

**APCO VACUUM RELIEF/AIR INLET VALVES (AVR)
SUGGESTED SPECIFICATION**

APPLICATION DATA 1500.01-2
April 2023
Supersedes December 2015



Vacuum Relief/Air Inlet Valves shall be APCO model AVR 1500A/1500AC as manufactured by DeZURIK, Inc.

The Flanged Type Vacuum Relief/Air Inlet Valve (Body Style 1500A) shall have globe type body with integrally cast flanged ends and shall consist of a body, cover, plug, seat, stainless steel spring, and hood or cap. The valve shall have a cross-sectional inflow area 10% greater than equivalent pipe size for full vacuum relief protection during draining, pipeline rupture or water column separation. The resilient seat shall be retained in the body by a cover to ensure positive shut-off. The plug shall be center guided on both ends to prevent jamming. The plug shall be normally closed, by means of a stainless spring. The valve shall open when a vacuum/pressure differential exceeds 0.25 psi (2 kPa). Valve internals shall be replaceable without removing the valve from the line.

Combination Vacuum Relief/Air Inlet and Air Release Valve (Body Style 1500AC) shall have a double body and double orifice. The large orifice shall be the Body Style 1500A with an air release valve.

The air release valve shall automatically release small pockets of air which accumulate at the high points of a system after it is filled and under pressure.

Air Release Valve shall have the ability to open against internal pressure because it has a small orifice and a leverage mechanism which multiplies the force of the float. This force must be greater than the internal pressure across the orifice in order to open the valve when a pocket of air needs to be vented. Valve needle and seat shall be replaceable and resilient seat seals shall provide drop tight shut off to the full valve pressure rating.

Two Year Warranty shall be provided on valves by the manufacturer for defects in materials and workmanship from the date of shipment.