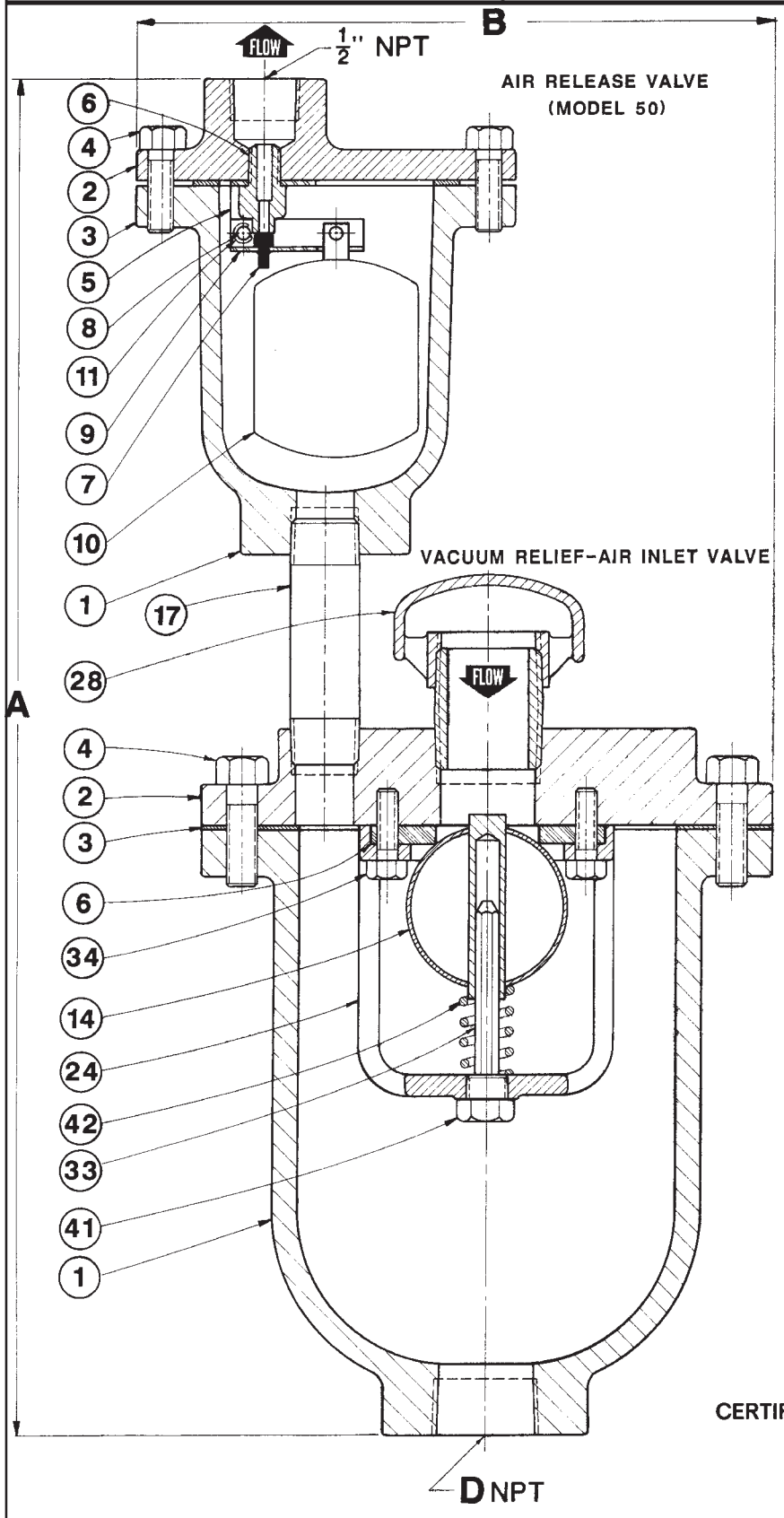
VACUUM RELIEF-AIR INLET VALVE AIR RELEASE VALVE (THREADED TYPE)



VALVE SIZE	MODEL No.	A	B	D
1"	1501TC	18	7 1/2	1
2"	1502TC	22	9 3/4	2
3"	1503TC	23	9 3/4	3

PRESSURE-ORIFICE SELECTION CHART		ORIFICE	
		3/32 (STD)	1/16
VENTING CAPACITY OPERATING PRESSURE	50 PSI	5 CFM	2.5 CFM
	100 PSI	9.5 CFM	4 CFM
	150 PSI	12.5 CFM	6 CFM
	175 PSI	15 CFM	7 CFM
	300 PSI	–	11.5 CFM

