Energy Savings And Process Protection

Compressed air systems can be among the most critical and most wasteful utilities. Systems are typically operated at pressures higher than required to ensure sufficient line pressure for all demand conditions. Running systems in this manner increases energy consumption due to leaks, makes compressors work harder and raises operating costs. In addition, wide fluctuations in air pressure may compromise product quality and process repeatability.

Installation of a ZEKS XpandAir™ in conjunction with adequate supply-side storage allows air to be stored at a higher pressure and delivered to the system at the user’s minimum required pressure. This reduces compressed air loss through leaks and permits compressors to operate at peak efficiency. XpandAir’s™ continuous dynamic response to varying air system demand ensures product and process consistency.

XpandAir™ offers the user the unique ability to select between three modes of operation: Forward Control of pressure and flow; Backward Control to protect critical processes; Combination Control for demand-side control with supply-side protection.

The XPE XpandAir™ Control Solution:

- Lower Overall System Pressure
- Optimum Air Compressor Operation
- Unique Forward Control, Backward or Combination Control Operation Modes
- Constant, Precise System Air Pressure
- Minimum Waste Through Air Leaks
- Prioritization to Protect Critical Processes
- Reduced Air System Operating Cost

See reverse side for Technical Specifications
XPE XpandAir™ Features:

- **Modbus Communication-Ready** - Network communications capability permits remote monitoring and control
- **Remote Operation** - Activation of setpoints and valve position from a remote relay contact, PLC, or other device
- **Switchable Fail-Open or Fail-Closed Operation** - Protects either upstream or downstream processes in the event of power loss
- **Fault Code Storage** - Access to stored fault codes facilitates troubleshooting
- **NEMA 12 Enclosure** - Includes UL/cUL Listed electrical panel; Complete mounted and wired assembly
- **Three-Valve Bypass** - Permits uninterrupted flow while XpandAir™ is serviced or maintained
- **Forward, Backward and Combination Control** - Unparalleled flexibility for supply-side and demand-side pressure control

**Technical Specifications**

<table>
<thead>
<tr>
<th>Model</th>
<th>Connection</th>
<th>Width (in)</th>
<th>Depth (in)</th>
<th>Height (in)</th>
<th>Min Flow* (1 psid)</th>
<th>Max Flow* (1 psid)</th>
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<td>2” FLG</td>
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* Flow based on 110 psig inlet pressure to valve.

MAWP: 200 psig, Maximum Operating Temperature: 150°F. Control air pressure to filter/regulator must be 80-150 psig. Appropriate storage is critical for proper XpandAir operation.