

90000126 General Manual

**General installation, operation, maintenance, and datasheet for 125mm valve
90000126**

Keep this with the product!



Figure 1: Valve 90000126

1.0 Technical Specifications

1.1 Dimensions

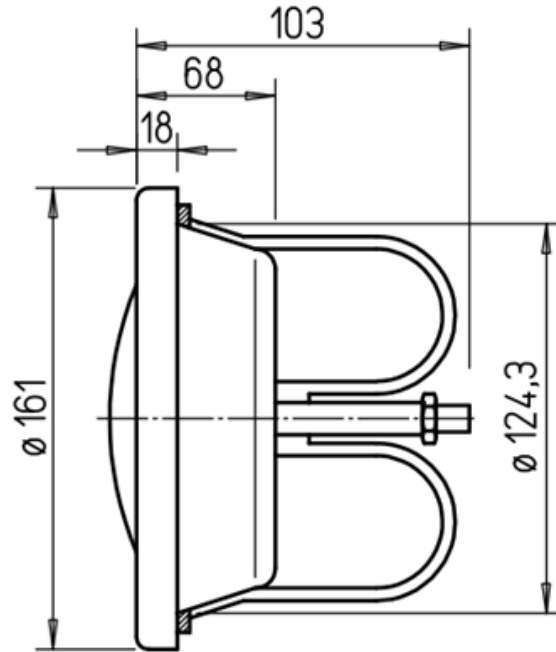


Figure 2: Dimensions

1.2 Airflow curves and pressure rates

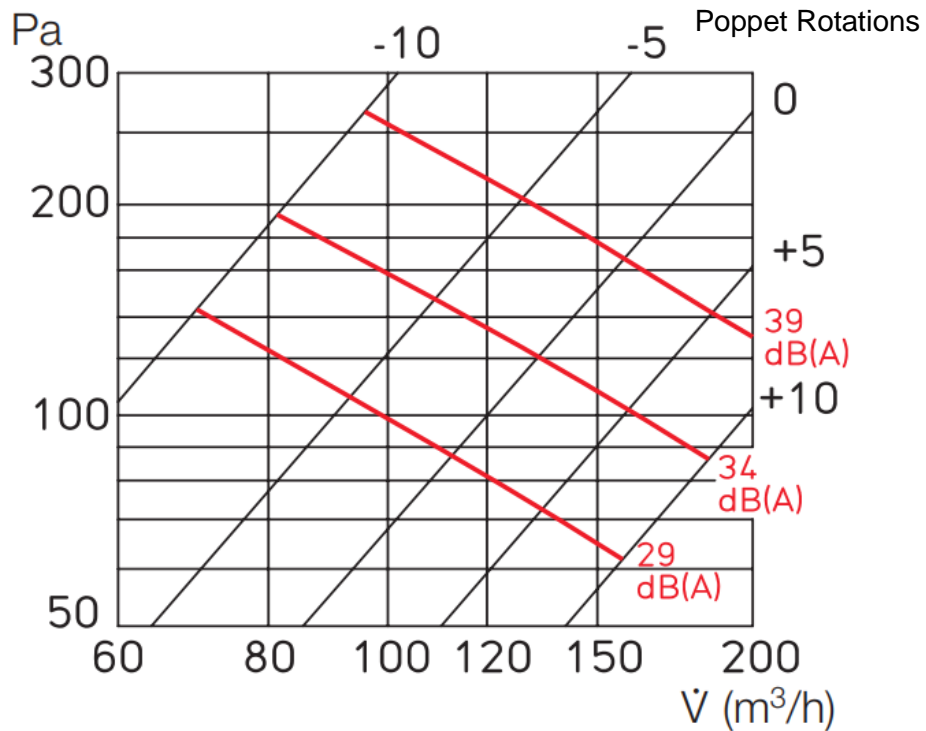


Table 1: Airflow curve, sound attenuation and pressure rates

2.0 Installation and Operating Instructions

To ensure proper functioning and personal safety, all the following regulations and the information must be read carefully and observed! The valve offers protection against the transmission of fire.

2.1 Receipt

The shipment must be checked for damage and correctness immediately upon delivery. If there is any damage, promptly report the damage by consulting the transport company. If complaints are not made within the agreed period, any claims could be lost.

