



Chimney Draught Limiter Installation Instructions



Installation of mounting element

(for installation on flue gas duct with diameter of 100 – 180 mm)

The first and essential step is to identify the place suitable for installation with respect to all safety instructions and dimensions of this device. As the rule says, constant draught within a broad range of boiler output and aeration of the chimney can be achieved by installing the device as close to the chimney as possible.

Preparation

Start by adapting both cover segments of the draught limiter to the diameter of flue gas duct and slide them onto the mounting element (Fig. 1). When assembled, the mounting element must be fitted (pressed) on the desired installation spot on flue gas duct and aligned to it the size of hole to be made into the flue gas duct must be marked inside the element. Cut the hole out as needed.

Attention: the hole must be at least 1 cm less than the internal diameter of the mounting element marked (or diameter of 100 mm, for example). Place the mounting element on the cut-out hole, place some draw band around the flue gas duct and insert the band inside the turnbuckle slot. Tighten the turnbuckle as shown in Fig. 1. Once tightened, secure the slotted screws with nut to prevent release of the band. Seal the contact space between mounting element and flue gas duct using an adhesive aluminium tape or bonding agent. Further secure the mounting element against rotation on the flue gas duct by drilling the draw band together with the flue gas duct and secure them using a rivet or a drive screws respectively.

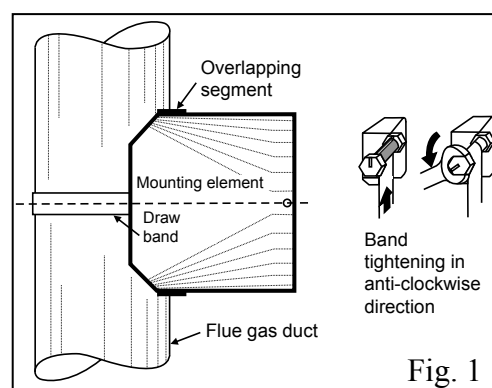


Fig. 1

Installation of the draught limiter in chimney

Slide the draught control (Fig. 2) onto the mounting element already installed and align the lower edge of guide metal in horizontal plane. Further proceed by securing the chimney draught limiter to the mounting element by means of rivets or short drive screws. For this purpose, there are two holes in the side of chimney draught limiter (lid with flap valve). Be careful not to use rivets or drive screws too long. The control flap valve may be stuck on those or its opening function could be hindered completely.

Setting the chimney draught control

The desired draught can be set-up by shifting the two weight as indicated in the settings table (see the control flap valve). Once set in the desired position, these weights need to be locked by tightening in mutually opposite directions. Settings can be done either using the settings table (Fig. 3) or preferably using a draught gauge, while the chimney draught measurement is performed during boiler operation (at least 1 hour after ignition) between the draught limiter and boiler.

Caution: avoid removal or adding of any parts from/to the draught limiter.

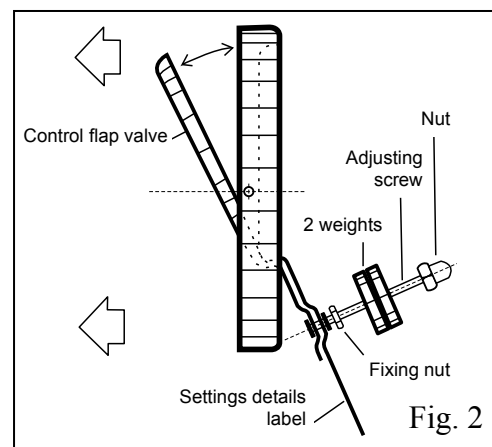


Fig. 2

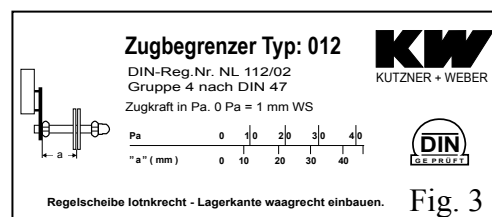


Fig. 3

Maintenance of the chimney draught control device

Devices for chimney draught control are basically maintenance free. The bearing (flap valve shaft housing) must be cleaned using a soft brush in case of great dust and dirt concentrations. If needed, the bearing can be lubricated using resin-free oil (sewing machine oil). Avoid any excessive lubrication of the bearing using oil or even grease, as these would cause depositing of sediments. The space behind flap valve must be cleaned in case of heavy contamination.

Safety instructions

Chimney draught limiters work together with boilers. That is why you need to obtain information about draught control from your qualified heating engineer or skilled chimney-sweep.

Faultless functioning is subject to compliance with the following instructions:

DIN, ČSN and EN allow use of draught limiters in boilers, flue gas ducts or flue gas discharge equipment only if operated in vacuum (compulsory vacuum between the boiler and chimney at all times).

Location of a chimney draught limiter must be identical with boiler installation space or an adjacent area associated with the boiler room installation space with respect to supply of combustion air. A skilled chimney-sweep may approve certain exceptions in case the boiler installation space and the draught limiter location shows approximately the same pressure conditions with the maximum difference up to 4 Pa (same side of the building).

Attention – Installation must be performed in compliance with laws, directives, orders and standards in force.

Under exceptional circumstances, the chimney draught limiter can be installed behind an existing throttle valve closer to the chimney. Avoid installation before the throttle nozzle (between the boiler and throttle nozzle), which would prevent the vacuum inside the connection pipe.

The chimney draught limiter must be installed at least 30 cm from the boiler. If the flue gas duct is fitted with a flue gas sensor or a thermometer well, the chimney draught limiter may be installed behind those only to prevent distortion of values by cold air sucked in.

Measures for chimney burning-in

Prior to burning-in, the chimney draught limiter must be removed from the flue gas discharge device and replaced with a closing valve. Its function has to be checked again once re-installed.

Technical data

Type	012 RaRo
Place for installation	- flue gas duct with diameter of 100 - 180 mm
Class defined by DIN 4795	1 - 4
Range of settings	10 - 30 Pa (0,1 - 0,3 mbar)
Application range	up to the chimney effective height of 15 m, nominal chimney diameter up to 200 mm maximum
Material	012 - aluminium coated steel
Registration number	NL 112

