

HIGH CAPACITY COMPOUND LEVER

Pressure Type Air Release Valve



FIG. 922

HI-CAPACITY AIR RELEASE

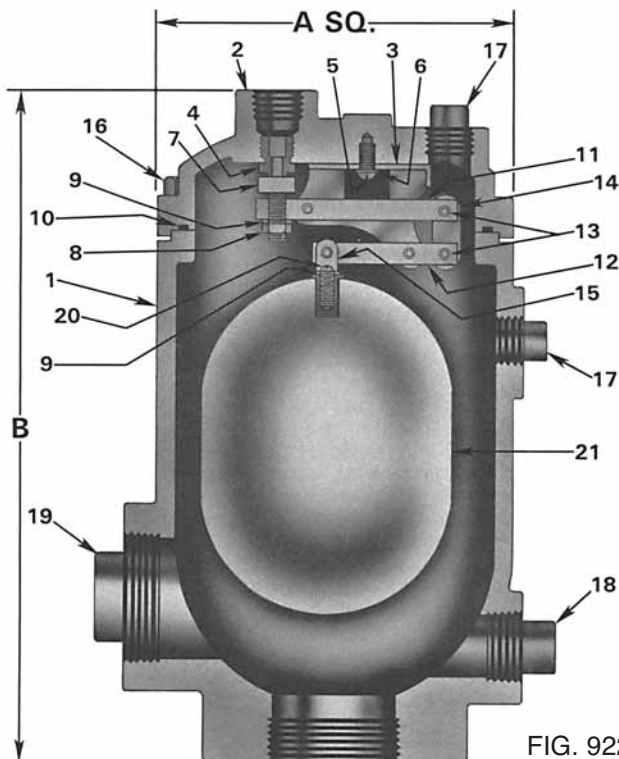


FIG. 922

GENERAL DIMENSIONS

VALVE (INLET)	VALVE (OUTLET)	A (SQ.)	B (HEIGHT)	WEIGHT (LBS.)
2" NPT	1/2" NPT	6-3/8"	12"	40
3" NPT				

ENGINEERING SPECIFICATION

The Air Release Valve shall be float operated and shall incorporate a compound lever mechanism to enable the valve to automatically release accumulated air from a fluid system while that system is pressurized and operating.

The Air Release Valve shall close drop tight, incorporating an adjustable Buna-N orifice button. All internal metal parts shall be capable of withstanding a test pressure of 1000 PSIG. The linkage/lever mechanism shall be able to be removed from the valve without disassembly of the mechanism, and shall be designed to prevent jamming.

The body and cover shall be of cast iron conforming to ASTM A126 Class B, and shall be designed to withstand a test pressure of 450 PSIG.

The Air Release Valves shall be as manufactured by GA Industries, Inc., their Figure 922 (formerly Figure 2-LAR and 3-LAR).

PARTS LIST

1. BODY - Cast Iron A126 Class B
2. COVER - Cast Iron A126 Class B
3. LEVERAGE BRACKET - 316 Stainless Steel
4. ORIFICE - 316 Stainless Steel
5. BRACKET CAP SCREWS - 18-8 Stainless Steel
6. BRACKET LOCKWASHERS - 18-8 Stainless Steel
7. ORIFICE BUTTON - 18-8 Stainless Steel
8. HEX NUT - 18-8 Stainless Steel
9. LOCKWASHER - 18-8 Stainless Steel
10. O-RING - Buna-N
11. LEVERAGE ARM - 316 Stainless Steel
12. FLOAT ARM - 316 Stainless Steel
13. COILSPRING PIN - 302 Stainless Steel
14. VALVE LINK (Air Release) - 316 Stainless Steel
15. PIVOT LINK - 316 Stainless Steel
16. FLOAT CAP SCREW - 18-8 Stainless Steel
17. PIPE PLUG 1/2" NPT - Steel (Commercial)
18. PIPE PLUG 1" NPT - Malleable Iron
19. PIPE PLUG 2" NPT - Cast Iron
20. FLOAT CAP SCREW - 18-8 Stainless Steel
21. FLOAT BALL - 316 Stainless Steel

ENGINEERING DATA

Pressure Rating:

Valve body rated 300 psi WOG,
tested to 450 psi.
Float tested to 1000 psi.

Working Pressure:

10-150 psi with 3/8" orifice
(Standard-Fig. 922)
10-300 psi with 7/32" orifice
(Optional-Fig. 922-H)

CONSULT FACTORY IF OPERATING
PRESSURE IS LESS THAN 10 PSI.

Maximum Venting Rate:

Fig. 922 @ 150 psi with 3/8" orifice =
234.8 SCFM
Fig. 922-H @ 300 psi with 7/32" orifice =
152.6 SCFM

FOR SIZING AND LOCATING SEE PAGES
16-17. OTHER ORIFICES AVAILABLE;
CONSULT FACTORY.

Where to Install Air Valves:

1. Peaks
2. Increased Down Slope
3. Decrease in Upward Slope
4. Long Ascents
5. Long Descents
6. Long Horizontals
7. Pumps
8. Large Valves, Cylinders and Piping Loops