

No Loss Air Drain Valves

IMPROVE YOUR FACILITY'S AIR QUALITY, EXCESS MOISTURE, RELIABILITY AND OPERATING EXPENSES



Let us help you improve, manage and control your compressed air. We also can help you pay for a new, no-loss air drain valve with a \$200 Xcel Energy rebate.

How does a no-loss air drain valve work?

No-loss air drain valves, also known as zero-loss drain traps, or no loss drains, continuously measure the presence of condensate and purge it only when and for as long as necessary. Removing condensate is important to your air quality levels required by your equipment.

No-loss drains expel condensate from compressed air systems, with no associated loss of compressed air. They typically are installed at the compressor, air dryer, filter, storage tank, or at any point in the piping where moisture might collect.

No-loss drains open a valve only when signaled by the condensate level control, making the no-loss drain a more efficient option. Timed drains, an alternative to no-loss drains, use a timer, which is primarily set to drain under the worst-case condensation conditions and therefore often releases valuable compressed air along with condensate.

Benefits:

- Improves air quality
- Eliminates the need for periodic adjustments of interval and cycle times often associated with timed drains
- Eliminates clogging and pressure loss associated with float operated valve
- Reduces energy cost by eliminating air purge
- Lowers maintenance

Getting started is as easy as 1-2-3

1. Purchase qualifying equipment
2. Complete your rebate application and attach it your equipment invoice
3. Mail your documents to:

Xcel Energy – Marketing Approval
PO Box 829
Minneapolis, MN 55401

Visit xcelenergy.com/rebates for more program information or contact us at **1-800-481-4700** or email us at energyefficiency@xcelenergy.com

This is a prescriptive rebate offer is only available to Minnesota electric business customers for qualifying equipment invoiced on or after Jan 1, 2010. Please read the rebate application for terms and conditions and other pertinent program information. This program's rules, requirements and offer are subject to change at any time. The changes will be posted at xcelenergy.com/rebates. Timed drains are not eligible for rebates.

How to calculate your air loss

Please use the calculation below to estimate your compressed air savings.*

$$\frac{\text{Time on (sec)} \times \text{compressed air hours of operation}}{\text{Time off (min)}} \times 0.02125 \times \text{\# of Electronic Solenoid drains} = \text{Estimated Savings/yr}$$

Example**:

If you have ten electronic solenoid drains (ESDs) running 7,000 hours annually on a compressed air system that are timed on for 10 seconds and timed off for 5 minutes, you could save an estimated \$2,975 annually by replacing the equipment with no loss are drain valves.

$$\frac{10 \text{ sec on} \times 7,000 \text{ compressed air operating hours}}{5 \text{ min off}} \times 0.02125 \times 10 \text{ ESD} = \$2,975$$

*Assumptions: There is 85 CFM when the drain is operating with 100 psig on the system at \$0.25 per 1,000 CF of compressed air. The Best Practices for Compressed Air System uses a \$0.18 to \$0.32 range. Your compressed air system can properly adjust and capture the reduction in air loss.

**This example is an estimate only and should be used for illustrative purposes only. Your results and savings may vary.