

# SLOW CLOSING AIR / VACUUM VALVE

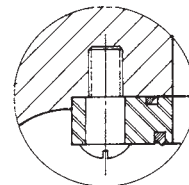
## AIR / VACUUM VALVE

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 <sup>1</sup>	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

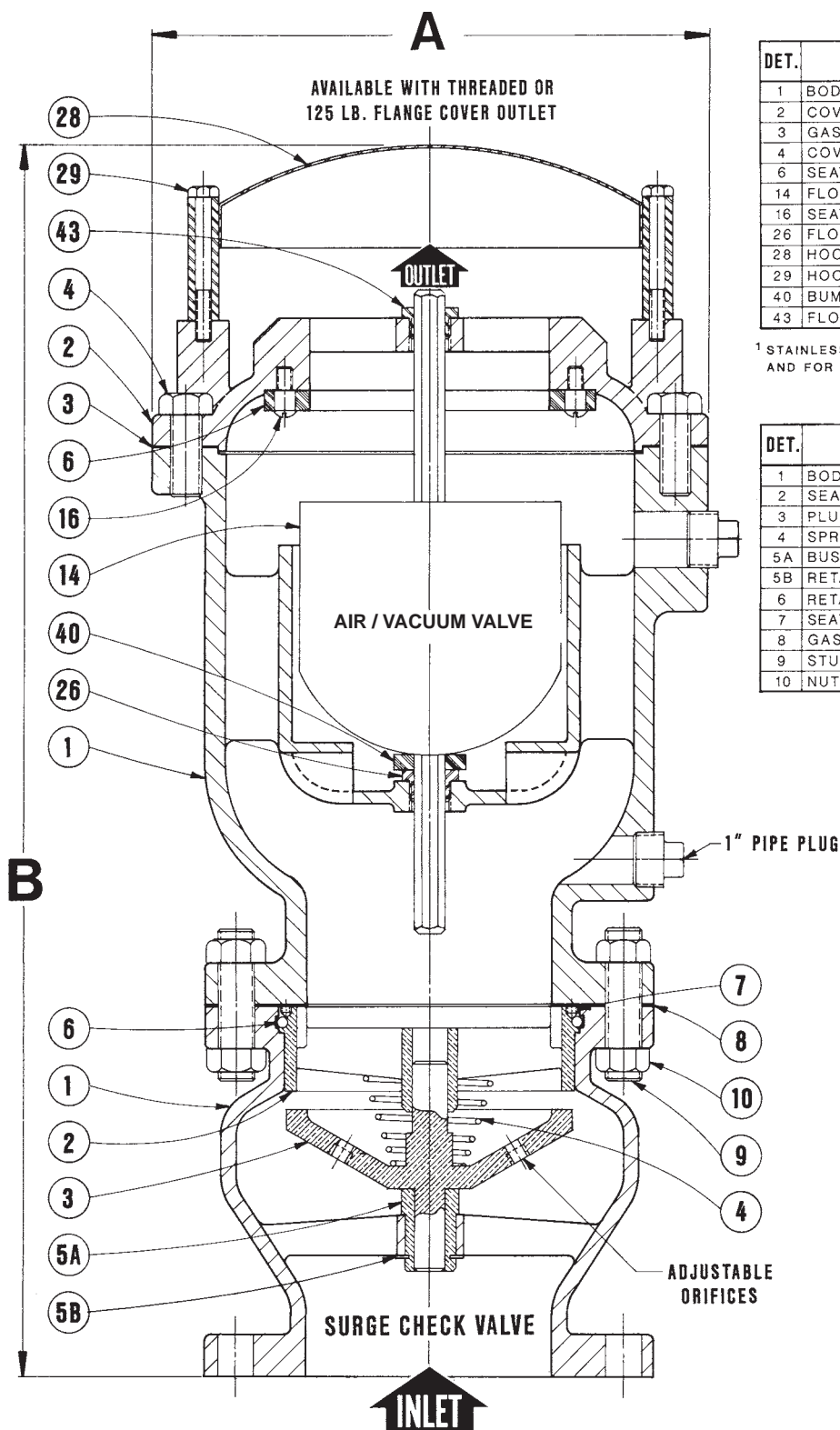
<sup>1</sup> STAINLESS STEEL WITH BUNA-N SEAL FOR 14" & LARGER ON 125 LB. AND FOR ALL SIZES ON 250 LB. CLASS.

