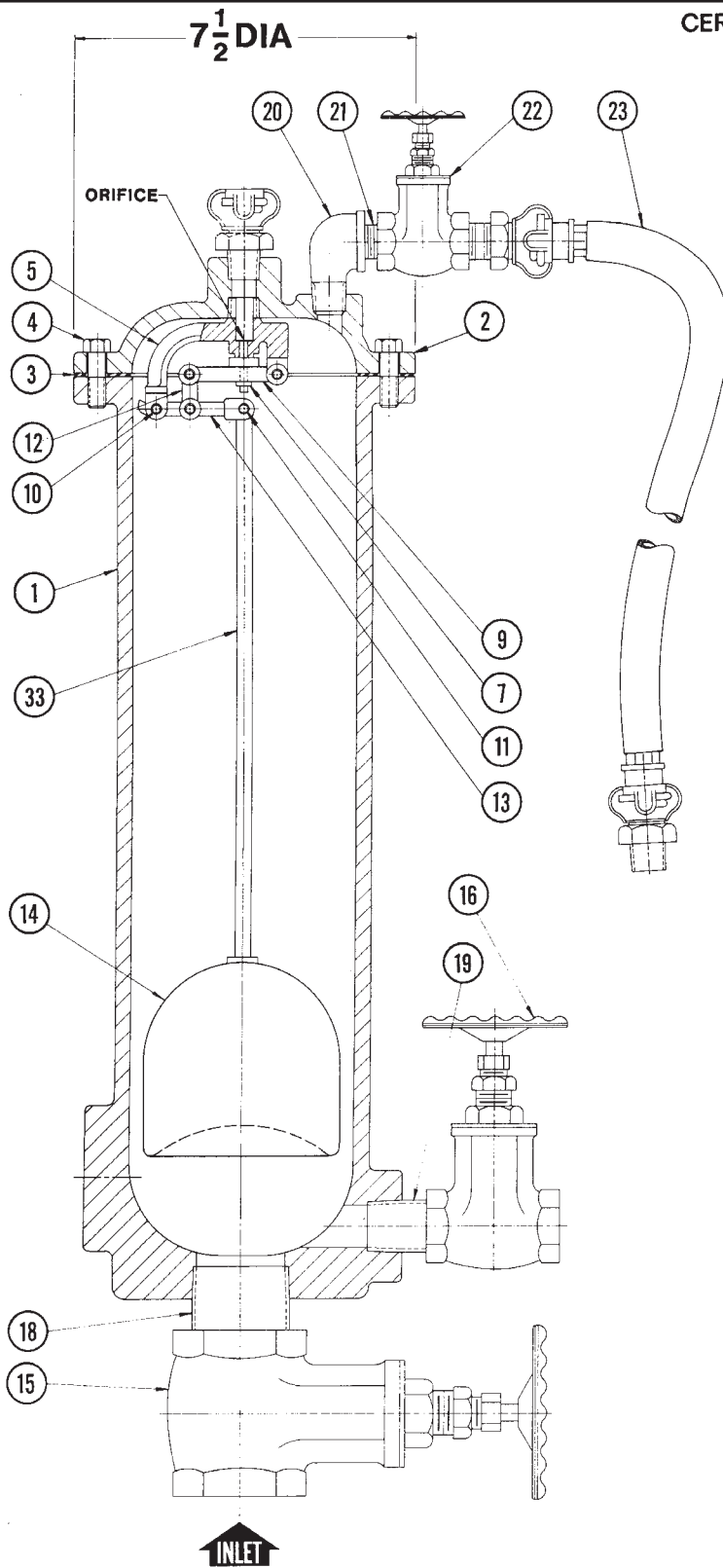


# SEWAGE AIR RELEASE VALVE WITH ATTACHMENTS

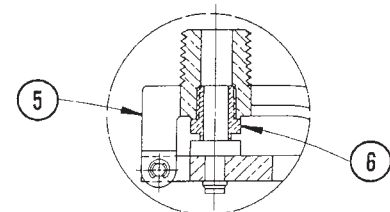
CERTIFIED BY: \_\_\_\_\_

DATE: \_\_\_\_\_



## INLET-ORIFICE SELECTION CHART

OPERATING PRESSURE PSI	ORIFICE DIA	INLET SIZE		
		2NPT	3NPT	4NPT
0-50	$\frac{5}{16}$			
51-150	$\frac{1}{4}$	STD.		
151-300	$\frac{5}{32}$			
TOTAL HEIGHT		23	$23\frac{1}{4}$	$23\frac{1}{2}$



