

**IB-Q**
Ventilation grille**Contents**

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GENERAL CONDITIONS

General description and instructions



These additional operating instructions must be observed prior to mounting and commissioning the device.

These additional operating instructions contain basic information regarding its use in areas subject to explosion hazards to be observed during assembly, operation and maintenance.

Prior to mounting and commissioning and during maintenance work, the present additional operating instructions must be read by the installer and the responsible skilled personnel/system operator.

Non-observance of the proper assembly and safety instructions will result in the loss of any claims for damages!

Designated use

The ventilation grilles are used in ventilation systems. The ventilation grilles have been designed for use in ventilation systems in areas subject to explosion hazards according to the ATEX marking "Device group II, Zones 1, 2 and 21, 22".

These devices are not suitable for use in unreleased Ex zones.

The operating safety of the delivered devices is only guaranteed when used in accordance with their designated use. The ventilation grilles shall only be used in media that do not fall below the temperature of -20 ° and do not exceed +72 °C .

Mounting information

Mounting and commissioning must be carried out by skilled personnel only and in accordance with the recognised technical rules and the safety and accident prevention regulations. In order to avoid the risk of static charges, the ventilation grille must be connected to the on-site equipotential bonding on the grounding connection provided for this purpose.

The operator must make sure that no metallic parts can fall into the ventilation duct.

Maintenance

Only a device subjected to proper maintenance and kept in perfect condition can guarantee safe and reliable operation.

When defective parts are replaced with spare parts, only SCHAKO KG original spare parts may be used. The SCHAKO KG cannot be held liable for any damage caused by using spare parts that are not original and will not give any warranty.

Hazard caused by non-observance of the safety instructions

Non-observance of the safety instructions can result both in putting persons and the environment and operating units at risk.

Likewise, non-observance of the safety instructions will result in the loss of any claims for damages.

ATEX DESCRIPTION

The ventilation grilles have the following ATEX marking:



II 2G Ex h IIC T6 Gb

EPS 21 ATEX 2 065 X

II 2D Ex h IIIC T80°C Db

These ventilation grilles meet the regulations of the ATEX directives and can be used in ventilation systems in areas subject to explosion hazards.

Classification by zone must be established by the system operator or planner in compliance with current standards.

Note:

In explosion-protected zones, only devices that have an ATEX approval for this use may be used. It rests with the operator to ensure that the products are only used in zones specified by the product marking.

Special conditions

The permissible media temperature range is -20 °C to +72 °C. It must be ensured that all metal components are properly and permanently connected to the ground potential.

To avoid propagating brush discharge on diffusers with RAL coating, it must be ensured that the air in the ventilation system is not heavily contaminated with non-conductive particles.

Type of ignition protection

The type of ignition protection of the ventilation grilles is guaranteed by their safe design.

Quality assurance

The SCHAKO production facilities are certified according to the QM procedure EN ISO 9001.

FUNCTION AND USE

Ventilation grille type IB-Q... for supply and return air, for **installation in ducts and plenum boxes, with horizontal or vertical, pivoting, individually adjustable air deflection blades on the front side**. For air volume regulation with hit-and-miss damper made of electrolytically galvanised sheet steel.

Frame and blades made of electrolytically galvanised sheet steel

(-SV-0000) or made of sheet steel painted to RAL 9010 (white) (-SB-9010, standard) or in DD coating version.

As standard, screw mounting is used for fastening the ventilation grille. Concealed mounting (-VM) only possible in combination with an installation frame or a plenum box. Clamp mounting (-KB) is only possible without plenum box or installation frame.

At an extra charge, a plenum box (-AK-31) with or without inserted damper (for an easy air volume regulation) can be mounted.

MODELS

IB-Q-...	for duct and plenum box installation.
IB-Q-01-...	horizontal pivoting air deflection blades on the front side.
IB-Q-02-...	same as IB-Q-01-..., additionally with vertical air deflection blades.
IB-Q-08-...	same as IB-Q-01-..., additionally with hit-and-miss damper.
IB-Q-8c-...	same as IB-Q-01-..., additionally with vertical pivoting air deflection blades and hit-and-miss damper.
IB-Q-10-...	pivoting vertical air deflection blades on the front side.
IB-Q-11-...	same as IB-Q-10-..., additionally with horizontal, pivoting air deflection blades.
IB-Q-15-...	same as IB-Q-10-..., additionally with hit-and-miss damper.
IB-Q-16-...	same as IB-Q-10-..., additionally with horizontal, pivoting air deflection blades and hit-and-miss damper.
IB-Q-...-N-...	single design
IB-Q-...-B-...	band design (only possible for IB-Q-10 / IB-Q-11 / IB-Q-15 / IB-Q-16, for a grille length BL > 1225 mm, available lengths according to SCHAKO standard for band design)

Air throw pattern:

...-L000-...	blade position straight (standard)
...-L044-...	blade position 44° diverging
...-L084-...	blade position 84° diverging
...-L110-...	blade position 110° diverging (only for IB-Q-10 / IB-Q-11 / IB-Q-15 / IB-Q-16)
...-L140-...	blade position 140° diverging (only for IB-Q-10 / IB-Q-11 / IB-Q-15 / IB-Q-16)
...-LGEG-...	blade position opposite to one another

MOUNTING

- Screw mounting (-SM, standard)
 - screws must be provided on site.
 - band design with screw mounting only.
- Concealed mounting (-VM)
 - only possible in connection with an installation frame or a plenum box.
- Clamp mounting (-KB)
 - only possible without plenum box or installation frame.

