

Air valves



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Supply air

Diffusers



VTK 391



VTKR 393



VTTB 394



SHH 396

Valves



KPT 398



KI 401



KIR 404

Supply and exhaust air

Valve



TAV 409

Exhaust air Valves



KVB 412



KVG 415



KU 418



KSU 421



KSUB 424



KPF 427



KDPF 430

No air Cover



TLO 432

Sockets



VRFU 433



VRFM 434



VRGU 435



VRGL 436



VRGM 437
























VRR 438








































VAK 439

Overview diffusers, valves and cover

				Connects to						
Unit				Socket with thread for units with bayonet holder		Socket with groove for units with spring holder		Cover socket with groove for units with wire spring holder	Smooth socket for units with plate spring holder	Duct/Fitting
Supply air	VTK	Diffuser				VRFU 	VRFM 	VRR 		
	VTTB	Diffuser				VRFU 	VRFM 	VRR 		
	SHH	Diffuser							IL 	Duct
	KPT	Valve							IL 	Duct/Fittings
	KI	Valve		VRGU 	VRGL 	VRGM 				
	KIR	Valve		VRGU 	VRGL 	VRGM 				
Supply and exhaust air	TAV	Valve								Duct

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				Connects to							
Unit				Socket with thread for units with bayonet holder			Socket with groove for units with spring holder		Cover socket with groove for units with wire spring holder	Smooth socket for units with plate spring holder	Duct/Fitting
Exhaust air	KVB	Valve					VRFU 	VRFM 	VRR 		
	KDPF	Valve		VRGU 	VRGL 	VRGM 	VRFU 	VRFM 	VRR 		
	KVG Ø 100–160	Valve					VRFU 	VRFM 	VRR 		
	KVG Ø 200	Valve		VRGU 	VRGL 	VRGM 					
	KU	Valve		VRGU 	VRGL 	VRGM 					
	KSU	Valve		VRGU 	VRGL 	VRGM 					
	KSUB	Valve and fire damper		VRGU 	VRGL 	VRGM 					
	KPF	Valve								IL 	Duct/Fittings
No air	TLO	Cover					VRFU 	VRFM 	VRR 		

Diffuser supply air

VVTK



Description

Diffuser for supply air.
Designed for wall mounting.
Spring holders connect to socket VRFU, VRFM or VRR.

* For Ø125 the outer part of the brim of the socket is visible.
If this is not acceptable the cover plate VVTKR can be used to hide the brim.

Materials and finish

Material

Painted galvanized sheet metal.

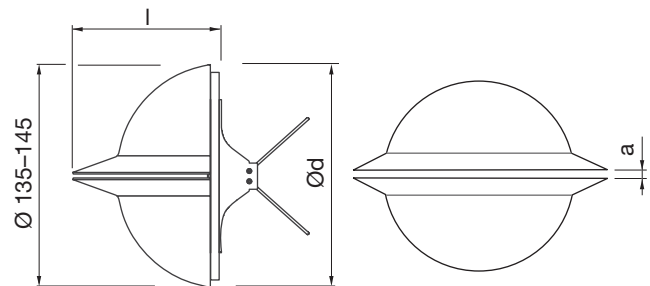
Colour

White RAL 9010, gloss 70, equivalent to NCS S 0502 Y.

Maintenance

The visible parts can be wiped with a damp cloth.

Dimensions



Ød nom	l mm	m kg
100	90	0,31
125 *	90	0,31

Ordering example

Product	VVTK	100
Dimension Ød		

Diffuser supply air

VVTK

Technical data

Air flow, q [l/s] and [m³/h], total pressure drop, Δp_t [Pa], throw length, $l_{0,2}$ [m], and

A-weighted sound power level, L_{WA} [dB], for different settings, a [mm], are shown in the graph.

Note! The A-weighted sound power level, L_{WA} , will increase by 3 dB when the valve is mounted in a bend.

Sound power level, L_W [dB], in octave bands

is calculated as $L_{WA} + K_{ok}$. K_{ok} is found in the table below.

Ød nom	Diffuser mounted in	Centre frequency [Hz]							
		63	125	250	500	1K	2K	4K	8K
100	Duct	-2	-7	-7	-4	-4	-7	-10	-14
125	Duct	-2	-7	-7	-4	-4	-7	-10	-14

Sound attenuation, ΔL , [dB]

Ød nom	Diffuser mounted in	Centre frequency [Hz]							
		63	125	250	500	1K	2K	4K	8K
100	Duct	24	20	18	12	10	10	10	10
125	Duct	24	20	18	12	10	10	10	10

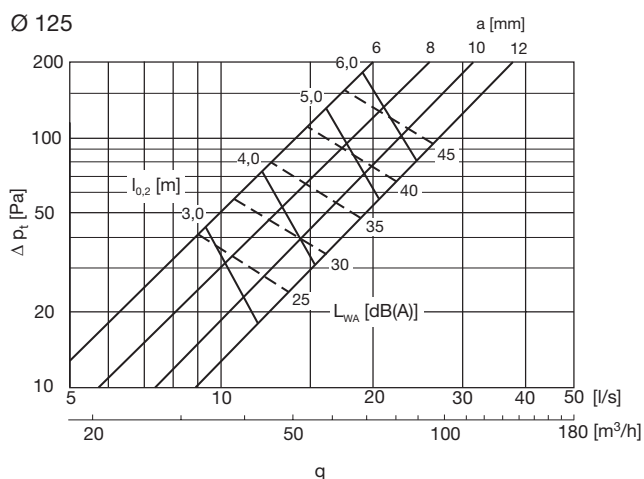
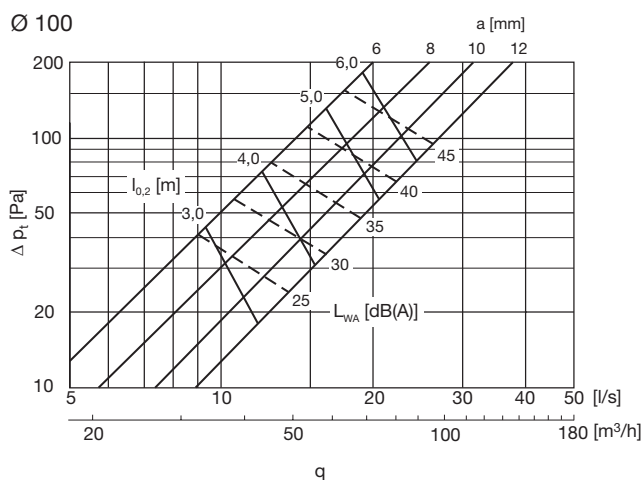
Air jet diffusion pattern

Maximum vertical width, $b_v = 0,1 \times l_{0,2}$ m

Maximum horizontal width, $b_h = 0,6 \times l_{0,2}$ m

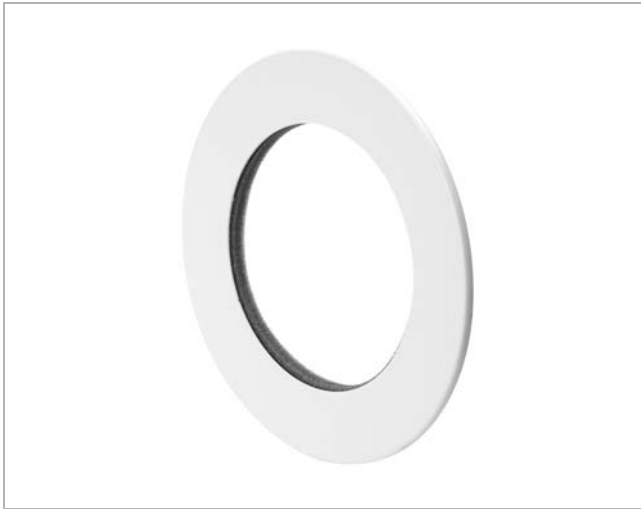
Measurement of air flow

Data is available in a separate brochure.



Cover plate

VVTKR



Description

Plate to cover the outer part of the brim of the socket.

Materials and finish

Material

Painted galvanized sheet metal.

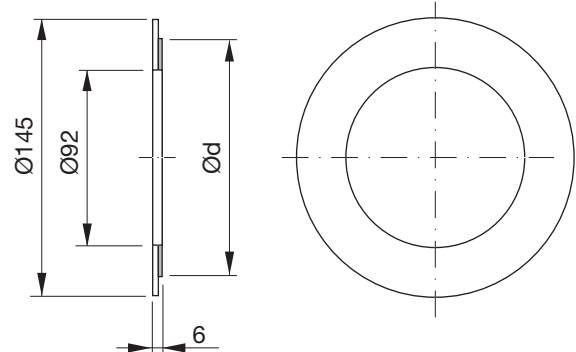
Colour

White RAL 9010, gloss 70, equivalent to NCS S 0502 Y.

Maintenance

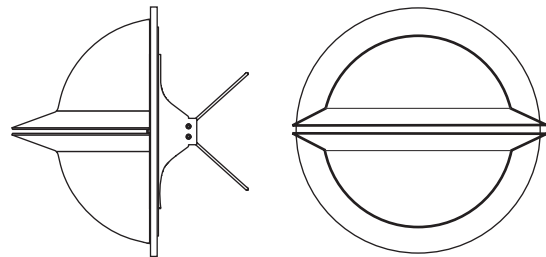
The visible parts can be wiped with a damp cloth.

Dimensions



Ød nom	m kg
125	0,07

Cover plate together with valve VVTK Ø125



Ordering example

Product	VVTKR	125
Dimension Ød		

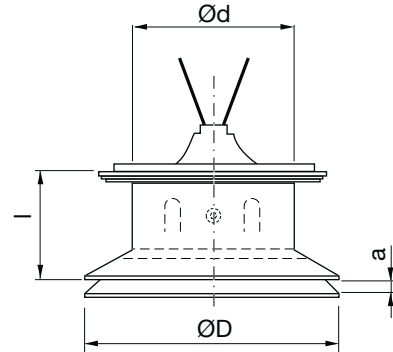
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Diffuser supply air

VTTB



Dimensions



Description

Diffuser for supply air.
 Designed with a prolonged neck for ceiling mounting. Is equipped with a fixed blanking-off segment for preventing the air flow in a desired direction.
 Spring holders connect to socket VRFU, VRFM or VRR.

Ød nom	ØD mm	l mm	m kg
100	155	70	0,44
125	185	76	0,60
160	226	83	0,85

Materials and finish

Material

Painted galvanized sheet metal.

Colour

White RAL 9010, gloss 70, equivalent to NCS S 0502 Y.

Maintenance

The visible parts can be wiped with a damp cloth.

Ordering example



Diffuser supply air

VTTB

Technical data

Air flow, q [l/s] and [m³/h], total pressure drop, Δp_t [Pa], throw length, $l_{0,2}$ [m], and A-weighted sound power level, L_{WA} [dB], for different settings, a [mm], are shown in the graphs.

Note! The A-weighted sound power level, L_{WA} , will increase by 3 dB when the valve is mounted in a bend.

Sound power level, L_W [dB], in octave bands

is calculated as $L_{WA} + K_{ok}$. K_{ok} is found in the table below.

Ød nom	Diffuser mounted in	Centre frequency [Hz]							
		63	125	250	500	1K	2K	4K	8K
100	Duct	-2	-7	-7	-4	-5	-5	-13	-20
125	Duct	-1	-2	-3	-3	-4	-7	-13	-16
160	Duct	1	2	-2	-2	-4	-9	-14	-9

Sound attenuation, ΔL , [dB]

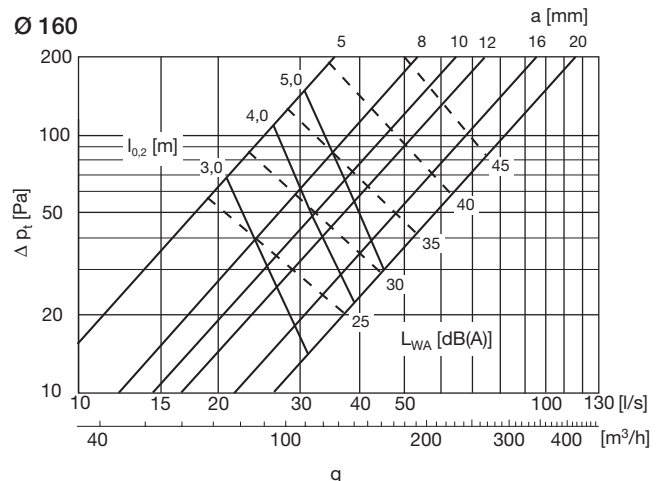
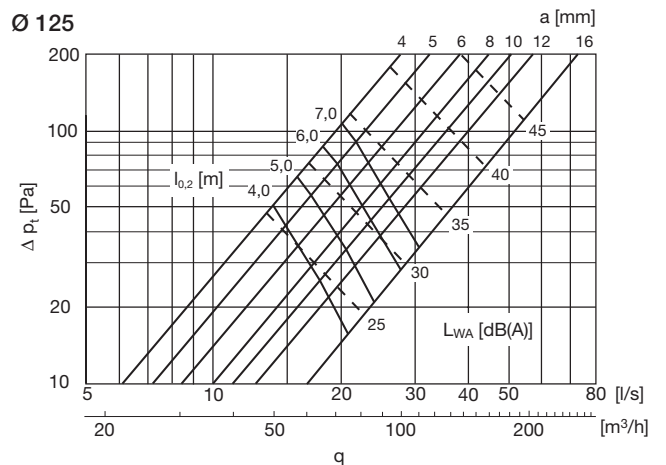
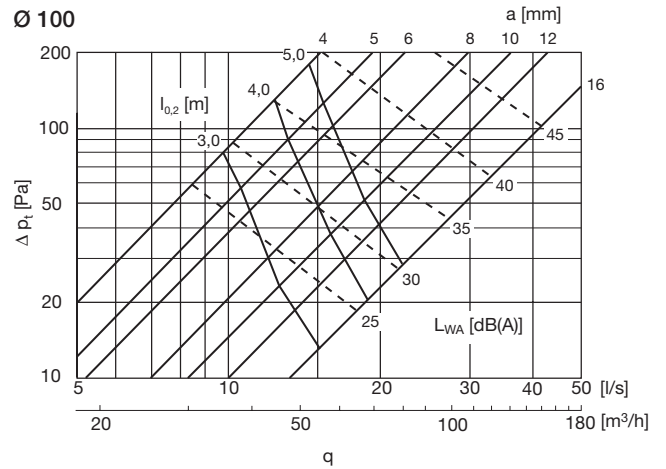
Ød nom	Diffuser mounted in	Centre frequency [Hz]							
		63	125	250	500	1K	2K	4K	8K
100	Duct	25	22	17	13	12	11	11	11
125	Duct	25	20	15	12	11	9	9	9
160	Duct	26	17	13	12	11	7	7	8

Air jet diffusion pattern

Maximum vertical width, $b_v = 0,1 \times l_{0,2}$ m

Measurement of air flow

Data is available in a separate brochure.



