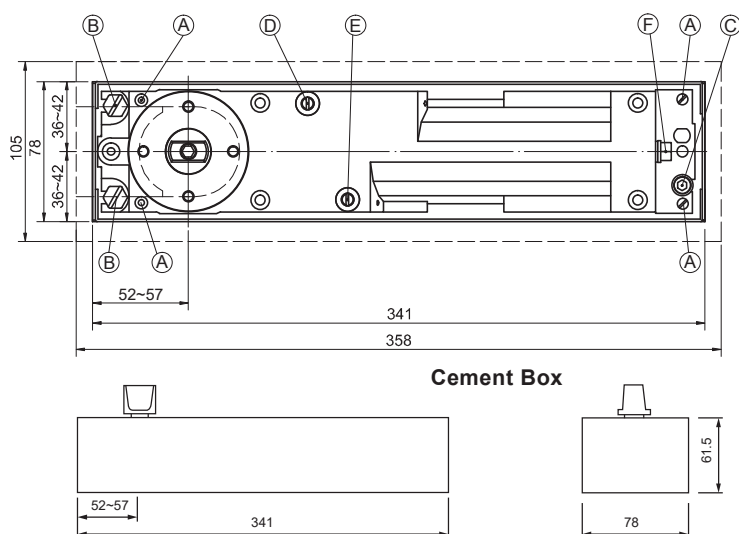


Synergy floor springs are supplied in component form and the mechanisms are for use on double swing doors, as the strap sets are made for double action doors.

Power Size	Max. Door Width	Max. Door Weight	Full Turns Of Spring Adjusting Nut
Size 3	950mm	60kg	-10
* Size 4	1100mm	80kg	+0
Size 5	1250mm	100kg	+10
Size 6	1400mm	120kg	+20

* Factory preset



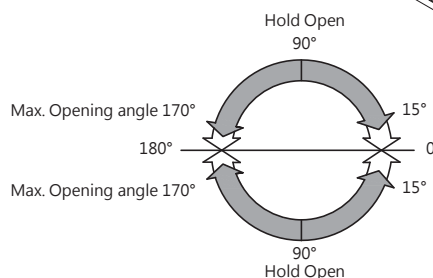
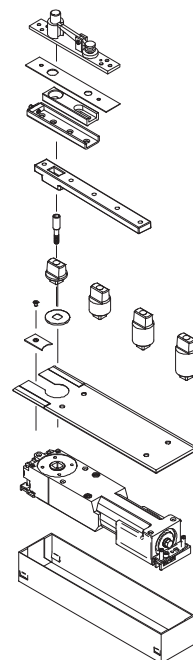
Double action floor spring Component View

Double action strap set.

Mechanism cover plate.

Floor spring mechanism

Cement box.

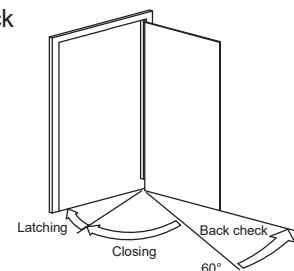
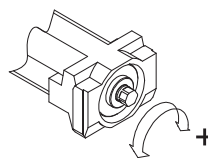


- Adjustment of clearance between hinge jamb and door stile: Loosen screws **B** and **C**.
- Adjustment of door height: Loosen screws **B**, **C**, and adjust screw **A**.
- Centering door: Loosen screws **B** and **C**.
- Adjustment of closing speed:
 - Two regulating valves **D** and **E**.
 - decrease closing speed. (FAST SLOW)
 - increase closing speed.
 - Valve **D**: closing speed range 180°-15°
 - Valve **E**: latching speed range 15°-0°

5. Unit features a non-adjustable backcheck that operates at 65 degrees.

6. Adjustment of spring tension **F**:

- increase spring tension
- decrease spring tension



PLEASE NOTE adjustment should not exceed 20 turns from the factory default. setting otherwise the unit may be damaged and invalidate its warranty.

Installation and Maintenance Instructions:

Warning



- Please note the minimum power size requirement for fire / smoke door assemblies is 3 as required by Approved Document B.
- Do not install mechanical hold open devices on fire / smoke door assemblies.
- Take care not to exceed the maximum opening angle as detailed above.
- Care and attention must be taken when adjusting any of the units control valves to avoid damage through over adjustment.
- All Synergy floor spring units are sealed for life and the internal components assembled under high load, therefore, tampering with the mechanism is to be strictly avoided.

After Installation



- When the floor spring operates to close the door from its maximum opening position, it should ensure the lock latchbolt and any seals are overcome and the leaf returned into its frame.
- When the door is slightly open and the latch bolt resting against the strike, release the door to ensure the leaf fully closes into its frame.



- Once the unit has been correctly fitted it is recommended that periodic checks (every six months) are carried out to ensure all fixings are tight and the door closes freely and positively into the frame, without slamming.
- A light oil or lubricant (non-graphite) should be applied to the top centre and other exposed pivot points, taking care to wipe away excess to avoid damage to the door.