PROCESSING

Frame and blades

- Galvanised sheet steel (-SV-0000).
- Sheet steel (-SB):
 - Painted to RAL colour 9010 (white) (-9010, standard).
 - painted to DD coating version.

Hit-and-miss damper

- Electrolytically galvanised sheet steel (only IB-Q-08 / IB-Q-8c / IB-Q-15 / IB-Q-16).

ACCESSORIES

Plenum box (-AK-31)

Rectangular design, made of galvanised sheet steel (-SV, standard), housing with round connection spigot and mounting brackets.

- Length:
 - 325 mm (-00325)
 - 425 mm (-00425)
 - 525 mm (-00525)
 - 625 mm (-00625)
 - 825 mm (-00825)
 - 1025 mm (-01025)
 - 1225 mm (-01225)
 - Length in mm, freely selectable, for band design (for a grille length BL > 1225 mm: 2-part for a length of band BL ≤ 2425 mm, multi-part for a length of band BL > 2425 mm) (-xxxxx, always with 5 digits).
- Height:
 - 75 mm (-075)
 - 125 mm (-125)
 - 175 mm (-175)
 - 225 mm (-225)
 - 325 mm (-325)
- Single / band design:
 - Single design (-N) (standard)
 - Band design (-B) (only possible for IB-Q-10 / IB-Q-11 / IB-Q-15 / IB-Q-16, for a grille length BL > 1225 mm, available lengths according to SCHAKO standard for band design).
- Mounting:
 - screw mounting (-SM) (standard, screws must be provided on site, band design with screw mounting only)
 - concealed mounting (-VM) (only possible in combination with a plenum box or an installation frame)
- Damper:
 - without damper (-DK0) (standard).
 - with damper (-DK1), made of galvanised sheet steel, in the plenum box housing, adjustable, for simple air volume regulation.
 - with damper (-DK2), same as DK1, but with cable-operated adjustment, only with spigot position from above (-S0) and front side spigot position (-S4).
- Rubber lip seal:
 - without rubber lip seal (-GD0) (standard).
 - with rubber lip seal (-GD1) made of special rubber, at the connection spigot.
- Height of plenum box:
 - Standard height of plenum box (-KHS).
 - Height of plenum box in mm, freely selectable (-xxx) (minimum height [KHS] with spigot position S1+S2 = spigot diameter +87 mm, but at least 200 mm) (always with 3 digits).
- Spigot diameter:
 - Standard spigot diameter (-SDS).
 - Spigot diameter in mm, freely selectable (-xxx, always with 3 digits). (with spigot positions -S0 and -S4, if the spigot diameter is increased, only the offset plenum box shape is available)
- Spigot position:
 - Spigot from above (-S0).
 - Lateral spigot on the plenum box (-S1) (standard).
 - Front side spigot (-S4, not possible for band design).

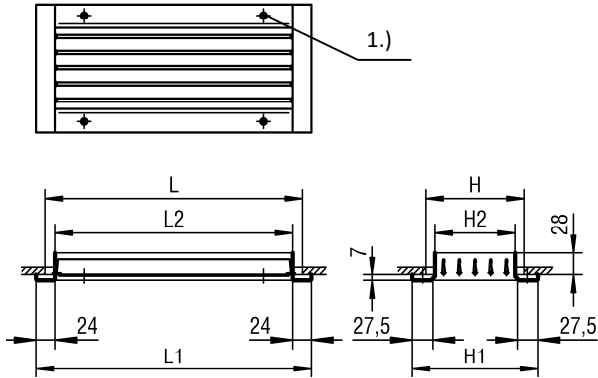
Installation frame (-ERO / -ER1 / -ER2)

- without installation frame (-ERO).
- with installation frame made of galvanised sheet steel (only possible in the absence of a plenum box):
 - without wall anchors (-ER1).
 - with wall anchors (-ER2).

DIMENSIONS

SINGLE DESIGN (-N)

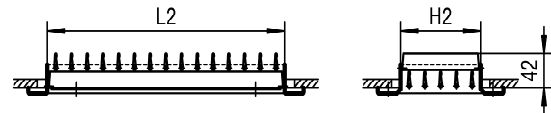
IB-Q-01-...



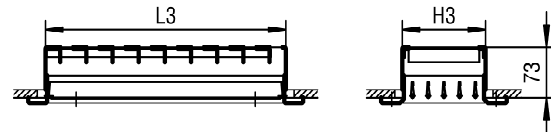
IB-Q-01 / IB-Q-02 / IB-Q-08 / IB-Q-8c
with intermediate web for lengths from 825 (see page 12)

All models consist of basic type IB-Q-01-....