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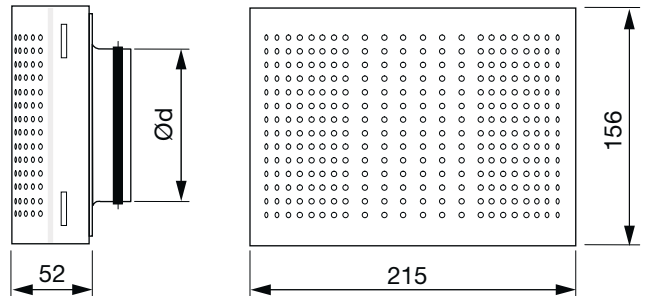
Diffuser

SHH

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Dimensions



Description

Diffuser for supply air.
Designed for wall mounting.
Fits in duct. Equipped with a single lip rubber gasket.

Materials and finish

Material
Painted sheet metal.

Colour
White RAL 9010, gloss 30.

Ød nom	m kg
100	0,60
125	0,60

Ordering example



Diffuser

SHH

Technical data

Air flow, q [l/s] and [m³/h], total pressure drop, Δp_t [Pa], throw length, $l_{0,2}$ [m], and A-weighted sound power level, L_{WA} [dB], for different settings, n [number of open rows], are shown in the graph.

The setting is made by sealing off rows of holes with tape on the front's inside.

Sound power level, L_W [dB], in octave bands

is calculated as $L_{WA} + K_{ok}$. K_{ok} is found in the table below.

Ød nom	Diffuser mounted in	Centre frequency [Hz]							
		63	125	250	500	1K	2K	4K	8K
100	Duct	-2	-2	-1	1	0	-4	-13	-14
125	Duct	-4	-4	-3	-2	-2	-2	-1	-7

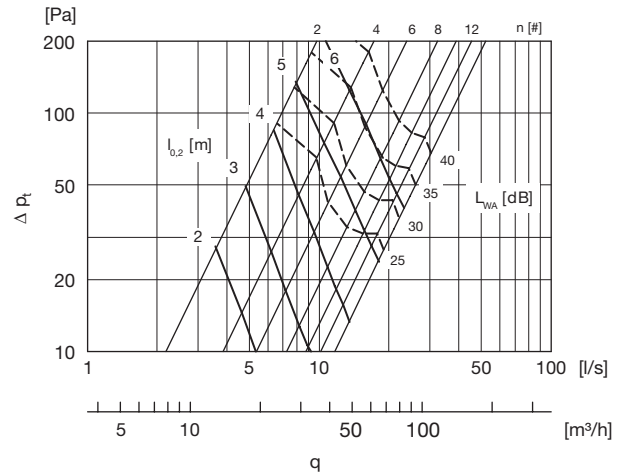
Sound attenuation, ΔL , [dB]

Ød nom	Diffuser mounted in	n [#]	Centre frequency [Hz]							
			63	125	250	500	1K	2K	4K	8K
100	Duct	14	14	14	9	4	0	1	1	3
		10	15	15	9	5	2	4	3	5
		6	15	15	9	4	4	6	4	7
125	Duct	14	14	14	8	4	0	1	2	4
		10	13	13	8	4	1	4	3	5
		6	13	13	8	5	3	6	5	7

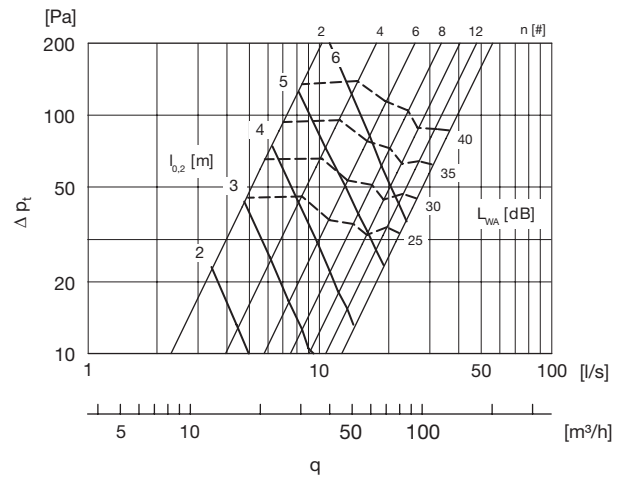
Measurement of air flow

Data is available in a separate brochure.

Ø 100



Ø 125



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Valve

KPT

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Description

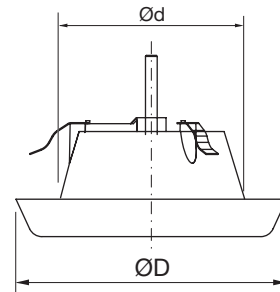
Valve for supply air.
 Designed for ceiling mounting.
 Flat spring holders connect to duct.

Materials and finish

Material
 Plastic.

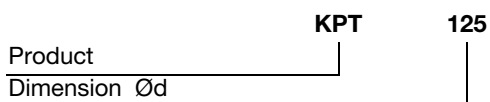
Colour
 White RAL 9010.

Dimensions



Ød nom	ØD mm	m kg
80	118	0,08
100	148	0,10
125	180	0,16
160	203	0,22
200	246	0,55

Ordering example



Valve

KPT

Technical data

Air flow, q [l/s] and [m³/h], total pressure drop, Δp_t [Pa], and A-weighted sound power level, L_{WA} [dB], for different settings, n [number of opening turns], are shown in the graphs.

Sound power level, L_{WA} [dB], A-weighted is shown in the graphs.

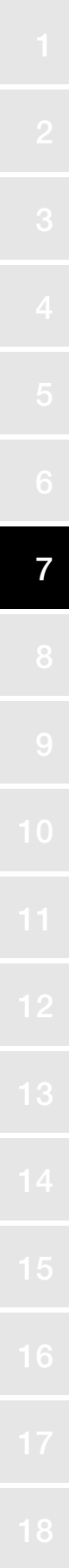
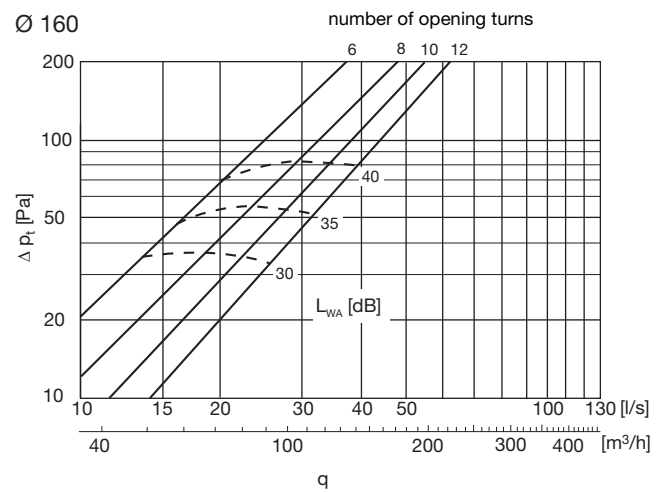
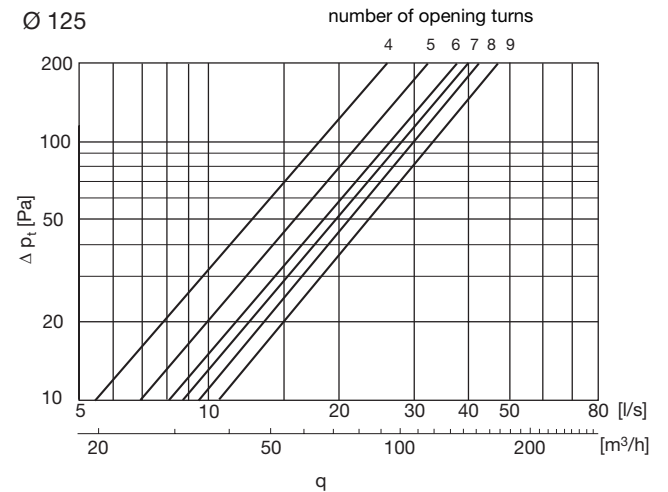
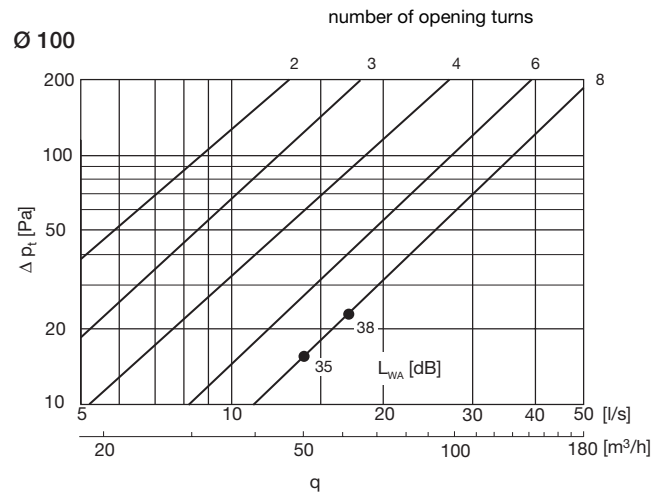
Sound attenuation, ΔL_A , [dB]

$\varnothing d$ nom	Valve mounted in	Setting n [number of opening turns]	Attenuation ΔL_A [dB]
100	Duct	0	8,5
		2	8,5
		3	8,5
		4	8
		6	8
		8	8
125	Duct	10	8
		0	14
		4	8
		5	8
		6	7,5
160	Duct	7	7
		8	6,5
		9	6
		0	14,5
200	Duct	6	6,5
		8	6
		10	6
		12	6
200	Duct	0	15,5
		7	6,5
		9	6
		11	5,5
		13	5,5
		15	5,5

Tolerance ± 1

Measurement of air flow

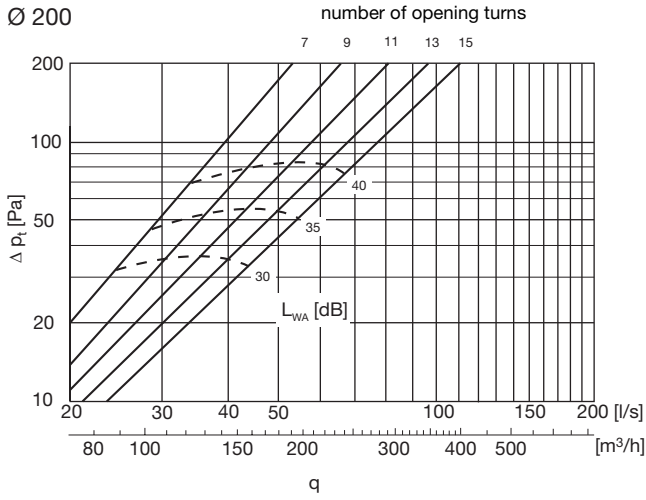
Data is available in a separate brochure.



Valve

KPT

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Valve

KI



Description

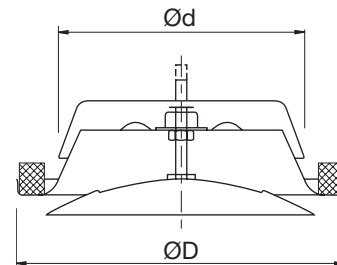
Valve for supply air.
Designed for ceiling mounting.
Bayonet holders connect to socket VRGU, VRGL or VRGM.

Materials and finish

Material
Painted galvanized sheet metal.

Colour
White RAL 9010, gloss 70, equivalent to NCS S 0502 Y.

Dimensions



Ød nom	ØD mm	m kg
80	111	0,14
100	130	0,21
125	160	0,30
150	190	0,39
160	190	0,41
200	245	0,65

Ordering example



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Valve

KI

Technical data

Air flow, q [l/s] and [m³/h], total pressure drop, Δp_t [Pa], throw length, $l_{0,2}$ [m], and A-weighted sound power level, L_{WA} [dB], for different settings, a [mm], are shown in the graphs.

Sound power level, L_W [dB], in octave bands

is calculated as $L_{WA} + K_{Ok}$. K_{Ok} is found in the table below.

