

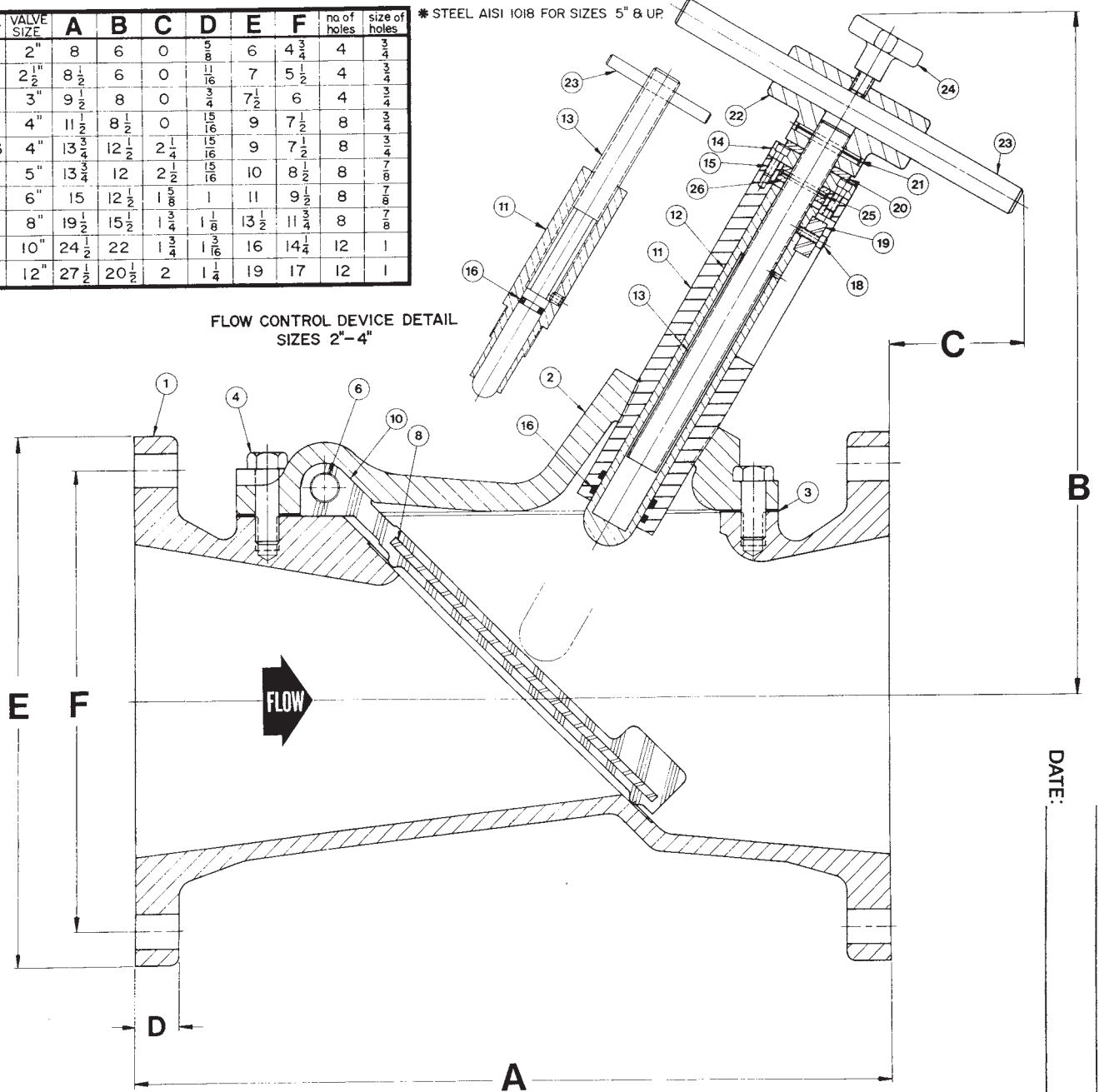
RUBBER FLAPPER FLOW CONTROL CHECK VALVE

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:
METAL PLATE (8) & PIN (6) ON FLAPPER
ARE TOTALLY ENCAPSULATED IN BUNA-N.

MODEL No.	VALVE SIZE	A	B	C	D	E	F	no. of holes	size of holes
102	2"	8	6	0	5/8	6	4 3/4	4	3/16
102 1/2	2 1/2"	8 1/2	6	0	11/16	7	5 1/2	4	3/16
103	3"	9 1/2	8	0	3/4	7 1/2	6	4	3/16
104	4"	11 1/2	8 1/2	0	15/16	9	7 1/2	8	3/16
104P3	4"	13 3/4	12 1/2	2 1/4	15/16	9	7 1/2	8	3/16
105	5"	13 3/4	12	2 1/2	15/16	10	8 1/2	8	7/8
106	6"	15	12 3/4	1	1	11	9 1/2	8	7/8
108	8"	19 1/2	15 1/2	1	1 1/8	13 1/2	11 3/4	8	1 1/8
110	10"	24 1/2	22	1 3/4	1 3/8	16	14 1/4	12	1
112	12"	27 1/2	20 1/2	2	1 1/4	19	17	12	1

* STEEL AISI 1018 FOR SIZES 5" & UP



FLOW CONTROL DEVICE DETAIL
SIZES 2"-4"

CERTIFIED BY: _____
DATE: _____

DATE
09-01-03



DRWG. NO.
S-100T

SPECIFICATIONS OTHER SIDE



SPECIFICATIONS

SERIES IOOT RUBBER FLAPPER FLOW CONTROL CHECK VALVE

The Rubber Flapper Flow Control Check Valve shall have a heavily constructed cast iron body and cover. The body shall be straight pattern design with integrally cast-on end flanges. The flapper shall be compression molded Buna-N having an "O" ring seating edge and be internally reinforced with steel. All Steel shall be encapsulated by Buna-N material.

The flapper to be captured between the body and cover in a manner to permit the flapper to flex from closed to open position. Flapper shall be easily removed without need to remove the valve from the line. The flapper shall travel 35° to fully open from the 45° seat angle providing accurate and responsive throttling action with minimal adjustment to the valve stem.

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

The control device shall allow full adjustment capability in regulating pump discharge flow and shut-off and shall be equipped with a locking device to prevent tampering.

Valve designed for 175 PSI working pressure (Specify when operating pressure below 75 PSI).

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

Body and Cover	Cast Iron	ASTM A126, Gr.B
	Bronze	ASTM 584
	Stainless steel	ASTM A296
	Ductile Iron	ASTM A536
Flapper	Buna-N or other elastomers	
Exterior Paint	Universal Metal Primer	FDA Approved for potable water contact

Note: Other materials available.

Valve to be APCO Series 100T Swing Check Valve, as supplied by Valve & Primer Corporation, Schaumburg, Illinois, U.S.A.