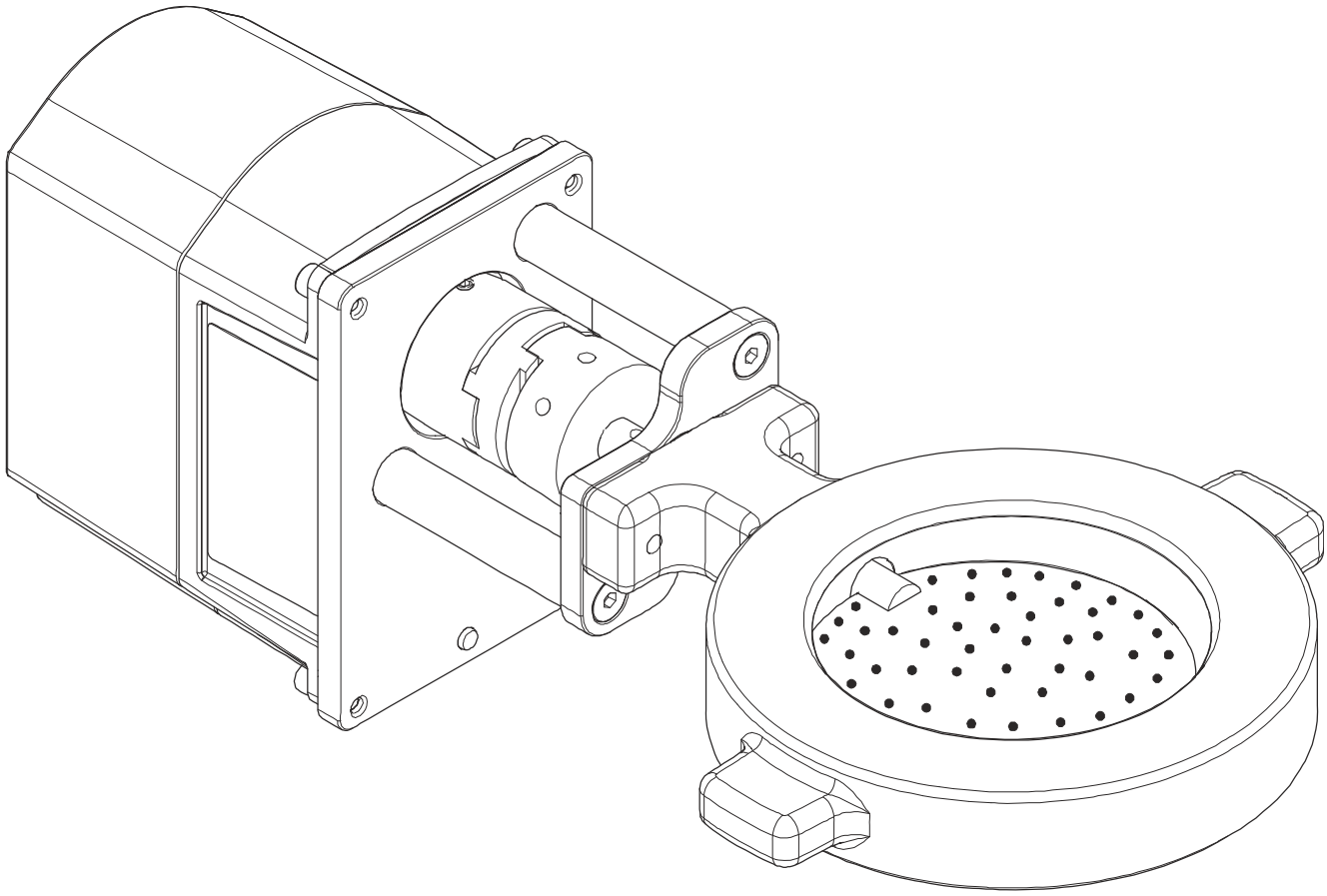
SIEMENS



LMV5...

Assembly of VKF41...C gas damper with ASK33.4 mounting kit to the SQM45.295A9 actuator

User Documentation

LMV5... and this User Documentation are intended for use by OEMs which integrate the LMV5... in their products!

Building Technologies Division
Infrastructure & Cities Sector

CC1A7550.4en
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Supplementary documentation

Contents

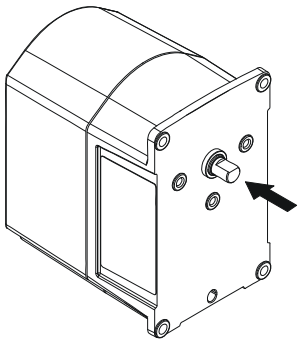
1 Warning notes

To avoid injury to persons, damage to property or the environment, the following warning notes must be observed!

Caution!
All safety, warning and technical notes contained in the Basic Documentation on LMV5... (P7550) and in the Data Sheet SQM45... (N7814) also apply to this document!

2 Mounting

Step 1



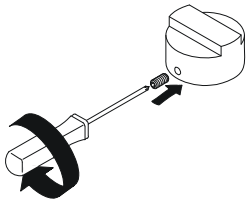
Check to ensure that the actuator's drive shaft is in the position as supplied.

