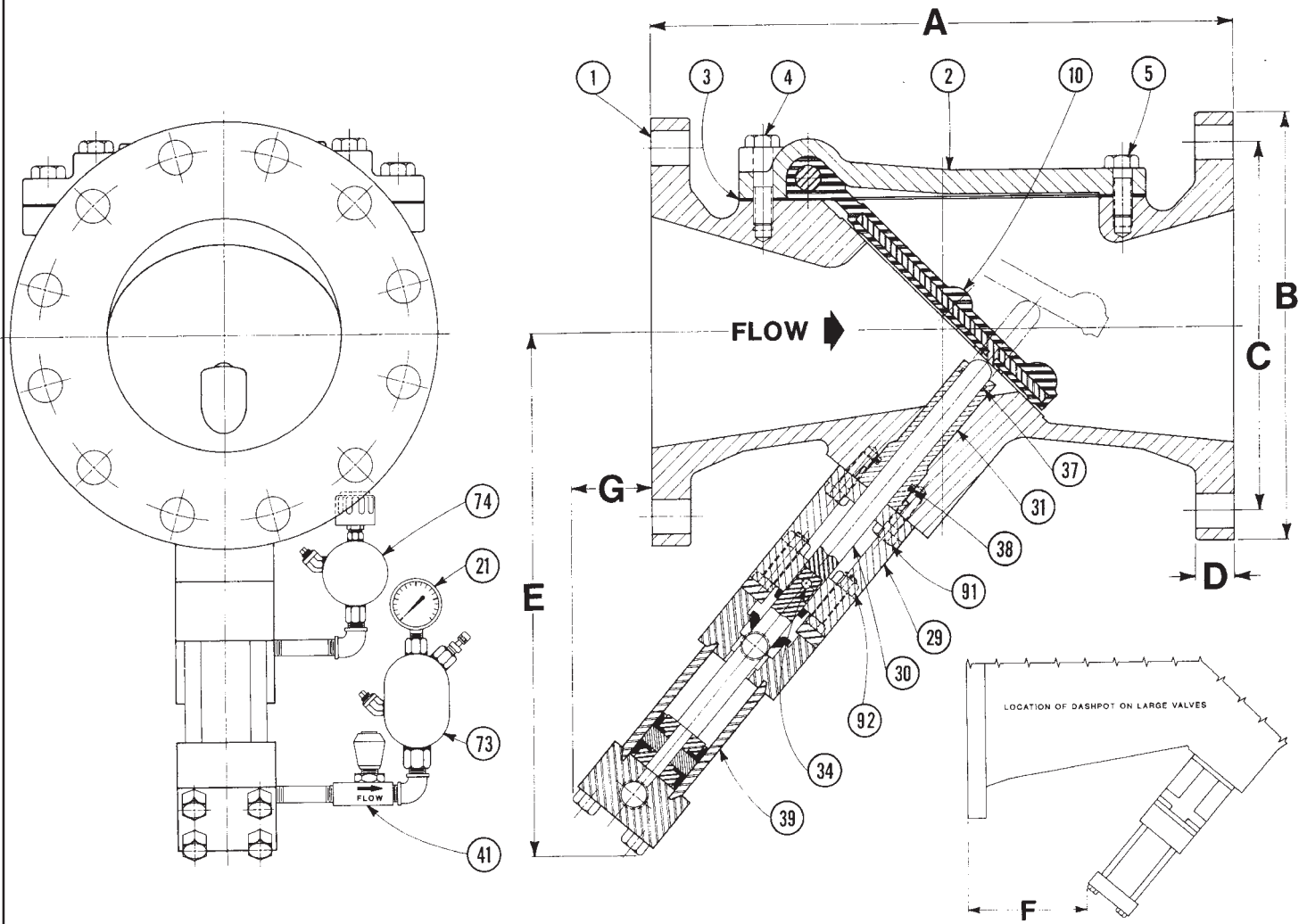


RUBBER FLAPPER CHECK VALVE with Bottom Buffer



DET.	DESCRIPTION	MATERIAL
1	BODY	CAST IRON ASTM A48 CL. 30
2	COVER	CAST IRON ASTM A48 CL. 30
3	GASKET	LEXIDE (NON ASBESTOS)
4	COVER BOLT	STEEL ASTM A307 GR. B
5	COVER BOLT	STEEL ASTM A307 GR. B
10	RUBBER FLAPPER	BUNA-N (STEEL REINFORCED)
21	PRESSURE GAUGE	STEEL
29	DASHPOT SPACER	DUCTILE IRON ASTM A536
30	BUFFER ROD	STAINLESS STEEL ASTM A582
31	BUFFER BUSHING	BRONZE SAE 660
34	BUFFER ROD PIN	STAINLESS STEEL H. T.
37	BUFFER ROD SEAL	BUNA-N
38	BUFFER BUSHING SEAL	BUNA-N
39	DASHPOT CYLINDER	STEEL (COMMERCIAL)
41	FLOW CONTROL VALVE	BRASS
73	ACCUMULATOR	STAINLESS STEEL
74	OIL RESERVOIR	STAINLESS STEEL
91	DASHPOT SPACER MOUNTING BOLT	STEEL ASTM A307 GR. B
92	CYLINDER TIE ROD NUT	STEEL

