

# Installation Instructions

## GC3LD ~ GC3 ~ GC4

### Hydraulic Pedestrian Gate Closer



Nationwide Industries Gate Closers are an economic and reliable automatic gate closer for use with residential and commercial gates. Unlike normal closing springs, Nationwide Industries Pedestrian Gate Closers do not slam gates shut. They firmly and quietly push gates closed, making them ideal for use with magnetic locks and other latching devices. The closing speed is pre-set to provide a controlled close of approximately 5 seconds, depending upon the weight of gate, hinge arrangements and quality of hinges etc. With this closer there is no risk of maladjustment or tampering with the speed adjustment after the closer is fitted. Nationwide Industries Pedestrian Gate Closers are extremely simple to install. Each gate closer kit includes mounting brackets, fitting bar and instructions.

**It is advisable to install a mechanical stop to restrict the gate opening angle and avoid damaging the closer.**

## FEATURES

- Closes large or small gates ranging from 25 - 250 lbs (depending on the model) easily, gently, smoothly
- Hydraulic / Nitrogen Gas controlled closing speed
- Maximum opening angle of 110°
- Installs on side, top, middle or bottom of right or left hand gate
- Mounts on opening side of gate, to push gate closed
- Mounting brackets and fitting bar included

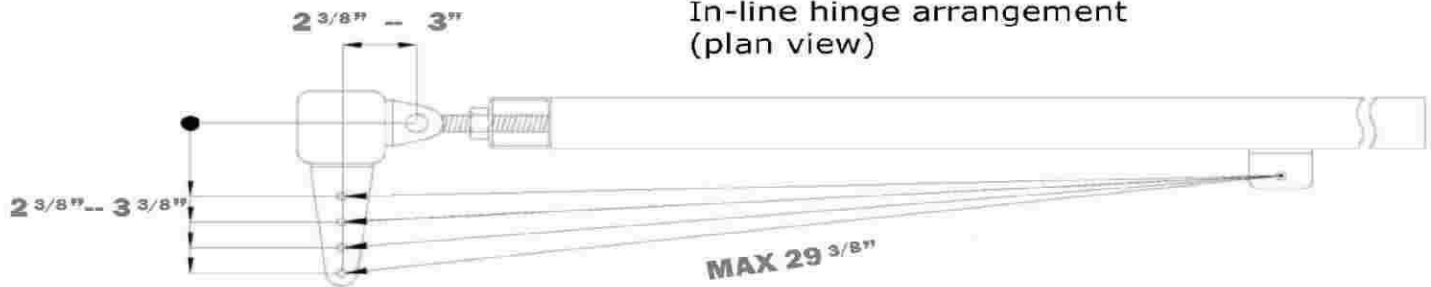
## QUICK REFERENCE

Model	Up to Gate Width	Up to Gate Weight
<b>GC3LD</b>	52 inches	125 lbs.
<b>GC3</b>	64 inches	175 lbs.
<b>GC4</b>	72 inches	250 lbs.

