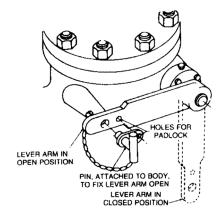
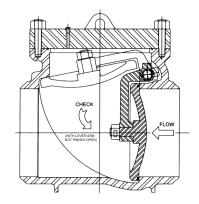


## Accessories

#### Lever Lock Assembly



The external lever lock clapper assembly enables the user to control the clapper motion with the valve under pressure. The clapper can be locked in the open position for reverse flow or when the user wants to eliminate the clapper action.



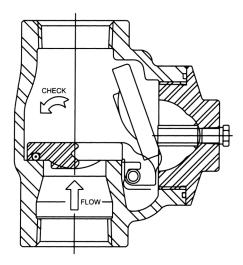
The clapper can be locked in the closed position to hold small amounts of upstream pressure for a short time; however, it is not recommended to replace gate valves as too much upstream pressure will shear the shaft keys. The external lever also serves as a clapper position indicator at all times.

### Crown Swing Check Valves for Vertical Flow-Up

Crown swing check valves can be ordered for use in vertical flow applications; however, it is necessary to specify on your order if the direction of flow is up or down.

Vertical flow-up requires the addition of a pin through the cover to prevent the clapper from moving out of the flow stream. Vertical flo-pins are available for Crownswing check valves already in service. When ordering, please specify valve size, pressure, model and bolted or screwedtop configuration.

Vertical flow-down requires the use of external counterbalance arms and weights to keep the clapper in position to catch the stream on flow reversal. Valves in service usually cannot be converted to flow-down service. Please consult our Engineering department for details.



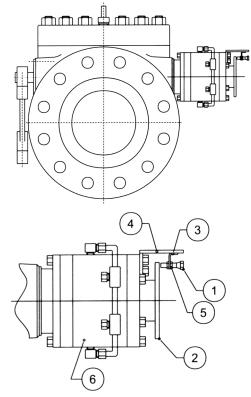


### Crown Swing Check Valve with Proximity Switch

### **Proximity Limit Switch**

The switch utilizes both reaction forces of magnetic power attraction and repulsion in its operating principles. It provides an input signal to a process control of either open or closed indication. The sensing range between the switch and the ferrous actuator is .090" (2.25 mm) to .110" (2.76 mm).

The switch has been designed and built to rugged specifications for use in most industrial and environmental applications. Each switch is totally enclosed, hermetically sealed, and capable of operating in hazardous locations.

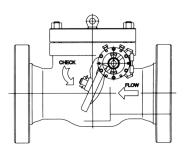


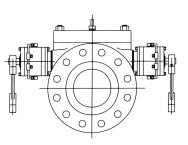
### Parts List

- No. Part
  - 1 Proximity switch
  - 2 Adapter
  - 3 L-bracket
  - 4 Mounting plate
  - 5 Lock nut
  - 6 Rovane slam retarder

### **Rovane Slam Retarders**

The Stream-Flo rovane slam retarder provides a dependable and efficient torque for controlling clapper slam and flutter. Long trouble-free service is assured through the simple and rugged construction and the basic engineering premise of these rovane slam retarders. The rovane slam retarder can be equipped with a limit switch to indicate the clapper open position at any angle.



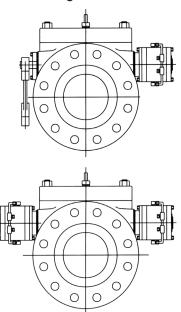


For valves size 24" and smaller, the check valve is also equipped with external counter-terbalance.

### **Arms and Weights**

The arms and weights are preset at the factory for maximum effect in closing the clapper. If there is a considerable pulsation present, it will be necessary to reposition the weights or the arms.

Loosen the set screws in the weight and slide along the arm until there is minimum of flutter visible on the arm. It is suggested that the weight be moved a short distance each time and then the valve shut down to ensure that the clapper will close.



# Accessories

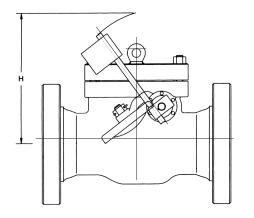
# **Counterbalance Arms and Weights**

Counterbalance arms and weights for use with Crown swing check valves.