## SURGE CHECK VALVE

DET.	DESCRIPTION	MATERIAL
1	BODY	CAST IRON ASTM A126 Gr. B
2	SEAT	BRONZE ASTM 584
3	PLUG	BRONZE ASTM 584
4	SPRING	STAINLESS STEEL ASTM A276 T316
5A	BUSHING	BRASS ASTM B16 C36000
5B	RETAINING RING	STAINLESS STEEL 15-7Mo
6	RETAINING BALL	STAINLESS STEEL ASTM A276 T440
7	SEAT RETAINING SCREW	STAINLESS STEEL 18-8
8	GASKET	LEXIDE (NON-ASBESTOS)
9	STUD	STEEL AISI 1018
10	NUT	STEEL ASTM A307 Gr. B



SEAT DETAIL FOR  
AIR AND VACUUM VALVE  
FOR 125 LB: 14" & LARGER  
FOR 250 LB: ALL SIZES



VALVE SIZE	MODEL No.	COMBINATION	A	B	
				125 LB	250 LB
4"	1904	1604 / 152	11 <sup>1</sup> / <sub>8</sub>	25 <sup>3</sup> / <sub>4</sub>	25 <sup>3</sup> / <sub>4</sub>
6"	1906	1606 / 153	13 <sup>5</sup> / <sub>8</sub>	30 <sup>1</sup> / <sub>4</sub>	30 <sup>1</sup> / <sub>2</sub>
8"	1908	1608 / 154	17 <sup>1</sup> / <sub>4</sub>	34 <sup>7</sup> / <sub>8</sub>	35 <sup>3</sup> / <sub>8</sub>
10"	1910	1610 / 155	20	38 <sup>7</sup> / <sub>8</sub>	39 <sup>1</sup> / <sub>2</sub>
12"	1912	1612 / 156	25	45 <sup>1</sup> / <sub>8</sub>	45 <sup>1</sup> / <sub>8</sub>
14"	1914	1614 / 157	29	46 <sup>7</sup> / <sub>8</sub>	46 <sup>7</sup> / <sub>8</sub>
16"	1916	1616 / 158	32	49 <sup>1</sup> / <sub>4</sub>	49 <sup>1</sup> / <sub>4</sub>
18"	1918	1618 / 159	33	61	64 <sup>3</sup> / <sub>8</sub>
20"	1920	1620 / 160	40	68 <sup>3</sup> / <sub>4</sub>	68 <sup>3</sup> / <sub>4</sub>
24"	1924	1624 / 162	44	80 <sup>3</sup> / <sub>4</sub>	80 <sup>3</sup> / <sub>4</sub>

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

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

DATE  
09-01-03

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

DRWG. NO.  
S-1900

SPECIFICATIONS OTHER SIDE



# SPECIFICATIONS

## SERIES 1900 SLOW CLOSING AIR / VACUUM VALVE

Slow Closing Air / Vacuum Valve shall have two (2) independent valves bolted together. The Air / Vacuum Valve must have all stainless steel float guided on both ends with stainless steel shafts. The Air / Vacuum Valve seat must be Buna-N to insure drop tight closure. The Buna-N seat shall be fastened to the cover with stainless steel shoulder screws in a manner to prevent distortion of the seat. The float shall be guided at both ends with stainless steel bushings.

The valve cover shall have a male lip designed to fit into the body register for accurate alignment of the float into the Buna-N seat. The valve cover shall have a threaded or flanged outlet connection.

The Surge Check Valve shall be bolted to the inlet of the Air / Vacuum Valve and consist of a body, seat, disc and compression spring. A surge check unit shall operate on the interphase between the kinetic energy and relative velocity flows of air and water. After air passes through and water rushes into the surge check, the disc starts to close, reducing the rate of flow of water into the air valve by means of throttling orifices in the disc to prevent water hammer in the Air Valves. The surge check orifices must be adjustable for regulation in the field to suit operating conditions.

The independent Surge Check Valve can be added to Air Valves previously installed.

The complete Slow Closing Air / Vacuum Valve shall have been flow tested in the field, substantiated with test data to show reduction of surge pressure in the valve.

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

Air valve cover, body and surge check body	Cast iron	ASTM A126 Gr. B
<b>*Float</b>	Stainless Steel	ASTM A240
Surge check seat & disc	Bronze	ASTM 584
Air valve seat	Buna-N	
Spring	Stainless Steel	ASTM A276 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 1900 Slow Closing Air / Vacuum Valve, as manufactured by Valve & Primer Corporation, Schauinburg, Illinois, U.S.A.