

# COMPOUND LEVER

## Pressure Type Air Release Valve



FIG. 920

AIR RELEASE VALVES

### COMPOUND LEVER AIR RELEASE

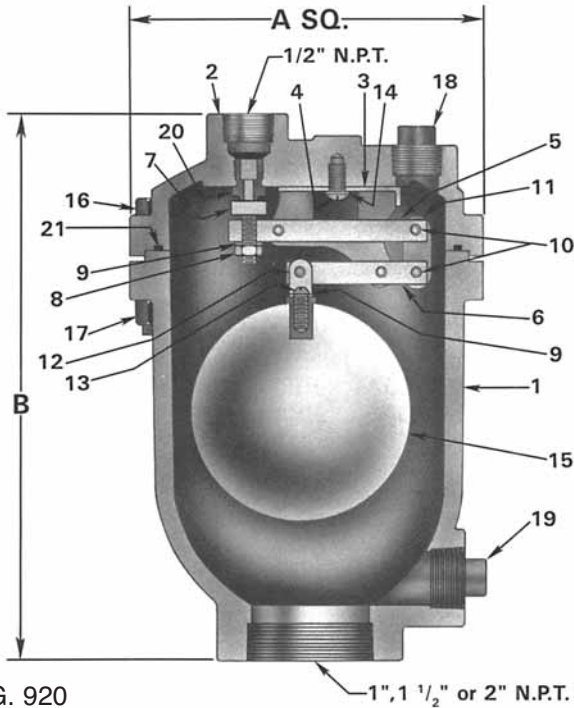


FIG. 920

—1", 1 1/2" or 2" N.P.T.

### GENERAL DIMENSIONS

VALVE (INLET)	VALVE (OUTLET)	A (SQUARE)	B (HEIGHT)	WEIGHT (LBS.)
1" NPT	1/2" NPT	6-3/8"	9-7/8"	24
1-1/2" NPT				
2" 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 of stainless steel. The float shall be of stainless steel and 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 920 (formerly Figure 1-AR, A 1/2-AR and 2-AR).

### PARTS LIST

- BODY - Cast Iron A126 Class B
- COVER - Cast Iron A126 Class B
- LEVERAGE BRACKET - 316 Stainless Steel
- BRACKET SCREW - 18-8 Stainless Steel
- LEVER ARM - 316 Stainless Steel
- FLOAT ARM - 316 Stainless Steel
- ORIFICE BUTTON - Buna-N/18-8 Stainless Steel
- HEX NUT - 18-8 Stainless Steel
- LOCKWASHER - 18-8 Stainless Steel
- COILED SPRING PIN - 302 Stainless Steel
- VALVE LINK (Air Release) - 316 Stainless Steel
- PIVOT LINK - 316 Stainless Steel
- FLOAT CAP SCREW - 18-8 Stainless Steel
- BRACKET LOCKWASHER - 18-8 Stainless Steel
- FLOAT BALL - 316 Stainless Steel
- COVER BOLTS - Steel Grade 2
- COVER NUTS - Steel Grade 2
- PIPE PLUG 1/2" NPT - Steel (Commercial)
- PIPE PLUG 1" NPT - Malleable Iron
- ORIFICE - 316 Stainless Steel
- O-RING - Buna-N

### 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 3/16" orifice  
(Standard-Fig. 920)  
10-300 psi with 1/8" orifice  
(Optional-Fig. 920-H)

CONSULT FACTORY IF OPERATING  
PRESSURE IS LESS THAN 10 PSI.

#### Maximum Venting Rate:

Fig. 920 @ 150 psi with 3/16" orifice =  
58.7 SCFM  
Fig. 920-H @ 300 psi with 1/8" orifice =  
49.8 SCFM

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

#### Where to Install Air Valves:

- Peaks
- Increased Down Slope
- Decrease in Upward Slope
- Long Ascents
- Long Descents
- Long Horizontals
- Pumps
- Large Valves, Cylinders and Piping Loops