

## IMPROVED RELIABILITY

# FIRE PROTECTION DAMPERS IN HOTELS

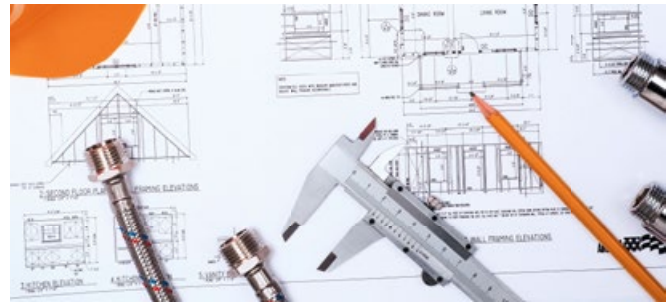
Hotels frequently fall victim to fires that can break out in kitchens, saunas or reception rooms. A danger to life tends to be posed more frequently by toxic smoke than by the actual fire. In the event of a fire, the highest priority therefore needs to be the containment of toxic gases, smoke and flames. The fire protection and smoke protection dampers in the ventilation systems must be able to function perfectly, even under extremely arduous conditions.



**MINIMALISM**

**FOR GREATER SAFETY**

Gruner developed its fire protection damper actuator to a minimalism design, a unit capable of functioning reliably and rapidly in serious situations. In this design, the development team at Gruner scaled down the componentry required and focused on using wear-resistant parts. This extends service life and improves functional reliability.



**STEEL COMPONENTS**

**FOR TEMPERATURES ABOVE 90 DEGREES**

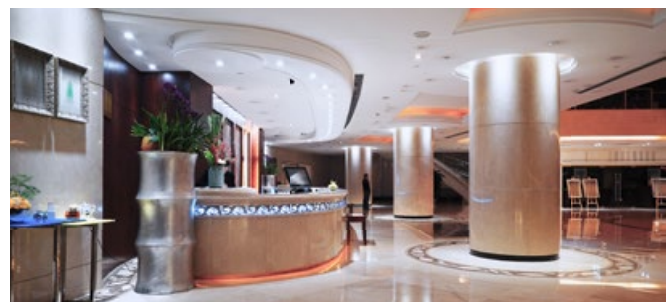
All the major parts in these actuators are made of steel, making them able to cope with temperatures above 120 degrees – even over extended periods. A temperature switch with LEDs clearly shows the status of the damper and makes troubleshooting and maintenance easier.



**INDIVIDUALLY ADAPTED**

**ACTUATORS IN OPERATION**

In a hotel at the main railway station in Munich, 400 fire protection dampers made by geba Bartholomäus GmbH and specially adapted actuators from Gruner were installed. The actuators for fire protection and smoke protection can be supplied as spring return actuators (series 340 and 360) and as smoke protection actuators (series 342 and 362).



**DAMPER IN 35 SECONDS**

**VERY ROBUST ACTUATORS**

The actuators developed by Gruner can close dampers in just 35 seconds and can be controlled by building management control systems. The entire system can be linked up by Modbus to assure central monitoring and reporting in the event of a fire.



**ACTUATOR 340**



**ACTUATOR 360**