OPTIMUS 60-VAP®

Circular Fire/Smoke Damper

FIRE PROTECTION



CE

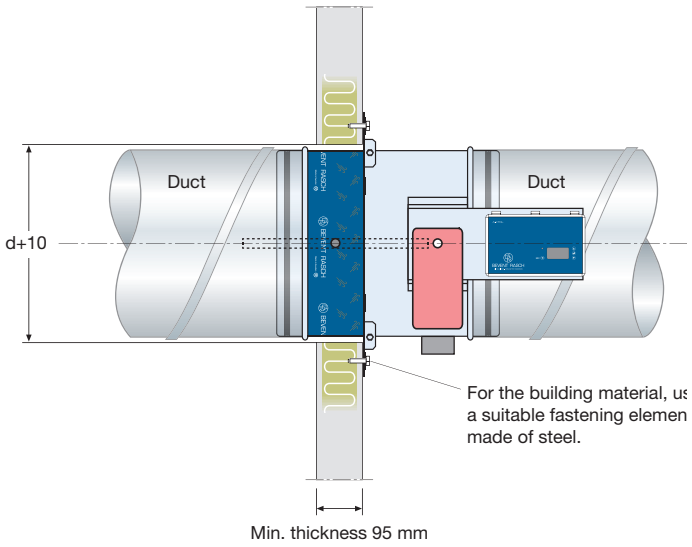
UKCA

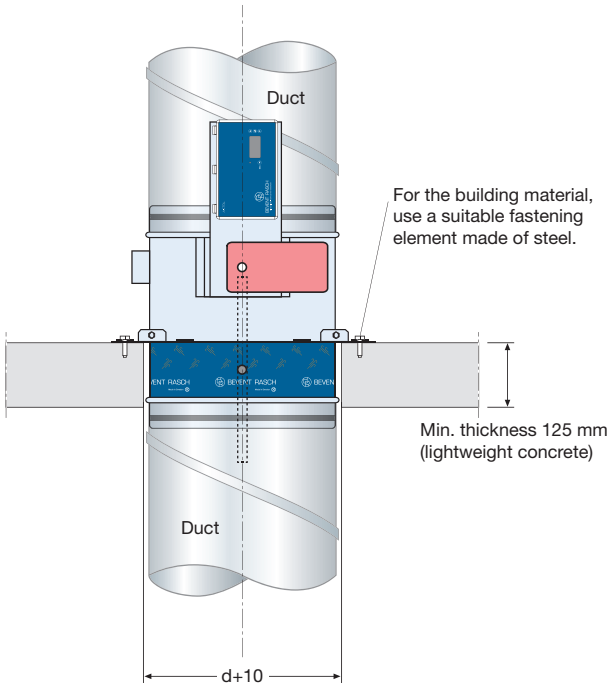
Installation instructions
Operation & Maintenance

2026-11-16

Installation instructions without packing & post-sealing

Installation in wall, floor or slab
Damper fire resistance class: EI 60 (ve) i <–> o [VH] S CMOD.
EC Certificate 0402-CPR-C500380





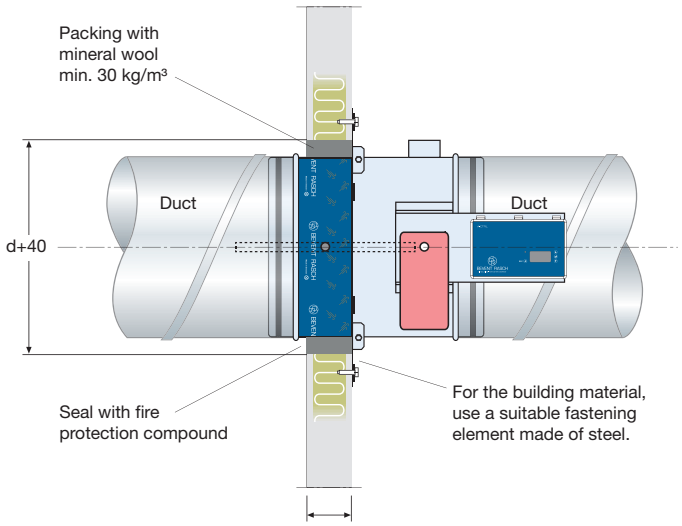
– Installation from one side
– No fire sealant
– No mineral wool packing
– No post-sealing

