



VENT GAS RECOVERY FOR METER & REGULATOR STATIONS



ARE YOU PREPARED?

New state regulations require that, "No natural gas actuated pneumatic devices shall vent natural gas at a rate greater than six (6) standard cubic feet per hour (scfh)." Pending federal regulations will require a methane and VOC bleed rates of zero.

One ZD3 MRS system can efficiently manage all vented gases originating from valve operators within an entire station, irrespective of their quantity or dimensions.



DIFFERENTIAL DRIVEN DRAWDOWN

\$ Blowdown reduction is one of the highest ROI activities to mitigate methane emissions.

BENEFITS

- Lower total cost of operations
 - Avoid emissions credit expenditures and compliance fees
 - Avoid loss of product
 - Avoid external electrical power or ancillary equipment costs of other compression alternatives
 - Avoid costs of incremental and continual regulatory changes
- Compliance for the zero-emission future
- Reduce risk associated with venting gas
- Enhance reputation and community perception

FEATURES

- Zero external power requirement—driven by station gas differential pressures (dP); 100 psi dP standard
- 0–1480 psig
- Intrinsically safe design (Class I, Div. 1)
- No inlet gas regulation requirements
- High-speed drawdowns—scalable in increments of 1 acfm
- Tolerates liquid ingestion
- Simple mechanical installation
- Redundant and adjustable pressure control protection systems

EASY SYSTEM INTEGRATION!

HOW IT WORKS

1. High-pressure gas from station's upstream header expands through ZEVAC D3 unit, flowing to lower pressure downstream header this differential pressure provides the power for the unit to operate.
 2. All vent lines in the station are routed to ZEVAC D3 unit intake.
 3. When pressure is detected on the vent lines, ZEVAC D3 activates, capturing the vent gas and compressing it into the downstream lower pressure side of the station.
- ★ All ZD3 units are equipped with auxiliary air-drive capability when gas dP is unavailable.

