APPLICATION DATA

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APCO ASU COMBINATION AIR VALVES SOLVE PROBLEMS CAUSED BY PIPELINE GREASE

APCO Single Body Combination Air Valves (ASU) from DeZURIK are designed with innovations to operate effectively on pipes filled with fluids containing grit, solids and grease. When these materials get inside air valves, the grease coagulates and can render some air valves inoperable in just weeks or months.

Design Features for Difficult Grease Applications

Designed to keep the combination air valves operating longer in difficult grease applications, the APCO ASU valve has several new features. The valve features an oversized float designed to be buoyant in grease, keeping dirty fluid levels low. The upper body shape includes a splash reduction ring and an air compression chamber to further limit fluid level and restrict solids interference. In addition, there are no linkages that can foul in dirty service applications.





APCO ASU Combination Air Valves are made of 316 stainless steel and are available in 1-6" sizes with an operating range of 2 to 150 psi, or an extended range of 2 to 300 psi. They are available with flanged or threaded ends and meet the requirements of AWWA C512.

Compact, Light Weight Design

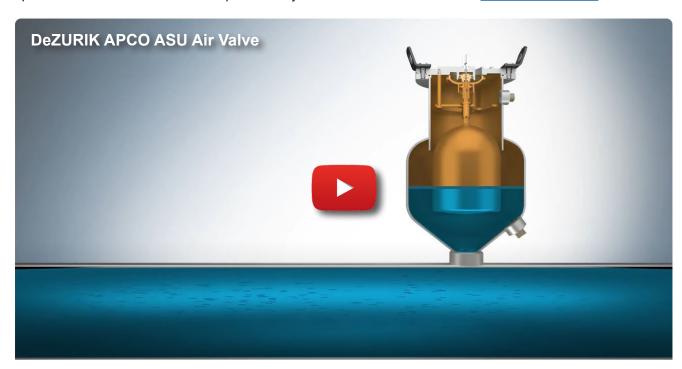
Lighter than traditional cast iron valves, a 2" ASU combination valve weighs 40 pounds versus valves weighing up to 100 pounds. It is shorter than traditional valves – 20" versus 30" or more in height.

Combination Valve for Filling & Draining

Combination air valves handle air in a pipe two ways. During filling or draining a pipe, large amounts of air needs to be let out or in quickly, or damage such as pipe collapse can occur. During normal operating conditions, air forms naturally in flowing liquids and small amounts of air must be released so it doesn't collect at high points in the pipeline, reducing or preventing liquid flow, among other problems.

The inlet and outlet are the same size on the ASU, eliminating restrictions that occur in other valves. It assures the ASU is protecting pipes from vacuum collapse.

Learn more about the patented design of the ASU Combination Air Valve features multi-stage air release operation and air/vacuum service provided by the Air/Vacuum Disc on this <u>informational video</u>.



Benefits of Dual-Range Air Release Capacity

The ASU has dual-range air release capacity and pipe pressure does not affect orifice sizing. The benefit is that one valve size handles a wide range of capacities and pressures. Often, one valve size can be used in the entire pipeline. Operators like the fact that when multiple valves of various sizes are removed from the pipe for cleaning and maintenance, they no longer have to record their location, like they do with traditional air valves. Traditional air valves must have their orifice sizes selected specifically for each location, so installing them in the wrong location is a problem. With the DeZURIK ASU Combination Air Valve with dual-range air release, that problem has been eliminated.