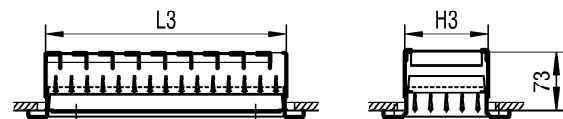
IB-Q-02-...



IB-Q-08-...



IB-Q-8c-...



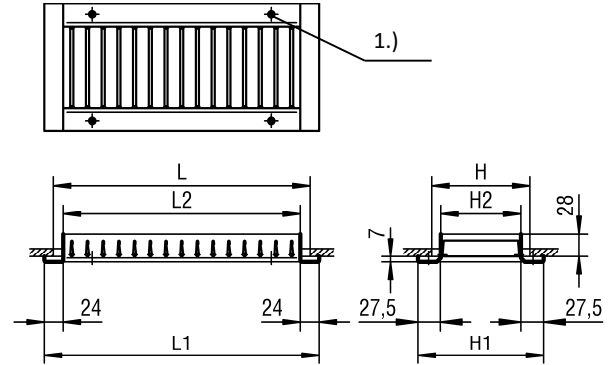
Available sizes IB-Q-01 / IB-Q-02 / IB-Q-08 / IB-Q-8c

L	L1	L2	L3	H	H1	H2	H3
325	350	306	310	75	110	57	60
425	450	406	410	125	160	107	110
525	550	506	510	175	210	157	160
625	650	606	610	225	260	207	210
825	850	806	810	325	360	307	310
1025	1050	1006	1010				
1225	1250	1206	1210				

All combined lengths and heights available!
Other sizes available on request.

1.) Indentation for slotted shallow-raised countersunk-head tapping screw DIN ISO 7051 pitch 3.9 (on site).

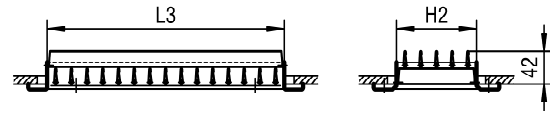
IB-Q-10-...



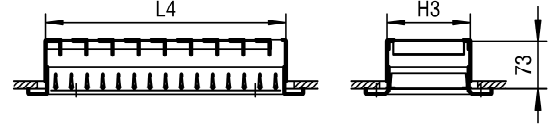
IB-Q-11 / IB-Q-16
with intermediate web for lengths from 825 (see page 12)

All models consist of basic type IB-Q-10-....

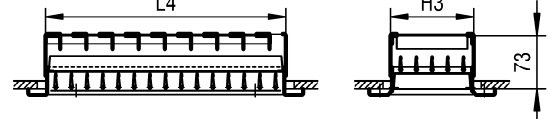
IB-Q-11-...



IB-Q-15-...



IB-Q-16-...



Available sizes IB-Q-10 / IB-Q-11 / IB-Q-15 / IB-Q-16

L	L1	L2	L3	L4	H	H1	H2	H3
325	350	306	309	310	75	110	56	60
425	450	406	409	410	125	160	106	110
525	550	506	509	510	175	210	156	160
625	650	606	609	610	225	260	206	210
825	850	806	809	810	325	360	306	310
1025	1050	1006	1009	1010				
1225	1250	1206	1209	1210				

All combined lengths and heights available!
Other sizes available on request.

1.) Indentation for slotted shallow-raised countersunk-head tapping screw DIN ISO 7051 pitch 3.9 (on site).

BAND DESIGN (-B)

Band design is only possible with screw mounting (-SM).

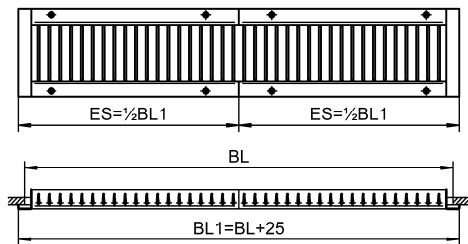
Available lengths according to SCHAKO standard:

In the band design of the ventilation grille IB-Q, the total length BL is assembled from two end pieces in the 2-part model and from sections (TS) of 1020 mm and end pieces (ES) in the multi-part model.

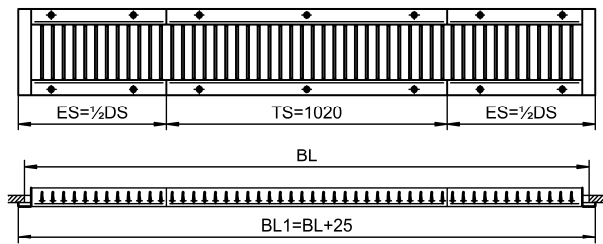
Without plenum box

only for: IB-Q-10-...-B-...-SM / IB-Q-11-...-B-...-SM /
IB-Q-15-...-B-...-SM / IB-Q-16-...-B-...-SM

2-part for a length of band BL > 1225 mm to ≤ 2425 mm



multi-part for a length of band BL > 2425 mm



Max. length end piece (ES):

