



2025-12-02

Operating instructions

EX-classified louvre and butterfly dampers





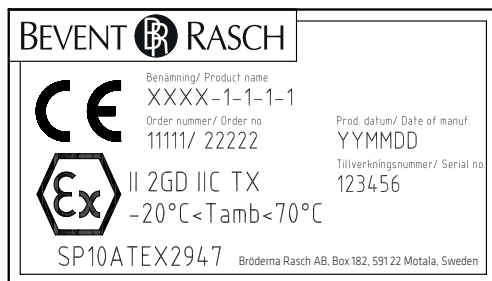
These operating instructions apply to the following dampers:

EXJB
EXJC
EXTB
EXTC
EXTD

1. General & Marking

The dampers are used for regulation, balancing, or shut-off of air or gas flow in ventilation ducts, primarily in industrial processes.

The product shall be marked with an approved nameplate similar to the one shown below.



TX = The equipment itself does not generate any temperature increase; the surface temperature depends solely on the ambient temperature and on the temperature of the process medium flowing through the damper.

For explosive gas atmospheres, the maximum surface temperature must not exceed 80% of the minimum ignition temperature of the specific explosive gas. For explosive dust atmospheres, the user must ensure appropriate safety margins in accordance with, for example, EN 1127-1:2011.

2. Actions in case of inspection or malfunction

External inspection

- Check the damper casing and linkage system to ensure that no external damage or foreign objects are obstructing the movement of the damper shafts.
- Check that the damper shaft can be rotated to both end positions.
- Lubricate the damper linkage system if necessary.

Internal inspection

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

- Check that no damage or foreign objects are obstructing the movement of the damper blade.
- Check that the blade seals are intact.
- If internal inspection, as described above, cannot be carried out, the damper's function and tightness can only be verified by measuring the differential pressure across a closed damper.



Cleaning

- The cleaning requirements correspond to those specified for the installation or the relevant part of the installation.
- Do not use solvents that may damage seals or bearings.
In case of uncertainty, contact Bevent Rasch.
- After cleaning, check that no damage has occurred.

3. Motorisation

Motors and limit switches that are either mounted or intended to be mounted on the dampers **MUST** always have ATEX approval and the correct temperature class for the intended zone/application.

Regardless of whether the dampers are delivered with actuators pre-mounted from the factory, or if the customer installs the motor afterwards, it is **ALWAYS** the responsibility of the end user/installer/commissioning technician to ensure that the closing/opening time does not fall below the specified 3 seconds.

That is, the time from fully open to fully closed, or vice versa, regardless of whether rapid closing is achieved by means of a spring, etc.

If the actuator is operated pneumatically, the operating pressure (bar), the quality of the air, etc., are of great importance. These factors are critical for the actuator's capacity, torque output, and opening/closing speed.

To regulate the airflow, throttling valves can be installed ahead of the actuator.

For further information and adjustment, refer to the actuator data sheet.

When Bevent Rasch supplies a factory-mounted actuator, the corresponding actuator data sheet is always included.

NOTE! To ensure that the dampers comply with the applicable ATEX Directive, it is always the responsibility of the end customer to verify that the operating time from fully open to fully closed (or vice versa) NEVER falls below 3 seconds. This requirement also applies during emergency/rapid closing by spring return, etc.

Additionally, the actuator's specified torque must never exceed 100 Nm.



4. Installation



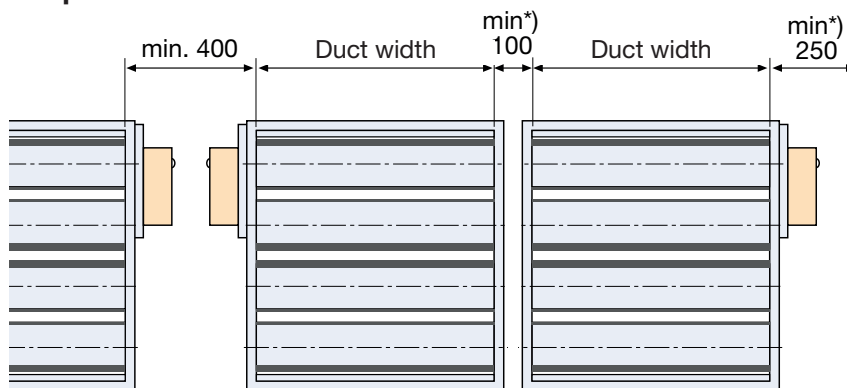
The grounding point is marked with the following symbol: (The symbol is referenced in the original document.)

The dampers must be grounded and are equipped with a grounding point and a supplied cable lug.

The dampers shall be installed in a professionally correct manner in the intended application.

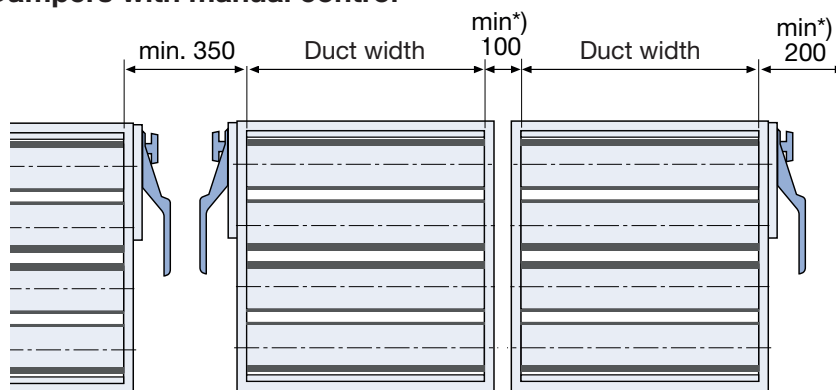
The damper must never be installed in any orientation other than with the blade shaft positioned horizontally.

Dampers with electric actuators

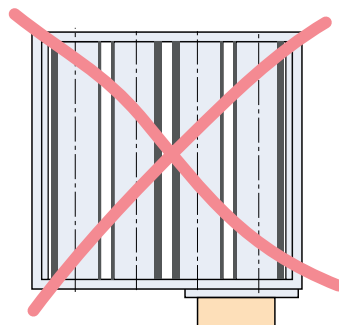


*) Applies to uninsulated ducts

Dampers with manual control



*) Applies to uninsulated ducts





5. Commissioning

During any commissioning/connection of actuators mounted on the dampers, whether performed by Bevent Rasch or by the end customer/installer, the operating instructions for the respective actuator must be followed.

Bevent Rasch disclaims all responsibility for faults arising from incorrect wiring, incorrect handling, or incorrect mounting of actuators on the dampers.

It is always the responsibility of the end customer to verify that the wiring is correct and carried out in accordance with the instructions, and that the dampers operate properly.