Air-Relief Valve PART#5613ARV
Installation and Calibration Instructions

The MD Air Relief Valve is designed to protect the motor in the unlikely event of long term blockage of adequate air flow. Properly installed it will open and allow sufficient air to cool the motor when the power unit is operating at a "sealed" opening.
Each Air Relief Valve included with an MD power unit is designed and calibrated for that specific power unit motor. Care should be taken to only use air relief valves that are properly calibrated.

Installation:

MD recommends the installation of an Air Relief Valve whenever a thru-flo motor is employed. On appropriate 14" diameter MD Mfg units, the Air Relief valve comes installed on the mid-right side of the can. For MD's 11" diameter units it should be attached by the installer on the opposite neck across from the trash intake. Note that for closed bag systems it is acceptable to mount the Air Relief Valve in the neck opposite of the intake but never for an open bag configuration.

Note: DO NOT INSTALL the Air Relief Valve upstream of the filtering system! This will negate the effect of the product! It must be installed where it does not have any major filtration between the Air Relief Valve and the motor.

The double-nut and threads should be installed away from the power unit.

Calibration:

If you receive an air relief valve with a power unit from the MD Manufacturing factory, it is already pre-calibrated and these steps are not necessary.

1. Take a sealed water lift reading of the power unit at the trash intake neck without the Air Relief Valve and record the value.
2. Loosen the first nut from the double-nut and tighten or loosen the inner nut to increase or decrease the tension on the spring and thus increase or decrease the activation point of the Air Relief Valve.
3. Place the water lift gauge on the trash intake neck (the opposite neck from the Air Relief Valve installed on 11" diameter units).
4. Set the Air Relief Valve to release/activate at 10 inches less water lift than at the sealed measurement of Step 1.
5. Tighten the double-nut back down against the adjustment nut.

Under normal operating conditions the Air Relief Valve should not allow any air flow to escape. With calibration it should activate when the water lift gets within 10 inches of the motor maximum water lift capability.

If you have questions please call MD at 1-800-525-2055.