



M&H Valve Co.
ANNISTON, ALABAMA

SUGGESTED SPECIFICATIONS FOR:

M&H AWWA Swing Check Valves

- Styles 59-Plain; 259-Lever/Spring
- Sizes 2" Through 30"
- Water/Sewage Service

RECEIVED

JUL 13 1987

PORT OF BREMERTON

GENERAL

Check valves shall be of the iron body, bronze mounted, full opening swing type. Valve clapper shall swing completely clear of the waterway when valve is full open, permitting a "full flow" thru the valve equal to the nominal pipe diameter. They shall comply with AWWA Standard C-508 latest revision.

RATING

Check Valves shall be rated for 175 psi water working pressure, 350 psi hydrostatic test for structural soundness (2" through 12") and 150 psi water working pressure, 300 psi hydrostatic test (sizes 14" through 30") (when specified all sizes for 250 psi W.W.P.). Seat tightness at rated working pressure shall be in accordance with values shown in AWWA Standard C-500 for gate valves and fully conform to AWWA C508-76.

END CONFIGURATIONS

Check valves shall be furnished with type of end connection as follows: 125# ANSI flanged ends, mechanical joint per AWWA C-111 with (without) accessories, or screwed end 2" through 6"

MATERIALS

All cast iron shall conform to ASTM-A-126 Class B. Castings shall be clean and sound without defects that will impair their service. No plugging or welding of such defects will be allowed.

Clappers shall be all bronze for sizes through 4" and cast iron, bronze faced for sizes 6" and larger. When specified, neoprene rubber facing shall be furnished in place of bronze facing.

Hinge pins shall be 18-8 Stainless Steel rotating in bronze plugs.

Bolts shall be electro-zinc plated steel with hex heads and hex nuts in accordance with ASTM A-307.

DESIGN

Check valves shall be constructed to permit top entry for complete removal of internal components without removing the valve from the line.

Glands shall be O-ring—2"-12" sizes and conventional in 14"-30" sizes.

When specified, for application conditions of rapid flow reversal or vertical installation, check valves shall be equipped with adjustable outside lever & spring to accomplish faster closing and to minimize slamming effect.

Bosses shall be provided on check valves which may be tapped for draining or used for by-pass. When tapping is required, boss designation and size of tap should be stated.

All valves 14" and larger shall have extended hinge pins for future addition of levers and springs if required. Valves shall be suitable for installation in either horizontal or vertical position. Increasing check valves shall be available in accordance with the provisions of this specification.

PAINTING

The inside and outside of all valves, together with the working parts except bronze and machined surfaces, shall be coated in accordance with AWWA standards and Federal Spec TTC-494A or equal.

MARKING

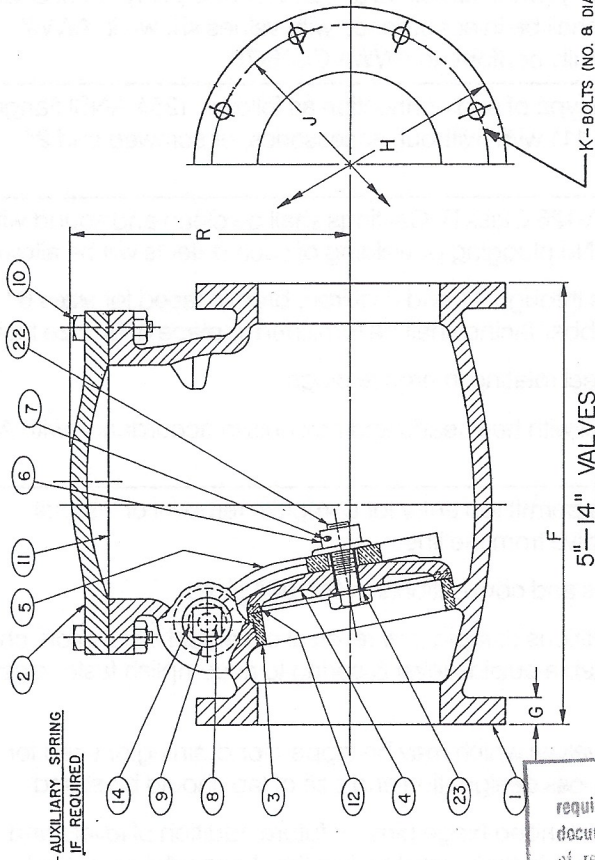
Marking shall be in accordance with AWWA C-508 and shall include size, working pressure, and cast arrow to indicate direction of flow, name of manufacturer, and year of manufacture.