AIR RELEASE VALVE (MODEL 50)		
DET	DESCRIPTION	MATERIAL
1	BODY	CAST IRON ASTM A48 CL. 30
2	COVER	CAST IRON ASTM A48 CL. 30
3	COVER GASKET	LEXIDE (non-asbestos)
4	COVER BOLT	STEEL ASTM 307 GR. B
5	LEVER FRAME	STAINLESS STEEL TYPE 304
6	SEAT	STAINLESS STEEL TYPE 303
7	NEEDLE	BUNA-N
8	LEVER PIN	STAINLESS STEEL TYPE 303
9	FLOAT LEVER	STAINLESS STEEL TYPE 304
10	FLOAT	STAINLESS STEEL TYPE 304
11	PIN RET. RING	STAINLESS STL. COMMERCIAL

VACUUM RELIEF-AIR INLET VALVE		
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 A193 GR. B5
6	SEAT	BUNA-N
14	FLOAT	STAINLESS STL. ASTM A240 T304
17	NIPPLE	STEEL
24	BAFFLE[1]	DELRIN D4181
28	HOOD	GALVANIZED IRON
33	FLOAT GUIDE	BRASS ASTM B16
34	SEAT SCREW	STAINLESS STEEL 18-8
41	BAFFLE PLUG	BRASS ASTM B16
42	SPRING	STAINLESS STL. ASTM A276 T316

1 STANDARD MATERIAL ON SIZE 3" IS CAST IRON ASTM A48 CL. 30

CERTIFIED BY: _____

DATE: _____

DATE		DRWG. NO.
09-01-03	APCO Willamette VALVE AND PRIMER CORPORATION	S-1500TC

SPECIFICATIONS OTHER SIDE

September 1, 2003

SPECIFICATIONS

SERIES 1500TC VACUUM RELIEF AIR INLET/AIR RELEASE VALVE

The Vacuum Relief Air Inlet/Air Release Valves (double body, double orifice) allow large volume air entry thru the LARGE diameter air inlet orifice when vacuum occurs in a system, then closes air tight, trapping air, as the system returns to positive pressure. While the LARGE orifice is closed, the smaller 1/16", 3/32" size Air Release orifice remains open to slowly release trapped air in a controlled manner to prevent water hammer and excess pressure surges. The 3/32" SMALL orifice Air Release shall operate (open) up to 175 psi.. . or 1/16" SMALL orifice shall operate (open) up to 300 psi. (Engineer to select small orifice to suit Air Release control requirement).

The small orifice Air Release Valve shall operate with a simple stainless steel lever mechanism actuated by a stainless steel float, designed to withstand 500 psi.

The Vacuum Relief-Air Inlet Valve shall consist of a body, cover, baffle, float, seat, stainless steel spring and be fitted with a galvanized iron hood to prevent debris from entering the pipeline.

The LARGE inflow area seat shall be Buna-N, fastened to the cover without distortion and be field replaceable without special tools. The float shall be stainless steel, designed to withstand 500 psi or more. The float shall be center guided for positive drop tight shut-off and be normally closed by means of a stainless steel spring.

The LARGE inflow orifice shall open allowing air to enter when under a pressure differential not to exceed 0.25 psi. The LARGE orifice inflow area must be equal or greater than the valve inlet size to insure full vacuum relief protection during draining, pipeline rupture or water column separation, due to general power failure.

All 1500TC valve internals shall be replaceable without removing the valve from line and materials of construction certified to the following A.S.T.M. specifications:

Body & cover	Cast Iron	ASTM A126 Gr. B
Baffle (½", 1", 2")	Delrin	D4181
Baffle (3")	Cast Iron	ASTM A48 CL. 30
Float*	Stainless Steel	ASTM A240
Seat	Buna-N	Nitrile Rubber
Spring	Stainless Steel	ASTM A276
Hood	Galvanized Iron	Commercial Grade

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

Note: Other materials available.

Valve to be APCO Series 1500TC Vacuum Relief Air Inlet/Air Release Valve, 1" thru 3" manufactured by Valve & Primer Corp., Schaumbutg, IL., U.S.A.

APCO Willamette
VALVE AND PRIMER CORPORATION

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