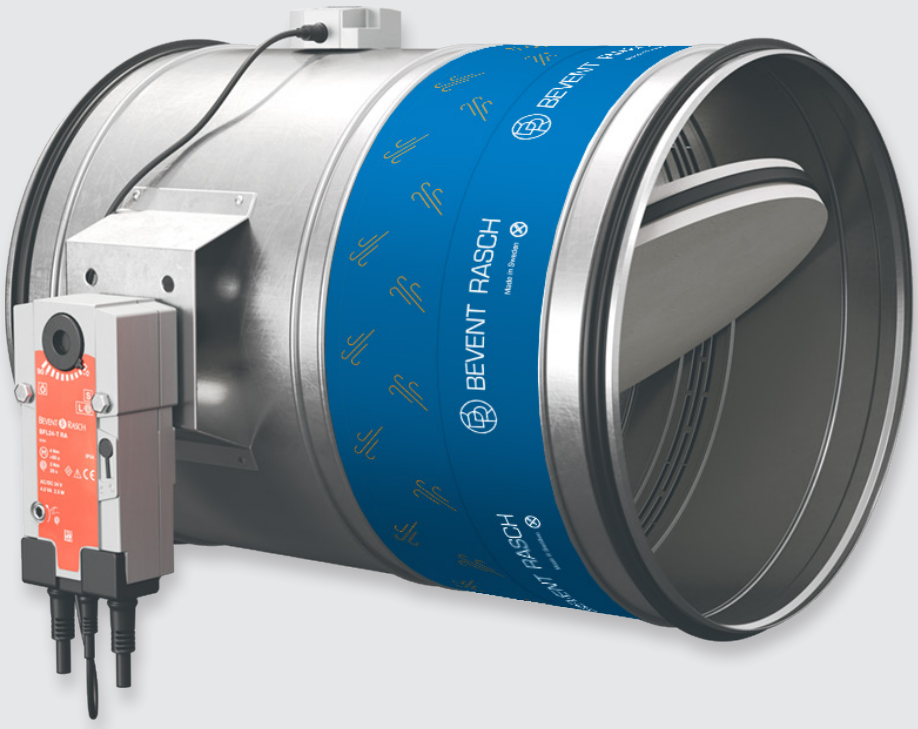
OPTIMUS 90/90R®

Circular fire damper

FIRE SAFETY



CE

Installation instructions
Operation & Maintenance

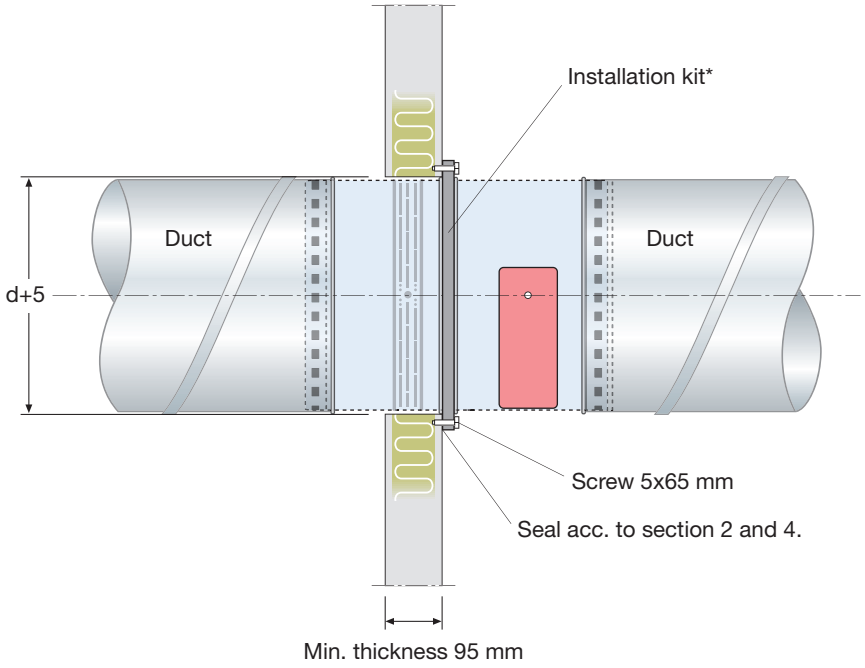
12/11/2026

www.bevent-rasch.com

BEVENT RASCH

Installation instructions

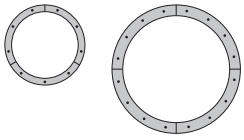
Installation in wall, fire resistance class EI90
Damper's fire resistance class: EI90 (ve ho i <–> o) S.
EG-certificate 0402-CPR-SC0051-19





*** Installation kit (sleeve rings)**

Ø100-315 = 3 parts with 3 screws in each
Ø400-630 = 4 parts with 4 screws in each

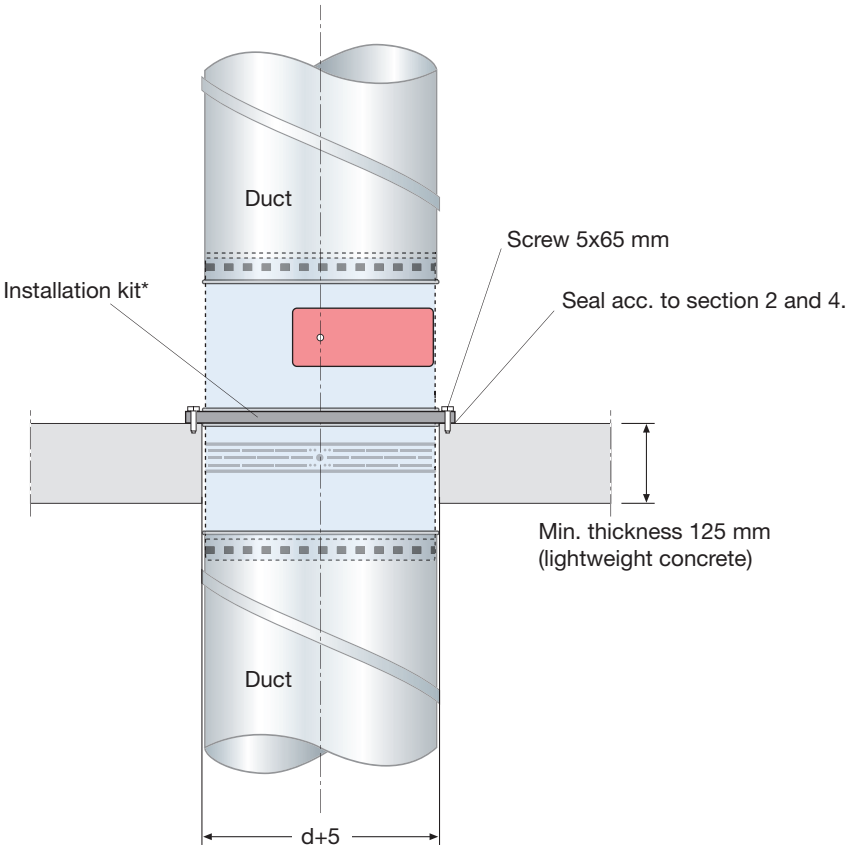


1. Make a hole for size in question (d + 5mm).
2. Apply fire sealant on the wall, 20 mm around the periphery of the hole.
3. Secure the damper flat and tight with the installation kit placed in the groove as shown in the photo. Make sure that the shape of the damper is not impacted when mounting.
4. Seal joints between the installation kit and damper casing with fire sealant.
5. When installing without a duct connection, the damper should be fitted with an incombustible grille. The minimum distance between the open damper blade and grille should be 50 mm.
6. The duct system is fitted in accordance with current requirements. Ensure that suspension and duct systems do not affect the movement of the damper blade.