$ES_{max} = 1225 \text{ mm}$

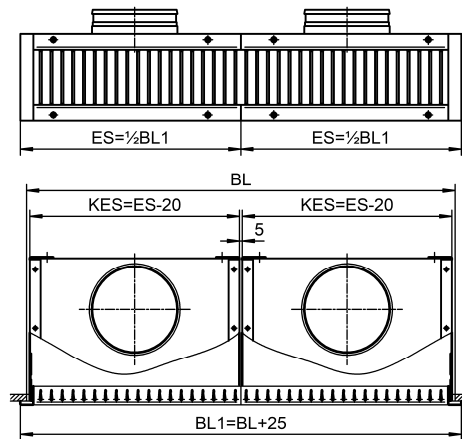
- ES = end piece
- KES = plenum box end piece (KES = ES-20)
- TS = section
- KTS = plenum box section
- DS = difference piece (DS = BL1 - [n x TS])
- n = number of sections
- BL = band length

For spigot position / plenum box shape, see pages 8+9
For mounting options, see page 12

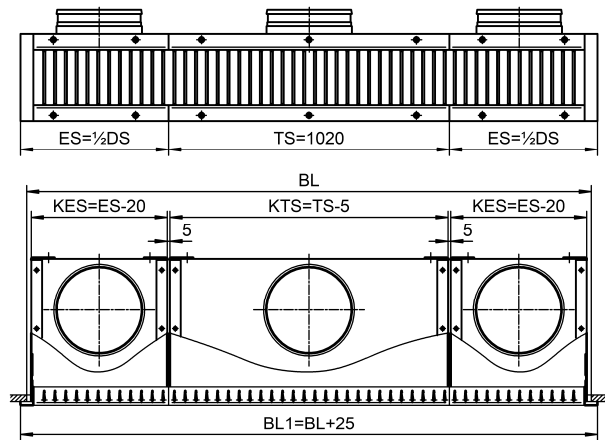
with plenum box

only for: IB-Q-10-...-B-...-SM / IB-Q-11-...-B-...-SM /
IB-Q-15-...-B-...-SM / IB-Q-16-...-B-...-SM

2-part for a length of band BL > 1225 mm to ≤ 2425 mm



multi-part for a length of band BL > 2425 mm



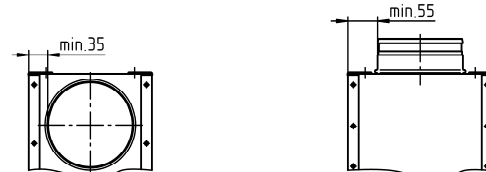
Max. length plenum box end piece (KES):

$KES_{max} = 1205 \text{ mm}$

Minimum distance spigot in the plenum box

with lateral spigot (-S1):

with spigot from above (-S0):



As standard, the plenum box end pieces (KES) have the same dimensions KHS / KB2 / ϕD as the plenum box section (KTS) (for dimensions see the table of available sizes, page 9, marking *).

DIMENSIONS OF ACCESSORIES

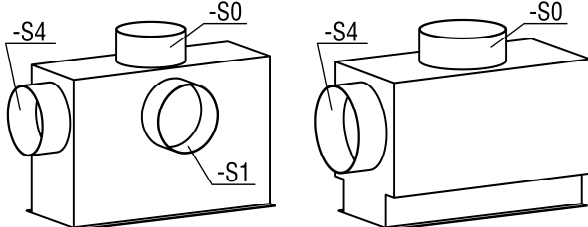
Plenum box (-AK-31)

SINGLE DESIGN (-N)

Spigot position

Straight plenum box:

Offset plenum box:



- Lateral spigot on the plenum box (-S1, standard)
- Spigot from above (-S0)
- Front side spigot (-S4, not possible for band design)

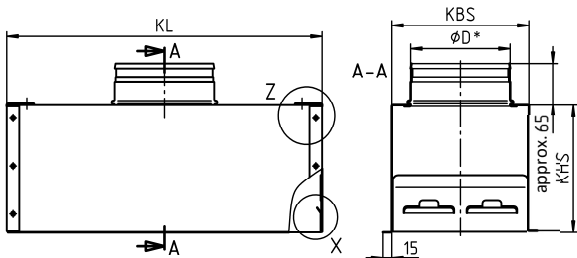
Spigot diameter for spigot position "Spigot front side (-S4)" is **identical** with "Lateral spigot on the box (-S1)".

Spigot diameter for spigot position "Spigot from above (-S0)" is **in part not identical** with "Lateral spigot on the box (-S1)".

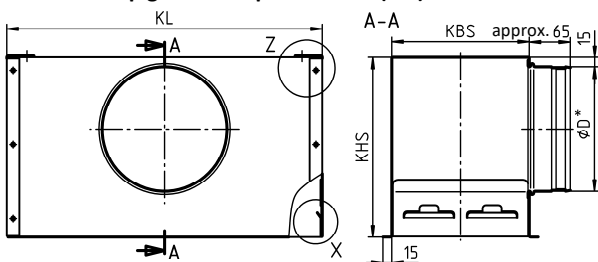
For the table of available sizes, see page 9.

