

HIGH CAPACITY SEWAGE SERVICE VACUUM RELIEF & AIR INLET VALVE

3" through 12" Flanged Body with Screened Air Inlet



FIG. 991

VACUUM RELIEF/AIR INLET VALVE

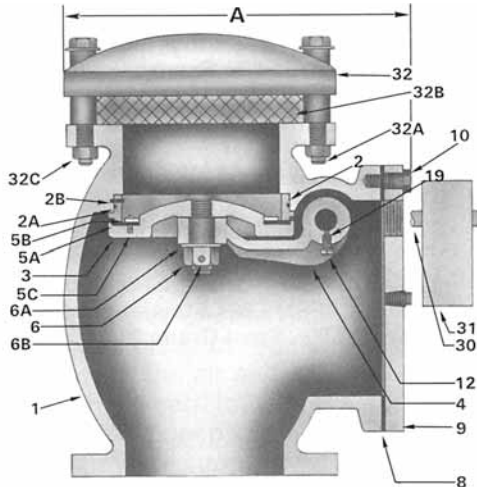
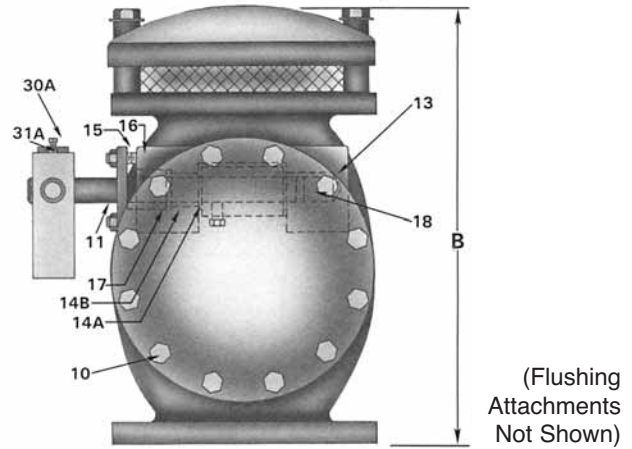


FIG. 991



(Flushing Attachments Not Shown)

GENERAL DIMENSIONS

SIZE	3"	4"	6"	8"	10"	12"
A	13"	14-1/2"	16"	23"	25"	29"
B	15-1/2"	17"	22"	23-1/4"	29-1/2"	35-1/2"
WGT. (LBS.)	95	140	220	340	535	810

LARGER SIZES AVAILABLE, CONSULT FACTORY

ENGINEERING SPECIFICATION

The SEWAGE SERVICE Vacuum Relief Valve shall be normally closed and open only when the pressure in the pipeline or vessel falls below atmospheric pressure. The valve shall open quickly to admit large amounts of air to prevent vacuum formation below critical levels and then close upon restoration of positive pressure.

The body of the valve shall be constructed of cast iron conforming to ASTM A126 Class B. The seat ring shall be made of bronze conforming to ASTM B62. Tight shutoff shall be provided by renewable seal. There shall be no internal springs in the valve. Opening vacuum pressure setting shall be adjustable by the amount and position of external counterweights. The air inlet shall be protected by a stainless steel screen, and steel hood to prevent entry of foreign objects.

The Vacuum Relief Valve shall be as manufactured by GA Industries, their Figure 991 (formerly Figure HCV).

ENGINEERING DATA

Pressure Rating:

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

Connections:

Hooded and Screened Air Inlet x CL.125 FLG - Standard
Hooded and Screened Air Inlet x CL.250 FLG - Optional
FOR SIZING AND LOCATING SEE PAGES 36-37.

Where to Install Air Valves:

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

PART LIST

1. BODY - Cast Iron A126 Class B
2. SEAT - 316 Stainless Steel
- 2A. SEAT O-RING - Buna-N
- 2B. SEAT PIN - 410/420 Stainless Steel
3. DISC - Cast Iron A126 Class B
4. DISC ARM - Ductile Iron A536 Grade 65-45-12
- 5A. SEAT WASHER - Buna-N
- 5B. SEAT FOLLOWER - Bronze B62
- 5C. SEAT SCREWS - 18-8 Stainless Steel
6. DISC NUT - Steel A307
- 6A. DISC NUT WASHER - Steel (Commercial)
- 6B. DISC NUT COTTER PIN - 18-8 Stainless Steel
8. COVER GASKET - Composition
9. COVER - Steel A36
10. COVER BOLTS - Steel Grade 2
11. SHAFT - 303 Stainless Steel
12. DISC ARM SET SCREW - 18-8 Stainless Steel
13. INNER BUSHING - Bronze SAE 660
- 14A. OUTER BUSHING - Bronze SAE 660
- 14B. THRUST WASHER - Bronze SAE 660
15. GLAND - Cast Iron A126 Class B
16. GLAND STUDS - Steel A307
17. GLAND PACKING - Graphite & Aramid
18. SHAFT PIN - Brass SAE 72
19. DISC ARM KEY - (Not Used On 3")
303 Stainless Steel
30. COUNTERWEIGHT ARM Cast Iron A126 Class B
- 30A. COUNTERWEIGHT ARM SET SCREW
- Steel A307
31. COUNTERWEIGHT - Cast Iron A126 Class B
- 31A. COUNTERWEIGHT ARM SET SCREW
- Steel A307
32. COWL Steel (Commercial)
- 32A. COWL BOLTS - Steel Grade 2
- 32B. SCREEN - 304 Stainless Steel
- 32C. NUTS - Steel Grade 2