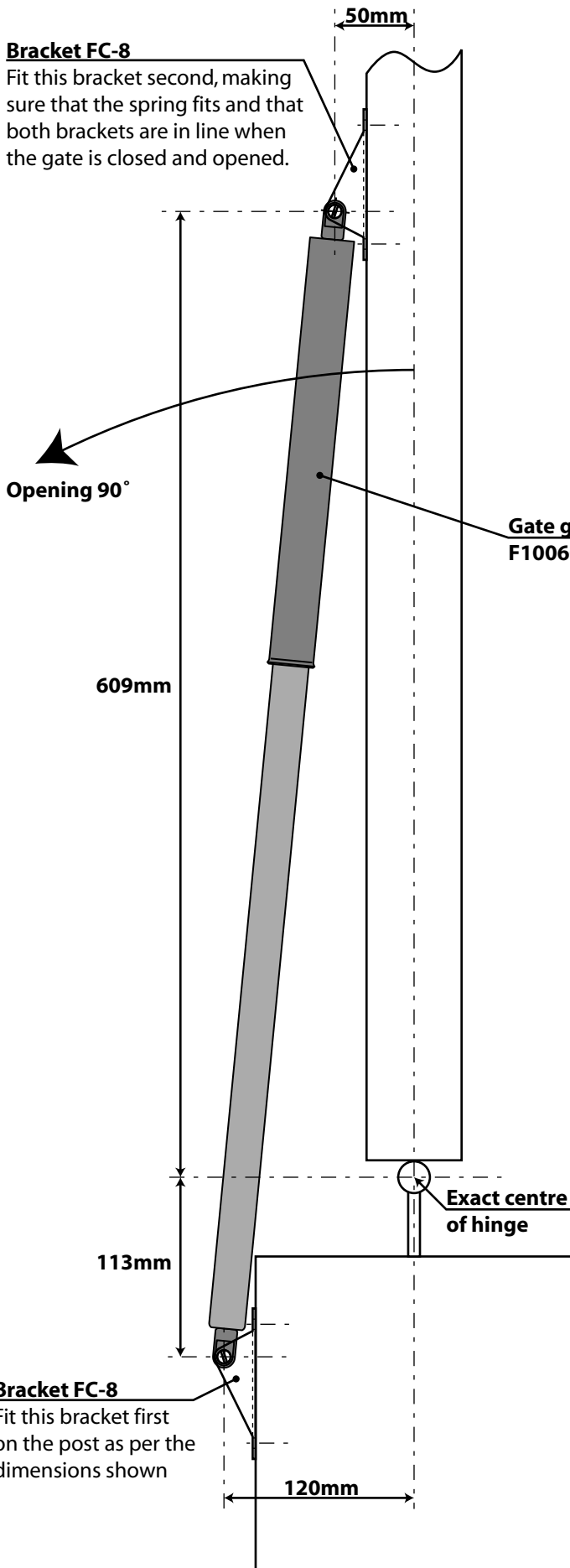


Bracket FC-8

Fit this bracket second, making sure that the spring fits and that both brackets are in line when the gate is closed and opened.



Movement to be expected once the spring is in position

The gas spring is placed behind the gate, therefore it will always try to push it closed.

Depending on the force you order and friction in the hinge, the gas spring will close the gate fully in 5 to 12 seconds.

How much force do you need ?

✘ **If there is no friction at all in the hinge** and it is not likely to start crimping (e.g.: Indoor gates) then a gas spring charged at 100 Newton is enough and you can order part number F100600/BB/0100

✘ When there is some friction in the hinge

- If it take a continuous 0.2 to 1.5kg of force at 1 metre to close the gate (e.g.: You cannot push it easily with the tip of your finger), then go for part number F100600/BB/0200
- If it takes between 1.5 to 2.5kg of force at 1m to close the gate then go for part number F100600/BB/0300
- If it takes more than 2.5kg of force at 1m then you should consider alternative heavy duty solutions or use 2 or more springs per gate.

A scientific look at the force

When fitted as per the drawing on the left a F100600 gate gas spring will generate an almost continuous moment of:
12 Newton x Metre (N.m) when charged at 100 Newton (N)
24 N.m when charged at 200 N
36 N.m when charged at 300 N

If you need to push continuously with a force of 1kg (2.2 lbs.) at 1 metre in order to close the gate, that means you are exerting 10 N.m, therefore a 12 N.m spring will not be enough. Try to always have at least 12 N.m extra and go for the 24 N.m solution

Similarly, if you need to push continuously with a force of 2kg (4.4 lbs.) at 1 metre in order to close the gate, that means you are exerting 20 N.m, therefore a 24 N.m spring may be slightly too low and we would recommend the 36 N.m solution.

