

## SafeAZ Medium/Heavy Duty Hinges DPH240 Self closing hinge – round post adj.

### Installation, instruction and maintenance sheet

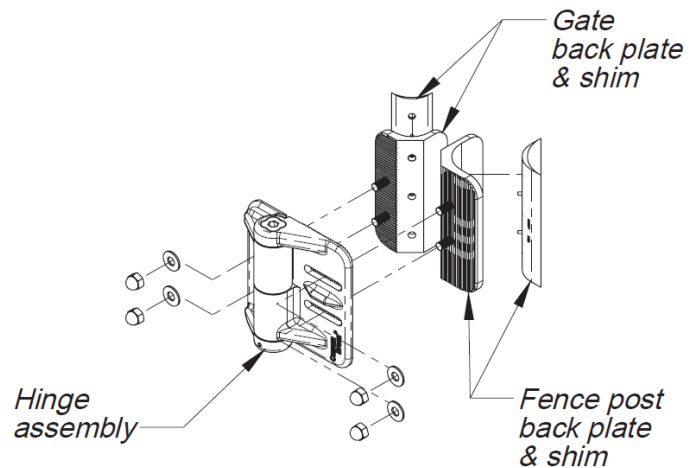
PLEASE CAREFULLY READ ALL OF THE INSTRUCTIONS PRIOR TO INSTALLATION

#### Step 1 – Adapting hinge to appropriate gate and fence post sizes

The DPH240 Self closing hinge is designed to fit both right-hand and left-hand applications. A set of shims have been provided to fit the most common used fence post and gate sizes.

The chart below will help you to choose the appropriate shim for your application. However, the Gate back plate alone will fit Ø35mm (± 25NB) gate tubing, and Fence post back plate alone will fit Ø47.6 (± 40NB) post tubing.

Shim size chart			
Gate sizes		Post fence sizes	
Shim size	Fit gate (mm)	Shim size	Fit gate (mm)
no shim	Ø 34.9 (± 25NB)	no shim	Ø47.6 (± 40NB)
1 5/8	Ø 41.3 (± 32NB)	2 3/8	Ø 60.3 (50NB)
		2 5/8	Ø 66.7
		2 7/8	Ø 73.0 (± 65NB)

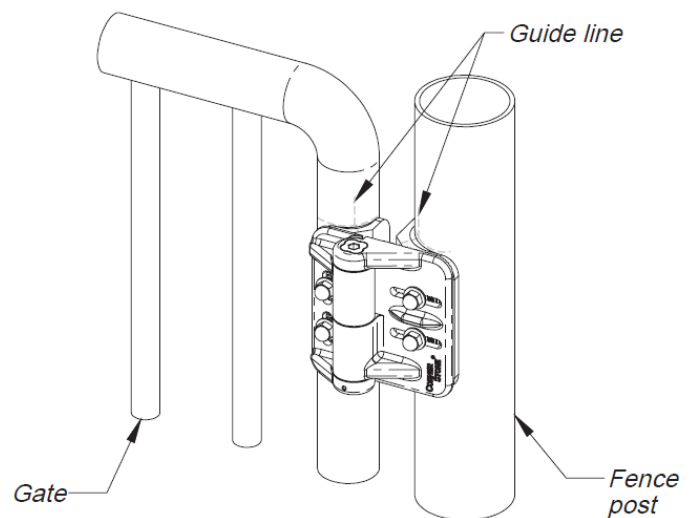


#### Step 2 – Hinge guide lines marking

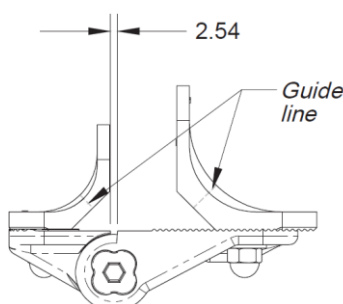
Before installing hinge assembly, make sure fence post is vertical and firmly anchored and gate is properly blocked with desired gap to fence post in closed position.