Straight plenum box:

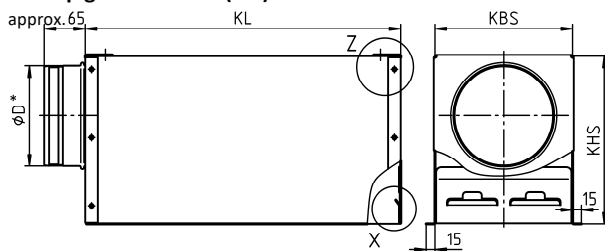
with spigot from above (-S0)



with lateral spigot on the plenum box (-S1)



with spigot front side (-S4)



* external

For plenum box in band design, see page 7.

Offset plenum box:

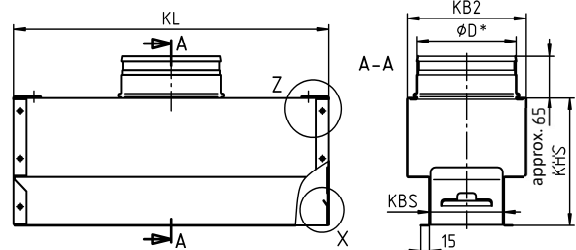
Construction subject to change
No return possible

If KBS is $< (\phi D + 30)$, an offset plenum box will be manufactured.

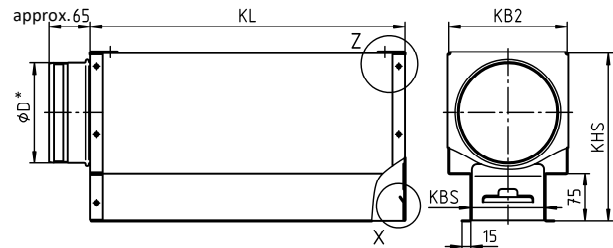
For model -S0: $KB2 = \phi D + 30$

Minimum difference between KBS and KB2 = 40 mm.

with spigot from above (-S0)



with lateral spigot on the plenum box (-S4)

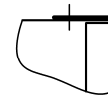


* external

Plenum box mounting:

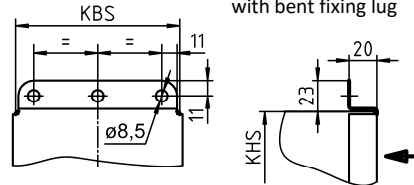
Detail Z

as-delivered condition with fitted fixing lug



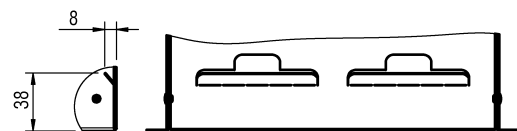
Detail Z

with bent fixing lug



Concealed mounting:

Detail X



Concealed plates can be bent outwards, if necessary.

Minimum height KHS with spigot position -S1 / -S4:

$KHS_{min.} = \phi D + 87 \text{ mm}$, but at least 200 mm

Minimum width KB2 with spigot position -S0 / -S4:

$KB2_{min.} = \phi D + 30 \text{ mm}$

Minimum difference between KBS and KB2 = 40 mm.

The dimension KBS cannot be changed.

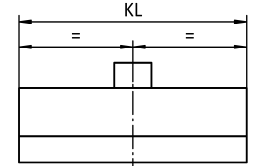
With spigot positions -S0 and -S4, if the spigot diameter is increased, only the offset plenum box shape is available.

Available sizes for AK-31

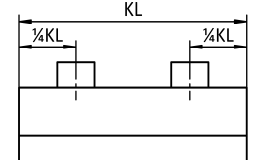
H	KBS	L	KL	Spigot position -S1 (standard)				Spigot position -S0				Spigot position -S4			
				KHS	KB2	n x øD	Plenum box shape	KHS	KB2	n x øD	Plenum box shape	KHS	KB2	n x øD	Plenum box shape
75	68	325	320	220	--	1x ø123		200*	128*		220	153	1x ø123		
		425	420												1x ø98
		525	520												2x ø98
		625	620	265*	--	1x ø158*		265	188	1x ø158					
		825	820									4x ø98*			
		1025	1020												
1225	1220														
125	118	325	320	265	--	1x ø158		200*	158*		265	188	1x ø158		
		425	420												1x ø98
		525	520												2x ø98
		625	620	285*	--	1x ø198*		285	228	1x ø198					
		825	820									4x ø98*			
		1025	1020												
1225	1220														
175	168	325	320	285*	--	1x ø198*		200*	228*		285	228	1x ø198		
		425	420												
		525	520												
		625	620												
		825	820												
		1025	1020												
1225	1220														
225	218	325	320	285	--	1x ø198		200*	258	1x ø198	285	258	1x ø198		
		425	420												
		525	520												
		625	620	335*	--	1x ø248*		335	278	1x ø248					
		825	820									2x ø178*			
		1025	1020												
1225	1220														
325	318	325	320	335	--	1x ø248		200*	--	1x ø248	335	--	1x ø248		
		425	420												
		525	520												
		625	620	400*	--	1x ø313*		400	358	1x ø313					
		825	820									2x ø222*			
		1025	1020												
1225	1220														