- *Damper for installation in walls and floors with fire resistance class EI90.*
- *The shortest distance between dampers must be 200 mm.*
- *The minimum distance to the connecting structure should be 75 mm.*
- *Free position on damper spindle.*

Installation instructions

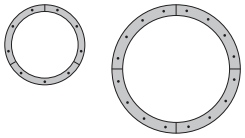
Installation in floor or joist systems, fire resistance class EI90.
Damper's fire resistance class: EI90 (ve ho i <–> o) S.
EC certificate 0402-CPR-SC0051-19





*** Installation kit (sleeve rings)**

Ø100-315 = 3 parts with 3 screws in each
Ø400-630 = 4 parts with 4 screws in each

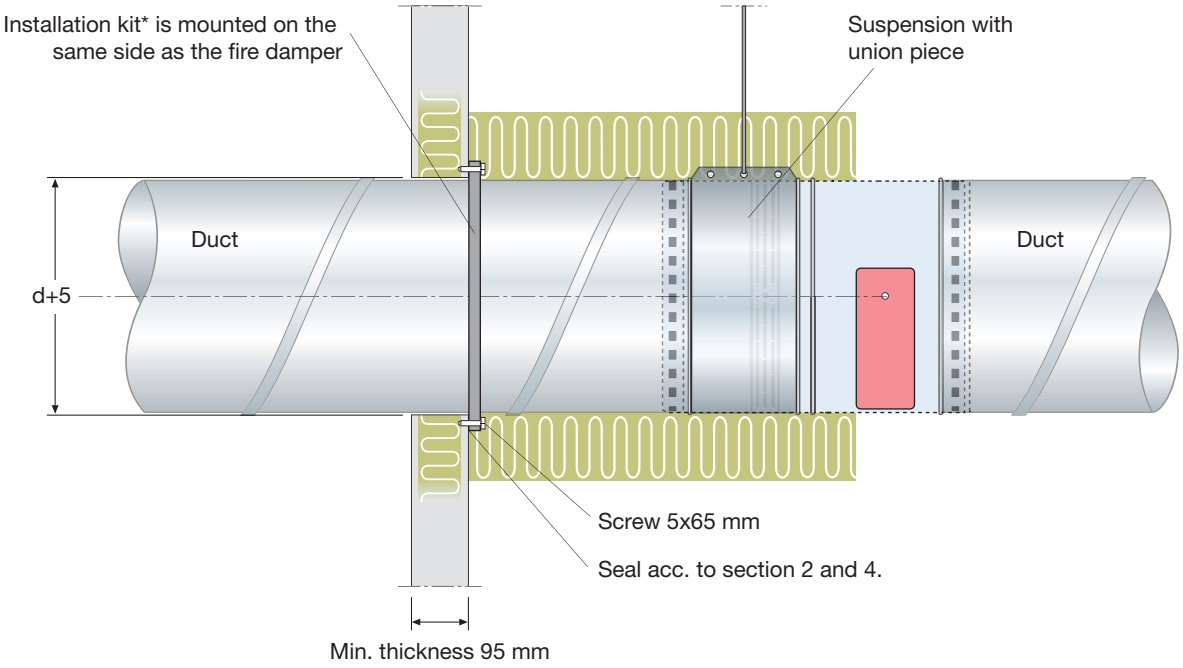


1. Make a hole for size in question (d + 5 mm).
2. Apply fire sealant on the floor, 20 mm around the periphery of the hole.
3. Secure the damper flat and tight with the installation kit placed in the groove as shown in the photo. Make sure that the shape of the damper is not impacted when mounting.
4. Seal joints between the installation kit and damper casing with fire sealant.
5. When installing without a duct connection, the damper should be fitted with an incombustible grille. The minimum distance between the open damper blade and grille should be 50 mm.
6. The duct system is fitted in accordance with current requirements. Ensure that suspension and duct systems do not affect the movement of the damper blade.