Attach both back plates to hinge, with appropriate shims if applicable, with hardware provided and desired gap. Make sure spring tension is in neutral position (see page 2). Make sure hinge assembly is not closed to its maximum position, a 2.54 mm gap between hinge leaves must be noticed with spring tension in neutral position, as shown in fig. 2

Mark the center of both back plates and shims, if applicable, as guide lines for positioning, as shown in fig. 2. Locate hinge assembly at desired height embracing both fence post and gate to full contact with back plates and shims at once, then using the guide line marks of hinge, mark the gate and post fence horizontally and vertically as shown in fig. 1.



**Fig. 1**



**Fig. 2**

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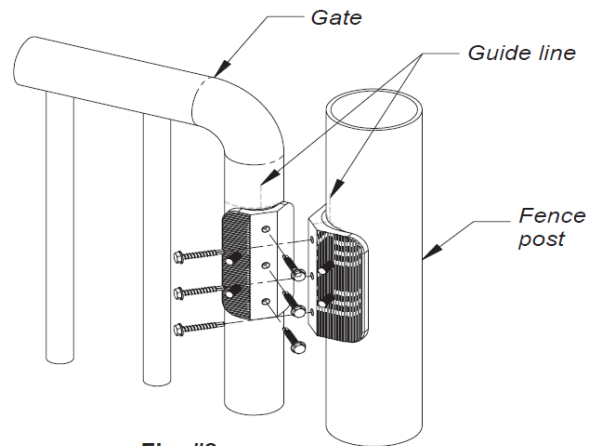
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#### Step 3 – Hinge flanges mounting

With guide lines marked in gate, fence post and back plates, proceed to detach both back plates from hinge.

Using each back plate as a template, reposition it at the marked locations, mark and drill all center points of back plates, as seen on fig. 3.

For easy installation we recommend to drill pilot holes; however, #10 flanged hex head self-drilling screws have been provided to fasten back plates to gate and fence post if you choose not to drill pilot holes.



**Fig. #3**

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#### Step 4 – Hinge mounting

With back plates fastened in place, reinstall hinge assembly to both back plates with supplied hardware, do not over torque nuts.

The DPH24 Self closing hinge is designed to be horizontally (31.75 mm) and vertically (19 mm) adjusted.

Align the locking grooves of the back plates with the hinge assembly to achieve desire adjustment. After adjusting, open and close gate to ensure proper installation and operation.

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#### Step 5 – Spring tension adjustment

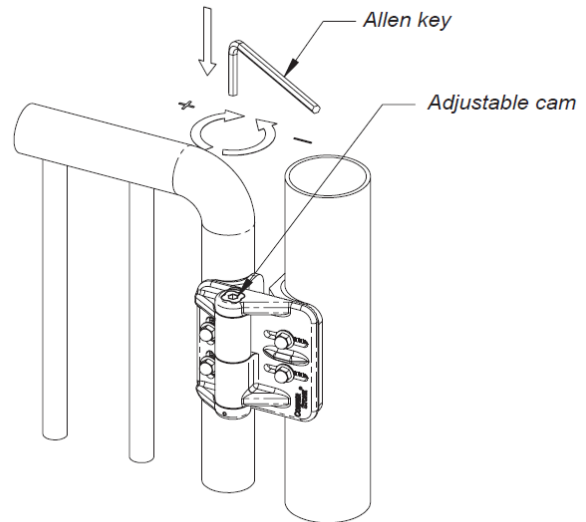
Insert an Allen key (1/4", as supplied, or 6 mm) into the cam at the end of the hinge barrel.

Press the Allen key downward, pushing the cam into the barrel.

Rotate the cam clockwise to increase spring tension and counter-clockwise to reduce spring tension.

Adjust one hinge at a time in 1/4 turn increments.

**WARNING:**  
SPRING TENSION SHOULD NEVER BE INCREASED  
MORE THAN 2 FULL TURNS (8 QUARTER TURNS) FROM  
THE NEUTRAL POSITION



**Fig. #4**

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**MAINTENANCE:** The hinge should be inspected annually, or more frequently if the gate is used often. Spring tension adjustments should be made as needed.

Do not use petroleum based lubricants on the moving parts of the hinge. Lubricate with powdered graphite only. Keep the hinge free of contaminants, such as sand, ice and dust, as they could impair its function.