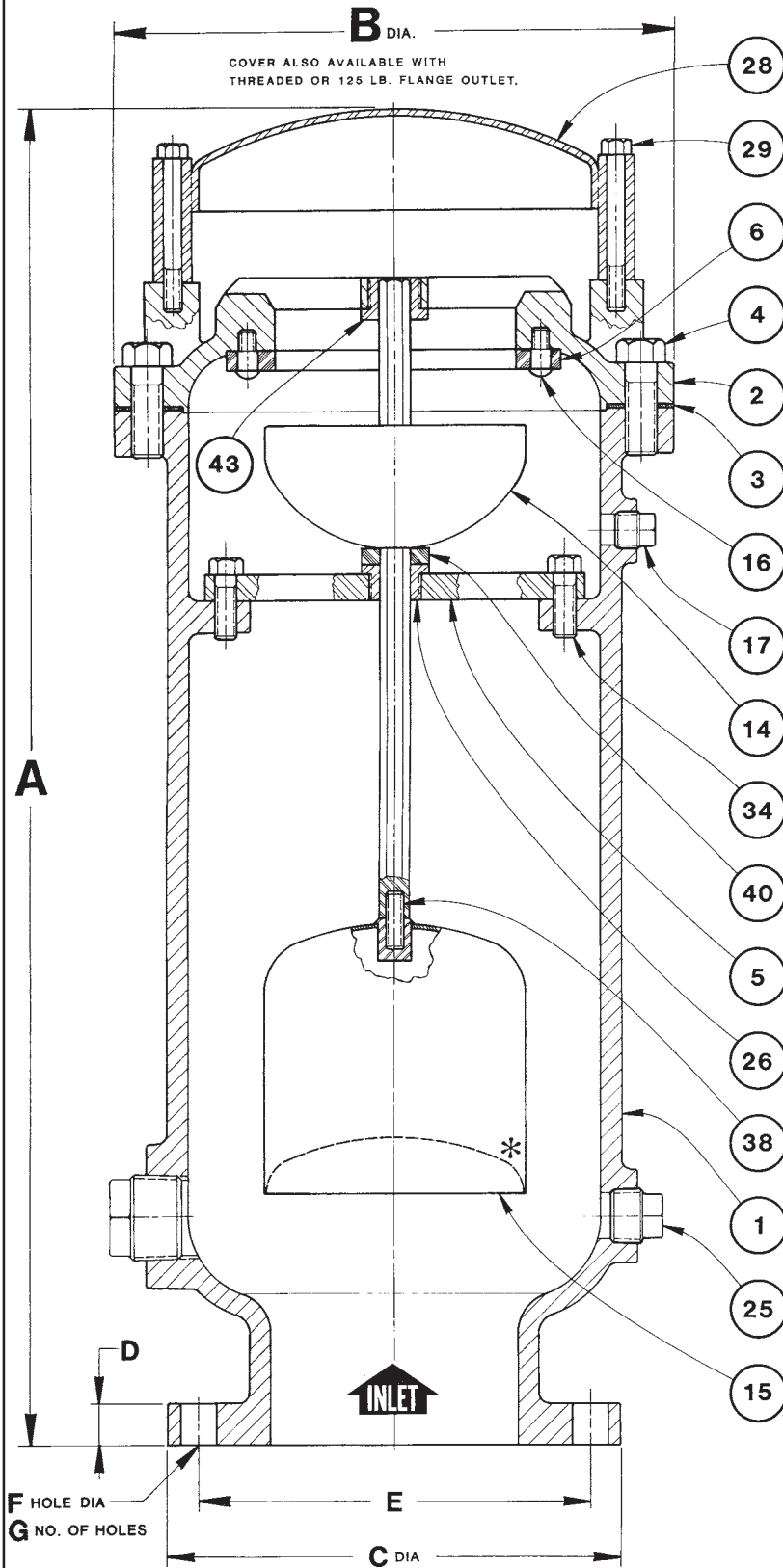


SEWAGE AIR / VACUUM VALVE



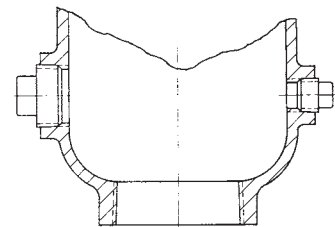
VALVE SIZE	MODEL No.	125 LB. CLASS							250 LB. CLASS								
		A	B	C	D	E	F	G	C	D	E	F	G				
4"	404	30	11	4" NPT THREADED INLET							4" NPT THREADED INLET						
6"	406	32 $\frac{1}{2}$	13 $\frac{3}{4}$	11	1"	9 $\frac{1}{2}$	7 $\frac{7}{8}$	8	12 $\frac{1}{2}$	1 $\frac{7}{16}$	10 $\frac{5}{8}$	7 $\frac{7}{8}$	12				
8"	408	36	17 $\frac{1}{4}$	13 $\frac{1}{2}$	1 $\frac{1}{8}$	11 $\frac{3}{4}$	7 $\frac{7}{8}$	8	15	1 $\frac{5}{8}$	13	1"	12				
10"	410	41	20	16	1 $\frac{3}{16}$	14 $\frac{1}{4}$	1"	12	17 $\frac{1}{2}$	1 $\frac{7}{8}$	15 $\frac{1}{4}$	1 $\frac{1}{8}$	16				
12"	412	47	25	19	1 $\frac{1}{4}$	17	1"	12	20 $\frac{1}{2}$	2	17 $\frac{3}{4}$	1 $\frac{1}{4}$	16				
14"	414	51 $\frac{1}{2}$	29	21	1 $\frac{3}{8}$	18 $\frac{3}{4}$	1 $\frac{1}{8}$	12	23	2 $\frac{1}{8}$	20 $\frac{1}{4}$	1 $\frac{1}{4}$	20				

NOTE: VALVE SIZE 4" MODEL No.404 ALSO AVAILABLE WITH 125LB OR 250LB FLANGE INLET.

SPECIFY OPERATING PRESSURE _____ PSI

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	GUIDE PLATE	STEEL AISI 1018
6	SEAT	BUNA-N
14	UPPER FLOAT	STAINLESS STEEL ASTM A240 T304
15	LOWER FLOAT *	STAINLESS STEEL ASTM A240 T304
16	SEAT RETAINING SCREW	STAINLESS STEEL 18-8
17	1/2" N.P.T. PIPE PLUG	STEEL (commercial)
25	1" N.P.T. DRAIN PLUG	MALLEABLE IRON (commercial)
26	BOTTOM GUIDE BUSHING	STAINLESS STEEL ASTM A582 T303
28	HOOD	STEEL AISI 1010
29	HOOD SCREW	STEEL ASTM A307 GR.B
34	GUIDE PLATE SCREW	STAINLESS STEEL 18-8
38	FLOAT SET SCREW	STAINLESS STEEL 18-8
40	BUMPER	BUNA-N
43	TOP GUIDE BUSHING	STAINLESS STEEL ASTM A582 T303

* CONCAVE FLOAT U.S. PATENT 4,586,528



4" INLET DETAIL

CERTIFIED BY: _____

DATE: _____

DATE
09-01-03



DRWG. NO.
S-404

SPECIFICATIONS OTHER SIDE



SPECIFICATIONS

SERIES 404 SEWAGE AIR / VACUUM VALVE