Ød nom	Valve mounted in	Centre frequency [Hz]							
		63	125	250	500	1K	2K	4K	8K
80	Duct	-	2	2	-1	-6	-14	-25	-37
100	Duct	-	2	2	-1	-6	-14	-25	-37
125	Duct	-	2	4	-2	-7	-14	-25	-37
160	Duct	-	6	5	-3	-9	-14	-26	-36
200	Duct	-	5	5	-2	-8	-16	-24	-36

Tolerance	-	±3	±2	±2	±2	±2	±2	±2	±3
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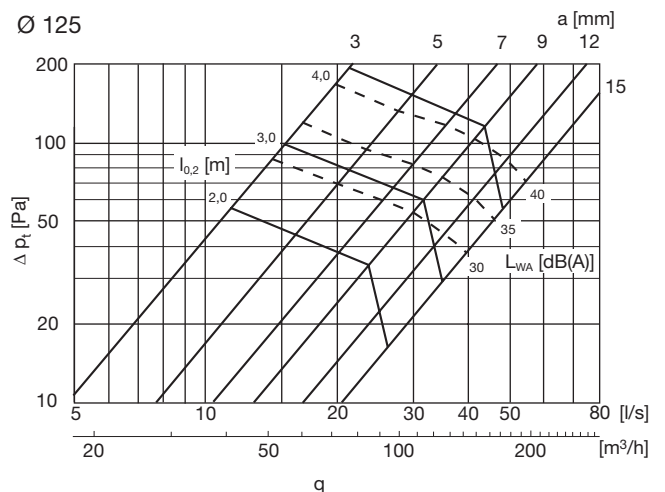
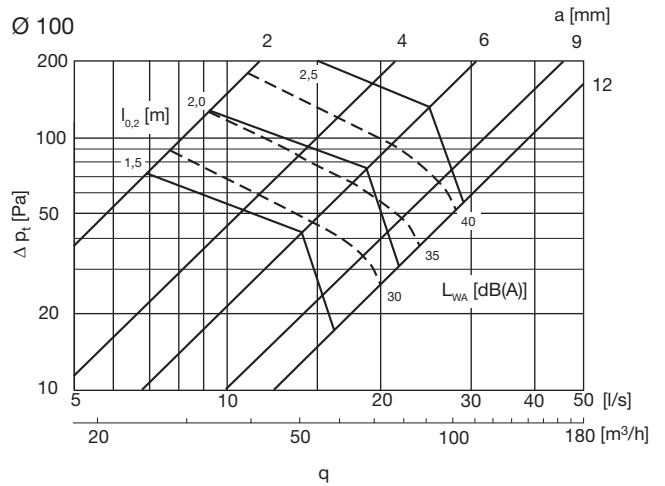
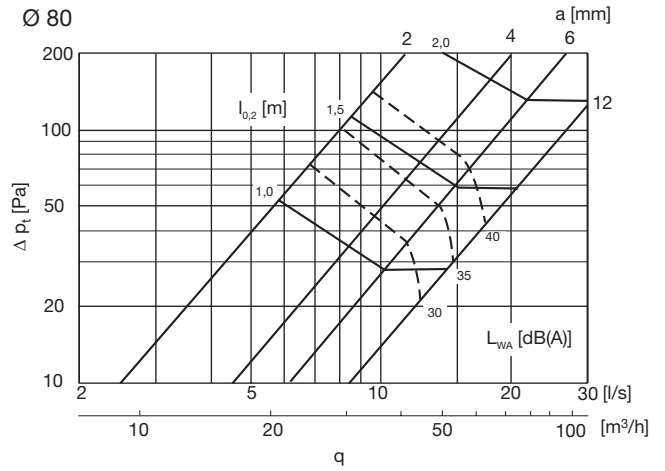
Sound attenuation, ΔL , [dB]

Ød nom	Valve mounted in	Setting a [mm]	Centre frequency [Hz]							
			63	125	250	500	1K	2K	4K	8K
80	Duct	2	26	20	15	14	11	8	10	9
		6	24	19	13	11	8	5	8	6
		12	24	19	13	10	6	4	5	6
100	Duct	2	22	19	14	12	11	12	10	12
		6	22	17	11	9	8	9	6	9
		12	22	17	11	8	6	7	4	7
125	Duct	3	20	17	12	11	9	9	8	8
		7	19	15	10	8	7	7	5	5
		12	19	15	9	7	5	5	4	4
160	Duct	4	18	14	10	10	10	10	8	8
		9	18	13	9	8	7	7	6	6
		20	18	13	8	7	6	5	5	5
200	Duct	5	17	13	10	9	11	10	9	9
		9	16	12	8	8	9	9	8	7
		20	15	11	7	6	7	6	7	6

Tolerance	±6	±3	±2	±2	±2	±2	±2	±2	±3
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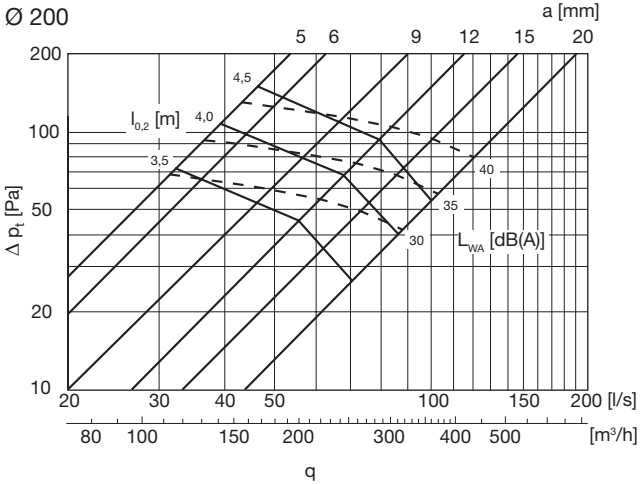
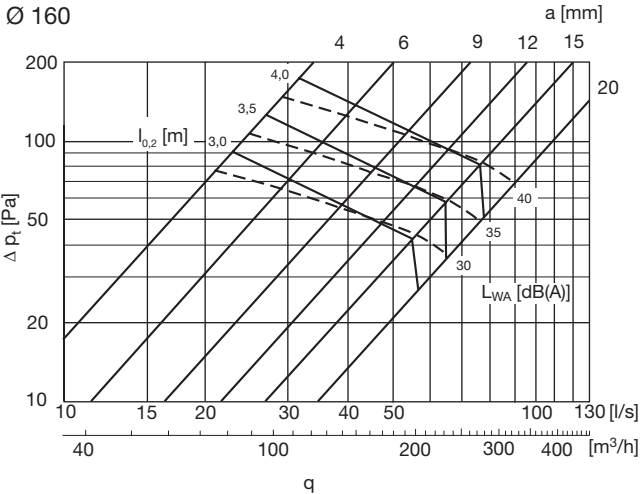
Measurement of air flow

Data is available in a separate brochure.



Valve

KI



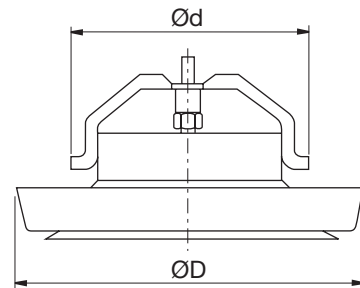
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Valve

KIR



Dimensions



Description

Valve for supply air.
 Designed for ceiling mounting.
 Equipped with a removable blanking-off sector plate for preventing the air flow in a desired direction.
 Bayonet holders connect to socket VRGU, VRGL or VRGM.

Ød nom	ØD mm	m kg
100	135	0,28
125	165	0,44
160	205	0,62

Materials and finish

Material

Painted galvanized sheet metal.

Colour

White RAL 9010, gloss 70, equivalent to NCS S 0502 Y.

Maintenance

The visible parts can be wiped with a damp cloth.

Ordering example



Valve

KIR

Technical data

Without sector plate

Air flow, q [l/s] and [m³/h], total pressure drop, Δp_t [Pa], throw length, $l_{0,2}$ [m], and A-weighted sound power level, L_{WA} [dB], for different settings, a [mm], are shown in the graphs.

Maximal vertical width, b_v [m] and Maximal horizontal width, b_h [m], are shown in the tables.

Sound power level, L_W [dB], in octave bands

is calculated as $L_{WA} + K_{ok}$. K_{ok} is found in the table below.

Ød nom	Valve mounted in	Centre frequency [Hz]							
		63	125	250	500	1K	2K	4K	8K
100	Duct	-	-6	-2	-3	-5	-8	-9	-15
125	Duct	-	0	1	-1	-5	-15	-21	-33
160	Duct	-	3	2	-1	-6	-15	-23	-36

Tolerance	-	±3	±2	±2	±2	±2	±2	±2	±3
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Sound attenuation, ΔL , [dB]

Ød nom	Valve mounted in	Centre frequency [Hz]							
		63	125	250	500	1K	2K	4K	8K
100	Duct	22	18	13	11	9	8	7	8
125	Duct	20	16	11	9	9	7	6	5
160	Duct	18	14	10	9	9	7	6	6

Tolerance	±6	±3	±2	±2	±2	±2	±2	±2	±3
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Measurement of air flow

Data is available in a separate brochure.

Air jet diffusion pattern

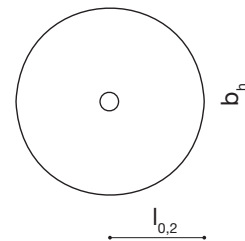
Maximal vertical width, b_v [m]:

Setting a [mm]	Supply air temperature difference Δt	
	±0 °C	-10 °C
4	$b_v = 0,04 \cdot l_{02}$	$b_v = 0,064 \cdot l_{02}$
12	$b_v = 0,04 \cdot l_{02}$	$b_v = 0,075 \cdot l_{02}$



Maximal horizontal width, b_h [m]:

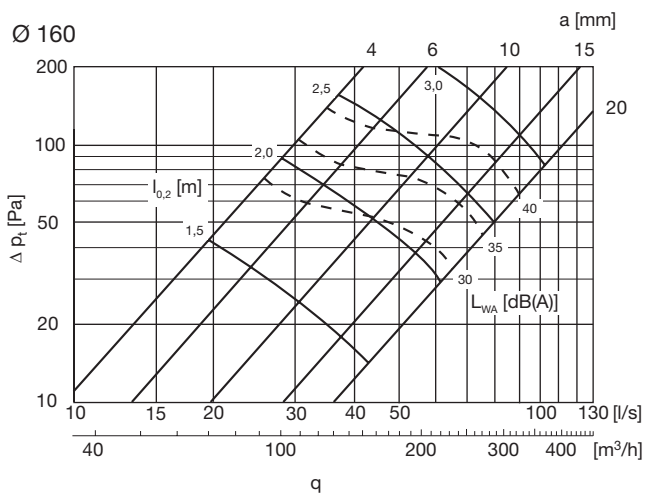
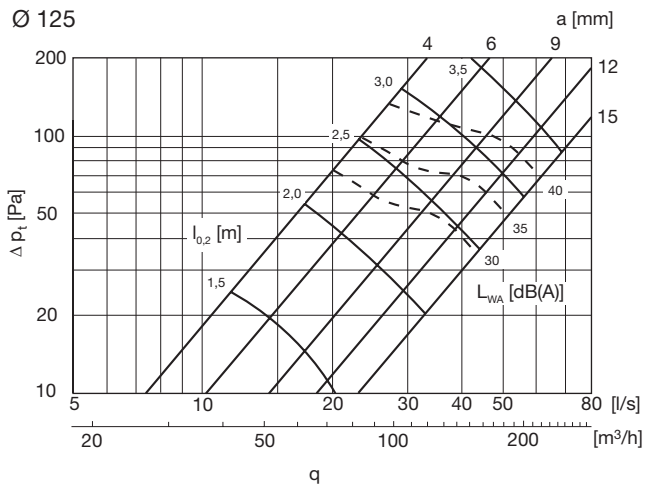
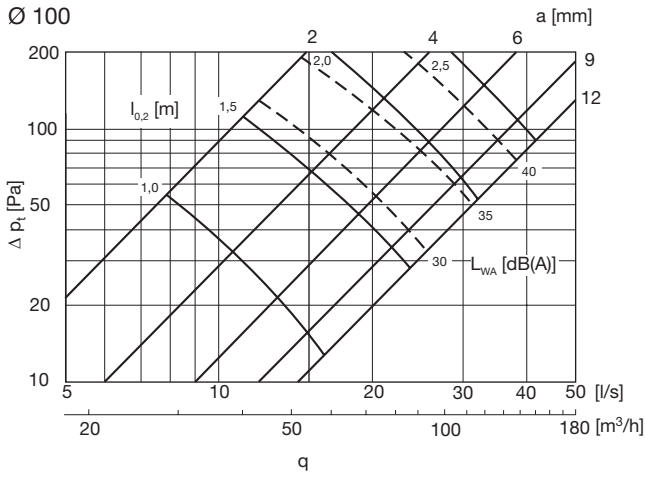
Setting a [mm]	Supply air temperature difference Δt	
	±0 °C	-10 °C
4	$b_h = 2 \cdot l_{02}$	$b_h = 2 \cdot l_{02}$
12	$b_h = 2 \cdot l_{02}$	$b_h = 2 \cdot l_{02}$



Valve

KIR

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Valve

KIR

Technical data

With sector plate

Air flow, q [l/s] and [m³/h], total pressure drop, Δp_t [Pa], throw length, $l_{0,2}$ [m], and A-weighted sound power level, L_{WA} [dB], for different settings, a [mm], are shown in the graphs.

Maximal vertical width, b_v [m] and Maximal horizontal width, b_h [m], are shown in the tables.

Sound power level, L_W [dB], in octave bands

is calculated as $L_{WA} + K_{ok}$. K_{ok} is found in the table below.

Ød nom	Valve mounted in	Centre frequency [Hz]							
		63	125	250	500	1K	2K	4K	8K
100	Duct	-	-2	-2	-4	-6	-8	-8	-16
125	Duct	-	-1	-1	-1	-4	-12	-19	-33
160	Duct	-	3	0	-2	-5	-10	-21	-35

Tolerance	-	±3	±2	±2	±2	±2	±2	±2	±3
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Sound attenuation, ΔL , [dB]

Ød nom	Valve mounted in	Centre frequency [Hz]							
		63	125	250	500	1K	2K	4K	8K
100	Duct	22	18	13	11	9	8	7	8
125	Duct	20	16	11	9	9	7	6	5
160	Duct	18	14	10	9	9	7	6	6

Tolerance	±6	±3	±2	±2	±2	±2	±2	±2	±3
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Measurement of air flow

Data is available in a separate brochure.