SEAT DETAIL FOR  $\frac{5}{16}$  ORIFICE

DET.	DESCRIPTION	MATERIAL
1	BODY	CAST IRON ASTM A126 GR.B
2	COVER	CAST IRON ASTM A126 GR.B
3	COVER GASKET	LEXIDE (NON-ASBESTOS)
4	COVER BOLT	STEEL ASTM A307 GR.B
5	LEVERAGE FRAME	STAINLESS STEEL ASTM A351 CF-8M
6	SEAT ( $\frac{5}{16}$ orifice only)	STAINLESS STEEL ASTM A276 T316
7	NEEDLE	BUNA-N
9	NEEDLE LEVER	STAINLESS STEEL ASTM A351 CF-8M
10	LEVER PIN	STAINLESS STEEL ASTM A582 T303
11	RETAINING RING	STAINLESS STEEL PH15-7MO
12	CONNECTING LINK	STAINLESS STEEL ASTM A276 T316
13	FLOAT LEVER	STAINLESS STEEL ASTM A351 CF-8M
14	FLOAT *	STAINLESS STEEL ASTM A240 T304
15	ISOLATION VALVE	BRASS (COMMERCIAL)
16	1" N.P.T. DRAIN VALVE	BRASS (COMMERCIAL)
18	CLOSE NIPPLE	STEEL (COMMERCIAL)
19	1" N.P.T. CLOSE NIPPLE	STEEL (COMMERCIAL)
20	$\frac{1}{2}$ " N.P.T. STREET ELBOW	MALLEABLE IRON (COMMERCIAL)
21	$\frac{1}{2}$ " N.P.T. CLOSE NIPPLE	STEEL (COMMERCIAL)
22	$\frac{1}{2}$ " N.P.T. SHUTOFF VALVE	BRASS (COMMERCIAL)
23	QUICK DISCONNECT HOSE ASS'Y.	COMMERCIAL
33	FLOAT STEM	STAINLESS STEEL ASTM A213 T303

\* CONCAVE FLOAT PATENTED

DATE  
09-01-03

**APCO** *Willamette*  
VALVE AND PRIMER CORPORATION

DRWG. NO.  
S-400WA

SPECIFICATIONS OTHER SIDE

# APCO<sup>®</sup> SPECIFICATIONS

## SERIES 400WA SEWAGE AIR RELEASE VALVE WITH ATTACHMENTS

The Sewage Air Release Valve shall have a cast iron body and cover with a \*CONCAVE FLOAT designed to operate under pressure to allow entrapped air to escape from a sewage force main line, sewage pump, or waste water system. After the air escapes out of the Air Release Valve, the valve shall shut-off until more air accumulates in it and the opening cycle will repeat automatically. The shut-off shall be without spillage and spurt free.

The Sewage Air Release Valve must have a compound internal linkage mechanism, all stainless steel, to prevent corrosion with an air gap between the linkage and waste level inside the valve to retard the waste media from clogging the linkage. The float shall be heavily constructed stainless steel (hermetically sealed) having a concave bottom impact area to provide immediate resistance to flow and instant upwards movement to shut off the large orifices "WITHOUT SPILLING". Each valve shall be complete with hose and blow-off valves to permit back-flushing without dismantling the valve.

The overall height shall not exceed 23"

All materials of construction shall be certified to conform to following A.S.T.M. specifications:

Body & cover	Cast iron	ASTM A126 Gr. B
Internal linkage	Stainless steel	Series 300
*Concave float patented	Stainless steel	ASTM A240 T304
Needle	Buna-N	
Exterior Paint	Universal metal primer	FDA Approved for Potable Water Contact

Note: Other materials available.

Valve to be APCO Series 400WA Sewage Air Release Valve with attachments and 2" - 3" or 4" N.P.T. inlet (Engineer to specify) as manufactured by Valve & Primer Corporation, Schaumburg, Illinois, U.S.A.