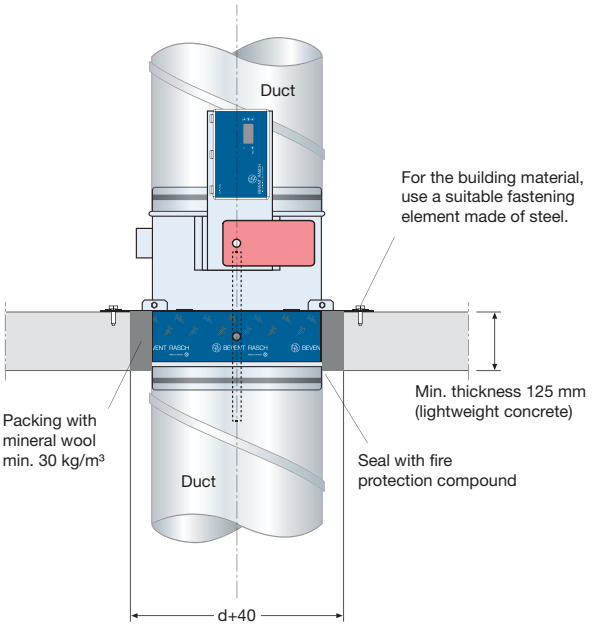
1. Cut an opening for the required size (d + 10 mm).
2. Fix the damper to the duct and secure the mounting flange flush against the building component. Use suitable fasteners for the building material in question. Ensure that the damper's shape is not affected during installation.
3. If required, the damper can be rotated after installation by loosening the screws in the mounting flange. Rotate the damper to the desired position and tighten the screws. The actuator can also be rotated to the desired position.
4. When installing without duct connection, the damper must be fitted with a non-combustible grille. Note that from size Ø250 mm and upwards, the damper blade extends outside the casing in the open position.
5. The duct system shall be suspended according to applicable requirements. Ensure that hangers and the duct system do not interfere with the movement of the damper blade.

- *Damper for installation in walls, floors or slabs.*
- *Minimum distance between dampers shall be 200 mm.*
- *Minimum distance to adjacent construction shall be 75 mm.*
- *Free positioning of the damper shaft.*

Installation instructions with packing & post-sealing

Installation in wall, floor or slab
Damper fire resistance class: EI 60 (ve) i <–> o [VH] S CMOD.
EC Certificate 0402-CPR-C500380