Air jet diffusion pattern

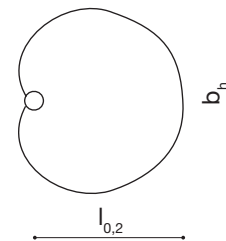
Maximal vertical width, b_v [m]:

Setting a [mm]	Supply air temperature difference Δt	
	±0 °C	-10 °C
4	$b_v = 0,04 \cdot l_{0,2}$	$b_v = 0,064 \cdot l_{0,2}$
12	$b_v = 0,04 \cdot l_{0,2}$	$b_v = 0,075 \cdot l_{0,2}$



Maximal horizontal width, b_h [m]:

Setting a [mm]	Supply air temperature difference Δt	
	±0 °C	-10 °C
4	$b_h = 1,45 \cdot l_{0,2}$	$b_h = 1,15 \cdot l_{0,2}$
12	$b_h = 1,45 \cdot l_{0,2}$	$b_h = 1,09 \cdot l_{0,2}$

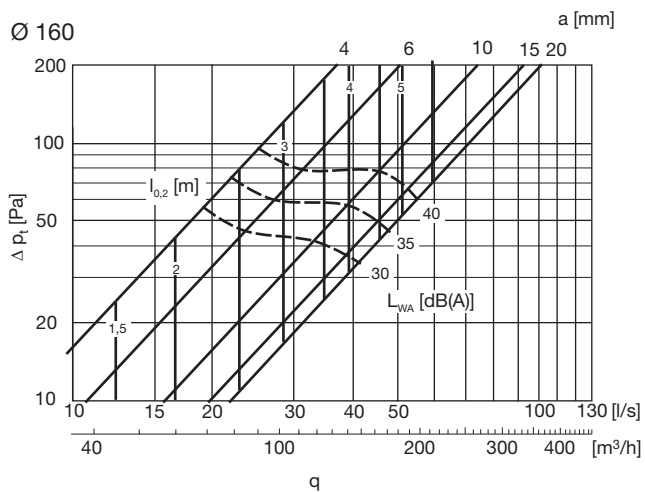
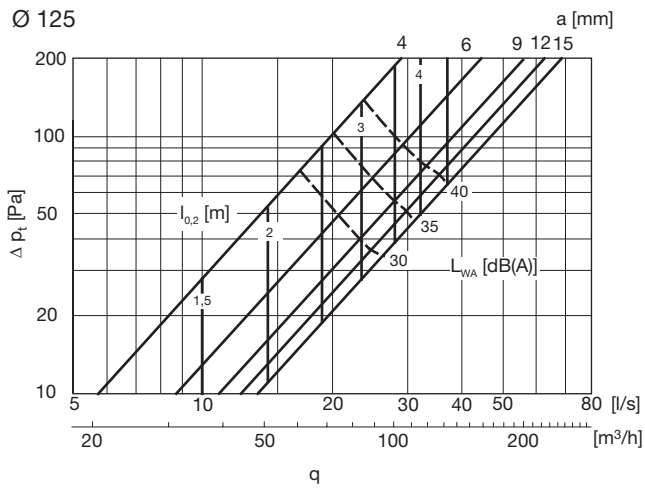
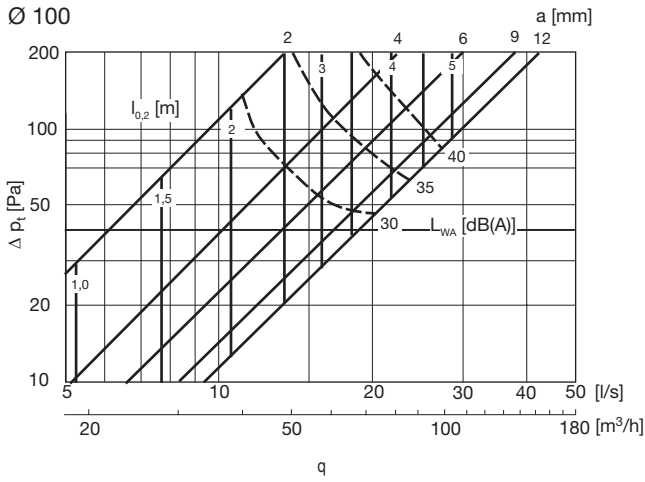


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Valve

KIR

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Valve

TAV



Description

Valve for supply and exhaust air.
Designed for natural ventilation. Can also be used as an outdoor air valve.
Screws connect to a duct.

Materials and finish

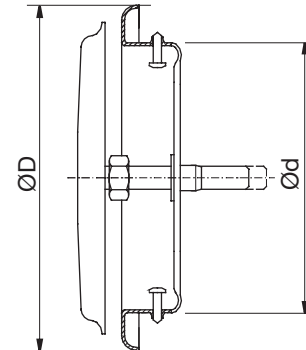
Material

Painted galvanized sheet metal.

Colour

White RAL 9010, gloss 70, equivalent to NCS S 0502 Y.

Dimensions



Ød nom	ØD mm	m kg
63	92	0,10
80	105	0,12
100	140	0,19
125	155	0,26
160	200	0,39
200	235	0,53
250	270	0,70
315	330	0,90

Ordering example

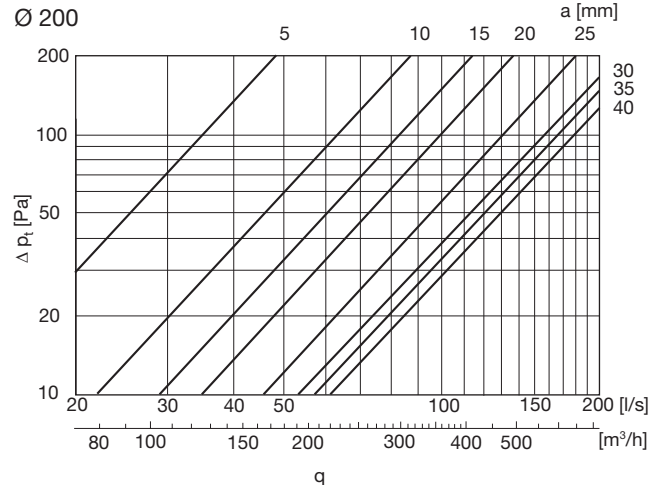
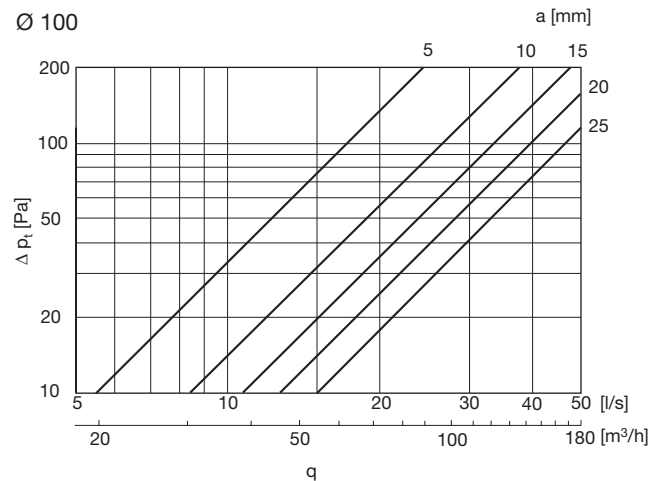
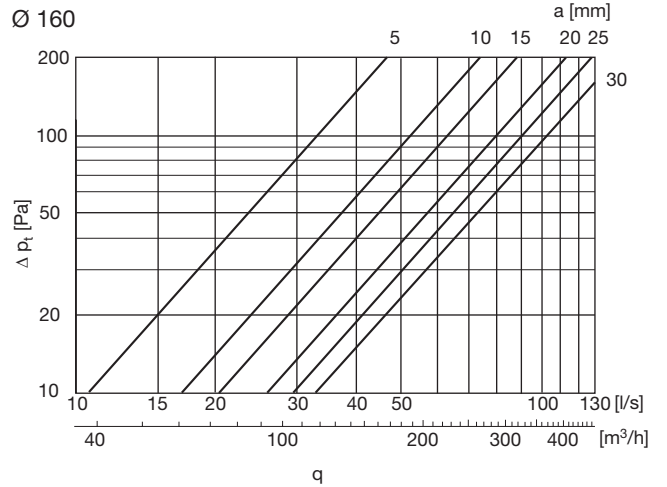
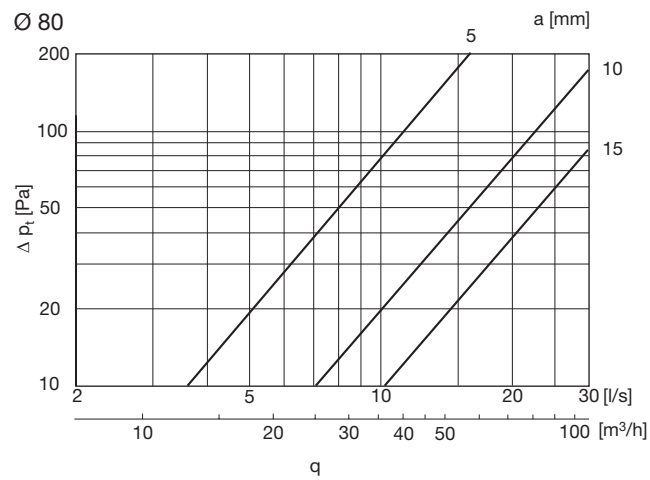
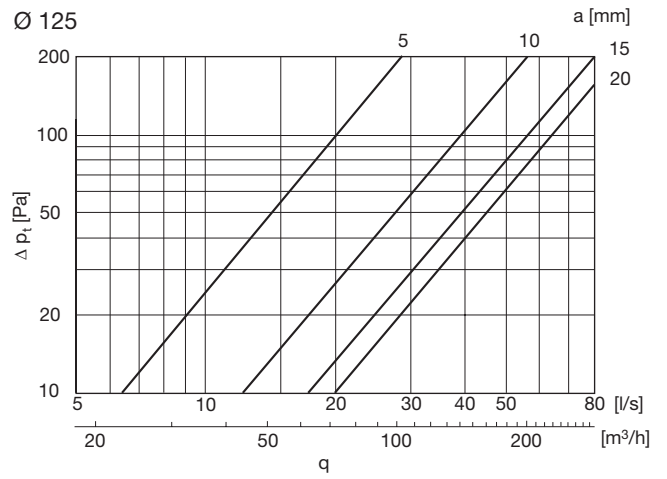
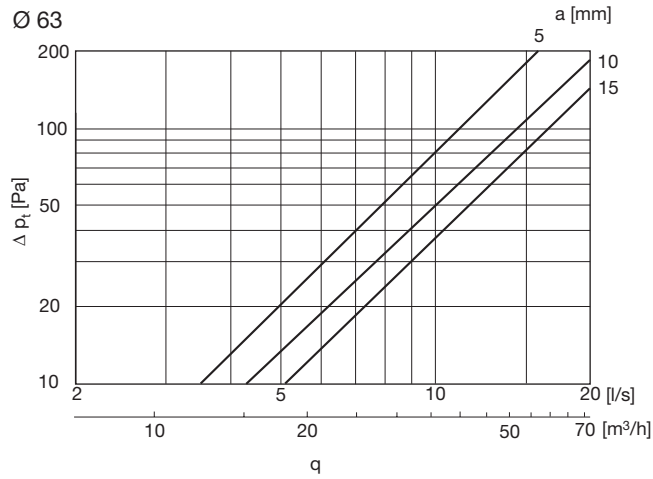
Product	TAV	160
Dimension Ød		

Valve

TAV

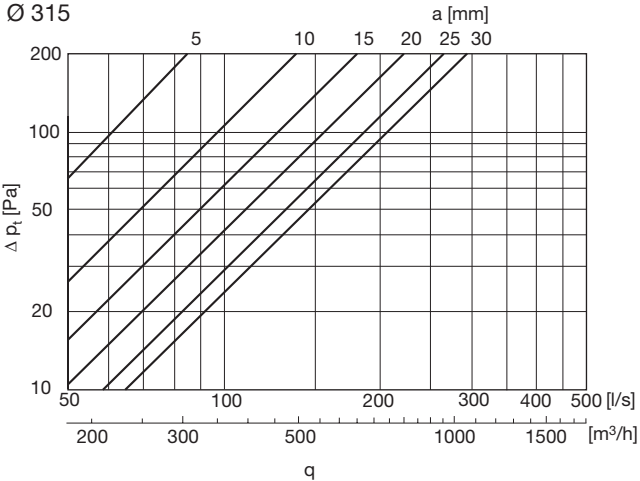
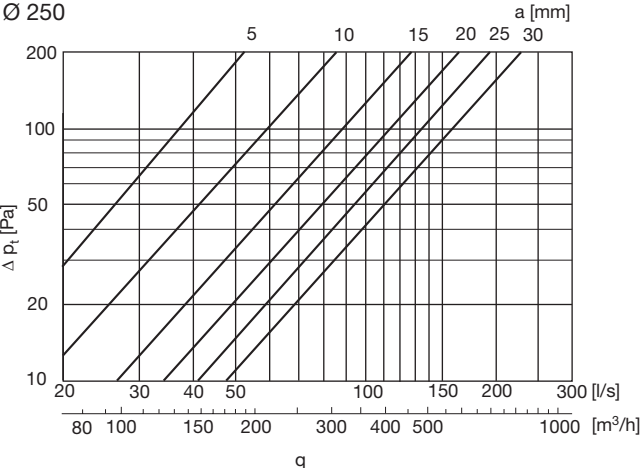
Technical data

Air flow, q [l/s] and [m³/h] and total pressure drop, Δp_t [Pa], for different settings, a [mm], are shown in the graphs.



Valve

TAV



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Valve

KVB

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Description

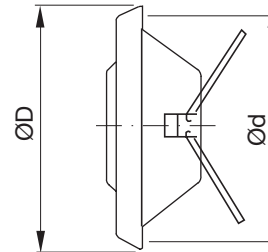
Valve for exhaust air.
Designed for wall or ceiling mounting.
Spring holders connect to socket VRFU, VRFM or VRR.