APPLICATION INFORMATION REQUIRED:

OPERATING PRESSURE _____ psi.
 MEDIA _____
 TEMPERATURE _____ °F.

VALVE SIZE MODEL No.	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"
104P3B		105B	106B	108B	110B	112B	114B	116B	118B	120B	124B
A	13 ³ / ₄	13 ³ / ₄	15	19 ¹ / ₂	24 ¹ / ₂	27 ¹ / ₂	31	32	36	40	48
B	9	10	11	13 ¹ / ₂	16	19	21	23 ¹ / ₂	25	27 ¹ / ₂	32
C	7 ¹ / ₂	8 ¹ / ₂	9 ¹ / ₂	11 ³ / ₄	14 ¹ / ₄	17	18 ³ / ₄	21 ¹ / ₂	22 ³ / ₄	25	29 ¹ / ₂
D	15 ¹⁵ / ₁₆	15 ¹⁵ / ₁₆	1	1 ¹ / ₈	1 ³ / ₁₆	1 ¹ / ₄	1 ³ / ₈	1 ⁹ / ₁₆	1 ⁹ / ₁₆	1 ¹¹ / ₁₆	1 ⁷ / ₈
E	13 ¹ / ₄	13 ¹ / ₄	13 ¹ / ₄	14	18	18	18	18	22 ¹ / ₂	22 ¹ / ₂	26
F	-	-	-	-	-	3 ³ / ₄	4	4 ¹ / ₂	3	5	6
G	3 ¹ / ₄	3	2 ³ / ₄	1 ¹ / ₄	1 ¹ / ₄	-	-	-	-	-	-
SIZE of HOLES	3 ³ / ₄	7 ⁷ / ₈	7 ⁷ / ₈	7 ⁷ / ₈	1	1	1 ¹ / ₈	1 ¹ / ₈	1 ¹ / ₄	1 ¹ / ₄	1 ³ / ₈
No. of HOLES	8	8	8	8	12	12	12	16	16	21	21

CERTIFIED BY: _____

DATE: _____

DATE
09-01-03



DRWG. NO.
S-100B

SPECIFICATIONS OTHER SIDE



SPECIFICATIONS

SERIES 100B RUBBER FLAPPER CHECK VALVE WITH BOTTOM BUFFER

The Rubber Flapper Swing Check Valve shall have a heavily constructed cast iron body and cover. The body shall be full flow long pattern design (not Wafer) with integrally cast-on end flanges. The flapper shall be Buna-N having an "O" ring seating edge and be internally reinforced with steel.

Flapper to be captured between the body and the body cover in a manner to permit the flapper to flex from closed to full open position during flow through the valve. Flapper shall be easily removed without need to remove the valve from the line. The flapper shall have an elastic spring molded internally, to close the flapper against the body seat. Seating surface to be on a 45° angle requiring the flapper to travel 35° from closed to full open position for minimum head loss and non-slam closure.

The Valve shall have a bottom buffer for free open and positive non-slam closing. The buffer shall be designed to contact the disc during the last 10% of closure and thereafter control the closure until the valve is shut off in a manner to minimize or prevent water hammer. The rate of closure shall be externally adjustable.

The valve manufacturer shall have been regularly engaged in the manufacture of Rubber Flapper Swing Check Valves for at least five years and shall submit a list of at least five separate installations in service for a minimum of five years for engineer approval prior to release to manufacture.

OPERATING & MAINTENANCE INSTRUCTION Manuals shall be furnished with submittal Drawings.

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

Body & Cover	Cast Iron	ASTM A48, Class 30 or Ductile Iron ASTM A536
Rubber Flapper	Buna-N	
Buffer rod	Stainless Steel	ASTM A582
Buffer cylinder	Steel	Commercial
Exterior paint	Universal Primer	FDA Approved for Potable Water Contact

Note: Other materials available.

Valve to be APCO Series 100B Rubber Flapper Check Valve with Bottom Buffer, as manufactured by Valve & Primer Corporation, Schaumburg, Illinois, USA.