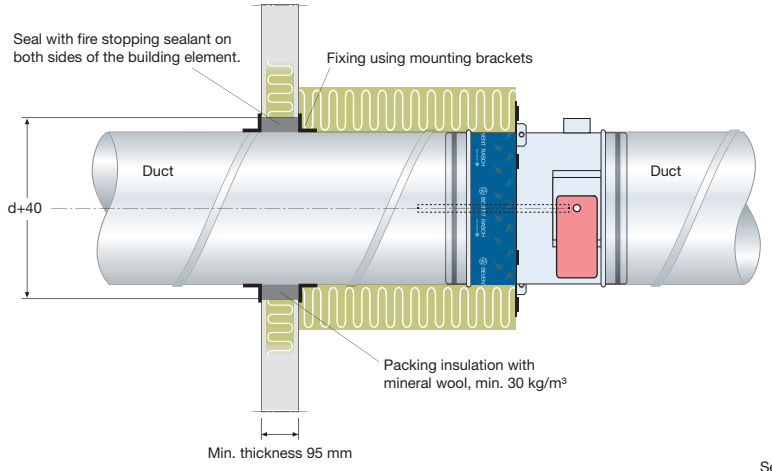


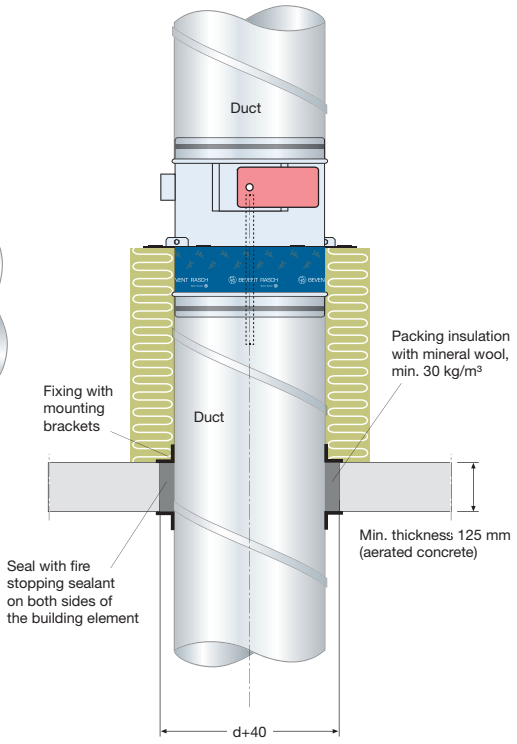
1. Cut an opening for the required size (max. d + 40 mm).
2. Fix the damper to the duct and secure the mounting flange flush against the building component. Use suitable fasteners for the building material in question. Ensure that the damper's shape is not affected during installation.
3. If required, the damper can be rotated after installation by loosening the screws in the mounting flange. Rotate the damper to the desired position and tighten the screws.
   The actuator can also be rotated to the desired position.
4. Fill the gap between the damper casing and the building component with packing insulation, mineral wool min. 30 kg/m³, and seal with fire protection compound.
5. When installing without duct connection, the damper must be fitted with a non-combustible grille. Note that from size Ø250 mm and upwards, the damper blade extends outside the casing in the open position.
6. The duct system shall be suspended according to applicable requirements. Ensure that hangers and the duct system do not interfere with the movement of the damper blade.

- *Damper for installation in walls, floors or slabs.*
- *Minimum distance between dampers shall be 200 mm.*
- *Minimum distance to adjacent construction shall be 75 mm.*
- *Free positioning of the damper shaft.*

Installation Instructions

Installation in Ductwork
Fire Resistance Classification of the Damper: EI 60 (ve ho) i↔o [VH] S CMOD.
EC Certificate: 0402-CPR-C500380



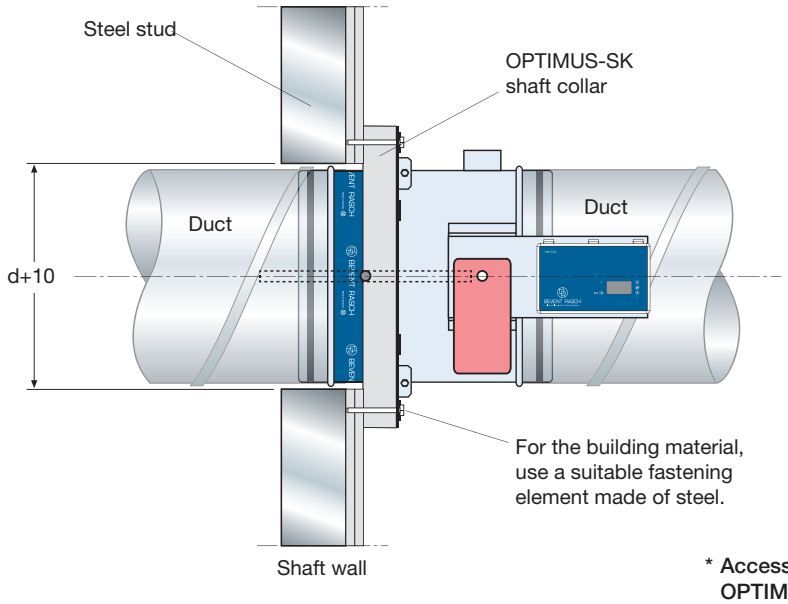


1. Cut an opening of the required size (max. d + 40 mm).
2. Fill the gap between the duct and the building element with packing insulation, mineral wool min. 30 kg/m³. Seal both sides of the building element with a fire stopping sealant. The duct shall be secured with four mounting brackets on each side of the building element.
3. When installed without a duct connection, the damper shall be fitted with a non-combustible grille.
4. Insulate the duct from the building element up to the damper mounting flange using a type-approved insulation system rated EI60 for horizontal ducts and EI120 for vertical ducts, such as Rockwool Conlit Fire Mat or equivalent.
5. The duct system shall be suspended in accordance with applicable requirements. Ensure that hangers and ductwork do not deform the damper or interfere with the movement of the damper blade.