Materials and finish

Material
Painted galvanized sheet metal.

Colour
White RAL 9010, gloss 70, equivalent to NCS S 0502 Y.

Dimensions



Ød nom	ØD mm	m kg
100	125	0,27
125	150	0,36
160	190	0,54

Ordering example



Valve

KVB

Technical data

Air flow, q [l/s] and [m³/h], total pressure drop, Δp_t [Pa], and A-weighted sound power level, L_{WA} [dB], for different settings, a [mm], are shown in the graphs.

Sound power level, L_W [dB], in octave bands

is calculated as $L_{WA} + K_{ok}$. K_{ok} is found in the table below.

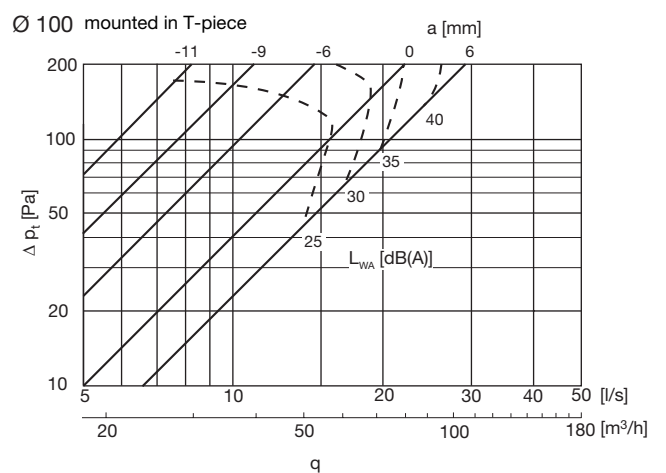
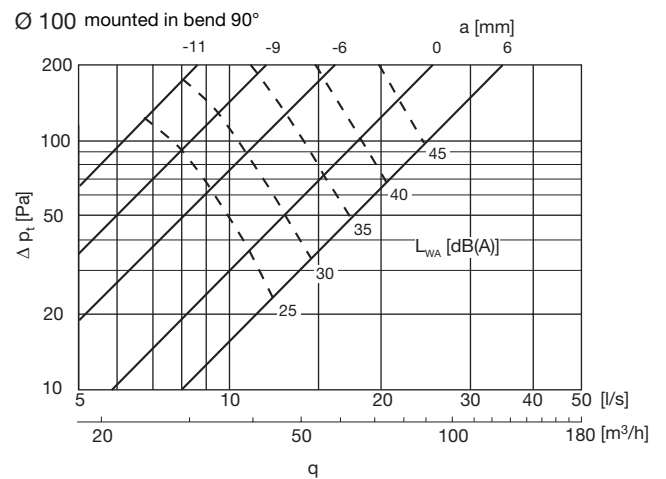
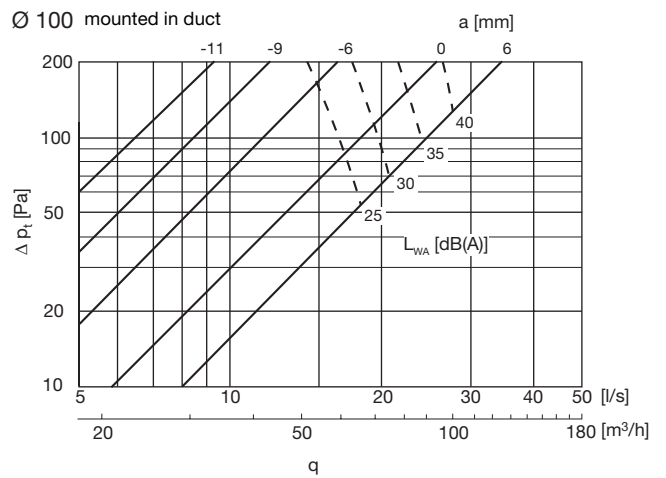
Ød nom	Valve mounted in	Centre frequency [Hz]							
		63	125	250	500	1K	2K	4K	8K
100	Duct	6	2	1	-3	-6	-8	-11	-16
	Bend 90°	6	2	1	-3	-6	-8	-11	-16
	T-piece	6	2	1	-3	-6	-8	-11	-16
125	Duct	13	-2	-1	-5	-5	-8	-12	-16
	Bend 90°	13	-2	-1	-5	-5	-8	-12	-16
	T-piece	13	-2	-1	-5	-5	-8	-12	-16
160	Duct	14	0	-1	-4	-3	-8	-16	-18
	T-piece	14	0	-1	-4	-3	-8	-16	-18

Sound attenuation, ΔL , [dB]

Ød nom	Valve mounted in	Centre frequency [Hz]							
		63	125	250	500	1K	2K	4K	8K
100	Duct	25	22	21	20	14	18	9	10
	Bend 90°	30	27	23	17	16	19	12	13
	T-piece	25	22	21	20	14	18	9	10
125	Duct	24	20	17	15	11	12	7	7
	Bend 90°	29	25	19	12	13	13	10	10
	T-piece	24	20	17	15	11	12	7	7
160	Duct	22	18	16	12	14	10	9	8
	T-piece	22	18	16	12	14	10	9	8

Measurement of air flow

Data is available in a separate brochure.

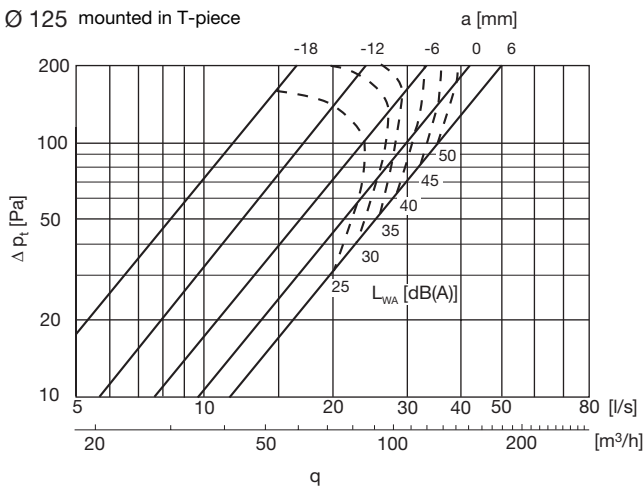
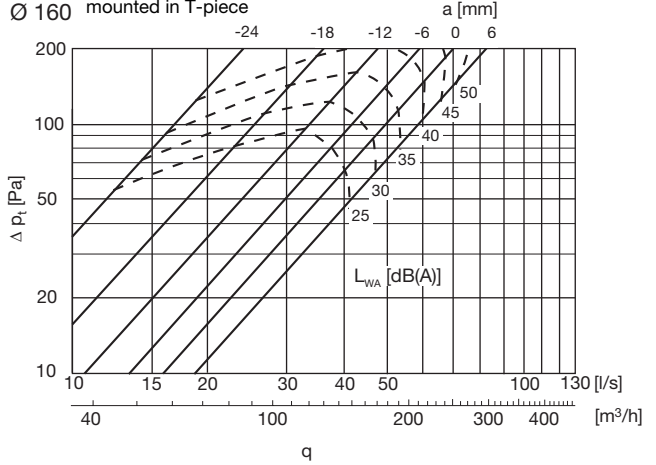
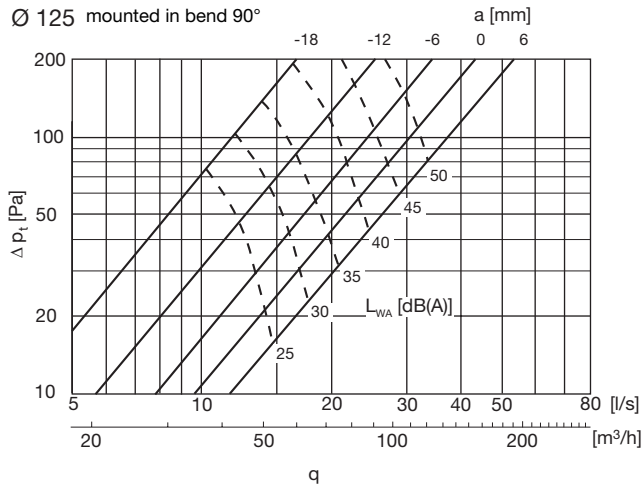
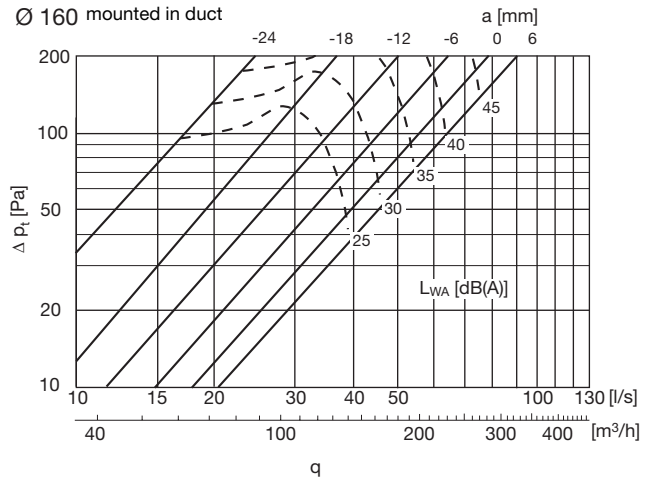
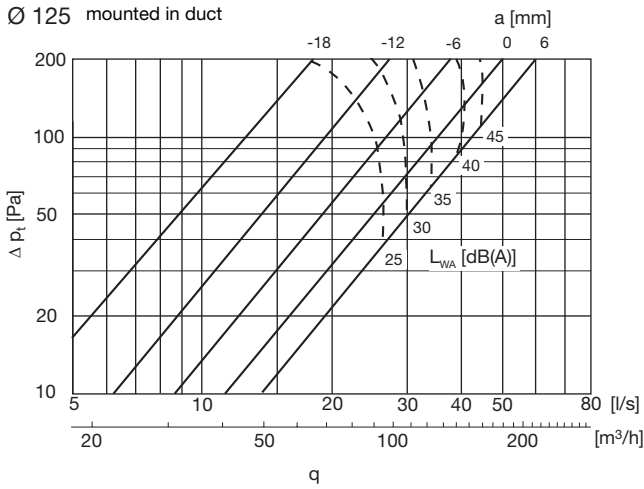


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Valve

KVB

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Exhaust valve

KVG



Description

Valve for exhaust air.

Designed for wall or ceiling mounting.

Ø 100–160 have spring holders which connect to socket VRFU, VRFM or VRR.

Ø 200 has bayonet holders which connect to socket VRGU, VRGL or VRGM.

Materials and finish

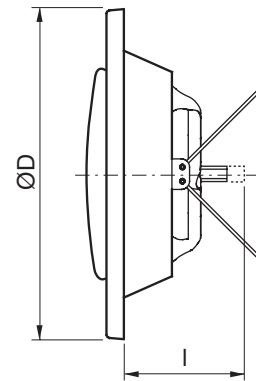
Material

Painted galvanized sheet metal.

Colour

White RAL 9010, gloss 70, equivalent to NCS S 0502 Y.

Dimensions



Ød nom	ØD mm	m kg
100	132	0,18
125	162	0,25
160	192	0,37
200	243	0,59

Ordering example

Product	KVG	100
Dimension Ød		

Exhaust valve

KVG

Technical data

Air flow, q [l/s] and [m³/h], total pressure drop, Δp_t [Pa], and A-weighted sound power level, L_{WA} [dB], for different settings, a [mm], are shown in the graphs.

Sound power level, L_W [dB], in octave bands

is calculated as $L_{WA} + K_{ok}$.
 K_{ok} is found in the table below.

Ød nom	Valve mounted in	Centre frequency [Hz]							
		63	125	250	500	1K	2K	4K	8K
100	Duct	4	-4	-6	-7	-6	-4	-13	-18
	Bend 90°	-1	-1	-3	-3	-5	-7	-16	-27
	T-piece	7	0	-2	-7	-6	-5	-11	-21
125	Duct	6	-1	-3	-6	-7	-4	-16	-27
	T-piece	7	0	-2	-7	-6	-5	-13	-24
160	Duct	5	-5	-4	-6	-3	-7	-18	-30
	T-piece	5	1	-5	-8	-6	-4	-18	-29
200	Duct	3	-2	-5	-6	-2	-9	-16	-26