- *Damper for mounting in floors or joist systems of at least 125 mm lightweight concrete.*
- *The shortest distance between dampers must be 200 mm.*
- *The minimum distance to the connecting structure should be 75 mm.*

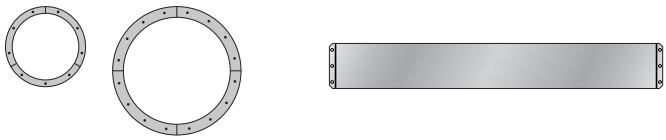
Installation instructions

Installation in horizontal ducts for size up to Ø315.
Damper's fire resistance class: EI90 (ve ho i <–> o) S.
EC certificate 0402-CPR-SC0051-19



*** Installation kit (sleeve rings and union piece)**

Ø100-315 = 3 parts with 3 screws in each
Ø400-630 = 4 parts with 4 screws in each



1. Make a hole for size in question (d + 5 mm).
2. Apply fire sealant on the wall, 20 mm around the periphery of the hole.
3. Secure the installation kit flat and tight to the wall.
4. Seal joints between the installation kit and duct with fire sealant.
5. Fit the metal union piece over the blue decal on the cover of the damper.
6. When installing without a duct connection, the damper should be fitted with an incombustible grille. The minimum distance between the open damper blade and grille should be 50 mm.
7. Insulate the duct, from the hole in the wall to the actuator of the damper. Insulate the duct system EI90 according to the supplier's instructions.
8. The duct system is fitted in accordance with current requirements. Ensure that suspensions and duct systems do not affect the shape of the damper or impede the movement of the damper blade.

- *Dampers for installation in duct systems, size Ø100 - Ø315.*
- *The shortest distance between dampers must be 200 mm.*
- *The minimum distance to the connecting structure should be 75 mm.*
- *Free position on damper spindle.*

Before Installation

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

The building should not be put into use until the installation is fully operational and the relevant dampers, thermal sensors and smoke detectors have been functionally tested.

Periodic Maintenance and Inspection

The damper is maintenance-free and is equipped with inspection holes for internal inspection.

Functional Check

- Check the damper casing to ensure that no external damage or other components could obstruct the movement of the damper blade.
- Check the actuator mounting screws and fixings.
- Check that the actuator is functioning correctly by interrupting the power supply using the test button on the BAT 72° thermal sensor. The damper closes. The damper opens again when the power supply is restored by releasing the button.
- Testing via the control unit must be carried out in accordance with the unit's functional testing instructions.

Cleaning

The cleaning requirements are the same as those applicable to the ventilation system or the relevant part of the system.

Cleaning should be carried out as required using a dry cleaning method.

Solvents may damage the fire protection material, seals and bearings. If in doubt, contact Bevent Rasch.

After cleaning, check that the damper is functioning correctly in accordance with the functional check instructions.

Functional Testing

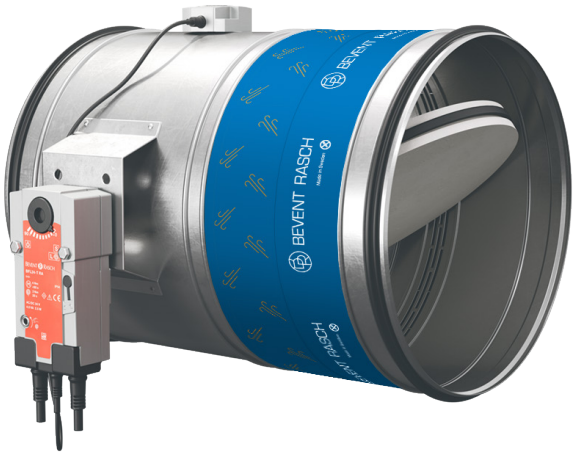
It is recommended that fire dampers be automatically function-tested every 48 hours, with any malfunction indicated immediately.

Alternatively, automatic functional testing may be replaced by manually performed and documented functional tests carried out at least twice a year.

Please note that an MRB, SIOX, Fenix or equivalent control system is required for smoke detectors.

MRB, SIOX and Fenix also feature built-in functional testing of dampers every 48 hours and automatic fault indication.

Designation



210217.0002 / Nov. 2026 hydria.se