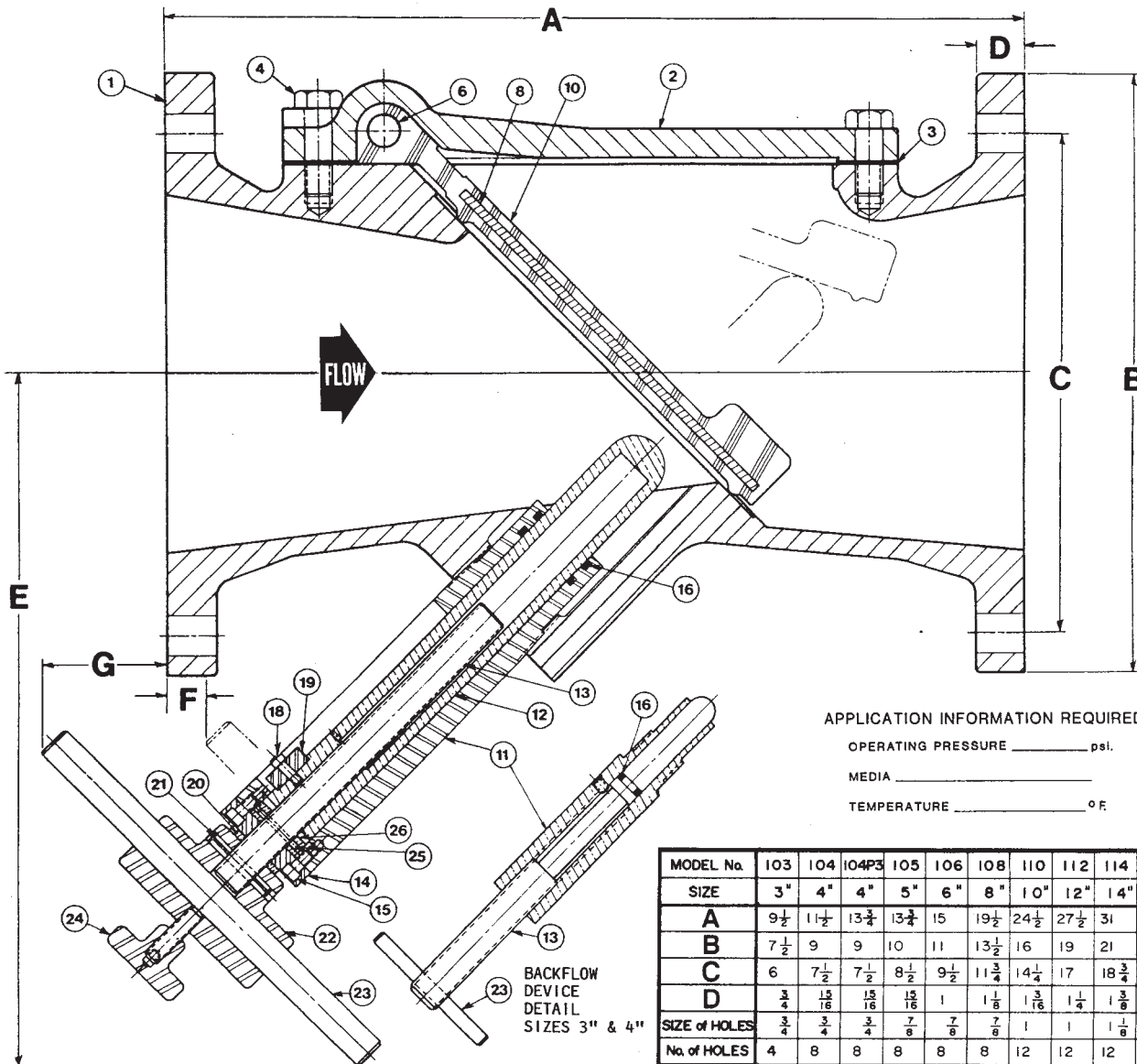


# RUBBER FLAPPER SWING CHECK VALVE WITH BACKFLOW DEVICE

DET.	DESCRIPTION	MATERIAL	DET.	DESCRIPTION	MATERIAL
1	BODY	CAST IRON ASTM A126 GR.B	15	HOUSING COVER SCREW	STEEL ASTM A307 GR.B
2	COVER	CAST IRON ASTM A126 GR.B	16	BUFFER ROD SEAL	BUNA-N
3	GASKET	LEXIDE	18	GUIDE STOP SCREW	STEEL
4	COVER BOLT	STEEL ASTM A307 GR.B	19	GUIDE STOP	STEEL AISI 1018
6	PIN	STEEL AISI 1018	20	THRUST BEARING	BRONZE SAE 660
8	METAL PLATE	STEEL ASTM A-36	21	HANDLEBAR HUB PIN	SPRING STEEL
10	RUBBER FLAPPER	BUNA-N	22	HANDLEBAR HUB	STEEL AISI 1018
11	HOUSING	BRONZE*	23	HANDLEBAR	STEEL AISI 1018
12	BUFFER ROD	BRASS	24	HANDLEBAR LOCK SCREW	STEEL
13	BUFFER SCREW	BRONZE*	25	BUFFER BUSHING PIN	SPRING STEEL
14	HOUSING COVER	STEEL AISI 1018	26	BUFFER BUSHING	BRONZE SAE 660

NOTE: PIN #6 & METAL PLATE #8 ARE TOTALLY ENCAPSULATED IN BUNA-N.  
 \* STEEL AISI 1018 FOR SIZES 5" & UP.



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

APPLICATION INFORMATION REQUIRED :  
 OPERATING PRESSURE \_\_\_\_\_ psi.  
 MEDIA \_\_\_\_\_  
 TEMPERATURE \_\_\_\_\_ °F

MODEL No.	103	104	104P3	105	106	108	110	112	114	116	118	120	124
SIZE	3"	4"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"
A	9½	11½	13¾	13¾	15	19½	24½	27½	31	32	36	40	48
B	7½	9	9	10	11	13½	16	19	21	23½	25	27½	32
C	6	7½	7½	8½	9½	11¾	14¼	17	18¾	21½	22¾	25	29½
D	¾	15/16	15/16	15/16	1	1 1/8	1 3/16	1 ¼	1 5/8	1 7/16	1 9/16	1 11/16	1 7/8
SIZE of HOLES	¾	¾	¾	7/8	7/8	7/8	1	1	1 1/8	1 1/8	1 ¼	1 ¼	1 3/8