2.2 Delivery

Fire protection poppet valve 90000126 and mounting ring which must be used.

2.3 Area of Application

Fire protection valves for preventing the spreading of fire and smoke. Suitable for installation in ventilation systems according to for supply and extract air inside and outside of the walls of classified ventilation shafts according to the designs in figure 5.

2.4 Functions

If the ambient temperature of +72 °C is exceeded, the integrated fusible link releases the inner cone, which snaps closed by spring force.

2.5 Fire Classifications

Depending on the installation and conditions the valves has the following fire safety rating. K 90-18017 in ventilation shafts with a fire resistance duration of at least 90 minutes. K 30-18017 in ventilation shafts with a fire resistance duration of at least 30 minutes.

2.6 Permissible use

The ventilation shafts must be at least 24 mm thick and be made of mineral-based building materials; they can be single-layered or be made of single or multilayer building materials. The ventilation shafts must also be designed with moulded parts. A fire resistance duration of at least 30 minutes must be proven for ventilation shafts. Main air ducts may have free cross-sections of max. 1000 cm². There must be concrete casting (at least 100 mm) between the air ducts and the fire protection cladding in ceiling areas. The valve must be connected to ventilation ducts made of non-combustible building materials (class A, DIN 4102) within the ventilation shaft. They may also be connected to ventilation shafts without inner ducting. The valve may only be connected to ventilation ducts if their design and installation does not exert significant force on the fire protection valve or the ventilation duct because of heating in the event of a fire. The connection to extract air ducts of commercial kitchens is not permitted. Extractor hoods with in-built fans and vapor extraction hoods in kitchens must not be connected to the valve.

2.7 Accessibility

The fire protection valves must be installed so that the internal inspection and cleaning of the individual components of the fire protection valves is as easy as possible without removing ventilation components.

2.8 Inspection and Cleaning

The approval does not specify any maintenance requirements; however, the valve is a safety element, so regular inspections and cleaning are advisable. These should take place in the context of the cleaning work required for the ventilation system. The frequency depends on the operating mode and accumulating dirt.

2.9 Mounting and Installation.

By means of mounting ring (scope of delivery) in walls made of masonry, aerated concrete or gypsum boards, shaft partitions in F 90 and F 30... as well as non-fire resistant suspended ceilings. Installation is possible on both sides, regardless of the air flow direction. The mounting ring must be screwed to the shaft wall with wall anchors at three points distributed evenly over the circumference. Installation according to the designs in Fig.3, and according to detailed designs. Shaft penetration areas must be sealed with mortar group II or III.

Wall/ceiling installation with mounting ring (included in delivery).

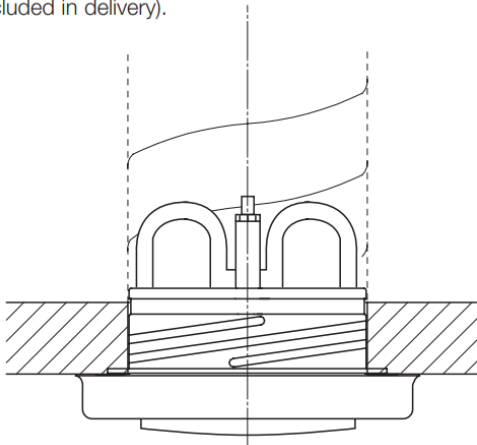


Figure 3: Wall/Ceiling Installation

Shaft/ceiling installation

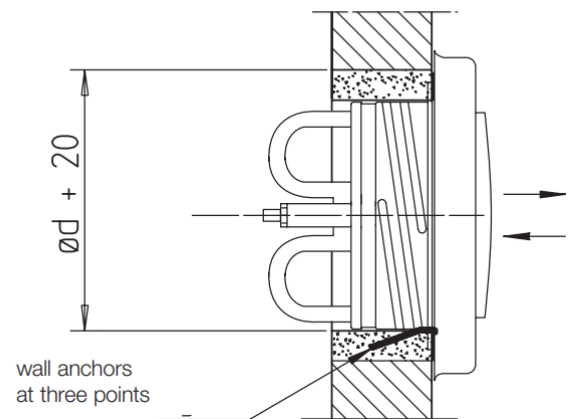


Figure 4: Wall Installation

2.10 Volume adjustment

The volume flow can be adjusted by turning the valve center ring and locking with the locking nut.