The Sewage Air / Vacuum Valve shall consist of a cast iron body and cover with a CONCAVE FLOAT to permit unrestricted venting of air during filling of the force main and unrestricted entry of air into the force main under vacuum condition due to force main break, or draining of main and prevent column separation or pipeline collapse due to vacuum. When force main is filled and pressurized the Sewage Air / Vacuum Valve will shut-off without spillage. The air valve shall incorporate two (2) stainless steel floats connected by a common hexagonal steel float guide to maintain an air gap between the Lower CONCAVE FLOAT and upper flat top shut-off float, thereby retarding the waste solids from clogging the shut-off float. The discharge orifice area shall be equal to or greater than the inlet area of the valve.

The points of the hexagonal float guide shall provide a cleansing action to prevent buildup inside the stainless steel guide bushing.

The upper shut-off float shall have a flat top for tight shut-off against the Buna-N seat. The seat must be retained with stainless steel shoulder screws to prevent distortion. The seat shall be field replaceable.

The lower 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 orifice "WITHOUT SPILLING".

The Sewage Air / Vacuum Valve shall have a plain outlet covered with a steel protector hood, or it may be threaded or flanged. (Engineer to select outlet).

Body	Cast iron	ASTM A126 Gr. B
Cover	Cast iron	ASTM A126 Gr. B
Upper float (Flat Top)	Stainless steel	ASTM A240 T304
Lower Concave Float(U.S.Patented)	Stainless steel	ASTM A240 T304
Seat	Buna-N	
Exterior Paint	Universal primer	FDA Approved for Potable Water Contact

Note: Other materials available.

Valve to be APCO Series 404 Sewage Air / Vacuum Valve, as manufactured by Valve & Primer Corporation, Schaumburg, Illinois, U.S.A.