Recommended for the following applications:

- assist in closing the clapper upon flow reversal
- provide a minimum amount of "back pressure", normally 5 psi (0.5 bars) or less
- for check valves installed in vertical run-flow down
- counteract a portion of clapper weight clapper "floats" on flow stream
- indicate clapper position
- weight is adjustable back and forth on arm to increase or decrease effective torque on the check valve clapper shaft

When ordering counterbalance arms and weights, please specify intended use as each application determines the location of the weight with respect to the clapper. Unless specified otherwise, the arm and weight will be positioned to assist the clapper in closing.



# Horizontal Installation of Valve

Standard construction has the counterbalance arms and weights positioned "downstream" to hold the valve clapper closed. The counterbalance assembly may be repositioned "upstream" to partly offset the weight of the valve clapper for special applications.

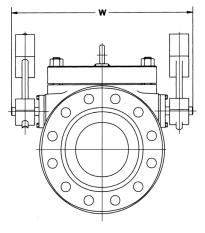
## Vertical Installation of Valve

## Downward Flow

Counterbalance assembly is essential to bring valve clapper closed upon flow reversal.

## Upward Flow

Standard construction has the counterbalance arms and weights positioned to hold the valve clapper closed. The counterbalance assembly may be repositioned to partly offset the weight of the valve clapper for special applications.



Valve Size in. (mm.)	Dimension "W" in. (mm.)	Dimension "H" in. (mm.)
2 (60.3)	11 <sup>1</sup> / <sub>4</sub> (285.8)	12 <sup>9</sup> / <sub>16</sub> (319.1)
3 (88.9)	13 <sup>1</sup> / <sub>8</sub> (333.4)	9 <sup>11</sup> / <sub>32</sub> (237.3)
4 (114.3)	14 <sup>5</sup> / <sub>8</sub> (371.5)	10 <sup>3</sup> / <sub>4</sub> (273.1)
6 (168.3)	19 <sup>9</sup> / <sub>16</sub> (496.9)	13 <sup>15</sup> / <sub>16</sub> (354.0)
8 (219.1)	23 <sup>1</sup> / <sub>2</sub> (596.9)	17 <sup>13</sup> / <sub>16</sub> (452.4)
10 (273.1)	25 <sup>3</sup> / <sub>4</sub> (654.1)	227/8 (581.0)
12 (323.9)	29 <sup>1</sup> / <sub>2</sub> (749.3)	25 <sup>5</sup> /16 (642.9)
14 (355.6)	35 (889.0)	27 <sup>11</sup> / <sub>16</sub> (703.2)
16 (406.4)	36 <sup>5</sup> /8 (930.3)	24 <sup>9</sup> /16 (623.9)
20 (508.0)	39⁵/ଃ (1006.5)	351/8 (892.2)



#### Head Office and Manufacturing Facility 4505 - 74 Avenue Edmonton Alberta Canada T6B 2H5 Tel 780.468.6789 Fax 780.469.7724

#### Stream-Flo USA Inc.

Valve Business Unit 8726 Fallbrook Drive Houston Texas 77064 Tel 832.912.1022 Fax 281.653.1188

#### **Canadian Sales**

400 Bow Valley Square One 202 - 6 Avenue SW Calgary Alberta Canada T2P 2R9 Tel 403.269.5531 Fax 403.266.3307

#### Canadian Sales, Service

& Distribution Centres	
Brooks AB	403.362.7600
Edson AB	780.712.5505
Estevan SK	306.634.4719
Fort McMurray AB	780.743.0744
Fort Nelson BC	250.775.6789
Fort St. John BC	250.785.9500
Grande Prairie AB	780.532.1433
Rainbow Lake AB	780.956.3655
Red Deer AB	403.346.2550
Slave Lake AB	780.849.6100

#### International Sales

Kilgore Texas USA	903.983.2992
Granbury Texas USA	817.326.5341
Beeville Texas USA	361.362.2600
Longview Texas USA	903.753.6785
Midland Texas USA	432.685.9908
Indiana Pennsylvania USA	724.349.6090
Williamsport Pennsylvania USA	724.762.6110
Edmond Oklahoma USA	405.330.5504
Jakarta Indonesia	62.21.7918.1234
Abu Dhabi UAE	971.2.679.7779
Dubai UAE	971.4.870.4102
Hassi Messaoud Algeria	213.2.973.8910

www.streamflo.com

info@streamflo.com