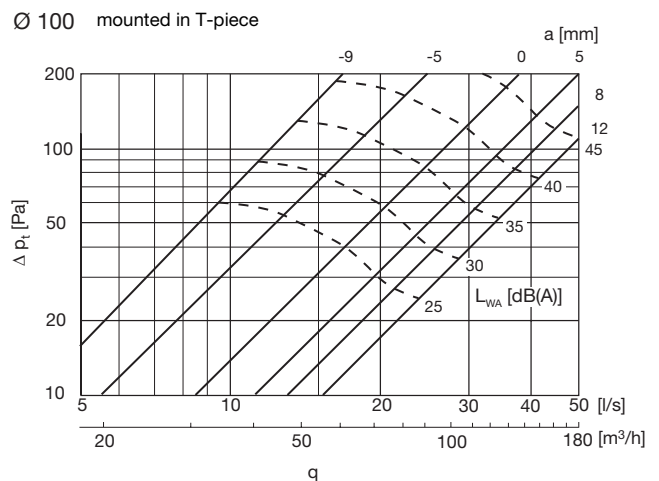
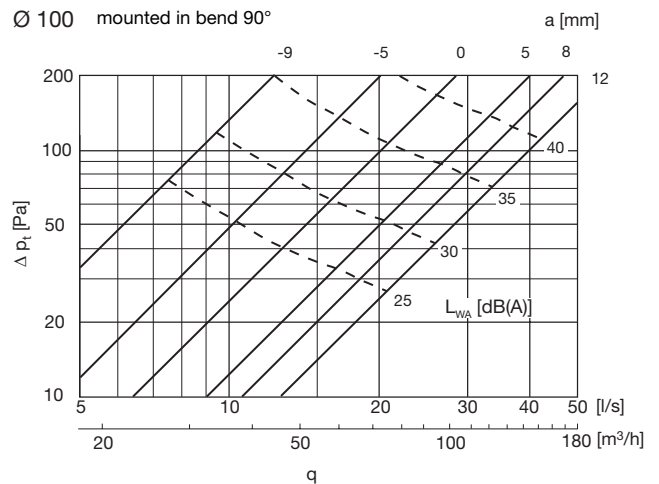
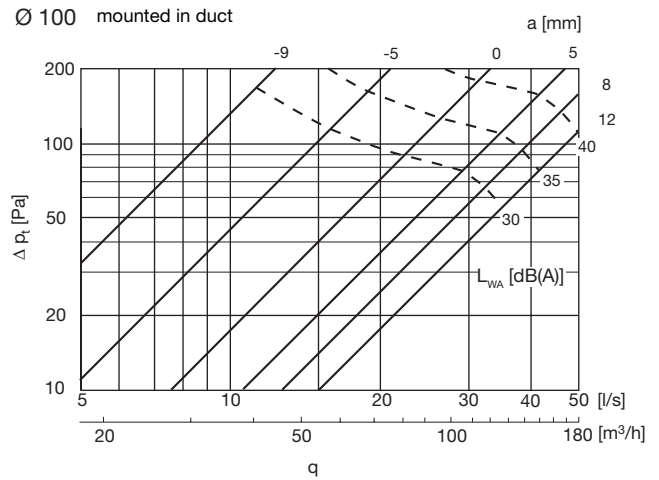
Tolerance	±6	±3	±2	±2	±2	±2	±2	±3
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Sound attenuation, ΔL , [dB]

Ød nom	Valve mounted in	Setting a [mm]	Centre frequency [Hz]							
			63	125	250	500	1K	2K	4K	8K
100	Duct	-12	23	19	14	14	12	11	13	16
		0	22	16	9	8	6	6	6	10
		8	22	16	9	7	5	5	4	8
	Bend 90°	-12	25	20	15	13	12	12	12	15
0		24	17	11	7	6	7	6	11	
8		24	17	11	6	5	5	5	11	
100	T-piece	-12	23	19	14	14	12	11	13	16
		0	22	16	9	8	6	6	6	10
		8	22	16	9	7	5	5	4	8
	125	Duct	-17	21	15	12	10	8	8	11
-6			20	14	10	7	5	5	6	7
160	Duct	5	19	14	9	6	4	4	4	8
		-18	19	14	10	8	7	9	13	13
		5	18	13	8	6	5	5	10	8
200	Duct	6	18	12	7	5	4	4	10	6
		-20	17	14	9	8	8	10	11	12
		0	17	12	7	5	5	6	8	8
200	Duct	20	15	12	6	5	3	4	8	7

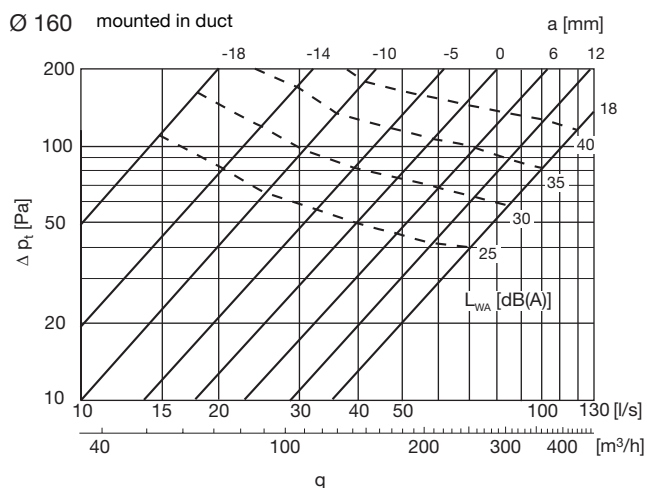
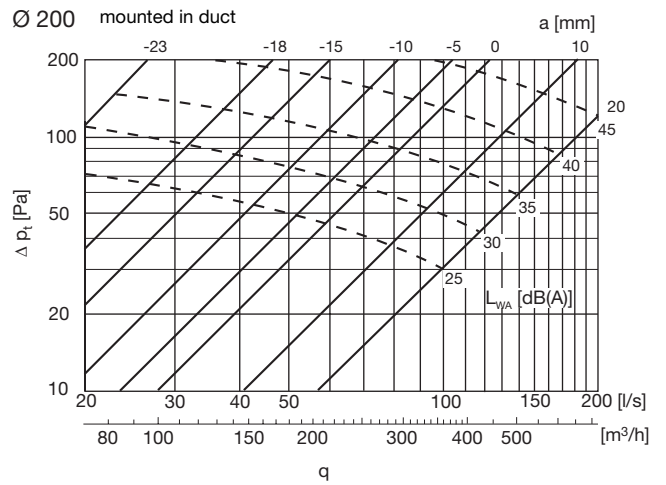
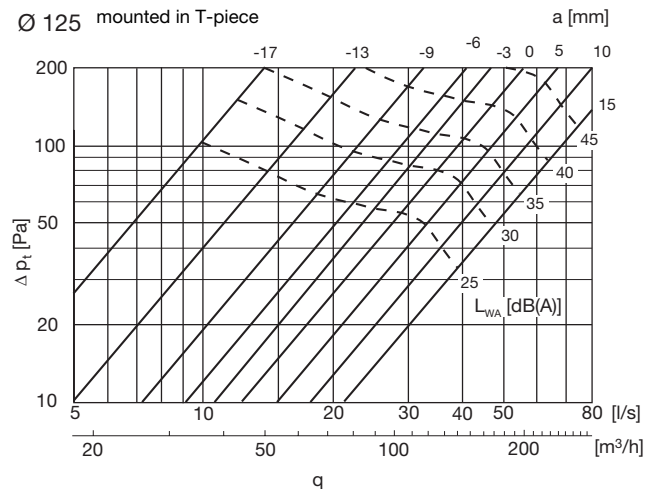
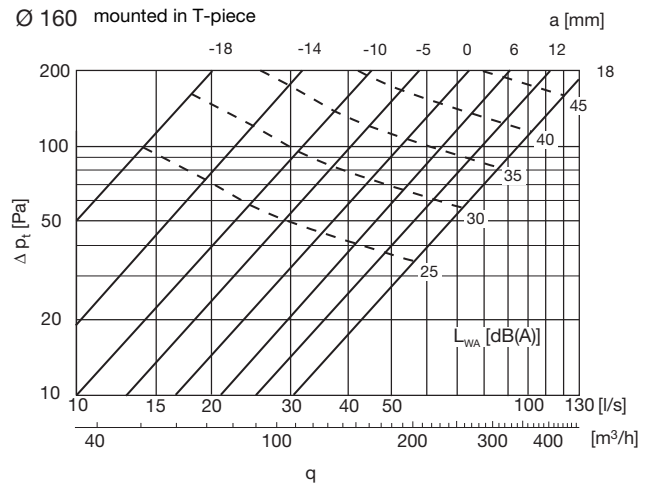
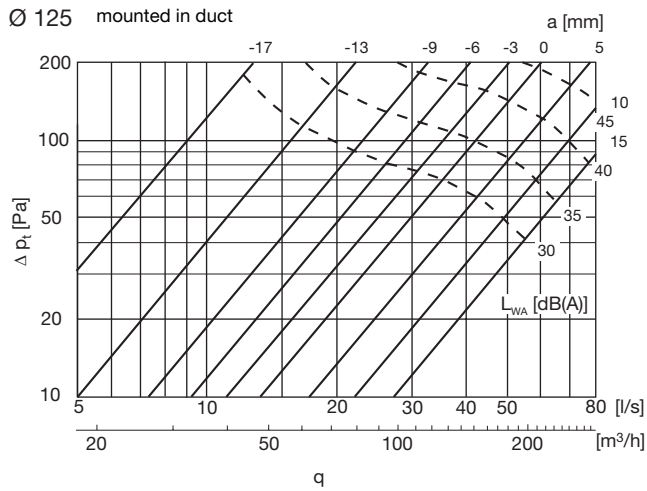
Measurement of air flow

Data is available in a separate brochure.



Exhaust valve

KVG



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Exhaust valve

KU

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Description

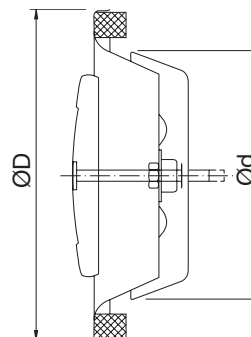
Valve for exhaust air.
Designed for wall or ceiling mounting.
Bayonet holders connect to socket VRGU, VRGL or VRGM.

Materials and finish

Material
Painted galvanized sheet metal.

Colour
White RAL 9010, gloss 70, equivalent to NCS S 0502 Y.

Dimensions



Ød nom	ØD mm	m kg
80	110	0,13
100	130	0,19
125	160	0,27
150	188	0,36
160	190	0,38
200	245	0,58

Ordering example



Exhaust valve

KU

Technical data

Air flow, q [l/s] and [m³/h], total pressure drop, Δp_t [Pa], and A-weighted sound power level, L_{WA} [dB], for different settings, a [mm], are shown in the graphs.

Sound power level, L_W [dB], in octave bands

is calculated as $L_{WA} + K_{ok}$. K_{ok} is found in the table below.

Ød nom	Valve mounted in	Centre frequency [Hz]							
		63	125	250	500	1K	2K	4K	8K
100	Duct	-	-8	-5	-6	-6	-4	-12	-21
125	Duct	-	-11	-4	-6	-7	-3	-16	-25
160	Duct	-	-7	-4	-6	-3	-6	-18	-31
200	Duct	-	-7	-6	-7	-2	-9	-18	-27

Tolerance	-	±3	±2	±2	±2	±2	±2	±3
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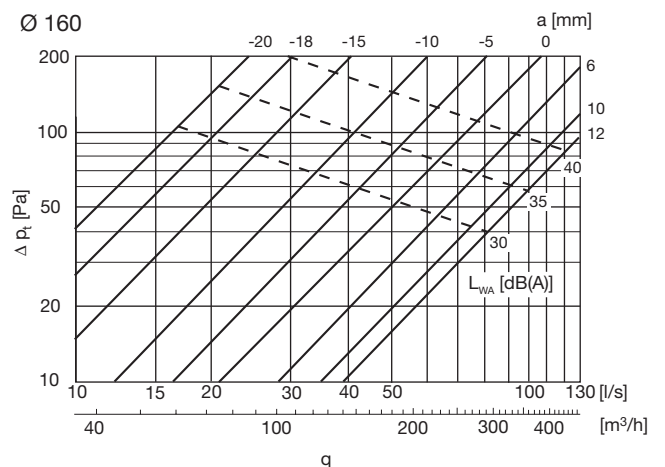
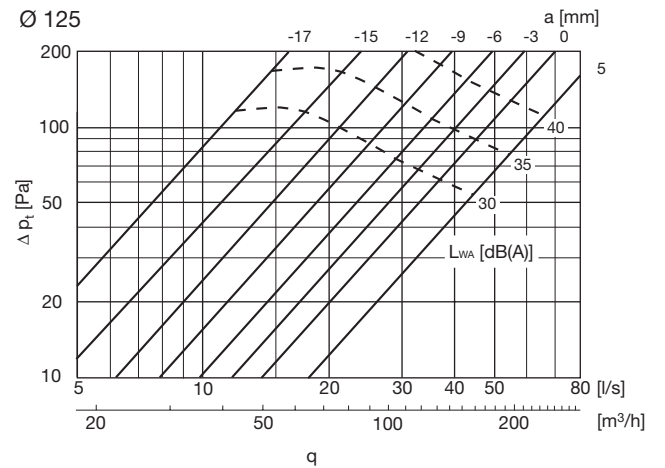
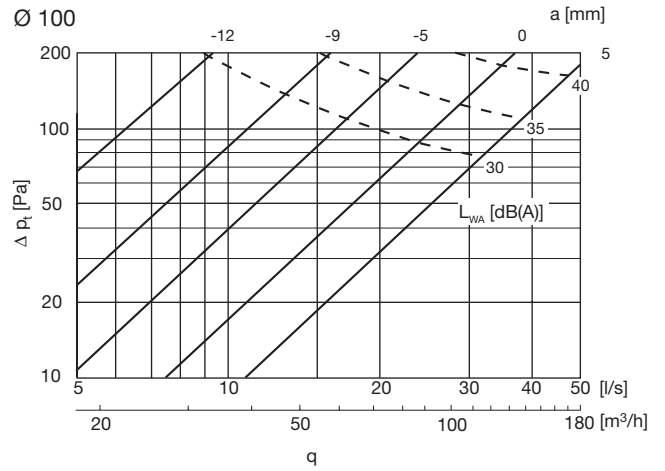
Sound attenuation, ΔL , [dB]

Ød nom	Valve mounted in	Setting a [mm]	Centre frequency [Hz]							
			63	125	250	500	1K	2K	4K	8K
100	Duct	-12	21	18	12	14	12	11	12	15
		-5	21	16	9	11	9	8	8	12
		5	21	16	8	10	8	7	5	11
125	Duct	-17	22	16	11	9	7	7	9	12
		-9	21	16	9	8	5	5	7	8
		5	20	15	9	6	4	3	4	7
160	Duct	-15	19	14	9	8	6	7	9	10
		-5	19	13	9	6	5	4	6	8
		5	18	13	8	5	4	3	6	6
200	Duct	-25	17	12	10	9	9	12	14	12
		0	16	10	7	6	6	6	10	7
		20	16	10	6	4	4	5	9	6

Tolerance	±6	±3	±2	±2	±2	±2	±2	±3
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Measurement of air flow

Data is available in a separate brochure.

