

PLENUM BOXES FOR SLOT DIFFUSERS





VK - 100

VK - 100 Series

Description

Plenum box type VK - 100 series is designed to ensure equal distribution of air across the slot diffusers. The supply plenum box has acoustic lining to reduce noise generated inside the duct due to airflow turbulence before reaching the diffuser. The built-in damper can be operated from the spigot connection or from face of diffuser.

Standard Construction

Plenum Box:
Built of galvanized steel sheet gauge 24, conform to ASTM A653, Lock Forming Quality, G90 zinc coating.

Insulation:
25 mm thick acoustic lining with black glass tissue facing, 48kg/m³ density. Acoustic lining is fixed inside the plenum box with non-flammable adhesive and mechanical fastener (cupped head pins).

Spigot:
Spigot inlet with damper as standard.

Additional Options

1. Spigot inlet without damper.
2. With perforated sheet covering the acoustic liner facing the air stream to prevent damage and fibers erosion.
Type: VK - 100P, VK - 110P, VK - 120P, VK - 130P.

3. Plenum box built of stainless steel sheet Type 304.
Type: VK - 100S, VK - 110S, VK - 120S, VK - 130S.

Plenum Box with Inlet Option

VK - 110
General construction as type VK - 100 plenum but damper blade is adjustable from face of diffuser.

VK - 120
General construction as type VK - 100 plenum but with especial damper adjustable horizontally with damper control on face of diffuser. A plastic tube is fitted to damper control for pressure test if required.

VK - 130
General construction as type VK - 100 plenum but damper blade open or close sideward with damper control on face of diffuser.

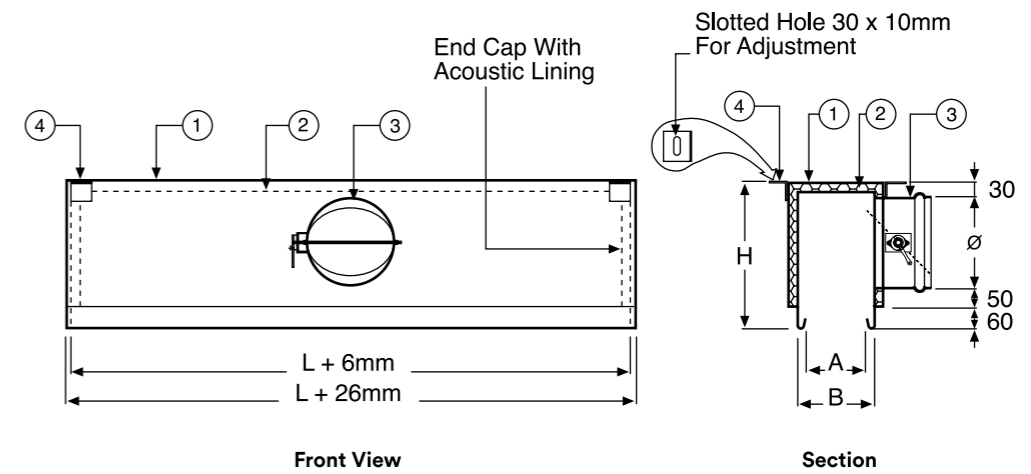
VK 100 SERIES [VK 100, VK 110, VK 120, VK 130]

Legend:

