

4 INSTALLING THE MOUNTING BRACKETS

1) DETERMINE THE PROPER GEOMETRY FOR YOUR INSTALLATION. You can use the table below to write down your dimensions.

MY GEOMETRY	HINGE OFFSET					
	SIDE	HINGE OFFSET	A	B	C	ARB
	RIGHT LEAF					
LEFT LEAF						

The diagram illustrates the geometry for mounting brackets. It shows a side view of a gate with a Phobos actuator. Dimension A is the distance from the hinge to the actuator. Dimension B is the distance from the actuator to the gate bracket. Dimension C is the distance from the Phobos pivot point to the center of the large hole on the gate bracket. ARB is the distance from the actuator to the center of the large hole. OFFSET is the distance from the hinge to the center of the large hole.

2) BOLT AND/OR WELD THE POST BRACKET ACCORDING TO YOUR GEOMETRY.

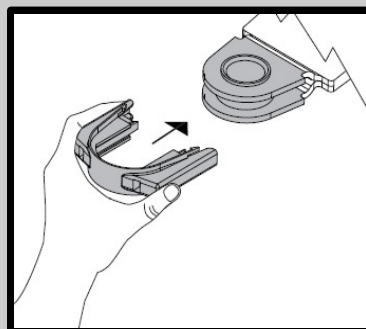
3) BOLT AND/OR WELD THE GATE BRACKET ACCORDING TO YOUR GEOMETRY.

Remember to measure the distance to **C** with a fully closed gate.

The diagram shows two types of gate brackets: the Phobos N BT gate bracket and the Phobos N L BT gate bracket. The Phobos N BT gate bracket has a length of 3-7/8". The Phobos N L BT gate bracket has a length of 5-3/8". An inset image shows a hand welding a bracket to a gate post.

4) INSTALL THE MAGNET HOLDER OVER THE GATE BRACKET.

Do not install before or right after welding. Wait for bracket to cool down. Do not try to operate the actuators without the magnet holder in place.



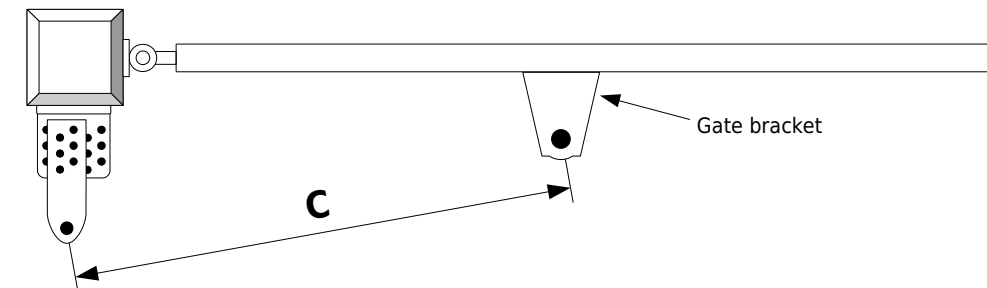
DEFINING THE BRACKET GEOMETRY 1

A & B DIMENSIONS - For **A** and **B** dimensions, the measurement is taken from the center of the gate's hinge point to the center of the Phobos pivot point.

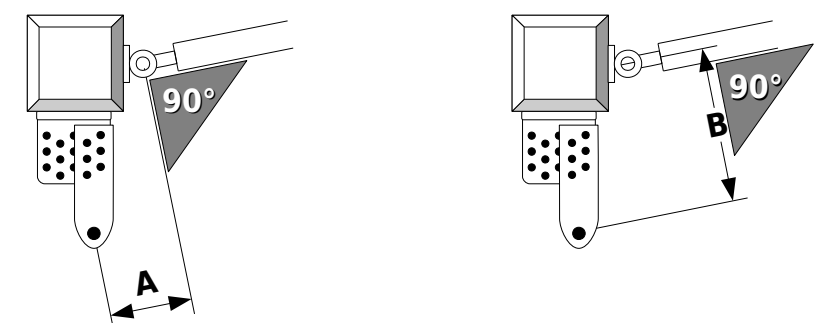
The diagram shows the Phobos' pivot point and the gate hinge. Dimension A is the distance from the center of the gate's hinge point to the center of the Phobos pivot point. Dimension B is the distance from the center of the Phobos pivot point to the center of the large hole on the gate bracket. The diagram also shows the gate post and gate frame.

