

CUSTOM SHORT BODY SEWAGE COMBINATION AIR VALVE

2" through 3" Size, NPT Inlet



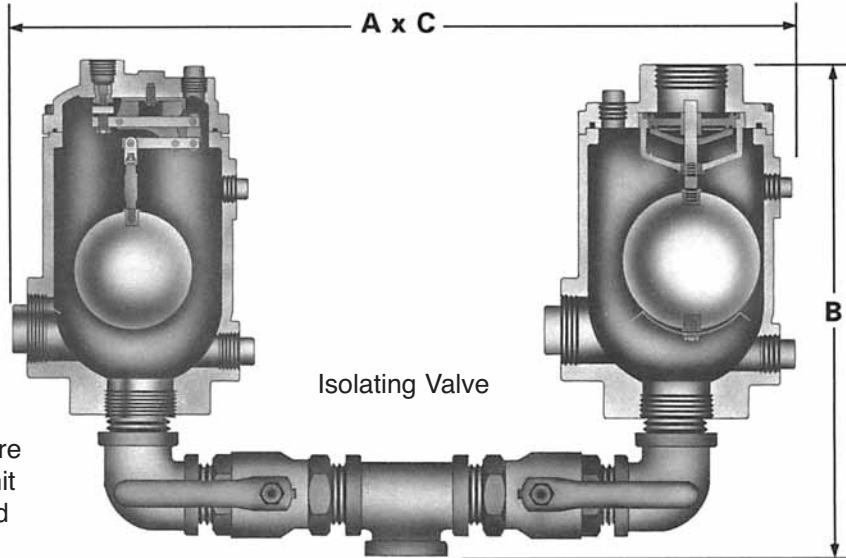
FIG. 959

SHORT BODY SEWAGE COMBINATION AIR VALVE

Figure 939
Air/Vacuum Valve
(Page 31)

Figure 929
Air Release Valve
(Page 14)

FIG. 959



NOTE: Use Only Where Space Does Not Permit Installation of Standard Height Valves.

GENERAL DIMENSIONS

SIZE	2" x 1"	2" x 2"	3" x 2"
A	28"	28"	36-1/2"
B	17-1/4"	17-1/4"	19"
C	6-3/8"	6-3/8"	6-3/8"
INLET	2" NPT	2" NPT	3" NPT
OUTLET	1" NPT	2" NPT	2" NPT
WEIGHT (LBS.)	110	110	140

ENGINEERING SPECIFICATION

The Custom Short Body Sewage Combination Air Valve shall be designed to exhaust large amounts of air during filling, release small amounts of accumulated air during operation and open upon impending vacuum to admit air while draining.

The Short Body Custom Sewage Combination Air Valve shall consist of two independent valves: a large orifice Air & Vacuum Valve and a small orifice Air Release Valve, piped together so that a single, common connection can be made to the force main. The assembly shall be complete with shut-off valves to allow each valve to be isolated from the line. The assembly shall be tested as a unit to insure there are no leaking joints. Maximum height of the 2" x 1" or 2" x 2" assembly shall be 17-1/4", 3" x 2" assembly 19", including flush attachments if specified.

The Air & Vacuum Valve shall be equal in all respects to GA Industries Fig. 939 and shall be of the size specified. The Air Release Valve shall be equal in all respects to GA Industries Fig. 929 and shall be 2" NPT size. All internal metal trim components shall be stainless steel.

When specified, the Combination Air Valve shall be supplied with "Flushing Attachments" to allow periodic flushing of sediment, grease and solids. Attachments consist of : bronze blow-off and flushing valves, with a minimum of 5 feet of rubber hose, and quick-disconnects to allow connection to a clean water source.

The Custom Short Body Sewage Combination Air Valve shall be as manufactured by GA Industries, Inc., their Figure 959 (formerly Figure SCAV-S-3, or SCAV-S-5).

ENGINEERING DATA

Pressure Rating:

NPT Inlet Body rated to 200 psi WOG, tested to 300 psi.
Float tested to 1000 psi.

Working Pressure:

10-75 psi with 5/16" orifice
(Optional-Fig. 959-L)
10-150 psi with 3/16" orifice
(Standard-Fig. 959)

CONSULT FACTORY IF OPERATING PRESSURE IS LESS THAN 10 PSI.

Small Orifice (Air Release) Maximum Venting Rate:

Fig. 959-L @ 75 psi with 5/16" orifice = 8.88 SCFM
Fig. 959 @ 150 psi with 3/16" orifice = 58.7 SCFM

FOR SIZING AND LOCATING SEE PAGES 16-17, 36-37. OTHER ORIFICES AVAILABLE; CONSULT FACTORY.

Connections:

Inlet - NPT, Standard
Outlet - NPT, Standard

Options:

For Optional Flushing Attachments, specify 959-F, see page 15.

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