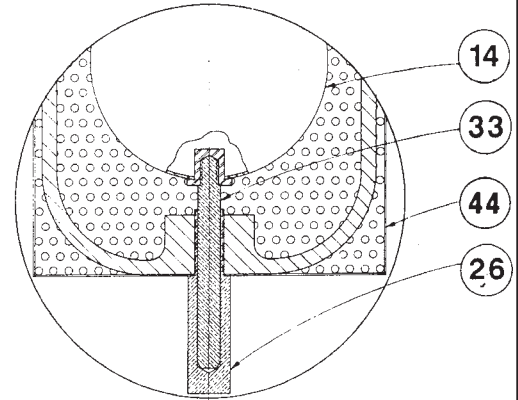
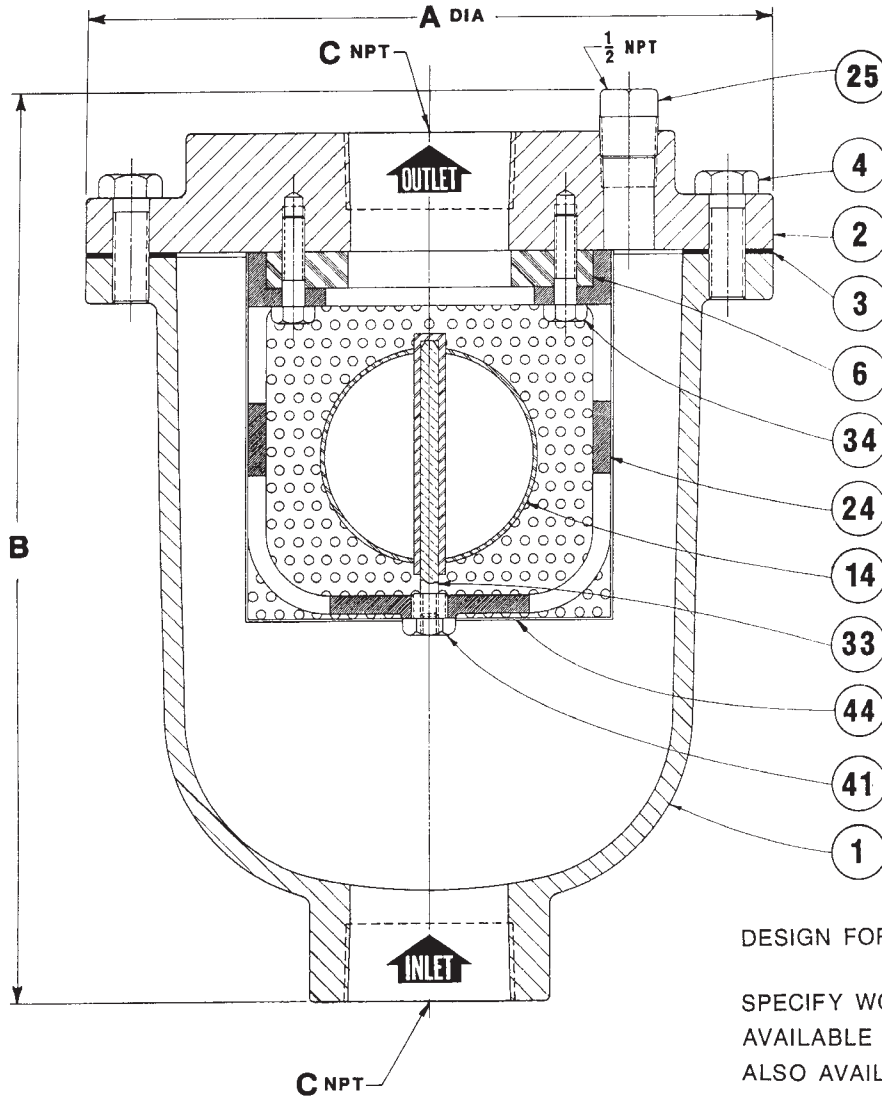


AIR / VACUUM VALVE (with WATER DIFFUSER)



3" 146WD DETAIL

DESIGN FOR: 125 LB. CLASS RATING
 200 PSI MAX. NON-SHOCK SERVICE.
 SPECIFY WORKING PRESSURE _____ PSI
 AVAILABLE WITH 125 LB. FLANGE INLET.
 ALSO AVAILABLE FOR 150 LB., 250 LB., 300 LB.,
 AND 600 LB. CLASS RATING.

SIZE	1/2"	1"	2"	3"
MODEL No.	141WD	142WD	144WD	146WD
A	5 1/8	7	9 1/2	9 1/2
B	7 1/16	9	12 1/2	13
C	1/2	1	2	3
APPROX. SHIPPING WEIGHT, LB.	11	21	43	60

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
6	SEAT	BUNA-N
14	FLOAT	STAINLESS STEEL ASTM A240 T304
24	BAFFLE ¹	DELTRIN ASTM D4181
25	COVER PIPE PLUG ²	MALLEABLE IRON
26	FLOAT BUSHING ³	BRASS ASTM B16 C36000
33	FLOAT GUIDE	BRASS ASTM B16
34	BAFFLE SCREWS	STAINLESS STEEL 18-8
41	BAFFLE PLUG ⁴	BRASS ASTM B16
44	WATER DIFFUSER	BRASS (commercial)

CERTIFIED BY: _____

DATE: _____

1 STANDARD MATERIAL ON SIZE 3" IS CAST IRON ASTM A48 CL. 30.
 2 COVER PIPE PLUG IS NOT AVAILABLE ON SIZE 1/2".
 3 FLOAT STEM BUSHING IS REQUIRED ON SIZE 3".
 4 BAFFLE PLUG IS NOT REQUIRED ON SIZE 3".

DATE
09-01-03



DRWG. NO.
S-140WD

SPECIFICATIONS OTHER SIDE



SPECIFICATIONS

SERIES 140WD AIR / VACUUM VALVES WITH WATER DIFFUSERS

Air / Vacuum Valves shall be designed to allow large quantities of air to escape out the orifice when the vertical turbine pump starts and must close water tight when the liquid enters the valve. The Air / Vacuum Valves shall also permit large quantities of air to enter thru the orifice when the pump stops to break the vacuum. The discharge orifice area shall be equal or greater than the inlet of the valve. When the valve is open, the orifice and the air passage at all points within the valve shall have a cross-sectional area equal to or greater than that through the inlet flange of the valve.

The valve shall consist of a body, cover, baffle, float, and seat. The baffle will be shrouded with a water diffuser, designed to protect the float from direct contact of the rushing air and water, to prevent the float from closing with shock. The seat shall be compression molded Buna-N, fastened to the valve cover without distortion, for tight shut-off and easy removal and replacement if necessary. The float shall be stainless steel, designed to withstand a minimum of 1000 psi (static). The float shall be center guided for positive shut-off into the seat.

All materials of construction shall be certified in writing to conform to A.S.T.M. specifications as follows:

Body, cover	Cast iron	ASTM A126 Gr.B
Baffle [½", 1" & 2"]	Delrin	ASTM D4181
Baffle [3"]	Cast iron	ASTM A48 CL-30
Float*	Stainless steel	ASTM A240 T304
Seat	Buna-N	
Water diffuser	Brass	Commercial
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 140WD Air / Vacuum Valves with Water Diffusers, per Bulletin 586, as manufactured by Valve & Primer Corporation, Schaumburg, Illinois, U.S.A.