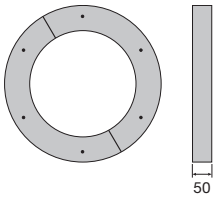
- *Damper for installation in horizontal or vertical duct systems.*
- *Minimum distance between dampers: 200 mm.*
- *Minimum distance to adjacent structures: 75 mm.*
- *Damper shaft may be positioned freely.*

Installation instructions

Installation in shaft wall
Damper fire resistance class: EI 60 (ve) i <–> o [VH] S CMOD.
EC Certificate 0402-CPR-C500380



* **Accessory:**
OPTIMUS-SK SHAFT COLLAR



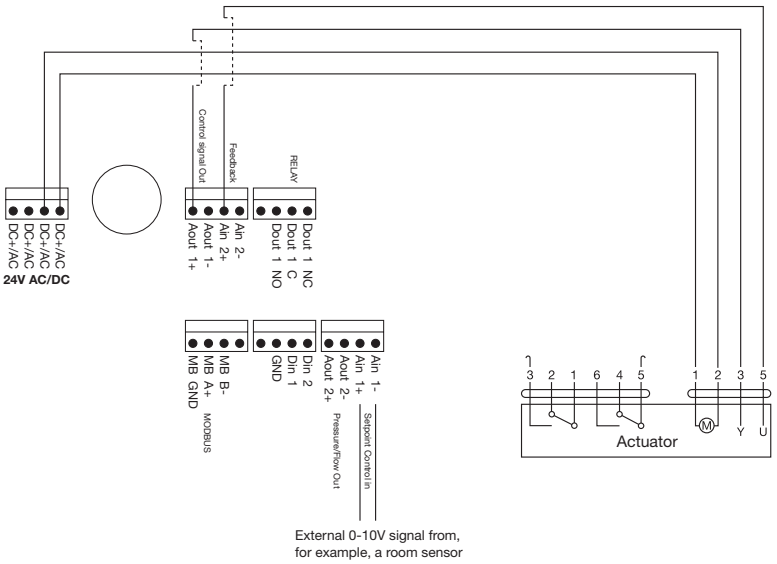
– No sealant
– No mineral wool packing
– No post-sealing

1. Cut an opening for the required size (d + 10 mm).
2. Install the accessory Optimus-SK shaft collar between the damper's mounting flange and the wall. Secure the damper with suitable fasteners for the building material in question. Ensure that the damper's shape is not affected during installation.
3. If required, the damper can be rotated after installation by loosening the screws in the mounting flange. Rotate the damper to the desired position and tighten the screws.
   The actuator can also be rotated to the desired position.
4. When installing without duct connection, the damper must be fitted with a non-combustible grille.
5. The duct system shall be suspended according to applicable requirements. Ensure that hangers and the duct system do not interfere with the movement of the damper blade.

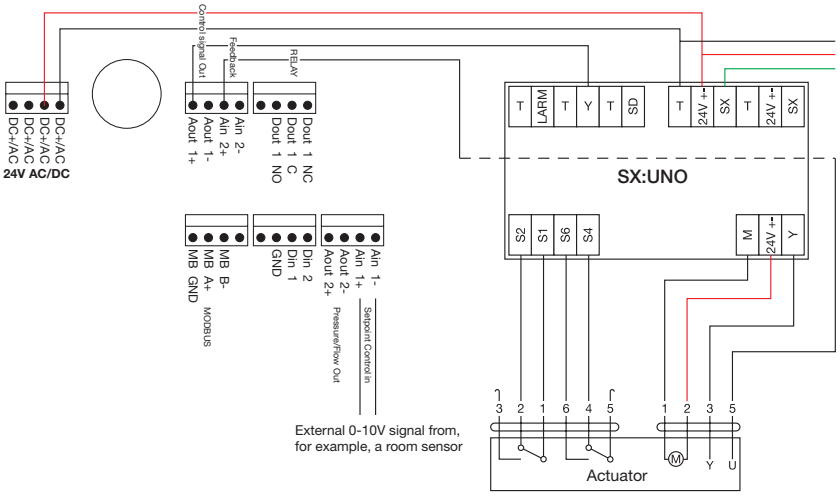
- *Damper for installation in shaft wall.*
- *Minimum distance between dampers shall be 200 mm.*
- *Minimum distance to adjacent construction shall be 75 mm.*
- *Free positioning of the damper shaft.*

