

	<b>TECHNICAL DATA</b>	<b>AUXILIARY VALVE CLAPPER SETTING TOOL</b>
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**INSTRUCTIONS FOR  
ADJUSTMENT OF AUXILIARY VALVE CLAPPER**

**Viking Alarm Valves Models B, C, E, F and G**

1. Remove hand hole cover.
2. Loosen the cup point screw located in the main clapper arm in the area of the auxiliary valve clapper. Care must be taken not to loosen the lead or the Teflon ball behind the screw.
3. With the main valve clapper in the closed position, remove auxiliary valve cap and install setting tool no. 02039B.
4. Turn the setting tool screw clockwise until it makes contact with the top of the auxiliary valve clapper.

NOTE: The tool for setting the travel of the auxiliary valve clapper uses a 32-pitch thread so that one complete turn of the screw (as observed by noting the position of the pointer pin) will be equal to .031" (0,77mm) movement. Valves are set at the factory with a special dial indicator gauge that measures the gap in .001" (0,025mm) increment. Caution: Use a light touch.

5. Raise the main valve clapper and hold.
6. The setting tool screw should now move one full turn clockwise. If the setting tool screw moved more or less than one full turn, turn it counterclockwise and adjust the auxiliary valve sleeve: (more) turn sleeve clockwise, (less) turn sleeve counterclockwise. Then repeat steps 4, 5, and 6.
7. Select the sensitivity setting desired from the following chart. Repeat steps 4, 5, and 6 to achieve the desired setting.

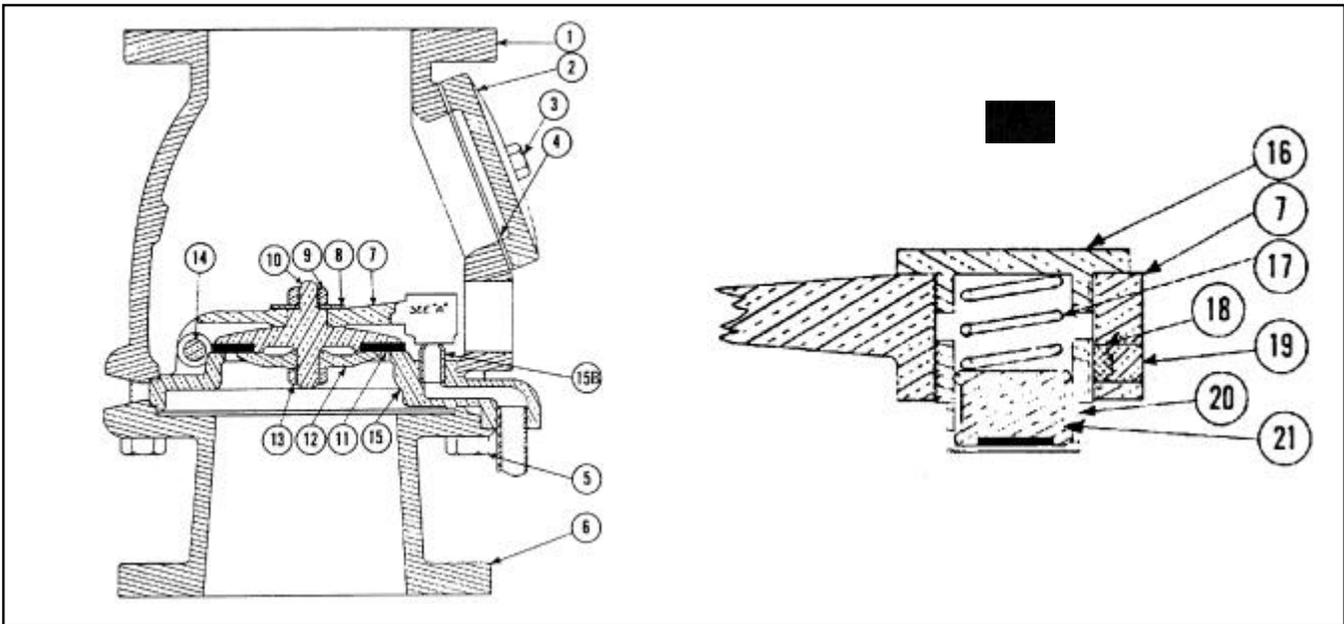
Valve Size	Maximum Sensitivity Turns	Normal Sensitivity Turns	Minimum Sensitivity Turns	Factory Setting Inches
2-1/2" (65mm)	1/4	1	1	.017-.019
4" (100mm)	1/2	1	2	.028-.030
6" (150mm)	1/2	1	2	.025-.030
8" (200mm)	1/2	1	2	.025-.030

8. Check the setting by turning the setting tool screw counterclockwise at least two turns, then repeat steps 4, 5 and 6. Turn the setting tool screw clockwise until it makes contact. The setting tool screw should turn to the same setting as selected. When the adjustment is correct, tighten the cup point screw to hold the adjustment, remove the tool, and replace the auxiliary valve cap.
9. Replace gasket and hand hole cover.



**TECHNICAL DATA**

**AUXILIARY VALVE CLAPPER  
SETTING TOOL**



ITEM	PART NUMBERS				NO.	DESCRIPTION
	2-1/2" VALVE	4" VALVE	6" VALVE	8" VALVE		
1	-	-	-	-	-	Housing
2	-	-	-	-	-	Hand Hole Cover
3	-	-	-	-	-	Hex Head Screw
4	02524A	04388A	02238A	02238A	-	Hand Hole Gasket
5	-	-	-	-	-	Hex Head Screw, 5/8-11 x 2 Lg.
6	-	-	-	-	-	Base
7	-	-	-	-	-	Clapper Arm
8	-	-	-	-	-	Washer
9	-	-	-	-	-	Nut, Self-Locking, 5/8-11
10	-	-	-	-	-	Clapper
11	03273A	03270A	03271A	03272A	-	Water Seat Rubber
12	-	-	-	-	-	Clamp Plate
13	-	-	-	-	-	Nut, Self-Locking, 5/8-11
14	-	-	-	-	-	Hinge Pin
15	-	-	-	-	-	Water Seat Assembly
15B	-	-	-	-	-	Auxiliary Valve Seat
16	01240A	01240A	01240A	01240A	-	Auxiliary Valve Cap
17	01239A	01239A	01239A	01239A	-	Auxiliary Valve Spring
18	01238A	01238A	01238A	01238A	-	Ball, Nylon
19	01274A	01274A	01274A	01274A	-	Cup Point Set Screw, Soc. Set 3/8-16x3/8 Lg.
20	01237A	01237A	01237A	01237A	-	Auxiliary Valve Sleeve
21	01236A	01236A	01236A	01236A	-	Auxiliary Valve Clapper*

- INDICATES NO PARTS AVAILABLE

\*The Auxiliary Valve Clapper is used on Models B, C, D, F & G