Air tight in-duct back draught shutter RVE..

INSTALLATION AND OPERATING INSTRUCTIONS
NO. 94 298-002

To ensure safety please read and observe the following instructions before proceeding.

■ RECEIPT

The products will be delivered in transparent bags with air tight in-duct back draught shutter RVE .. including spare-holding bar and mounted rubber membrane (thickness of 1 to 1.5 mm). Another membrane (1.0 - 2.0 mm thick) is supplied loose. It is - depending on the application - to be exchanged if necessary against the mounted membrane.
Please check the consignment immediately on receipt for correct contents and possible damage. If damaged, please notify the carrier.
Delay in notification may invalidate the warranty.

■ APPLICATION

The air tight in-duct back draught shutters are used in the supply and exhaust air systems and are provided for direct insertion into air ducts with diameter 80 mm to 200 mm.

■ OPERATION

The air tight in-duct back draught shutters RVE.. work automatically and energy independent as back draught shutter. The rubber membrane seals odor and air tight against the flow direction.

■ FUNCTIONAL RANGE

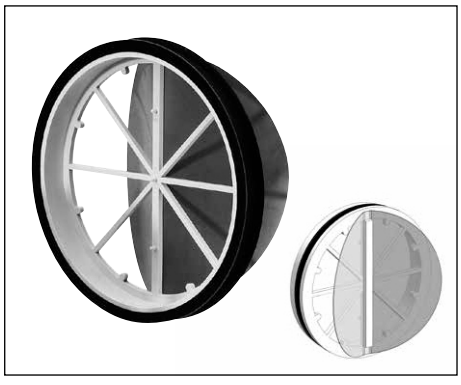
Die RVE shutters are perfectly suitable as in-duct back draught shutters in supply and extract air duct systems. The rubber membrane opens toward the the holding bar by applied negative or positive pressure (depending on the installation position) here they have convincing product advantages, such as:
- fast and easy in-duct installtion in standard ventilation ducts
- no rattling noise at varying wind pressure
- high tightness,
- small installation depth

■ INSTALLATION

- Insert the RVE shutter into the duct - preferably at an easily accessible position (beginning of the duct or its end). A polymer ring with surrounding double lip seal provides the necessary sealing in the ventilation duct.
- Pay attention to proper flow direction.
- Provide for a clean supply and extract air flow.
- At horizontal air flow the rotation axis must be in vertical position (See Fig.1).
- Attach supplied sticker “Positioning of back draught shutter in the duct” clearly visible outside of the duct.

■ REPLACEMENT OF THE RUBBER MEMBRANE

The in-duct back draught shutters RVE are supplied with mounted rubber membrane with a thickness of 1 to 1.5 mm (depending on the type). If higher flow rates occur in the supply and extract air systems (consider flow rate diagram of each type), the installed membrane has to be replaced by the enclosed rubber membrane (material thickness 1 - 2,0 mm), because otherwise there may be a rattling noise.



Dis-/assembly (Fig. 2)
Carefully pull the holding bar upward and remove it. Then attach the supplied membrane and fasten with holding bar.

