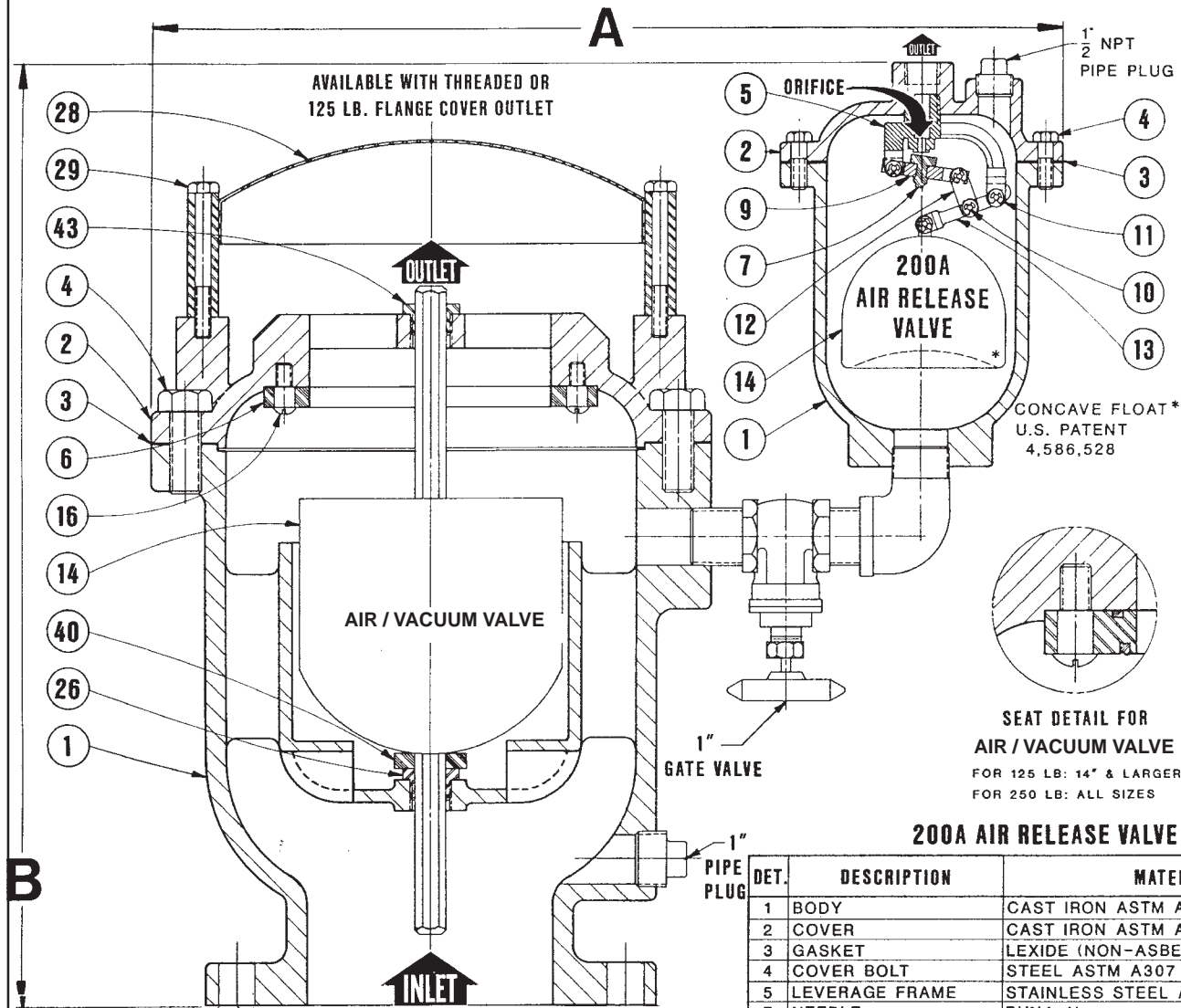


CUSTOM COMBINATION AIR VALVE



CERTIFIED BY:

DATE:

200A AIR RELEASE VALVE

DET.	DESCRIPTION	MATERIAL
1	BODY	CAST IRON ASTM A126 Gr. B
2	COVER	CAST IRON ASTM A126 Gr. B
3	GASKET	LEXIDE (NON-ASBESTOS)
4	COVER BOLT	STEEL ASTM A307 Gr. B
5	LEVERAGE FRAME	STAINLESS STEEL ASTM A351 T316
7	NEEDLE	BUNA-N
9	NEEDLE LEVER	STAINLESS STEEL ASTM A351 T316
10	LEVER PIN	STAINLESS STEEL ASTM A582 T303
11	RETAINING RING	STAINLESS STEEL 15-7Mo
12	CONNECTING LINK	STAINLESS STEEL ASTM A240 T316
13	FLOAT LEVER	STAINLESS STEEL ASTM A351 T316
14	CONCAVE FLOAT*	STAINLESS STEEL ASTM A240 T304