Wiring diagram

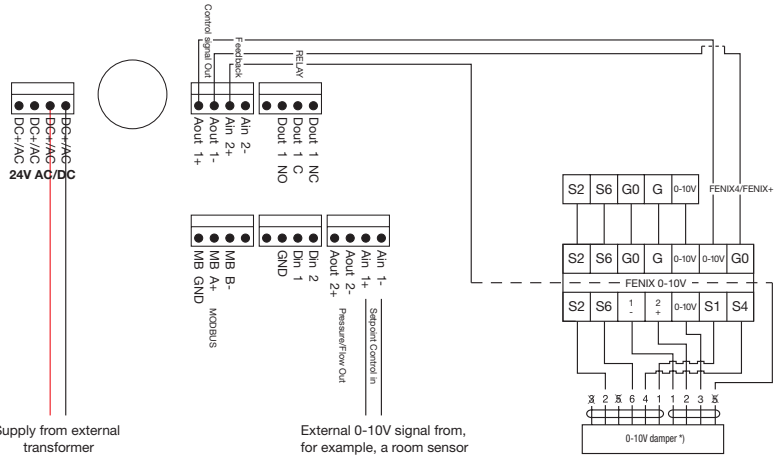
Option 1
– Connection to parent system



Option 2
– Connection to SX:UNO



Option 3
– Connection to FENIX



NOTE!
When connecting several VAV units to the same transformer, it is important that all system phases are connected to ( ) and all system neutrals are connected to ( )⊥

In the event of an alarm or function test, the 24 V supply must be disconnected!

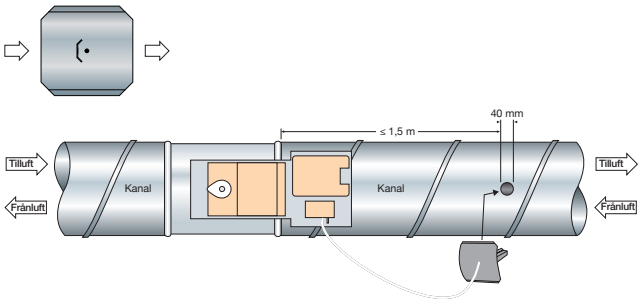
Before installation

Do not expose the damper to moisture or dirt. Check that the damper is not damaged.

The building must not be put into operation until the installation is fully commissioned and the relevant dampers, heat and smoke detectors have been function tested.

Installation

The pressure sensor shall be mounted in a representative position in the duct with the arrow pointing in the airflow direction. The measuring hose must be securely connected to the duct and to the pressure sensor on the damper. If the damper is installed in an exhaust duct, the measuring hose shall be connected to the negative port of the pressure sensor.



A-CTRL

Maintenance-free.
Zero-pressure calibration can be performed if required.

Periodic maintenance and inspection

External inspection

- Check the damper casing to ensure that no external damage or other details prevent the movement of the damper blade.
- Check the actuator shaft screw or fixing bolts as well as other mounting screws and fasteners.

Function check

Verify damper operation by:
- Pressing the test button on the thermal sensor
- Activating the test function on the control unit
- Activating a smoke detector in the relevant section.
- Resetting any alarm on the control unit after the function check is completed

Designation



Cleaning

The cleaning requirement corresponds to the requirements placed on the ventilation system or relevant system parts.

Solvents may damage the fire protection material, seals or bearings. In case of doubt, contact Bevent Rasch.

After cleaning, the damper must be function tested.

Function rules

According to current P-marking requirements, fire dampers shall be automatically function tested every 48 hours, with any malfunction immediately indicated.

Alternatively, the automatic function test may be replaced with a manual, documented function test carried out at least twice per year.

Note that a control system SIOX, FENIX or equivalent is required when using smoke detectors.

The control unit includes a built-in function test of the damper every 48 hours and automatic fault indication.

WARNING!
The damper contains moving parts which may cause crushing injuries if handled carelessly.

OPTIMUS 60-VAP_M_DU_ENG / Oct. 2026 hydria.se

BEVENT RASCH

It´s all about the flow

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