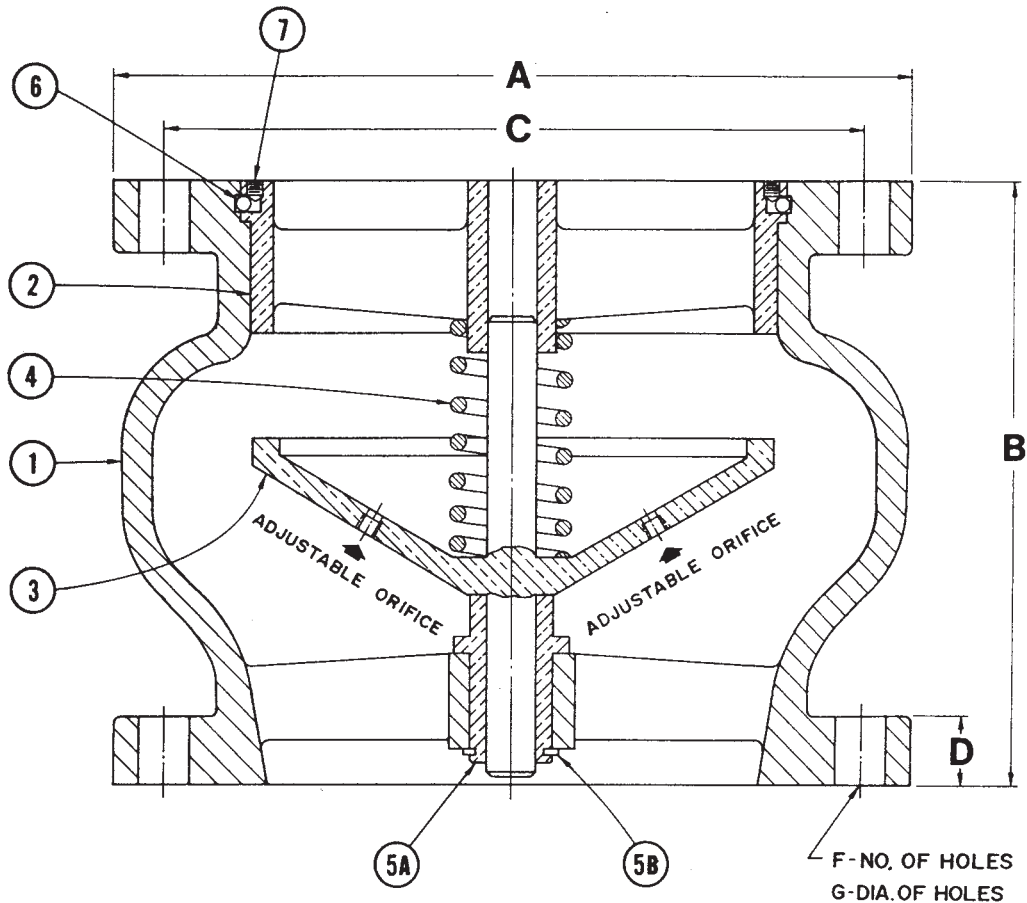


SURGE CHECK VALVE



CERTIFIED BY: _____
DATE: _____

125 LB. CLASS

SIZE	2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"	30"
A	*	7 1/2	9	11	13 1/2	16	19	21	23 1/2	25	27 1/2	32	38 3/4
B	*	6	7 1/4	9	10 1/8	12	14 3/8	15 3/4	17 5/8	18 3/4	20 5/8	24	29 1/4
C	*	6	7 1/2	9 1/2	11 3/4	14 1/4	17	18 3/4	21 1/4	22 3/4	25	29 1/2	36
D	*	15/16	15/16	1	1 1/8	1 3/16	1 1/4	1 3/8	1 7/16	1 9/16	1 11/16	1 7/8	2 1/8
F	*	4	8	8	8	12	12	12	16	16	20	20	28
G	*	3/4	3/4	7/8	7/8	1	1	1 1/8	1 1/8	1 1/4	1 1/4	1 3/8	1 3/8

PARTS LIST

DET.	DESCRIPTION	MATERIAL
1	BODY	CAST IRON
2	SEAT	BRONZE
3	PLUG	BRONZE
4	SPRING	S.S.
5A	BUSHING	BRASS
5B	RET. RING	S.S.
6	SEAT RET. BALL	S.S.
7	SEAT RET. SCREW	SS.

250 LB. CLASS

SIZE	2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"	30"
A	*	8 1/4	10	12 1/2	15	17 1/2	20 1/2	23	25 1/2	28	30 1/2	36	43
B	*	6	7 1/4	9	10 1/8	12	14 3/8	15 3/4	17 5/8	18 3/4	20 5/8	24	29 1/4
C	*	6 5/8	7 7/8	10 5/8	13	15 1/4	17 3/4	20 1/4	22 1/2	24 3/4	27	32	39 1/4
D	*	1 1/8	1 1/4	1 7/16	1 5/8	1 7/8	2	2 1/8	2 1/4	2 3/8	2 1/2	2 3/4	3
F	*	8	8	12	12	16	16	20	20	24	24	24	28
G	*	7/8	7/8	7/8	1	1 1/8	1 1/4	1 1/4	1 3/8	1 3/8	1 3/8	1 5/8	2

* WAFER STYLE — SEE DRWG. S-1602

DATE
09-01-03



DRWG. NO.
S-1600

SPECIFICATIONS OTHER SIDE



SPECIFICATIONS

SERIES 1600 SURGE CHECK VALVE

The Surge Check Valve shall have integral flanges for installation to the inlet of the existing Air / Vacuum Valve on the line. It shall consist of a body, seat, flow disc and compression spring. The 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 Surge Check Valve shall mate to the inlet of air valves previously installed on the pipeline.

The Surge Check Valve shall have been flow tested and the test data submitted to the Engineer to verify surge pressure reduction in the valve.

Valve exterior to be painted Universal Primer for high resistance to corrosion.

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

Body	Cast Iron	ASTM A126, Gr. B
Seat & disc	Bronze	ASTM B584
Spring	Stainless steel	T302

Valve to be APCO Series 1600 Surge Check Valve, as manufactured by Valve & Primer Corporation , Schauniburg, Illinois, U.S.A.