No. of HOLES	4	8	8	8	8	8	12	12	12	16	16	20	20
E	8	8½	12¼	12	12½	15½	22	20½	22	22	20	28	30
F	1	2¼	—	—	—	—	—	—	¾	1¼	—	—	—
G	—	—	2¼	2½	1 5/8	1¾	1¾	2	—	—	2	1¾	1¾

DATE  
 09-01-03



DRWG. NO.  
 S-100H

SPECIFICATIONS OTHER SIDE



# SPECIFICATIONS

## SERIES 100H RUBBER FLAPPER SWING CHECK VALVE WITH BACKFLOW DEVICE

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 entire flapper shall be compression molded, not fabricated for tight shut-off and long life.

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 and replaced without need to remove the complete valve from the line. Check valve 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.

The main valve body shall be fitted with a manually operated Back-flow Device for raising the flapper off the seat to create flow reversal from the pipeline thru the valve for the purpose of draining the line, back-flushing a clogged pump, or for priming the pump.

Valve shall be designed for 175 psi working pressure for water or sewage. The valve shall be suitable for buried service with stainless cover bolts.

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	

Note: Other materials available.

### BACKFLOW DEVICE

Housing	Steel or bronze	AISI-1018 or ASTM B143
Buffer rod	Brass	ASTM B16
Handlebar	Steel	Commercial steel

Valve to be APCO Series 100H Rubber Flapper Swing Check Valve with Back-flow Device as manufactured by Valve & Primer Corporation, Schaumburg, Illinois, U.S.A.