**Number of spigots:
Spigot from above (-S0)**

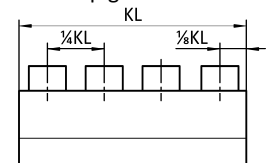
with 1 spigot



with 2 spigots

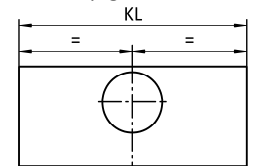


with 4 spigots


Lateral spigot (-S1)

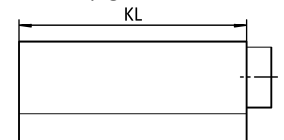
(standard)

with 1 spigot

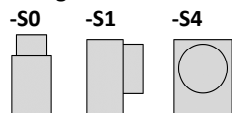
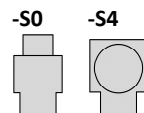

Spigot front side (-S4)

Band design not possible.

with 1 spigot



* dimensions for band design / n = number of spigots

Plenum box shape
Straight:

Offset:


Minimum height KHS with spigot position -S1 / -S4:

 $KHS_{min.} = \varnothing D + 87 \text{ mm}$, but at least 200 mm

Minimum width KB2 with spigot position -S0 / -S4:

 $KB2_{min.} = \varnothing D + 30 \text{ mm}$

Minimum difference between KBS and KB2 = 40 mm.

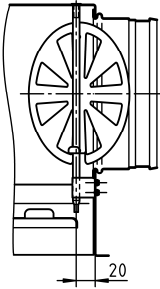
The dimension KBS cannot be changed.
With spigot positions -S0 and -S4, if the spigot diameter is increased, only the offset plenum box shape is available.

Damper (-DK0 / -DK1 / -DK2), for AK-...

- without damper (-DK0) (standard).
- with damper (-DK1) (standard for spigot position -S1).
- with damper and cable-operated adjustment (-DK2) (standard for spigot position -S0/-S4).

-DK1:

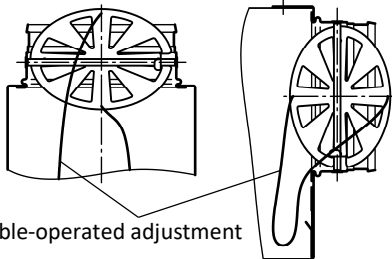
Lateral spigot -S1



-DK2 (with cable-operated adjustment):

Spigot from above -S0

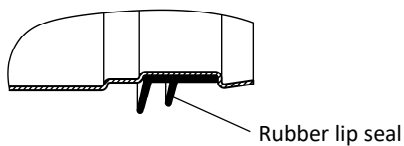
Spigot front side -S4



Rubber lip seal (-GD0 / -GD1), for AK-...

- without rubber lip seal (-GD0) (standard).
- with rubber lip seal (-GD1), made of special rubber.

Detail Y

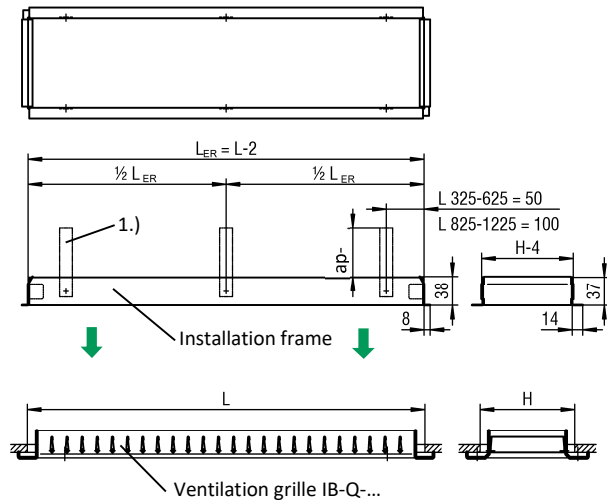


Installation frame (-ER0 / -ER1 / -ER2)

- without installation frame (-ER0) (standard).
- with installation frame without wall anchors (-ER1).
- with installation frame with wall anchors (-ER2).

The installation frame is only possible in the absence of a plenum box.

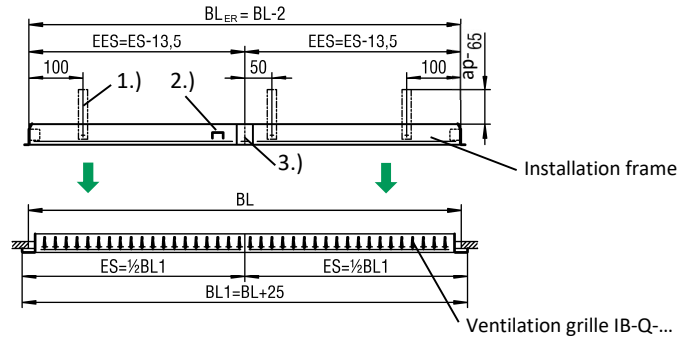
SINGLE DESIGN (-N)



