

DEEP WELL SERVICE KINETIC AIR/VACUUM VALVE

1/2" through 4" Size with Throttle Device



FIG. 933

DEEP-WELL SERVICE

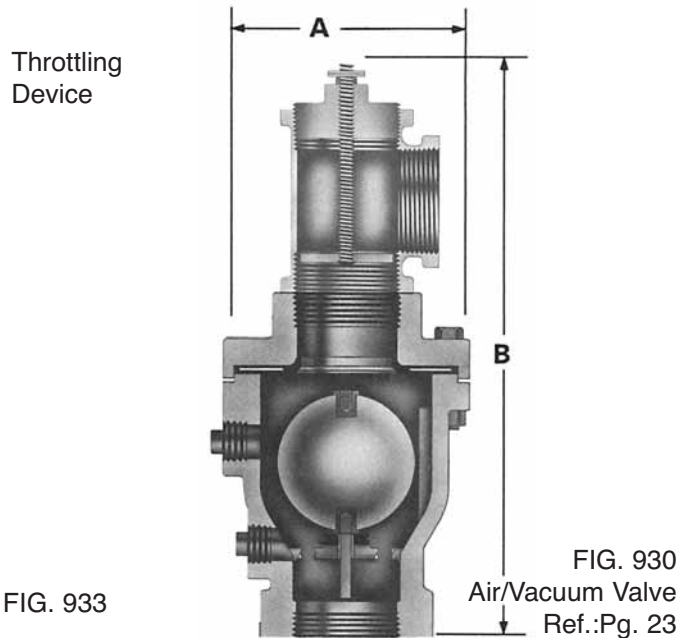


FIG. 933

FIG. 930
Air/Vacuum Valve
Ref.:Pg. 23

GENERAL DIMENSIONS

INLET (NPT)	1/2"	3/4"	1"	2"	3"	4"
OUTLET (NPT)	1/2"	3/4"	1"	2"	3"	4"
A (SQ.)	3-7/8"	3-7/8"	3-7/8"	5-3/8"	6-5/8"	8-1/4"
B (MAX.)	11-7/8"	12-5/8"	13-5/8"	17-1/2"	23-3/4"	28-1/4"
WEIGHT (LBS.)	15	15	15	28	50	100

ENGINEERING SPECIFICATION

The DEEPWELL SERVICE Air/Vacuum Valve shall employ the KINETIC principle to automatically exhaust controlled quantities of air at pump start-up and to allow air to re-enter during draining or when a negative pressure occurs. Valves shall be designed to exhaust air up to sonic velocity without blowing shut. Valve shall be complete with a throttle device installed on the outlet to allow control of the air discharge rate and pressure and column ascent rate.

The inlet shall be the nominal size of the valve and the outlet shall be the same size as the inlet. The float shall be spherical, be capable of withstanding a test pressure of 1000 psig and shall seal against a renewable resilient seat.

The body and cover shall be constructed of cast iron conforming to ASTM A126 Class B. The float shall be made of stainless steel.

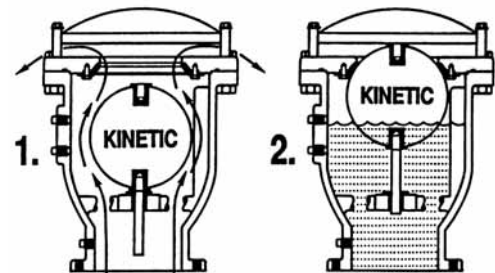
KINETIC DEEPWELL SERVICE Air/Vacuum Valves shall be as manufactured by GA Industries, Inc., their Figure 933 (formerly Figure GH21K-T).

PARTS LIST

1. BODY - Malleable Iron
2. PIPE PLUG - Steel (Commercial)
3. THREADED ROD - Steel Grade 2
4. JAM NUT - Steel Grade 2
5. SPRING PIN - Stainless Steel
6. DISC - Steel (Commercial)
7. NIPPLE - Steel (Commercial)

ENGINEERING DATA

Kinetic Operating Principle



1. During the exhausting sequence, the air flowing around the buoy ball produces a resultant downward force which maintains the ball in the open position.
2. The buoyant force of the ball will seal the exhaust orifice when water reaches the ball.

Pressure Rating:

- NPT Inlet Body rated to 300 psi WOG; tested to 450 psi.
- CL.125 FLG Inlet Body rated to 200 psi WOG; tested to 300 psi.
- CL.250 FLG Inlet Body rated to 400 psi WOG; tested to 600 psi.
- Ball Float tested to 1000 psi.

Connections:

- NPT Inlet x NPT Outlet, STANDARD, 1/2" through 3" size.
- CL.125 FLG Inlet x NPT Outlet, Standard, 4" size.
- CL.125 FLG Inlet x NPT Outlet, Optional, 2" and 3" sizes.
- CL.250 FLG Inlet x NPT Outlet, Optional, 2", 3" and 4" sizes.

FOR SIZING AND LOCATING SEE
PAGES 36-37.

FOR THROTTLING DEVICES ON VALVES
LARGER THAN 4", CONSULT FACTORY.