BILL OF MATERIAL

MARK	REQ'D.	DESCRIPTION	MATERIAL
1	1	BODY	CAST IRON
2	1	COVER	CAST IRON
3	1	BODY RING	BRONZE
4	1	CLAPPER	SEE NOTE #1
5	1	CLAPPER ARM	BRONZE
6	1	CLAPPER NUT	BRONZE
7	1	COTTER PIN	BRONZE
8	1	HINGE PIN	STN. STL.
9	2	SIDE PLUG	BRONZE
10	VAR.	COVER BOLTS AND NUTS	STEEL
11	1	COVER GASKET	ASBESTOS
12	1	CLAPPER RING (5"-14")	BRONZE
13	2	SPRING BRACKET CAP SCRS.	STEEL
14	2	SIDE PLUG GASKET	COPPER ASBESTOS
15	1	WEIGHT LEVER ARM (SEE NOTE #2)	CAST IRON
16	1	WEIGHT	CAST IRON
17	1	SPRING LEVER ARM	SEE NOTE #3
18	1	SPRING	STEEL
19	1	SPRING BRACKET	STEEL
20	1	SPRING EYEBOLT	STEEL
21	2	STUFFING BOX ASSEMBLY	BRONZE
22	1	CLAPPER BOLT	BRONZE
23	1	CLAPPER BOLT GASKET	COPPER ASBESTOS
24	2	O-RING SIDE PLUG	BRONZE
25	2	O-RING	RUBBER

NOTES:

- BRONZE ON 2" THRU 4" VALVES.
- CAST IRON ON 5" THRU 14" VALVES.
- WEIGHT LEVER ARM ON 14" VALVE ONLY—STEEL.
- BRONZE ON 2", 2½", & 3".
- CAST IRON ON 4", 6", 8", 10", 12" & 14".



2"-14" SPRING & LEVER CHECK VALVE

STYLE NO. 259-02

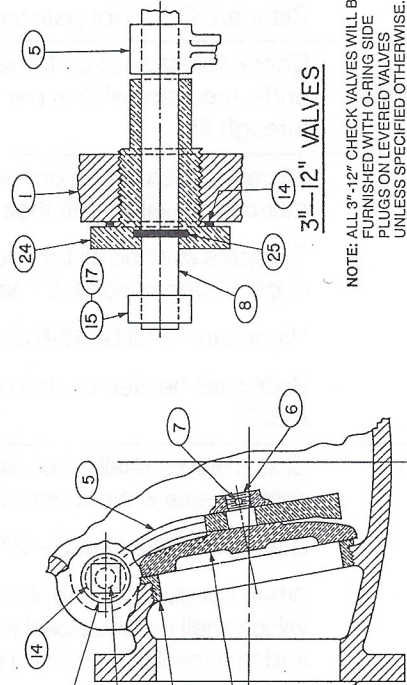
This submittal has been reviewed for compliance with general requirements of design and performance only, and is not a contract document and acknowledgment of compliance does not relieve Contractor of responsibility for performance of the work in compliance with all provisions and requirements of the contract. The Contractor shall be responsible for all measurements and construction of the work and shall be responsible for all materials and equipment used in the work and shall be responsible for all safety requirements and shall be responsible for all safety requirements.

By *[Signature]*

Bovay North West Inc.

5"-14" VALVES WITH BRONZE FACED CLAPPER

STYLE NO. 59-02



3"-12" VALVES

NOTE: ALL 3"-12" CHECK VALVES WILL BE FURNISHED WITH O-RING SIDE PLUGS ON LEVERED VALVES UNLESS SPECIFIED OTHERWISE.

2"-4" VALVES WITH BRONZE CLAPPER

2"-14" LEVER & WEIGHT CHECK VALVE

STYLE NO. 159-02

VALVE SIZE	F	G	H	J	K	Q	R	S	T	U
2	8	5/8	6	4 3/4	4-3/4	6 1/4	5 1/4	4 3/4	4 3/4	7 1/2
2 1/2	10	1 1/8	7	5 1/2	4-3/4	6 3/4	6	5 1/4	5 1/4	—
3	10 1/4	3/4	7 1/2	6	4-3/4	7 3/4	6 1/2	5 1/2	5 1/2	10 3/4
4	13	1 1/8	9	7 1/2	8-3/4	9 1/4	8	7	8	13
6	16	1	11	9 1/2	8-3/4	12 1/4	10	8 3/4	9 3/4	16 1/2
8	19	1 1/8	13 1/2	11 3/4	8-3/4	14 3/4	12 1/4	10 3/4	11 3/4	20
10	22	1 3/8	16	14 1/4	12-7/8	19	14 1/4	13 1/4	13 1/4	23 1/2
12	26	1 1/2	19	17	12-7/8	21	16 3/4	15 3/4	15 3/4	31
14	30	1 3/4	21	18 3/4	12-1	23 1/2	18 3/4	15 1/2	17	32 1/2

NOTE: DIMENSIONS GIVEN IN INCHES

WATER WORKING PRESSURE 175 PSI
 HYDROSTATIC TEST PRESSURE 350 PSI

2"-14" FLANGED AWWA CHECK VALVE
 BRONZE FACED CLAPPER
 APPROVAL DRAWING



M&H Valve Co.
 Anniston, Alabama

DRAWN	Ballentine	DATE	12-28-72
CHECKED		SCALE	NONE
APPROVED			
DWG. NO.	11801-FL	REV.	C