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C DIMENSION - For **C** dimension, the measurement is taken from the Phobos pivot point to the center of the large hole on the gate bracket **WITH THE GATE ON ITS FULLY CLOSED POSITION.**



SQUARE WITH THE GATE - It is very important that the measurements are taken using the gate frame fully closed as perpendicular angle reference. If a fully closed gate is not square with the gate post, you must make the proper angle adjustments.



IDEAL GEOMETRY - A symmetrical geometry will give you even speed and torque throughout the entire movement of the gate as well as equally strong leverage to hold the gate in position at both open and close ends of strokes. If you are welding the post bracket, when possible, use the geometry in table 1:

Table 1

	A	B	C
PHOBOS N BT	5-7/8"	5-7/8"	27-1/2"
PHOBOS NL BT	7-1/2"	7-1/2"	32-1/2"

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USING THE ARB BRACKETS - The ARB adjustable brackets simplify the installation process. The tables 2.1 and 2.2 gives you different options depending on the three most common gate hinge offsets. These dimensions only apply to installations where the fully closed gate is square with the gate post. **DO NOT DEVIATE FROM THE DIMENSIONS ON THE TABLES**

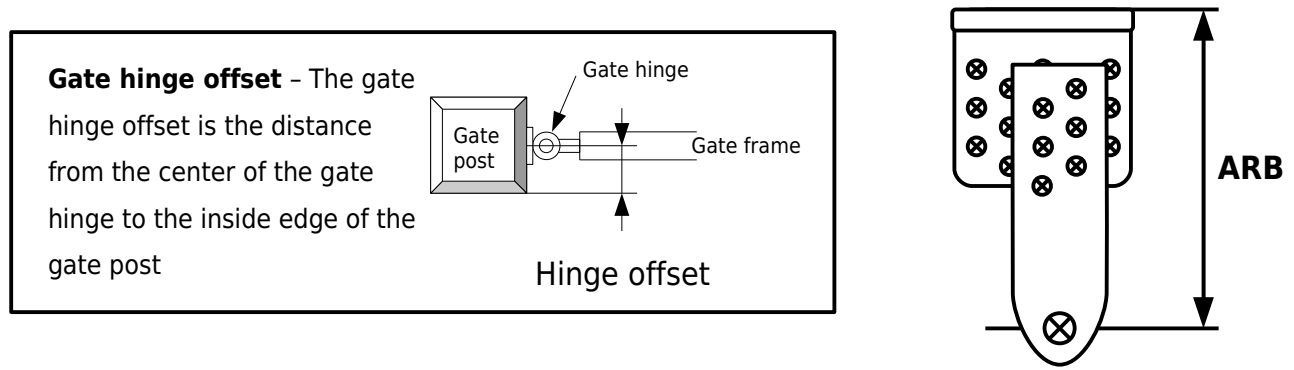


Table 2.1

PHOBOS N BT ARB GEOMETRY	HINGE OFFSET	A	B	C	ARB
	1-1/2"	5-1/8"	6-3/4"	27-1/2"	5-1/4"
2"	5-1/8"	6-5/8"	27-1/2"	4-5/8"	
3"	4"	7-5/8"	27-1/2"	4-5/8"	

Table 2.2

PHOBOS NL BT ARB GEOMETRY	HINGE OFFSET	A	B	C	ARB
	1-1/2"	7-3/8"	7-3/8"	32-1/2"	5-7/8"
2"	7-1/2"	7-7/8"	32-1/2"	5-7/8"	
3"	7-1/2"	7-7/8"	32-1/2"	4-7/8"	

ARB BRACKET LENGTHS - To achieve the desired ARB length, use all 3 bolts on the holes that are represented by black dots on the illustration of the long bracket piece. Insert them only on the holes that are represented by black dots on the short bracket piece. The long piece can be flipped to match the holes on the short piece.