This means that the flat side of the D-shaft **must** be in the 12:00 o'clock position.

① Small shaft hole

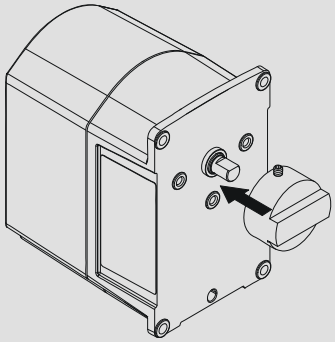
③ Large shaft hole

Step 2



Drive the both stud screws (M2.5) into the threaded hole of the aluminium coupling piece ① .

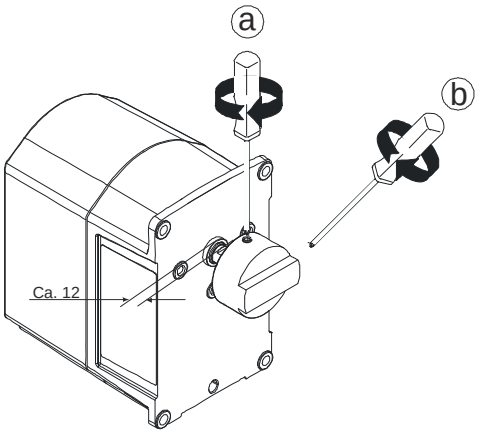
Step 3



Position the aluminium coupling piece ① on the D-shaft so that the bar is horizontal to the flat side of the D-shaft.

The gap between coupling piece ① and actuator should be about 12 mm.

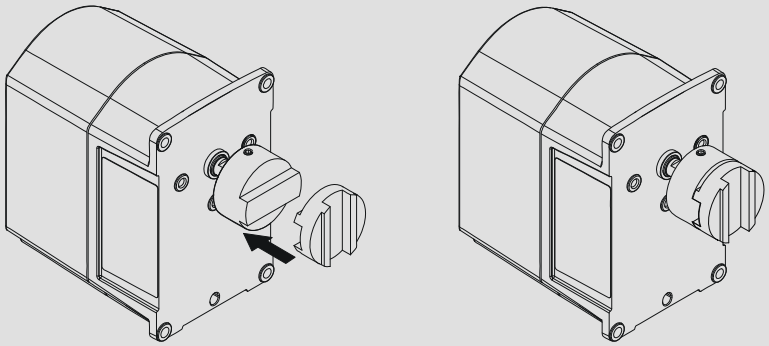
Step 4



ⓐ Secure the coupling piece ① to the D-shaft by tightening the screw.

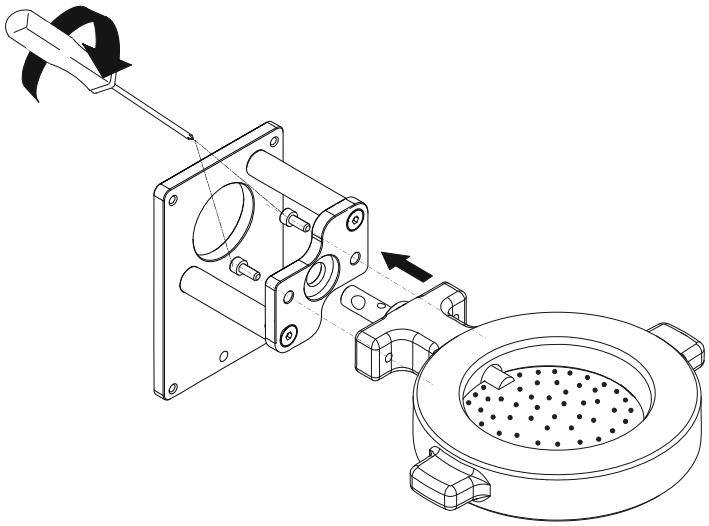
ⓑ Then, tighten the second stud screw on the round side of the D-shaft.

Step 5



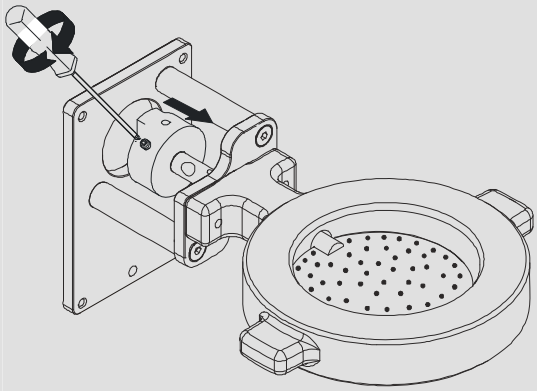
Fit the black coupling disk ②.