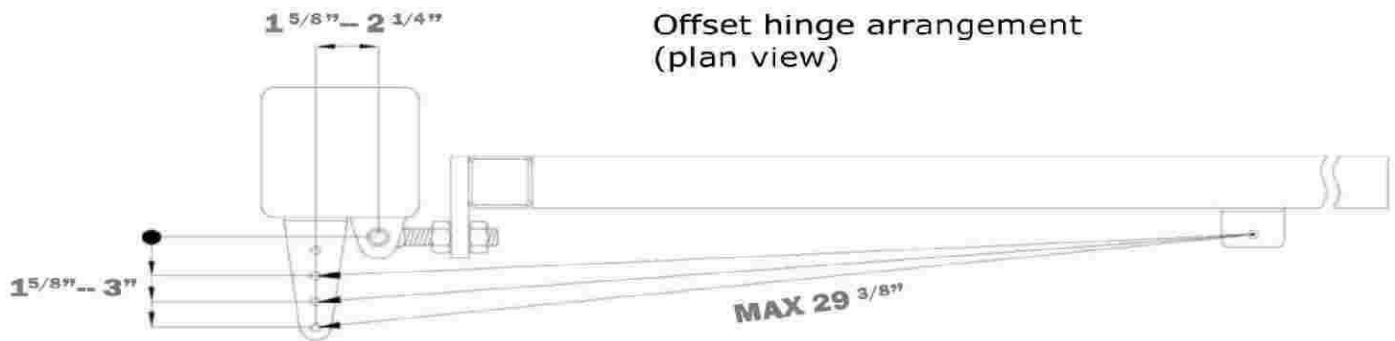
## TECHNICAL OVERVIEW

	<b>GC3LD</b>	<b>GC3</b>	<b>GC4</b>
Maximum Gate Weight:	125 lbs.	175 lbs.	250 lbs.
Maximum Gate Width:	52 inches	64 inches	72 inches
Maximum Opening Angle	110°	110°	110°
Type of Gate Material:	Vinyl, Wood, Steel	Vinyl, Wood, Steel	Vinyl, Wood, Steel
Closing / Latch Speed:	Hydraulic / Nitrogen Gas Controlled	Hydraulic / Nitrogen Gas Controlled	Hydraulic / Nitrogen Gas Controlled
Material:	Steel / Stainless	Steel / Stainless	Steel / Stainless
Color:	Black or Stainless Steel	Black or Stainless Steel	Black or Stainless Steel
Hinge Arrangements:	In-line and Offset	In-line and Offset	In-line and Offset
Opening Pressure:	5 – 10# approximately	7-12# approximately	12-16# approximately

# GC3 ~ Hydraulic Gate Closer Installation



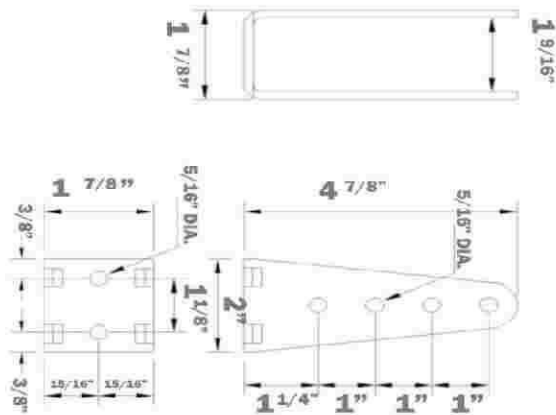
In-line hinge arrangement  
(plan view)



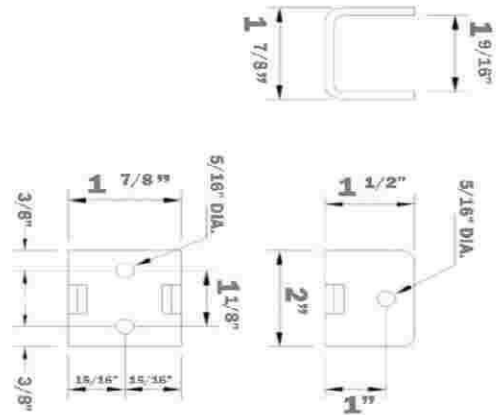
Offset hinge arrangement  
(plan view)

## Mounting Bracket Dimensions

### Post Bracket



### Gate Bracket



Post bracket  
with spacers  
and gate  
closer  
attached



Gate bracket  
with spacers  
and gate  
closer  
attached



## Components in Kit



Fig #1 Gate Closer Cylinder assembled with retaining bar.  
**DO NOT REMOVE ZIP TIES UNTIL INSTALLED!**



Fig #2 Gatepost Bracket



Fig #3 Gate Bracket



Fig #4 Hexagon Headed Securing Pins



Fig #5 Stainless Steel Spacers



Fig #6 Button Head Socket Cap Screws with Plain Washers



Fig #7 Black Fitting Bar



**NOTE: DO NOT CUT ZIP TIES OR REMOVE THE RETAINING BAR FROM THE CLOSER**

**Step 1 – Secure (Fig #2) Post Mounting Bracket to the Gatepost**

Attach the gatepost bracket to the gatepost with a temporary clamp, following the dimensions from the appropriate layout on the previous page.