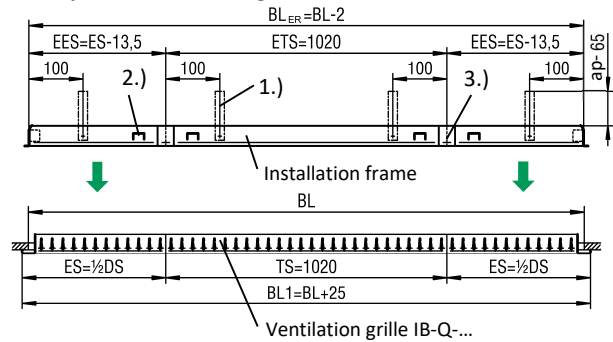
Length $L \leq 825 \text{ mm} = 4$ wall anchors
 Length $L > 825 \text{ mm} = 6$ wall anchors
 Installation frame E1 made of electrolytic galvanised sheet steel.
 The installation frame is only delivered with wall anchors on special request (-ER2, at an extra charge).

BAND DESIGN (-B)

2-part for a length of band $BL > 1225 \text{ mm}$ to $\leq 2425 \text{ mm}$



multi-part for a band length $BL > 2425 \text{ mm}$

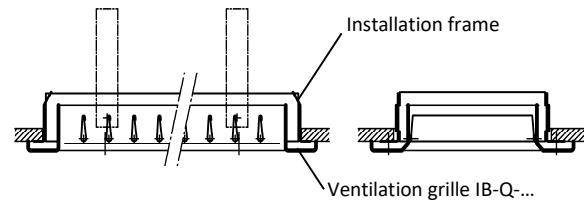


Max. length installation frame end piece (EES / ES):

$EES_{max} = 1211.5 \text{ mm} / ES_{max} = 1225 \text{ mm}$ (see page 7)

Mounting frames for grille bands are supplied with plug-in connections. Assembly webs are additionally attached, they can easily be removed with a turn, once the grille is walled in. All mounting frames are supplied without wall anchors as standard. Wall anchors available at extra cost.

Installation detail:



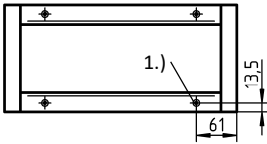
- L = length
- BL = band length
- L_{ER} = installation frame length ($L_{ER} = L - 2$)
- BL_{ER} = installation frame band length ($BL_{ER} = BL - 2$)
- EES = installation frame end piece ($EES = ES - 13.5$)
- ETS = installation frame section
- ES = end piece
- TS = section
- DS = difference piece ($DS = BL_{ER} - [n \times TS]$)
- n = number of sections
- 1.) Wall anchor
- 2.) Assembly rail
- 3.) Plug-in connection

MOUNTING OPTIONS

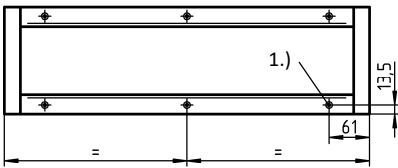
Screw mounting (-SM, standard)

SINGLE DESIGN (-N)

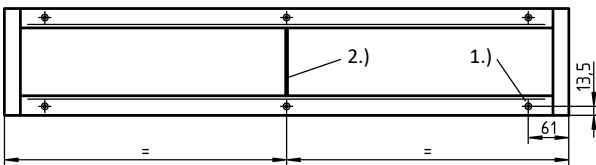
L=325-525



L= 625

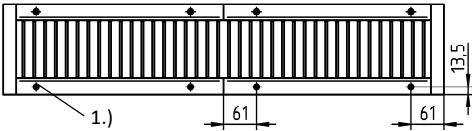


L=825-1225

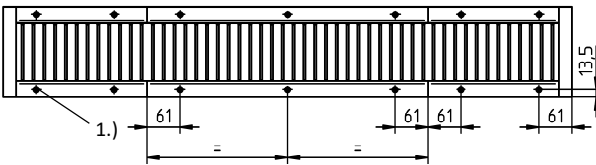


BAND DESIGN (-B)

2-part for a length of band BL > 1225 mm to ≤ 2425 mm



multi-part for a band length BL > 2425 mm

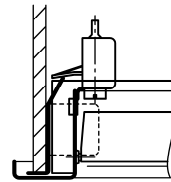


- 1.) With 4 or 6 indentations (from L=625) for slotted shallow-raised countersunk-head tapping screw DIN ISO 7051 pitch 3.9 (on site).
- 2.) Intermediate rail (only for IB-Q with horizontal blades).