Step 6



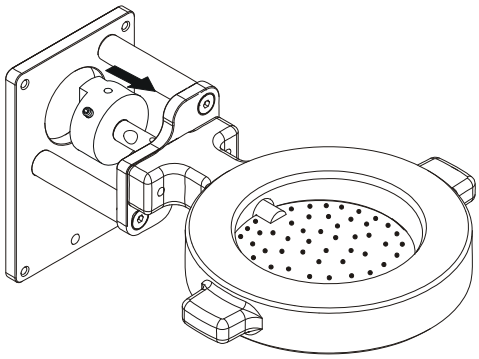
Secure the gas damper (2 x M6).

Step 7



Screw the three stud screws into the threaded holes of the coupling piece ③.

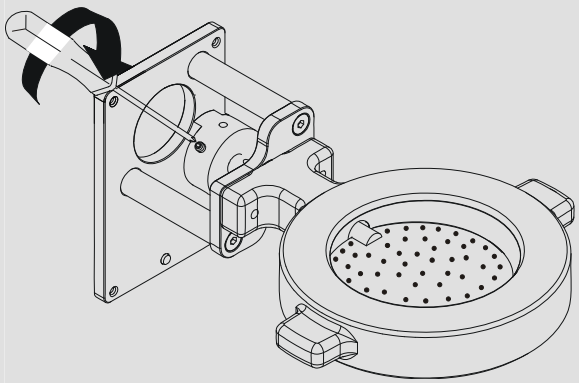
Step 8



Slide the coupling piece ③ over the gas damper's shaft.

Check to ensure that the fixing screw is positioned in the center of the fixing hole of the gas damper's shaft.

Step 9



First, tighten the screw above the fixing hole.

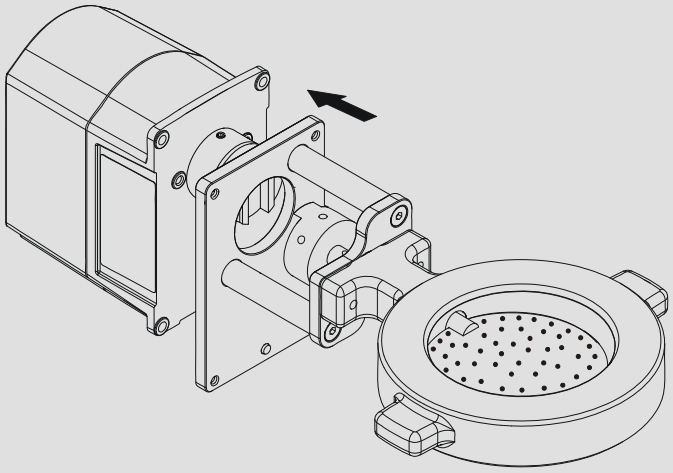
Then, tighten the other 2 screws.

Step 10

As the gas damper VKF41... only has a rotation angle range of approx. 85° and the closed position has a mechanical stop at approx. 5°, the following settings must be made on the LMV5..:

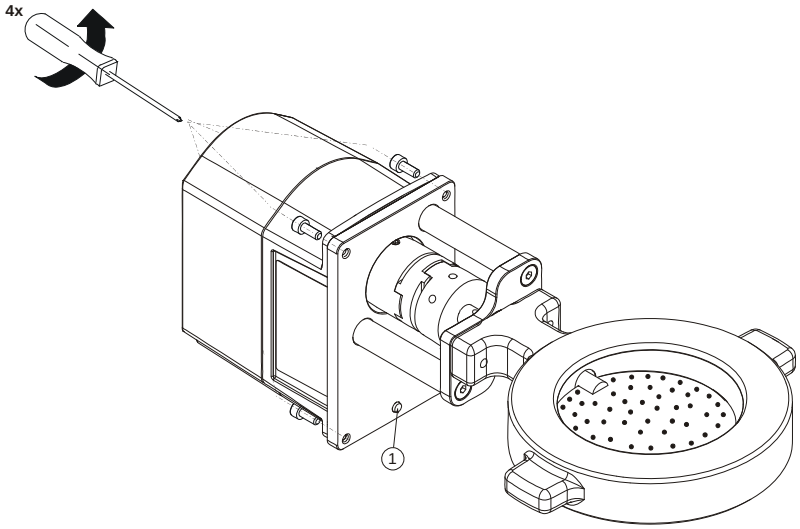
- Now, connect the actuator to the LMV5...
- Switch the system on and go to the parameterization of the LMV5...
  For that, enter at least the heating engineer's password
- Set the following parameter from 0° to 9°
  No-load position: *HomePosGas*
  Postpurge position: *PostpurgePosGas*
  Ignition load position: *IgnitionPosGas*
- The parameter *2 GasActuat - rotation direction of the fuel actuator*, must be set to *Standard* (Siemens factory setting), counter-clockwise when looking at the end of the drive shaft. The OEM password is required for this.

Step 11



Assemble actuator, gas damper and mounting kit.
The coupling elements must mesh.

Step 12



If necessary, readjust the gap between the first coupling piece and the actuator.

Secure the actuator to the mounting kit using the 4 cheese-head screws M5.

Note:

- When setting the ignition position and the fuel-air ratio curves, make certain that the position of the fuel actuator is never below 9°

① Locking pin

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