⚠ **ATTENTION: Do not use sharp-edged tools. Membrane can be damaged!**

■ TECHNICAL DATA

Temperature range	-20 °C to +90 °C

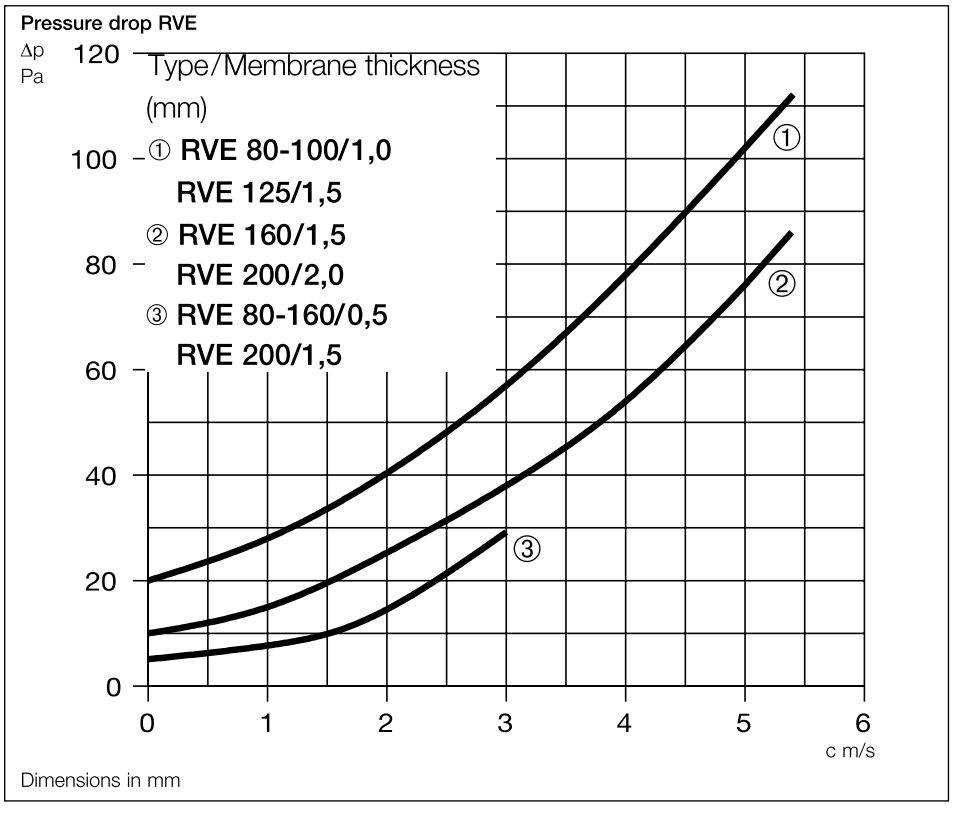
■ TYPE OVERVIEW

Type	Ref. No.	Thick mm	Ø mm
RVE 80	2584	1,0	80
RVE 100	2587	1,0	100
RVE 125	2588	1,5	125
RVE 160	2589	1,5	160
RVE 200	2618	1,5	200

■ PERFORMANCE RESULTS

The optimal performance results of the corresponding types are shown in the accompanying diagrams. The air flow speed as a function of the pressure difference depends on the membrane thickness of the RVE shutter.

■ PERFORMANCE CURVES



■ MAINTENANCE

The components are stain-resistant and require no maintenance. However, when used in humid and dusty environment, they should be checked periodically for proper function. If soiled they should be cleaned in soapy water.

■WARRANTY - EXCLUSION OF LIABILITY

If the preceding instructions have not all been observed any warranty will be invalid. This also applies to any liability claims extended to the manufacturer.

■ REGULATIONS - GUIDELINES

When correctly installed and operated the unit conforms to the regulations and guidelines applying at time of its manufacture.

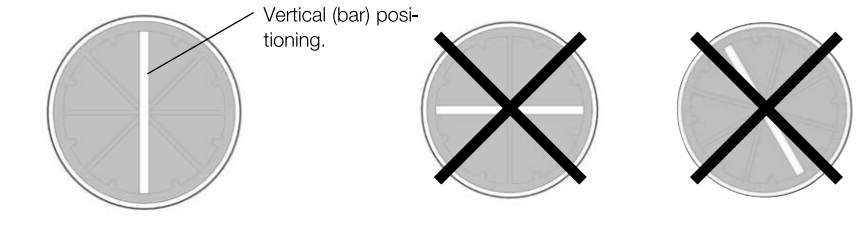
CE

WENT-DOM ul. Bartycka 26 Pawilon 29 00-716 Warszawa www.wentylator.co

Air tight in-duct back draught shutter RVE..