- 1 - Casing
- 2 - Acoustic Lining
- 3 - Spigot Inlet
- 4 - Hanging Bracket

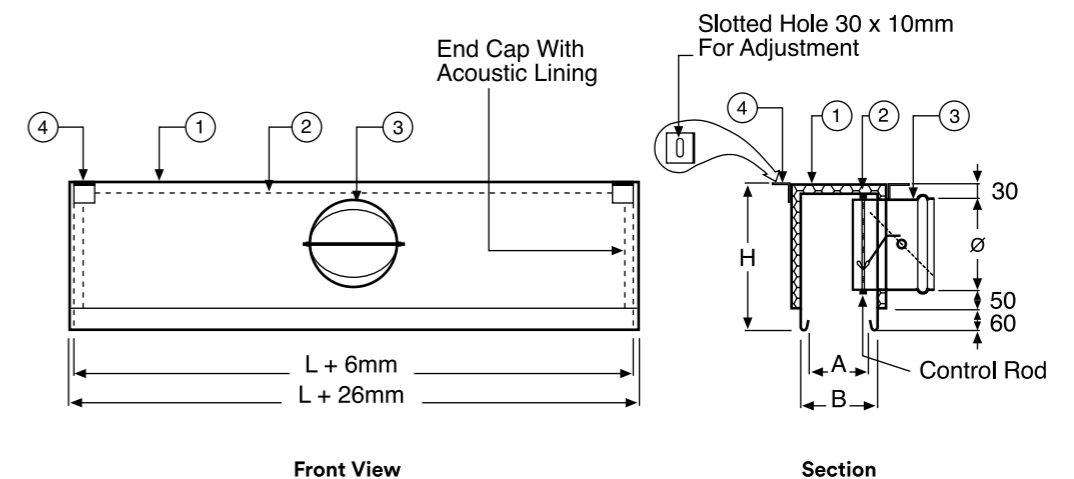
VK - 100

Spigot inlet with damper and with 25mm thick acoustic lining, density 48kg/m³ with BGT facing.



VK - 110

Spigot inlet with damper blade adjustable from the face of diffuser and with 25mm thick acoustic lining, density 48kg/m³ with BGT facing.



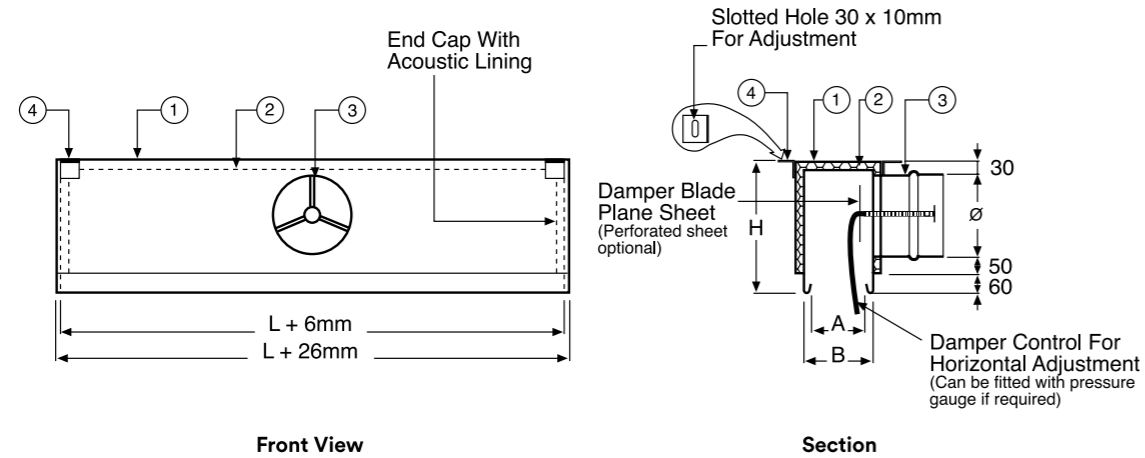
VK 100 SERIES [VK 100, VK 110, VK 120, VK 130]

Legend:

