

# MINI-MATIC

## Pressure Type Air Vent



FIG. 905

### MINI-MATIC

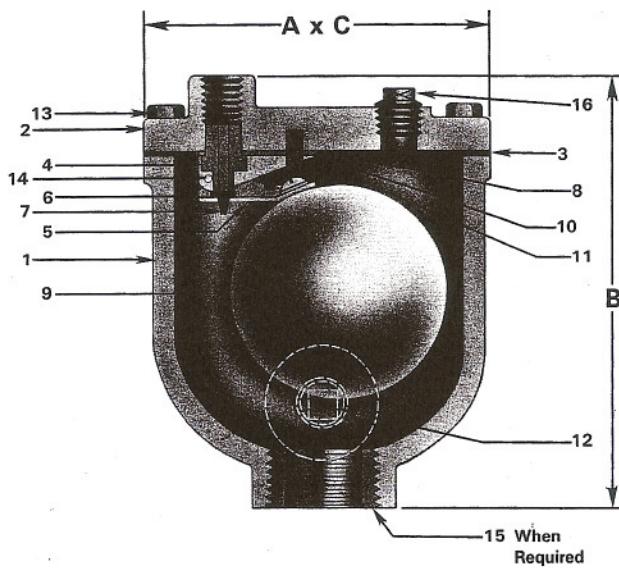


FIG. 905

### GENERAL DIMENSIONS

VALVE (INLET)	VALVE (OUTLET)	A (LENGTH)	B (HEIGHT)	C (WIDTH)	WEIGHT (LBS.)
1/2" NPT	1/4" NPT	4"	5 1/8"	3 3/8"	5
3/4" NPT					

### ENGINEERING SPECIFICATION

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

The Air Vent Valve shall close drop tight, incorporating an easily renewable Buna-N seat, suitable for hot or cold water service. 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 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 300 PSIG.

The Air Vent (Release) Valves shall be as manufactured by GA Industries, Inc., their Figure 905 Minimatic.

### PARTS LIST

1. BODY - Cast Iron A126 Class B
2. COVER - Cast Iron A126 Class B
3. GASKET - Composition
4. ORIFICE - 303 Stainless Steel
5. FLOAT ARM - 302/304 Stainless Steel
6. LEVERAGE BRACKET - 302/304 Stainless Steel
7. ORIFICE BUTTON - Buna-N
8. SPRING PIN - 410/420 Stainless Steel
9. FLOAT BALL - 304 Stainless Steel
10. CAP SCREW - 18-8 Stainless Steel
11. LOCKWASHER - 18-8 Stainless Steel
12. PIPE PLUG 1/2" NPT - Steel (Commercial)
13. COVER BOLTS - Steel Grade 2
14. COILED SPRING PIN - 302 Stainless Steel
15. BUSHING - Steel (Commercial)
16. PIPE PLUG 1/4" NPT - Steel (Commercial)

### ENGINEERING DATA

#### Pressure Rating:

Valve body rated 200 psi WOG,  
tested to 300 psi.  
Float tested to 1000 psi.

#### Working Pressure

10-150 psi with 3/32" Orifice  
(Standard-Fig. 905)

10-200 psi with 1/16" Orifice  
(Optional-Fig. 905-H)

CONSULT FACTORY IF OPERATING  
PRESSURE IS LESS THAN 10 PSI.

#### Maximum Venting Rate:

FIG. 905 @ 150 psi with 3/32" Orifice =  
14.7 SCFM

FIG. 905-H @ 200 psi with 1/16" Orifice =  
8.5 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

# SIMPLE LEVER Pressure Type Air Release Valve



## SIMPLE LEVER AIR RELEASE

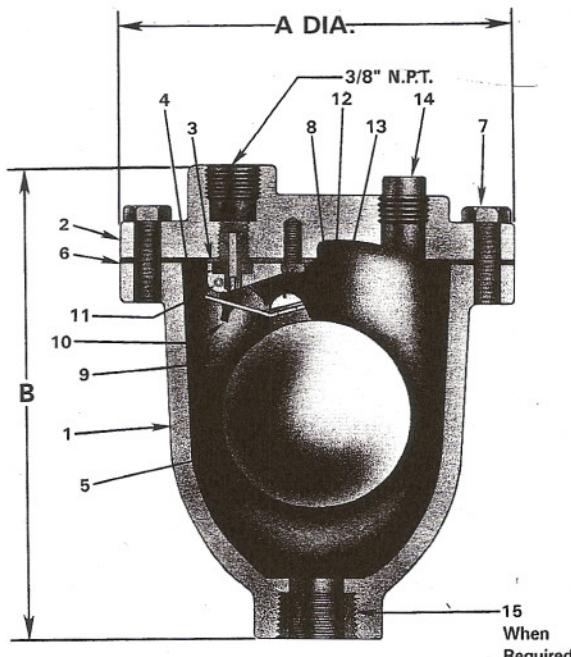


FIG. 910

## GENERAL DIMENSIONS

VALVE (INLET)	VALVE (OUTLET)	A (DIAMETER)	B (HEIGHT)	WEIGHT (LBS.)
1/2" NPT				
3/4" NPT	3/8" NPT	5 1/8"	6 1/4"	8
1" NPT				

## ENGINEERING SPECIFICATION

The Air Release Valve shall be float operated and shall incorporate a simple 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 easily renewable Buna-N seat for superior service on water. 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 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 910 (formerly Figure 1/2-AR, 3/4-AR and 1 AR).

## PARTS LIST

1. BODY - Cast Iron A126 Class B
2. COVER - Cast Iron A126 Class B
3. LEVERAGE BRACKET - 302/304 Stainless Steel
4. ORIFICE - 303 Stainless Steel
5. FLOAT BALL - 304 Stainless Steel
6. GASKET - Composition
7. COVER BOLT - Steel Grade 2
8. BRACKET SCREW - 18-8 Stainless Steel
9. FLOAT ARM - 302/304 Stainless Steel
10. ORIFICE BUTTON - Buna-N
11. COILED SPRING PIN - 302 Stainless Steel
12. FLOAT SCREW - 18-8 Stainless Steel
13. LOCKWASHER - 18-8 Stainless Steel
14. PIPE PLUG - Steel (Commercial)
15. REDUCING BUSHING - Steel (Commercial)

## 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 3/32" Orifice  
(Standard-Fig. 910)  
10-300 psi with 1/16" Orifice  
(Optional-Fig. 910-H)  
CONSULT FACTORY IF OPERATING  
PRESSURE IS LESS THAN 10 PSI.

### Maximum Venting Rate:

FIG. 910 @ 150 psi with 3/32" Orifice =  
14.7 SCFM  
FIG. 910-H @ 300 psi with 1/16" Orifice =  
12.5 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 Pipina Loops