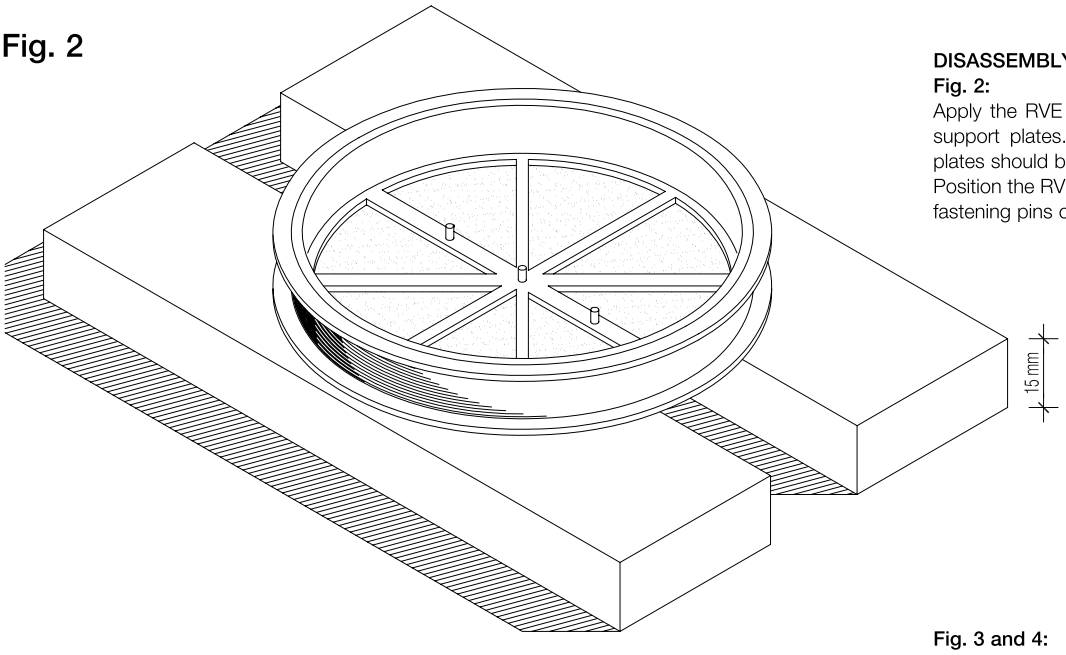
■ DISASSEMBLY/ASSEMBLY

Fig. 1



INSTALLATION POSITION
Fig. 1:
RVE positioning during installation in ventilation duct

Fig. 2



DISASSEMBLY
Fig. 2:
Apply the RVE shutter on two at least 15 mm high support plates. The distance between the support plates should be approximately 20 mm.
Position the RVE shutter with the holding bar and the fastening pins centrically.

Fig. 3

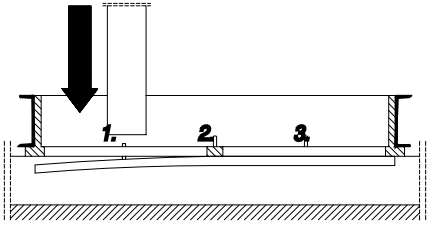


Fig. 4

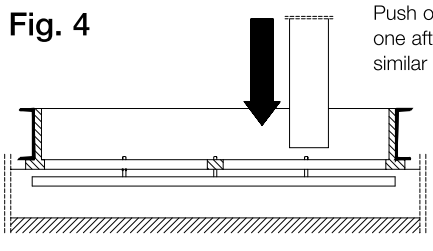


Fig. 3 and 4:
Push out the three pins of the holding bar carefully one after another with a hard piece of wood or a similar tool.

Fig. 5

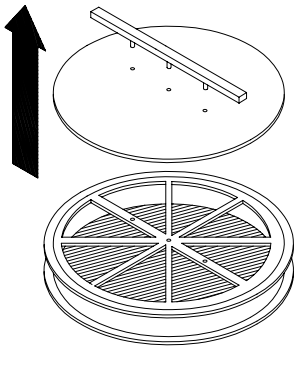


Fig. 6

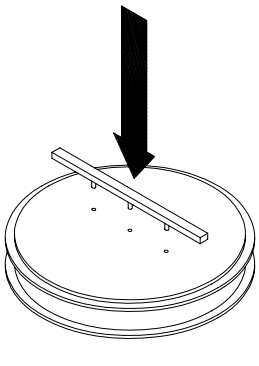


Fig. 5:
Turn the RVE shutter, lift carefully the holding bar and remove the rubber membrane.
⚠ **ATTENTION: Do not use sharp-edged tools. Membrane can be damaged!**

ASSEMBLY
Fig. 6:
Put a new rubber membrane on the RVE shutter and attach the hold holding bar on carefully.

Druckschrift-Nr. 94298-002/-/V02/0720

Service und Information
D HELIOS Ventilatoren GmbH + Co KG · Lupfenstraße 8 · 78056 VS-Schwenningen
CH HELIOS Ventilatoren AG · Tannstrasse 4 · 8112 Otelfingen
A HELIOS Ventilatoren · Postfach 854 · Siemensstraße 15 · 6023 Innsbruck
F HELIOS Ventilateurs · Le Carré des Aviateurs · 157 av. Charles Floquet · 93155 Le Blanc Mesnil Cedex
GB HELIOS Ventilation Systems Ltd. · 5 Crown Gate · Wyncolls Road · Severalls Industrial Park · Colchester · Essex · CO4 9HZ

WENT-DOM ul. Bartycka 26 Pawilon 29 00-716 Warszawa www.wentylator.co