

# Installation Instructions



| Flush Mount Models  | Hole diameter | Min Post Size       |
|---------------------|---------------|---------------------|
| <b>SM AT90 S</b>    | 19/16" (40mm) | 2" x 2" (50 x 50mm) |
| <b>57 AT90 S</b>    | 19/16" (40mm) | 2" x 2" (50 x 50mm) |
| <b>57SF AT90 S</b>  | 19/16" (40mm) | 2" x 2" (50 x 50mm) |
| <b>108 AT90 S</b>   | 19/16" (40mm) | 3" x 3" (75 x 75mm) |
| <b>108SF AT90 S</b> | 19/16" (40mm) | 3" x 3" (75 x 75mm) |



**NOTE:** Always install SM hinge at bottom of gate and 57 or 108 closer on top.

Use #14 & #18 countersunk fasteners.

## FLUSH MOUNT MODELS - SCREW-ON

### 1 DETERMINE THE HANDING

Hinged from the left Fence Post      Hinged from the right Fence Post

Adjustment Nozzles must be on top

Remove Gate Bracket

### 2 MARKING HEIGHTS

GAP: 5/16" - 1/2" (8-13mm)

Mark hinge center lines

Support Blocks

Ensure post is vertical in the front and side elevations

### 3 MARK HINGE BRACKET LOCATION ON GATE FRAME

GATE FRAME

Mark center lines as guides for fastening Brackets onto the Gate Frame

1" (25mm)

**Flush Mount:**  
Face of gate and post are aligned.

### 4 FASTEN, CENTERED ON SET SCREW

90°

90°

3/16" (5mm)

Back out set screw and install two main fasteners. **FIRMLY TIGHTEN.**

Once bracket is at desired position, firmly tighten the set screw.

### 5 MARK TOP AND BOTTOM BRACKETS ON POST

Laser Level

7/8" - 1 1/16" (22-27mm)

Ensure drill hole will clear the post wall thickness.

Drill 19/16" (40mm) holes top and bottom

**NOTE:** Apply corrosion protection to exposed metal surfaces.

### 6 SCREW POST BRACKET ONTO HINGE

Adjustment Nozzles must be on top

**NOTE:** Apply grease to hinge threads to prevent water from entering post.

### 7 ASSEMBLE HINGE TO BRACKETS ON GATE

### 8 REPLACE HINGE PINS AND INSERT INTO POST

### 9 FASTEN BRACKETS TO FENCE POST

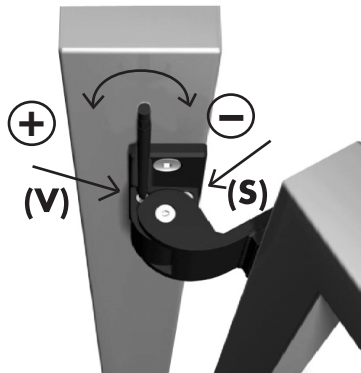
1/4" (6mm)

### 10 SET SCREW

Level

Ensure face and side of gate are level. Firmly tighten two main fasteners before tightening set screw.

## ADJUSTING THE CLOSING SPEED AND FINAL 'SNAP' ACTION (108 ONLY)



**CAUTION:** Sensitive adjustment, rotate 1/4 turn at a time.

**V=Closing Speed**

**S=Final Snap Action**

Turn nozzles clockwise to decrease speed & counterclockwise to increase speed.

If using a 57+57 or 108+108 combination, each closer must have equal closing speed at all times.



**IMPORTANT:**

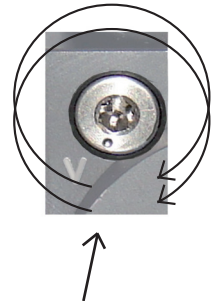
Use dimple to determine how far nozzle has turned.

**DO NOT** turn adjustment nozzles more than 2 complete rotations.

**DO NOT** unscrew nozzle past the surface of the body.

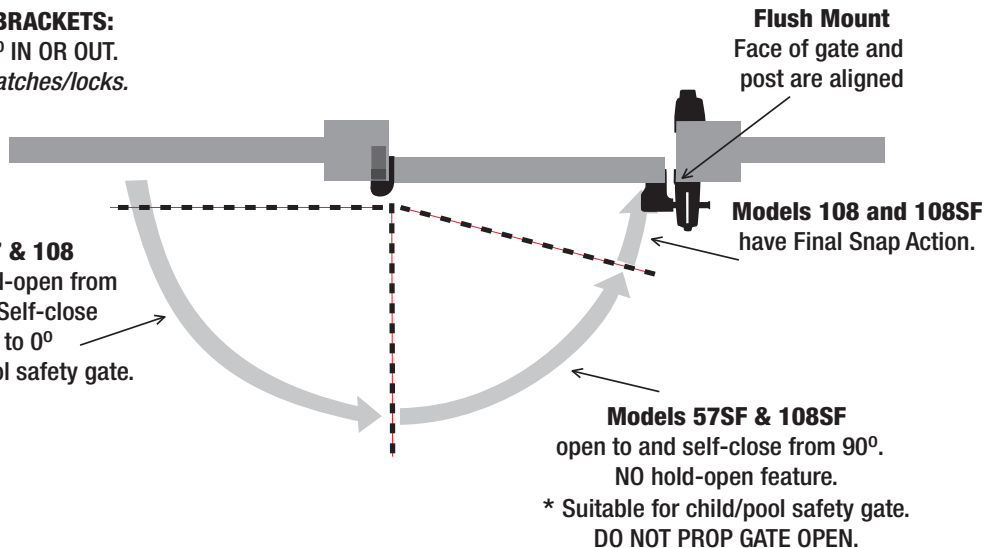
**CAUTION:**

**DO NOT** remove adjustment nozzles or disassemble hinge. Doing so voids warranty.

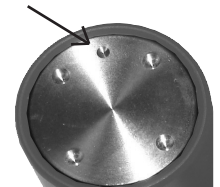


**FLUSH MOUNT BRACKETS:**  
Gate swings 180° IN OR OUT.  
Use flush mount latches/locks.

**Models 57 & 108**  
open 180°. Hold-open from  
180° to 90°. Self-close  
from 85° to 0°  
NOT for child/pool safety gate.



**SF models** have 5 dimples  
for identification



### MAINTENANCE REQUIREMENTS

- Never use more than two (2) SureClose hinge/closers on any one gate.
- Remove all other types of hinges and self-closing devices.
- Always install SM hinge at bottom of gate and 57 or 108 closer on top.
- Ensure the gate does not swing through the line of the fence. Use a "gate stop" or a latch (with striker) to prevent this.
- All steel mounting brackets (gate and post) should be painted or powder coated. Spray painting is recommended.
- The anodized aluminum mounting brackets do not need finishing, but they may be painted or powder coated.
- DO NOT powder coat the hinge/closer, but they may be painted.
- DO NOT turn the adjustment nozzles more than two (2) full rotations.
- DO NOT unscrew nozzle past the surface of the body.
- DO NOT remove the adjustment nozzles or disassemble these hinges at any time. Doing so voids warranty.
- Ensure the hinges are kept free of sand, ice and other debris that could impair effective operation.

### 2 YEAR LIMITED WARRANTY:

For a downloadable Adobe Acrobat (.PDF) version of our 2 YEAR LIMITED WARRANTY, go to our website at [www.ddtechglobal.com](http://www.ddtechglobal.com)

**\*CAUTION:** When used on swimming pool gates, always consult local authorities for swimming pool Codes.