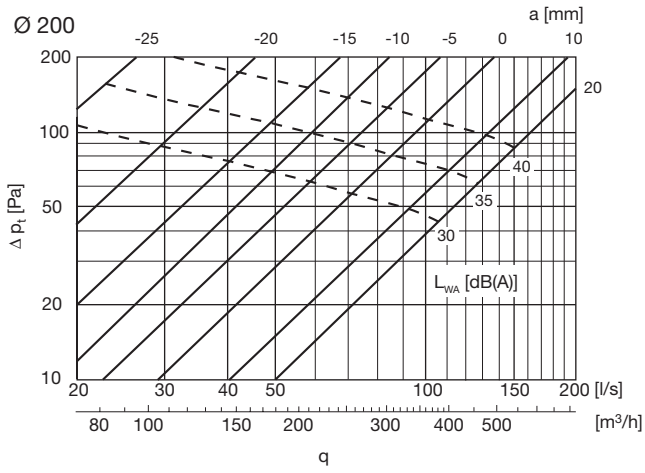


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Exhaust valve

KU

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Exhaust valve

KSU



Description

Valve for exhaust air.
Designed for wall or ceiling mounting.
Bayonet holders connect to socket VRGU, VRGL, or VRGM.

Materials and finish

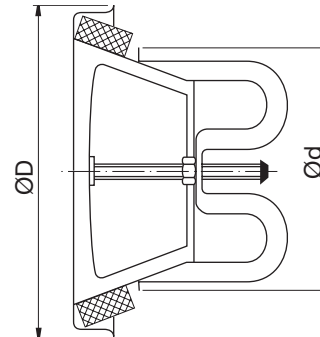
Material

Painted galvanized sheet metal.

Colour

White RAL 9010, gloss 70, equivalent to NCS S 0502 Y.

Dimensions



Ød nom	ØD mm	m kg
100	130	0,30
125	160	0,39
150	188	0,52
160	190	0,52
200	235	0,78

Ordering example

Product	KSU	160
Dimension Ød		

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Exhaust valve

KSU

Technical data

Air flow, q [l/s] and [m³/h], total pressure drop, Δp_t [Pa], and A-weighted sound power level, L_{WA} [dB], for different settings, a [mm], are shown in the graphs.

Sound power level, L_W [dB], in octave bands

is calculated as $L_{WA} + K_{ok}$. K_{ok} is found in the table below.

Ød nom	Valve mounted in	Centre frequency [Hz]							
		63	125	250	500	1K	2K	4K	8K
100	Duct	-6	-6	-3	-3	-4	-9	-13	-27
125	Duct	-7	-7	-6	-5	-8	-4	-12	-28
160	Duct	-3	-3	-7	-5	-2	-12	-16	-29
200	Duct	-5	-5	-7	-8	-2	-9	-13	-30

Tolerance	±3	±2	±2	±2	±2	±2	±2	±3
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Sound attenuation, ΔL , [dB]

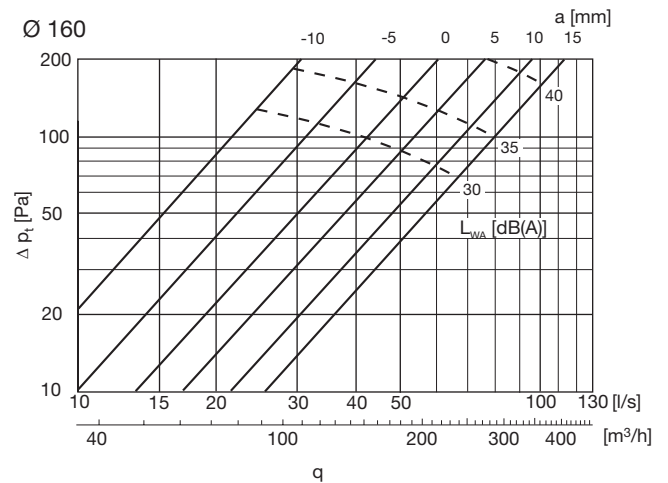
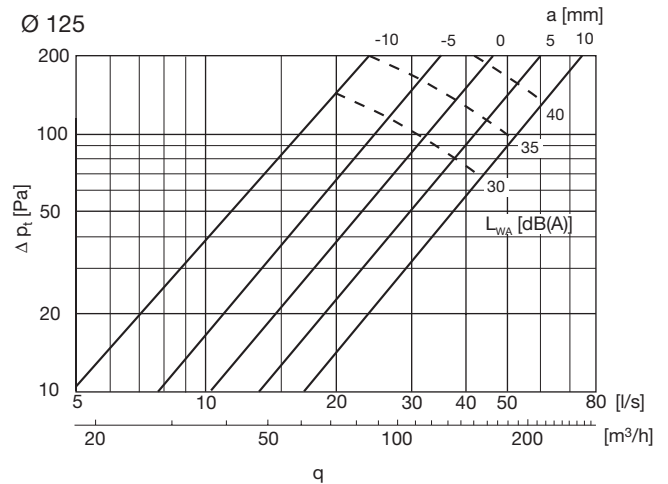
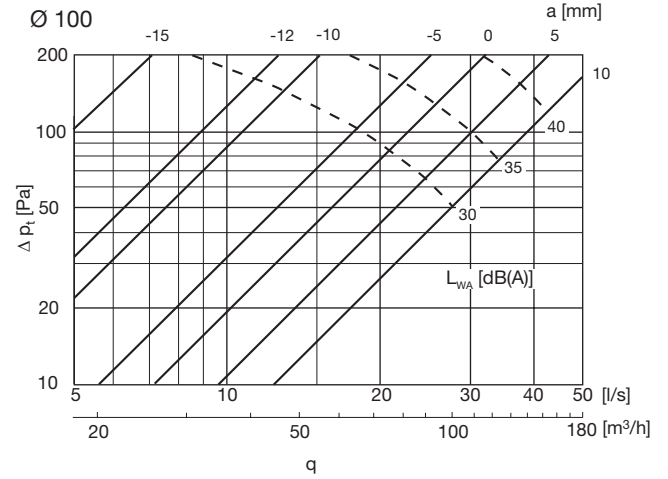
Ød nom	Valve mounted in	Centre frequency [Hz]							
		63	125	250	500	1K	2K	4K	8K
100	Duct	23	18	14	12	12	14	5	6
125	Duct	21	17	12	11	12	11	7	6
160	Duct	19	14	12	11	11	14	5	7
200	Duct	15	13	11	11	13	12	7	7

Tolerance	±6	±3	±2	±2	±2	±2	±2	±3
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Measurement of air flow

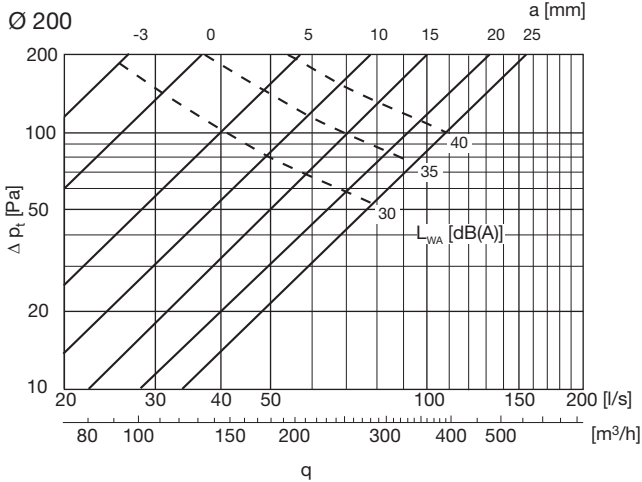
Data is available in a separate brochure.

xx



Exhaust valve

KSU



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Valve and fire damper

KSUB



Description

Valve and fire damper for exhaust air. Is used to prevent spreading of fire and smoke into duct systems. A spring loaded melting fuse shuts the valve when the temperature exceeds +70° C. Bayonet holders connect to socket VRGU, VRGL or VRGM. Socket VRGL is as standard delivered together with KSUB. This case is shown in the ordering example below. If socket VRGU or VRGM is wanted instead this socket has to be specified in the type field. The product holds a Swedish type approval with number 0901. Certification body is Swedcert.

Materials and finish

Material
Painted galvanized sheet metal.

Colour
White RAL 9010, gloss 70, equivalent to NCS S 0502 Y.

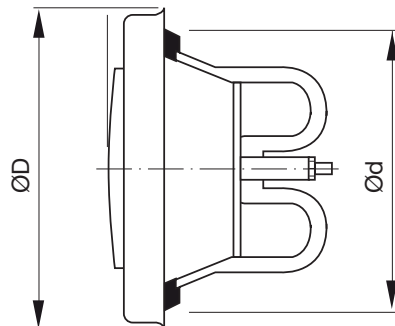
Maintenance

The visible parts can be wiped with a damp cloth.

Ordering example

Product	KSUB	125
Dimension Ød		

Dimensions



Ød nom	ØD mm	m kg
100	130	0,32
125	160	0,42
150	188	0,56
160	190	0,56
200	235	0,81

Fire class without protective distance

Ød nom	Fire class
100-200	E 30

Fire class with protective distance

The valve's surface may not be altered, e.g. by painting.

Ød nom	Fire class	Protective distance to:		
		Evacuating person 3 kW/m ² mm	Combustible materials 10 kW/m ² mm	30 kW/m ² mm
100	EI 15	100	10	10
	EI 30	150	40	10
125	EI 15	150	10	10
	EI 30	150	50	10
150	EI 15	150	10	10
	EI 30	200	60	10
160	EI 15	150	10	10
	EI 30	200	60	10
200	EI 15	200	20	10
	EI 30	250	70	10

Valve and fire damper

KSUB

Technical data

Air flow, q [l/s] and [m³/h], total pressure drop, Δp_t [Pa], and A-weighted sound power level, L_{WA} [dB], for different settings, a [mm], are shown in the graphs.

Sound power level, L_W [dB], in octave bands

is calculated as $L_{WA} + K_{ok}$. K_{ok} is found in the table below.

Ød nom	Valve mounted in	Centre frequency [Hz]							
		63	125	250	500	1K	2K	4K	8K
100	Duct	-	-2	-5	-5	-3	-8	-12	-26
125	Duct	-	-7	-7	-7	-6	-4	-11	-28
160	Duct	-	-4	-7	-5	-2	-11	-15	-29
200	Duct	-	-3	-7	-8	-1	-12	-16	-33

Tolerance	-	±3	±2	±2	±2	±2	±2	±2	±3
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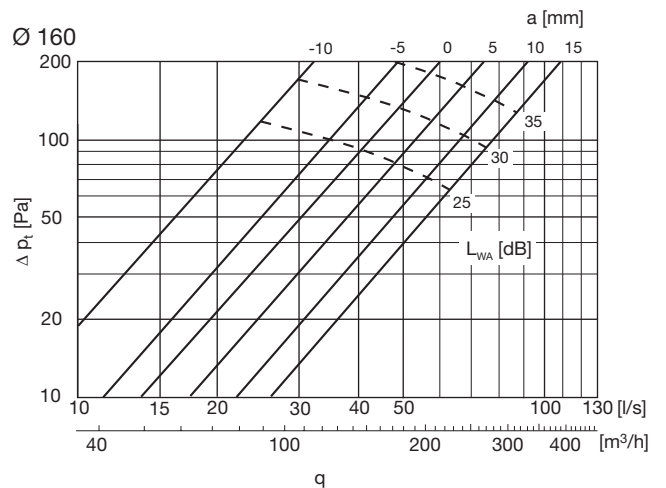
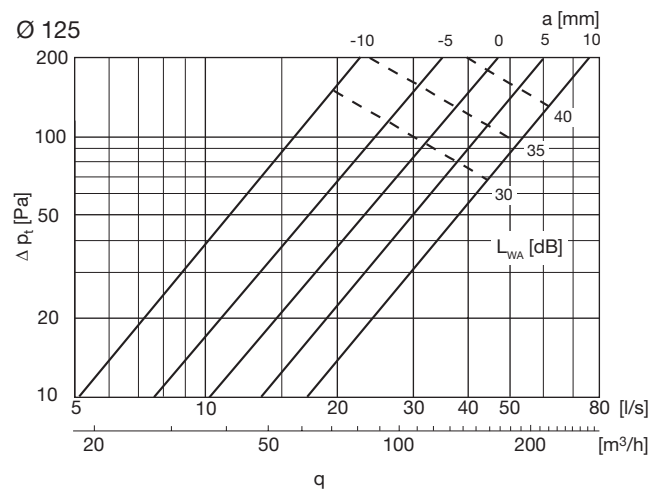
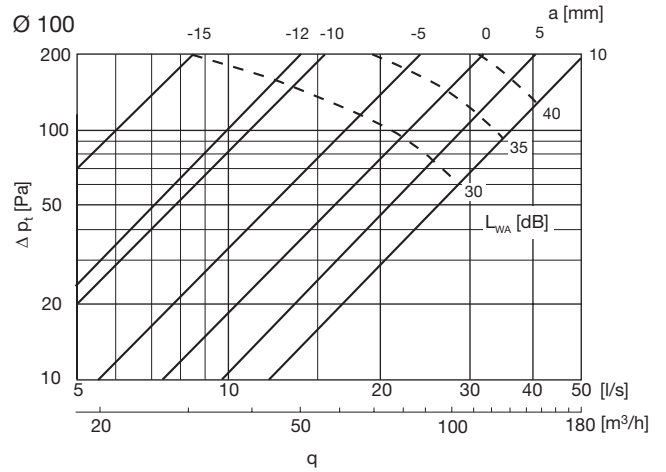
Sound attenuation, ΔL , [dB]

Ød nom	Valve mounted in	Setting a [mm]	Centre frequency [Hz]							
			63	125	250	500	1K	2K	4K	8K
100	Duct	-10	22	19	16	16	16	18	9	9
		0	22	18	13	12	12	13	6	7
		10	22	17	12	9	8	11	4	6
125	Duct	-10	21	18	15	14	15	14	10	7
		0	19	17	12	11	11	10	6	5
		10	20	16	10	9	9	8	5	5
160	Duct	-10	19	16	14	14	14	16	8	8
		0	18	14	11	11	11	13	5	7
		10	18	14	10	9	9	11	4	6
200	Duct	0	14	12	11	10	12	12	7	7
		10	13	11	8	8	9	10	6	6

Tolerance	±6	±3	±2	±2	±2	±2	±2	±2	±3
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Measurement of air flow

Data is available in a separate brochure.

