  | 4               | 1500   | 22 (10.38)  | 1330 (603)    | 1750   | 25 (11.80)  | 2010 (912)    | 1900       | 42 (19.82)  | 2200 (998)    | 118 | 103 (48.08)    | 1/2 (13)            |
| AP5-400Q | 4               | 1000   | 20 (9.44)   | 590 (267)     | 1100   | 22 (10.38)  | 820 (372)     | 1150       | 42 (19.82)  | 1000 (454)    | 97  | 106 (48.08)    | 1/2 (13)            |

## ACCESSORIES

| Part Number | Description   |
|-------------|---|
| See Chart   | channel mount                                       |
|             | mounting kit  |
| 32271       | safety cable assembly                               |
| 36343-NC    | solenoid valve 115/1/60, 1/2" npt                   |
| 14760-PR    | filter, regulator, lubricator combination, 1/2" npt |
| 39504       | control line kit                                    |
| 38902-20    | on/off cycle timer 115/1/60                         |
| 220985      | universal trailer hopper mount bracket kit          |
| 14824-PR    | ball valve 1/2 npt                                  |

| Model   | Channel Mount Part Number | Mounting Kit Part Number |
|---------|---------------------------|--------------------------|
| AP5-125 | 29928-01                  | 29810                    |
| AP5-200 | 29928-02                  | 29811                    |
| AP5-300 | 29928-03                  | 29812                    |
| AP5-400 | 29928-04                  | 29813                    |



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