

Maintenance & Operating Instructions

For

Dixon Bayco

2180 AND 3180 AIR RELIEF VALVES

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The Right Connection®

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To properly operate and maintain your Dixon Bayco 2180 & 3180 air relief valve the following instructions are provided. Please read with care as improper handling or maintenance may cause a hazardous condition.

Dixon Bayco air relief valves are designed and built to provide accurate and consistent operation; however periodic inspection, cleaning, and maintenance of these valves is required to ensure continued trouble free service.

Dixon Bayco air relief valves consist of a spring-loaded poppet valve that seals against a rigid annular valve seat. When the system pressure reaches the valve opening pressure the poppet lifts and system air passes under the poppet and out to atmosphere. When a sufficient volume of air has been relieved the system pressure will drop and the poppet will reseal.

When these valves are used in applications that subject them to particulate laden air, there is potential for contamination of the valve, larger particles such as grains, plastic pellets etc. can get trapped between the valve seating surfaces. Applications involving fine particles such as cement, fly ash, lime, flour, etc. can result in a cementing of hardened product on the valve seat or poppet surface can occur. **These situations can prevent the valve from fully reseating, prevent it from opening and can lead to early opening or leakage from the valve.**

To prevent this occurring we advise that air/vacuum relief valves be regularly inspected, cleaned and maintained. At a minimum the valve seat and poppet sealing surface should be inspected and cleaned, and the small air vent hole in the top casting checked for blockage. **The inspection, cleaning, and maintenance should be carried out with the valve removed from the system to a clean environment.**



Do not modify your Dixon Bayco air relief valve for any reason. It can result in a hazardous condition due to operating difficulties or operation malfunction. Disassembly or tampering will void the product warranty.

Installation

1. Prior to installation, clean any dirt or foreign matter from connection surfaces.
2. Install air relief valve in positions ranging from vertical (0°) to horizontal (90°). The opening pressure will be reduced if the valve is not mounted vertically. Do not install valve in inverted position.
3. Install air relief valve with exhaust area positioned so exhaust vents safely (preferably down). Downward venting” prevents dirt or debris from entering the valve during travel.
4. Threaded versions only, removable thread locking compound is recommended for mounting.
5. Threaded versions only, thread the valve into place by hand and tighten using a crescent wrench (or equivalent) across the hex flats.
6. Victaulic grooved, and Cam & Groove connection models come with a lug for attaching a security chain.

Care and Handling

Dixon Bayco air relief valves are tested at the factory and are in proper working condition when shipped. Air relief valves are designed to be tough and to provide long service with reasonable care and handling.

Operation and Maintenance Instructions

Weekly visual inspection of the valve is recommended.

1. Ensure that the valve body and exhaust vents are kept clear of buildup.
2. Ensure that exhaust vents remain clear of all obstructions.
3. Inspect the valve regularly to ensure connection tightness. Excessive blower vibration may cause valve to loosen over time.
4. The Dixon Bayco air relief valve is assembled with tamper resistant screws and is pre-set at the factory to customer requirements. Any attempt to disassemble or adjust settings for any reason will void the manufacturer’s warranty.

Dixon Bayco Warranty

For complete warranty information, please refer to the latest Dixon catalog.