**Step 2 – Secure Gate Mounting Bracket to the Gate**

Using one of the hexagon headed stainless steel securing pins, (fig #4) attach one end of the fitting bar (fig #7) to the gatepost mounting bracket (fig #2) using the hole that is farthest away from the post. Attach the gate bracket (fig #3) to the black fitting bar (fig #7) using the other hexagon headed stainless steel securing pin, (fig #4) and then swing the bar and the bracket to the closed gate, check that brackets are horizontally in-line with each other, and then secure the gate mounting bracket to the gate using a temporary clamp. Remove the black fitting bar and securing pins from the brackets.

**Step 3 – Check Bracket Mounting Positions are Correct**

With the gate closed, check the distance between the hole farthest away on the gatepost bracket (fig #2) and the hole in the gate bracket (fig #3) should be **29 3/8" or less** (measure from the centers of the holes). Open the gate to 90 degrees and check the distance between the same two holes; it should be **21 7/8" or more**. If the dimensions are correct then screw or weld the post and gate brackets in place.

**Step 4 – Grease the Components**



Grease Securing Shaft (Fig 4)



Grease Inside Stainless Steel Spacer (Fig 5)



Grease Spacer Shoulder (Fig 5)

**NOTE: DO NOT CUT ZIP TIES OR REMOVE THE RETAINING BAR FROM THE CLOSER**

### **Step 5 – Fit the Gate Closer to the Mounting Brackets**

Place the stainless steel spacers (fig 5) into the gate closer cylinder end fittings. Following the dimensions from the appropriate installation drawings, place the smaller diameter end of the gate closer into the appropriate hole in the gatepost bracket using one of the hexagon headed stainless steel securing pins (fig 4). Place the larger diameter end of the gate closer into the gate bracket (fig 3) using the other hexagon headed stainless steel securing pin (fig 4), the gate will need to be partially opened to do this.

Cut the zip ties from the gate closer. Open the gate further and then remove the steel retaining bar from the gate closer cylinder. Release the gate and it will close automatically.

### **Step 6 – Final Set-up and Testing Function**

Set the gate's mechanical stop to the correct position. To do this, open the gate to a position where the distance between the center of the hexagon headed mounting pins are 22 inches or more apart. Set the gate's mechanical stop to restrict the opening at this point. Open the gate and allow the closer to close the gate a few times to check the function.

### **Step 7 – Check mounting bolts**

Check that all mounting bolts and screws are secure. Secure and tighten hexagon headed securing pins on the underside of the bracket by tightening the hexagon headed (Allen) stainless steel securing screw and plain washer (use suitable thread locking liquid if required). Finally, remove plastic cover from the gate closer cylinder. The gate closer is now ready for use.

### **Step 8 – Grease end fittings**

Coat the end fittings with a layer of grease.

### **Maintenance**

Carry out regular inspections of the gate closer and fittings, checking that fixings are secure and the closer is functioning correctly. Lubricate closer parts when necessary, as indicated in fitting instructions. Remove gate closer cylinder immediately if it malfunctions or there is any damage to the closer or end fittings.

### **Troubleshooting & Tips**

If the gate closer is not strong enough, or closes too fast, you need to move the cylinder 1 hole (notch) away from the post, on the gatepost bracket (fig 2). Repeat if necessary. Do the opposite if it is too strong.

The cylinder pushes the gate closed and the speed of cylinder travel is about 1" per second. The speed of the cylinder will not change very much by moving the gate closer further away from the post. But the closer will become stronger. 5" to 6" of cylinder compression is optimal at 90 degree open.

When you have a corner hinge or offset hinge arrangements, the multi-hole bracket allows for more options to achieve the best closer strength by moving the closer nearer or further away from the post. It's often a problem because the hinge offset from the post will vary from gate to gate. With an in-line hinge setup it is often necessary to move the closer away from the post because more strength is required from the gate closer, particularly when the gate is heavier than initially thought.