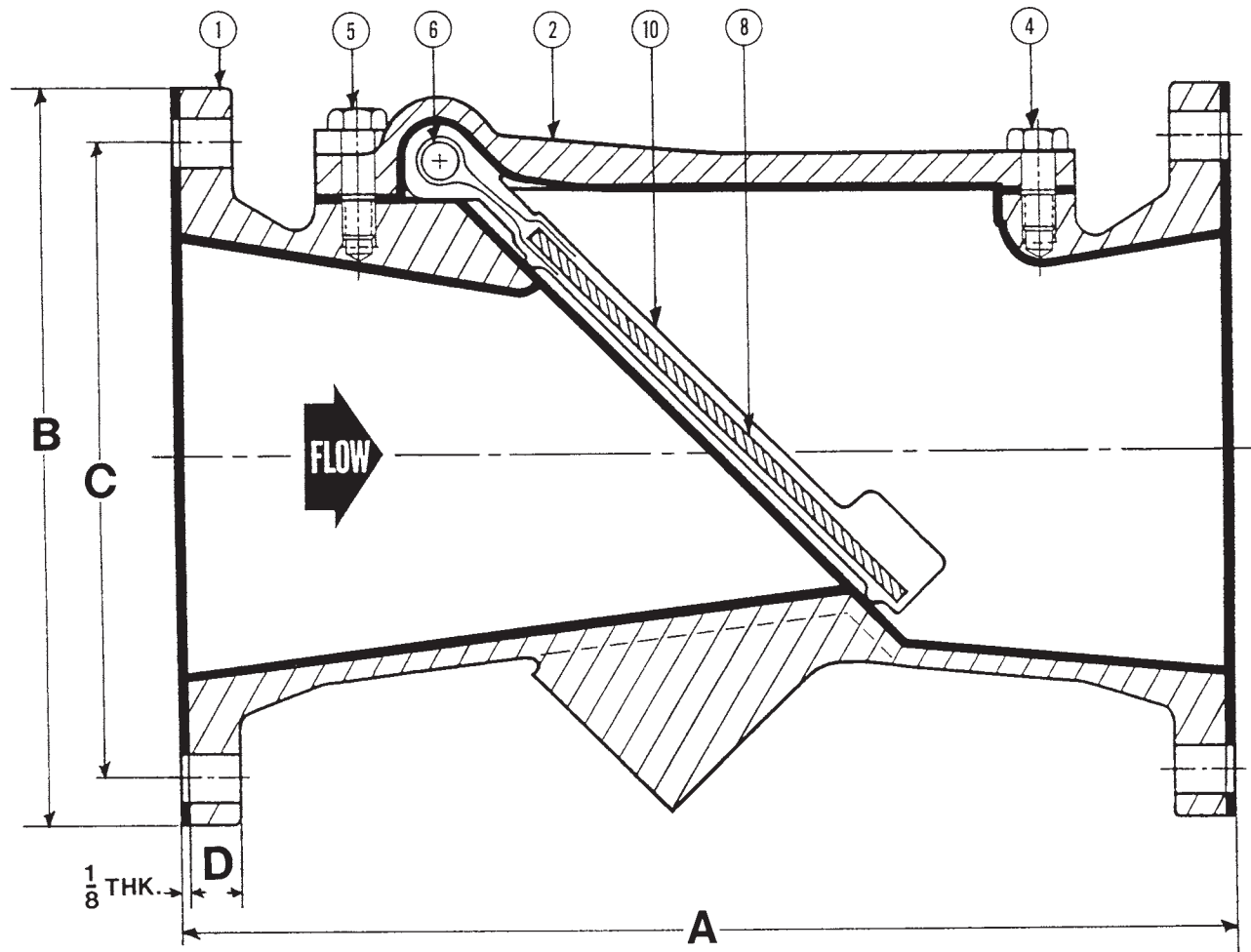


RUBBER FLAPPER SWING CHECK VALVE (RUBBER LINED)



CERTIFIED BY: _____

DATE: _____

APPLICATION INFORMATION REQUIRED :

OPERATING PRESSURE _____ psi.

MEDIA _____

TEMPERATURE _____ ° F.

SIZE	2"	2½"	3"	4"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"
MODEL NO.	102R	102½R	103R	104R	104P3R	105R	106R	108R	110R	112R	114R	116R	118R	120R	124R
A	8¼	8¾	9¾	11¾	14	14	15¼	19¾	24¾	27¾	31¼	32¼	36¼	40¼	48¼
B	6	7	7½	9	9	10	11	13½	16	19	21	23½	25	27½	32
C	4¾	5½	6	7½	7½	8½	9½	11¾	14¼	17	18¾	21½	22¾	25	29½
D	5/8	11/16	3/4	15/16	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
SIZE of HOLES	3/4	3/4	3/4	3/4	3/4	7/8	7/8	7/8	1"	1"	1 1/8	1 1/8	1 1/4	1 1/4	1 3/8
No. of HOLES	4	4	4	8	8	8	8	8	12	12	12	16	16	20	20

DET. NO.	DESCRIPTION	MATERIAL
1	BODY	CAST IRON ASTM A126 GRADE B
2	COVER	CAST IRON ASTM A126 GRADE B
4	COVER BOLTS	STEEL ASTM A 307 GRADE B
5	COVER BOLTS	STEEL ASTM A 307 GRADE B
6	PIN	H.R.S. AISI 1018
8	METAL PLATE	STEEL ASTM A 36
10	RUBBER FLAPPER	BUNA-N

NOTE: Metal plate (8) and pin (6) on flapper are totally encapsulated.

NOTE: LARGER SIZES AVAILABLE

DATE
09-01-03

APCO *Willamette*
VALVE AND PRIMER CORPORATION

DRWG. NO.
S-100R

SPECIFICATIONS OTHER SIDE



SPECIFICATIONS

SERIES 100R RUBBER FLAPPER SWING CHECK VALVE (RUBBER LINED)

The Rubber Flapper Swing Check Valve shall have a heavily constructed cast iron body and cover. The body shall be 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.

The body and cover shall be lined with 1/8" thick natural rubber. The lining shall be auto-claved to the body and cover and cured to 55 Durometer shore A±5. The lining shall be tested in conformance with ASTM D573.

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. Check Valves to have full pipe size flow area. Seating surface to be on a 45° angle requiring the flapper to travel only 35° from closed to full open position for minimum head loss and non-slam closure.

Buna-N Flapper (70 Duro) creates an elastic spring effect to assist the flapper to close against a slight head to prevent slamming.

Valve designed for 175 PSI (higher pressure available) working pressure for water, sewage, oil or gas. The valve shall be suitable for buried service with stainless cover bolts.

When essential to create back-flow thru the check valve or prime or back-flush a clogged pump, an external back-flow device can be furnished sizes 3" thru 24".

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
Flapper	Buna-N	
Lining	Natural Rubber	
Exterior Paint	Universal Primer	FDA Approved for Potable Water

Valve to be APCO Series 100R Rubber Flapper Swing Check Valve, (Rubber Lined) as manufactured by Valve & Primer Corporation, Schaumburg, Illinois, U.S.A.