- 1 - Casing
- 2 - Acoustic Lining
- 3 - Spigot Inlet
- 4 - Hanging Bracket

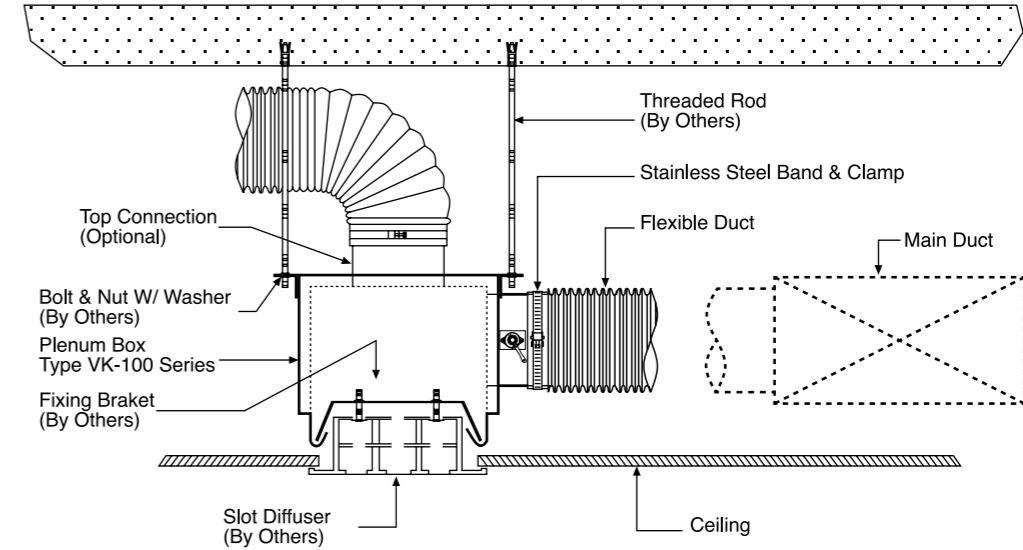
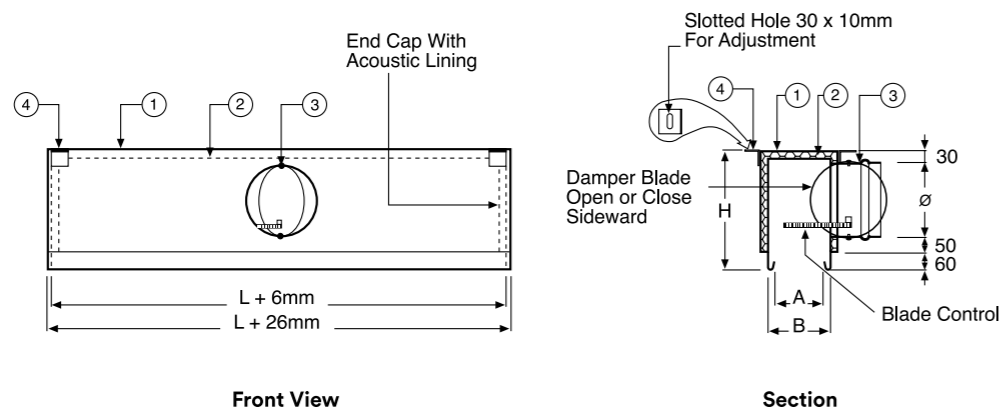
VK - 120

Spigot inlet with especial damper adjustable horizontally with damper control on face of diffuser, with 25mm thick acoustic lining. A plastic tube is fitted to damper control for pressure test if required.



VK - 130

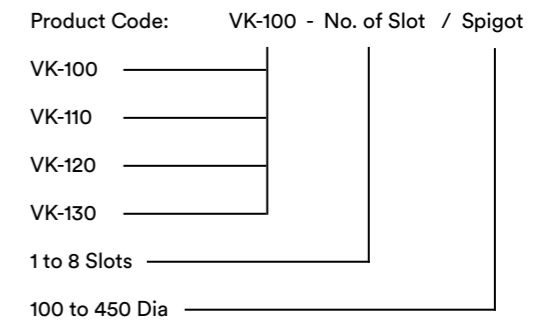
Spigot inlet with damper blade open and close sideward adjustable from face of diffuser and with 25mm thick acoustic lining.



Sizes of Plenum Box

Diffuser No. of Slots	Diffuser Size A x L (mm)	Plenum Size B x L + 6 (mm)	Spigot Inlet dia (mm)
1	40 x L	60 x L + 6	100
2	78 x L	98 x L + 6	150
3	117 x L	137 x L + 6	200
4	155 x L	175 x L + 6	250
5	193 x L	213 x L + 6	300
6	232 x L	252 x L + 6	350
7	270 x L	290 x L + 6	400
8	309 x L	328 x L + 6	450

Order Example



Make : SAFID
 Type : VK-100 - 3 Slots / 200 Dia
 Qty. : 1

NOTE

Plenum box size varies as per customer's requirement.