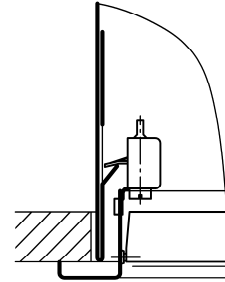
Concealed mounting (-VM)

The IB-Q ventilation grilles are delivered at an extra charge with concealed mounting (-VM). **The concealed mounting is only possible with an installation frame or a plenum box.**

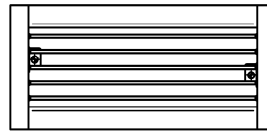
With installation frame



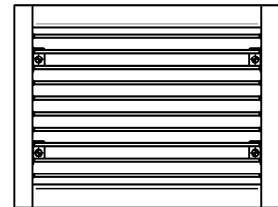
With plenum box



One mounting point:
H = 75 / 125 / 175

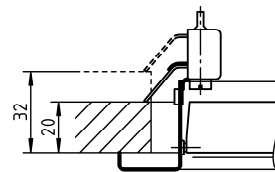


Two mounting points:
H = 225 / 325

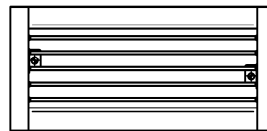


Clamp mounting (-KB)

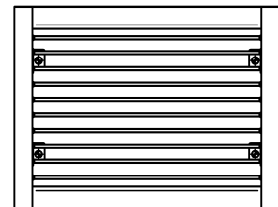
Clamp mounting KB is possible without installation frame or plenum box.



One mounting point:
H = 75 / 125 / 175



Two mounting points:
H = 225 / 325



TYPE PLATE



Lüftungsgitter IB-Q

Baugröße

Baujahr

Auftragsnummer

Positionsnummer

Seriennummer



II 2G Ex h IIC T6 Gb
II 2D Ex h IIIC T80°C Db




EPS 21 ATEX 2 065 X

CERTIFICATE OF CONFORMITY


Konformitätsbescheinigung

- (1)
- (2) Geräte und Schutzsysteme zur bestimmungsgemäßen Verwendung in explosionsgefährdeten Bereichen –
Richtlinie 2014/34/EU
- (3) Bescheinigungsnummer
- EPS 21 ATEX 2 065 X** **Revision 0**
- (4) Gerät: Lüftungsgitter IB-Q und IB-R
- (5) Hersteller: Schako KG
- (6) Anschrift: Steigstraße 25-27
78600 Kolbingen
Deutschland
- (7) Die Bauart dieses Gerätes sowie die verschiedenen zulässigen Ausführungen sind in der Anlage zu dieser Konformitätsbescheinigung festgelegt.
- (8) Bureau Veritas Consumer Products Services Germany GmbH bescheinigt aufgrund einer freiwilligen Prüfung auf Basis der Richtlinie 2014/34/EU des Europäischen Parlaments und des Rates vom 26. Februar 2014 die Erfüllung der grundlegenden Sicherheits- und Gesundheitsanforderungen für die Konzeption und den Bau von Geräten und Schutzsystemen zur bestimmungsgemäßen Verwendung in explosionsgefährdeten Bereichen gemäß Anhang II der Richtlinie. Die Ergebnisse der Prüfung sind in der vertraulichen Dokumentation unter der Referenznummer 21TH0259 festgelegt.
- (9) Die grundlegenden Sicherheits- und Gesundheitsanforderungen werden erfüllt durch Übereinstimmung mit:
- EN IEC 60079-0:2018 EN ISO 80079-36:2016 EN ISO 80079-37:2016**
- (10) Falls das Zeichen „X“ hinter der Bescheinigungsnummer steht, wird auf besondere Bedingungen für die sichere Anwendung des Gerätes in der Anlage zu dieser Bescheinigung hingewiesen.
- (11) Diese Konformitätsbescheinigung bezieht sich nur auf Konzeption und Prüfung des festgelegten Gerätes gemäß Richtlinie 2014/34/EU. Weitere Anforderungen dieser Richtlinie gelten für die Herstellung und das Inverkehrbringen dieses Gerätes. Diese Anforderungen werden nicht durch diese Bescheinigung abgedeckt.
- (12) Die Kennzeichnung des Gerätes muss die folgenden Angaben enthalten:

 II 2G Ex h IIC T6 Gb

 II 2D Ex h IIC T80°C Db



Zertifizierungsstelle Explosionsschutz

Hamburg, 20.05.2021



H. Schaffer

Seite 1 von 2

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Anlage

(13)

 (14) **Konformitätsbescheinigung EPS 21 ATEX 2 065 X**

Revision 0

 (15) Beschreibung des Gerätes:

Die verschiedenen Lüftungsgitter mit Anschlussbox dienen zur Luftstrahlführung in Räumen. Die Auslässe bestehen aus verzinktem Stahlblech oder Stahlblech mit einer antistatischen Lackierung RAL 9010 oder DD-Lack.

 (16) Referenznummer: 21TH0259

 (17) Besondere Bedingungen:

Der erlaubte Medientemperaturbereich ist -20°C bis +72°C.

Es muss sichergestellt werden, dass alle metallischen Teile ordnungsgemäß und dauerhaft mit dem Erdpotential verbunden sind.

Zur Vermeidung von Gleitstielbüschelentladungen muss bei den Auslässen mit RAL Lack sichergestellt werden, dass die Luft im Lüftungssystem keine starke Belastung an nichtleitfähigen Partikeln aufweist.

 (18) Grundlegende Sicherheits- und Gesundheitsanforderungen:

Durch Übereinstimmung mit Normen abgedeckt.

Zertifizierungsstelle Explosionschutz

Hamburg, 20.05.2021



H. Schaffer

Seite 2 von 2

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