AIR / VACUUM VALVE

DET.	DESCRIPTION	MATERIAL
1	BODY	CAST IRON ASTM A126 Gr. B
2	COVER	CAST IRON ASTM A126 Gr. B
3	GASKET	LEXIDE (NON-ASBESTOS)
4	COVER BOLT	STEEL ASTM A307 Gr. B
6	SEAT ¹	BUNA-N
14	FLOAT	STAINLESS STEEL ASTM A240 T304
16	SEAT SCREW	STAINLESS STEEL ASTM A582 T303
26	FLOAT GUIDE BUSHING	STAINLESS STEEL ASTM A582 T303
28	HOOD	H. R. S.
29	HOOD SCREW	STEEL ASTM A307 Gr. B
40	BUMPER	BUNA-N
43	FLOAT GUIDE BUSHING	STAINLESS STEEL ASTM A582 T303

¹STAINLESS STEEL WITH BUNA-N SEAL FOR 14" & LARGER ON 125 LB. AND FOR ALL SIZES ON 250 LB. CLASS.

VALVE SIZE	MODEL No.	COMBINATION	A	B	
				125 LB. 3/16 ORIFICE	250 LB. 5/32 ORIFICE
4"	1804	152 / 200A	19 1/2	20 1/4	20 5/8
6"	1806	153 / 200A	22 3/4	22 3/4	23 1/8
8"	1808	154 / 200A	25 1/2	24 3/4	25 1/4
10"	1810	155 / 200A	27 7/8	26 3/4	27 3/8
12"	1812	156 / 200A	32 7/8	31 3/8	31 3/8
14"	1814	157 / 200A	41 7/8	30 3/4	30 3/4
16"	1816	158 / 200A	45 1/2	32	32
18"	1818	159 / 200A	42	34	34
20"	1820	160 / 200A	46	40	40
24"	1824	162 / 200A	53	48	48

DATE
09-01-03

APCO *Willamette*
VALVE AND PRIMER CORPORATION

DRWG. NO.
S-1800

SPECIFICATIONS OTHER SIDE

APCO[®] SPECIFICATIONS

SERIES 1800 CUSTOM COMBINATION AIR VALVE

Custom Combination Air Valves (double body, double orifice) allow large volumes of air to escape out the large diameter air / vacuum orifice when filling a pipeline, then close water tight when the liquid enters the valve. The small orifice Air Release Valve shall be an independent valve body, side connected to the large orifice air vacuum valve body with piping, including 1" all brass gate valve for isolation. While the large orifice is closed, the small 3/16" or 5/32" air release orifice will open to allow small pockets of air to escape automatically and independently of the large orifice. The small orifice air release valve shall be an independently operated compound lever mechanism of precision cast stainless steel.

The large air / vacuum orifice shall also open and allow large volumes of air to enter the pipeline during pipeline drainage to break the vacuum. The large orifice float must be surrounded by a baffle for protection against direct contact of the rushing air and water to prevent premature valve shut-off. The baffle must be a heavy integral cast part of the main valve body not a loose piece.

The Buna-N seat shall be compression molded a minimum 1/2" thick and fastened to the valve cover with shoulder screws to lock the seat in place without seat distortion, for drop tight shut-off. Both floats shall be heavy stainless steel, hermetically sealed. The large orifice float shall have a one piece hex rod thru its' center for center guiding thru stainless steel bushings into positive shut-off against the Buna-N seat.

The Custom Combination Air Valve shall be rated 125 lb. or 250 lb. Class. The 3/16" small orifice shall operate (open) up to 150 psi. The 5/32" small orifice shall operate (open) up to 300 psi. (Engineer to select one small orifice and flange class rating).

Body & cover	Cast Iron	ASTM A126 Gr. B
*Floats (ARV Concave Float)	Stainless Steel	ASTM A240 T304
Needle & seat	Buna-N	
Leverage frame	Cast iron	ASTM A351 T316
Exterior paint	Universal primer	FDA Approved for potable water contact

*** Float design may vary on certain sizes**

Note: Other materials available.

Valve to be APCO Series 1800 Custom Combination Air Valve, as manufactured by Valve & Primer Corporation, Schaumburg, Illinois, U.S.A.