2.11 Installation into spiral ducts or Installation frames in shaft walls

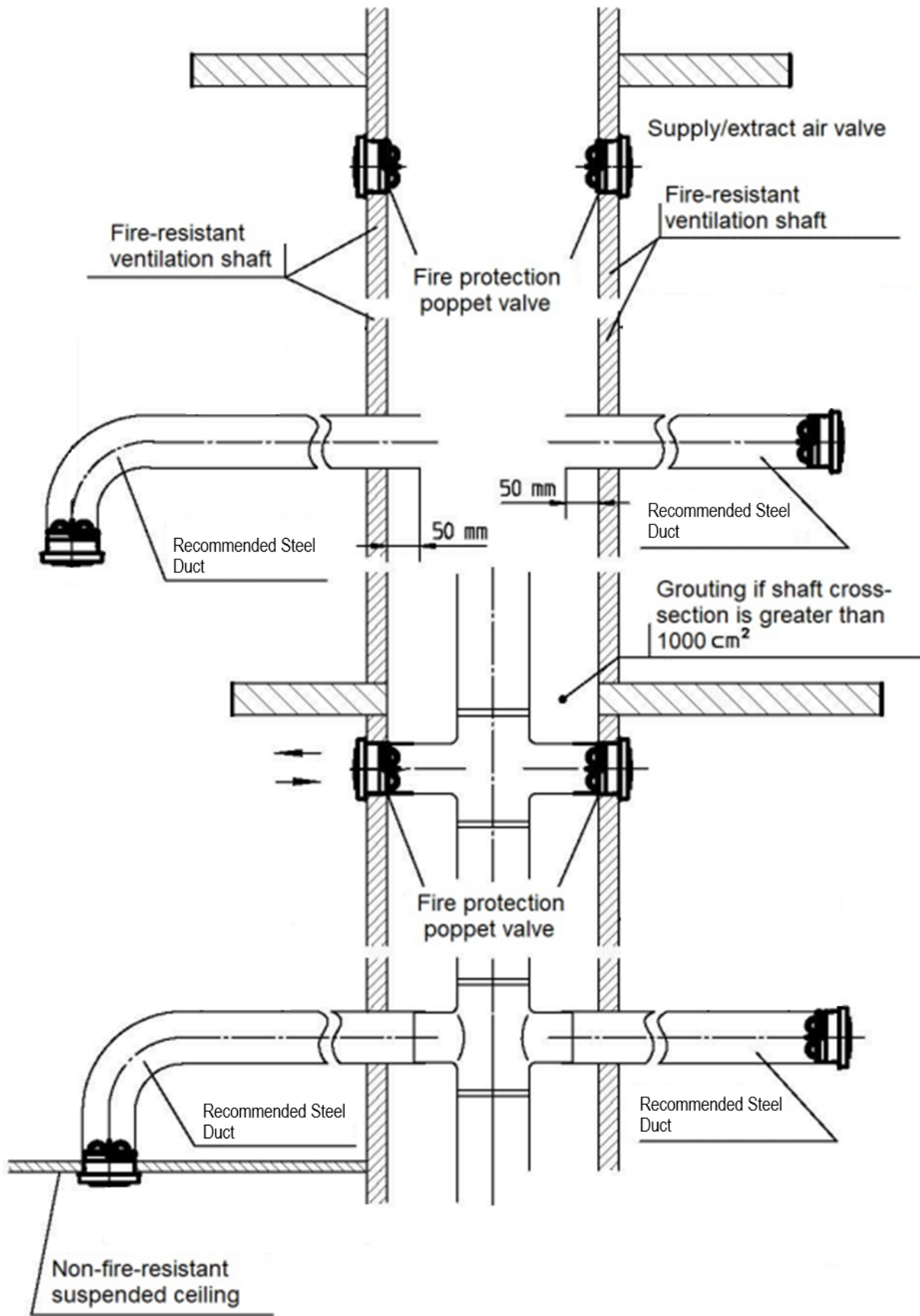


Figure 3: Installation in spiral ducts or frames in shaft walls