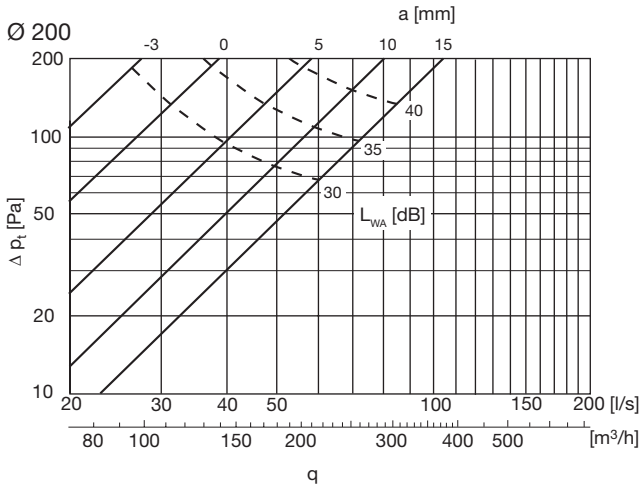


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Valve and fire damper

KSUB

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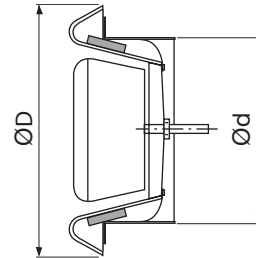


Valve

KPF



Dimensions



Description

Valve for exhaust air.
Designed for wall or ceiling mounting.
Flat spring holders connect to duct.

Materials and finish

Material
Plastic.

Colour
White RAL 9010.

Ød nom	ØD mm	m kg
80	114	0,07
100	138	0,09
125	164	0,11
160	190	0,24
200	246	0,33

Ordering example



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- 17
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Valve

KPF

Technical data

Air flow, q [l/s] and [m³/h], total pressure drop, Δp_t [Pa], and A-weighted sound power level, L_{WA} [dB], for different settings, n [number of opening turns], are shown in the graphs.

Sound power level, L_W [dB], in octave bands

is calculated as $L_{WA} + K_{ok}$. K_{ok} is found in the table below.

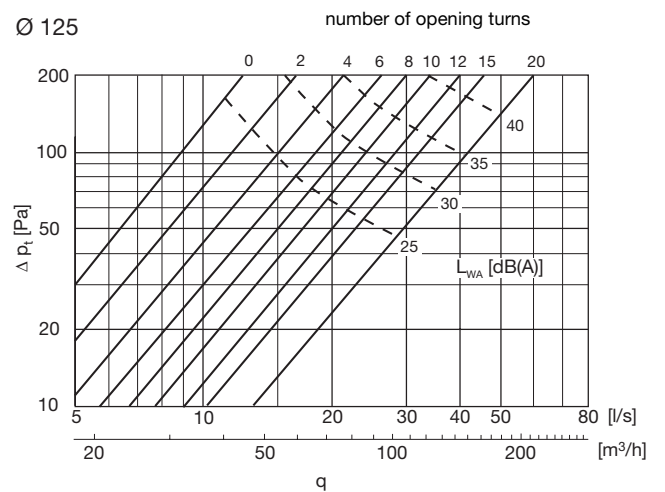
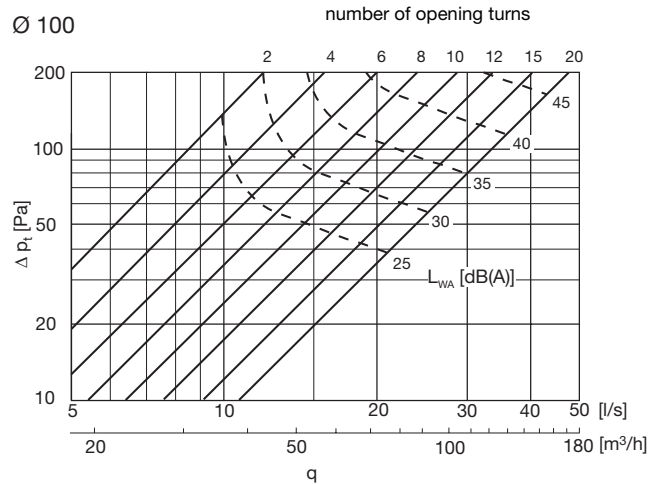
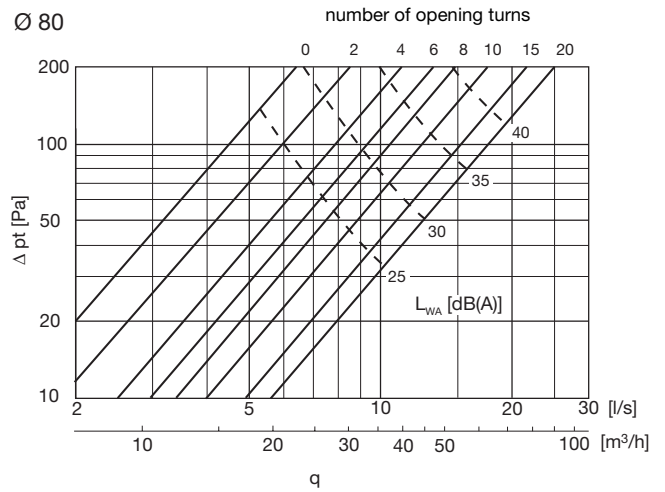
Ød nom	Valve mounted in	Centre frequency [Hz]							
		63	125	250	500	1K	2K	4K	8K
80	Duct	-12	-11	-9	-8	-5	-6	-9	-16
100	Duct	-11	-10	-10	-8	-6	-5	-8	-15
125	Duct	-10	-9	-7	-8	-6	-5	-8	-17
160	Duct	-3	-2	-3	-5	-3	-8	-13	-22
200	Duct	-3	-2	0	-4	-5	-8	-14	-22

Sound attenuation, ΔL , [dB]

Ød nom	Valve mounted in	Centre frequency [Hz]							
		63	125	250	500	1K	2K	4K	8K
80	Duct	23	23	16	15	13	10	6	9
100	Duct	22	21	15	13	11	10	6	9
125	Duct	21	19	13	11	10	10	7	9
160	Duct	20	16	12	10	9	10	8	8
200	Duct	17	12	7	5	4	4	7	5

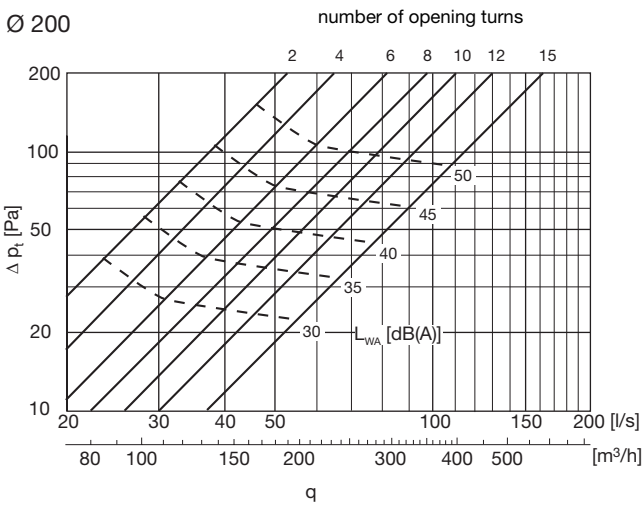
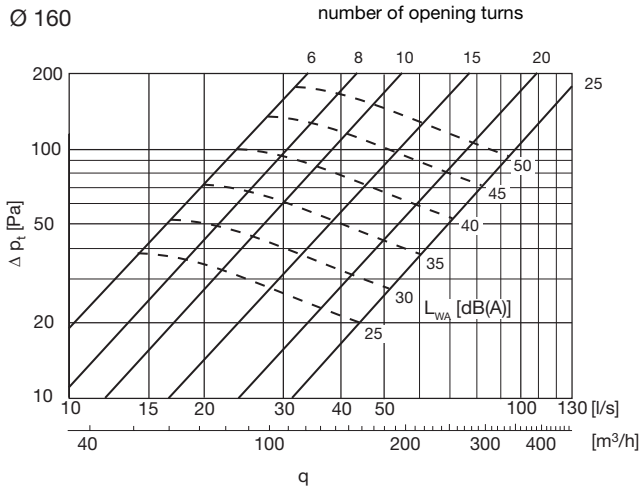
Measurement of air flow

Data is available in a separate brochure.



Valve

KPF



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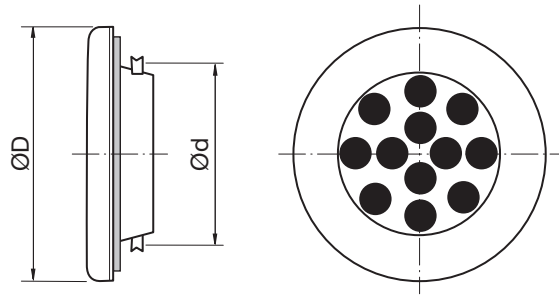
Valve

KDPF

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Dimensions



Ød nom	ØD mm	m kg
100	133	0,06

Description

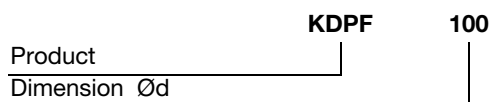
Valve for exhaust air.
Designed for wall or ceiling mounting.
Flat spring holders connect to socket VRGU, VRGL, VRGM, VRFU or VRFM.

Materials and finish

Material
Plastic.

Colour
White RAL 9010

Ordering example



Valve

KDPF

Technical data

Air flow, q [l/s] and [m³/h], total pressure drop, Δp_t [Pa], and A-weighted sound power level, L_{WA} [dB], for different settings, n [number of open holes], are shown in the graphs.

Measurement of air flow

Data is available in a separate brochure.

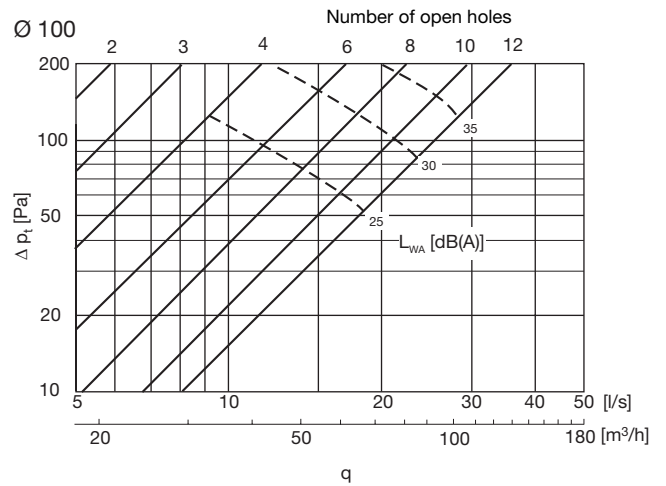
Sound power level, L_W [dB], in octave bands

is calculated as $L_{WA} + K_{ok}$. K_{ok} is found in the table below.

Ød nom	Diffuser mounted in	Centre frequency [Hz]							
		63	125	250	500	1K	2K	4K	8K
100	Duct	-	-5	-4	-3	-3	-8	-13	-16

Sound attenuation, ΔL , [dB]

Ød nom	Valve mounted in	Number of open holes	Centre frequency [Hz]							
			63	125	250	500	1K	2K	4K	8K
100	Duct	2	-	23	22	24	18	16	15	10
		6	-	19	16	15	12	8	10	7
		12	-	19	15	12	9	5	5	3



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Cover

TLO

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Description

Cover or access door.
 Designed for wall or ceiling mounting.
 Spring holders connect to socket VRFU, VRFM or VRR.

Materials and finish

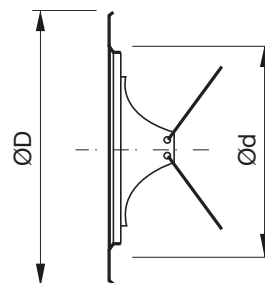
Material
 Painted galvanized sheet metal.

Colour
 White RAL 9010, gloss 70, equivalent to NCS S 0502 Y.

Maintenance

The visible parts can be wiped with a damp cloth.

Dimensions



Ød nom	ØD mm	m kg
100	140	0,13
125	170	0,20
160	200	0,28

Ordering example

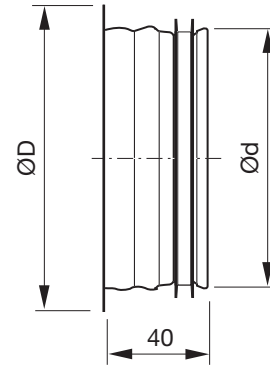


Socket

VRFU



Dimensions



Ød nom	ØD mm	m kg
100	125	0,09
125	150	0,11
160	185	0,14

Description

Socket with groove for unit with spring holder.
 Supplied with Safe gasket in the far end.
 Connects to duct.

Materials and finish

Material

Galvanized sheet metal.

Maintenance

The visible parts can be wiped with a damp cloth.

Ordering example



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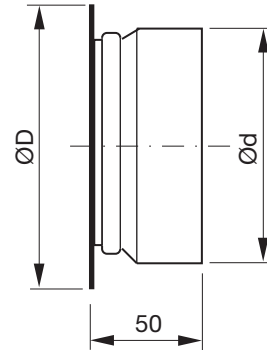
Socket

VRFM

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- 17
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Dimensions



Ød nom	ØD mm	m kg
100	125	0,09
125	150	0,12
160	185	0,16

Description

Socket with groove for unit with spring holder.
Has female connection in the far end.
Connects to fitting.

Materials and finish

Material
Galvanized sheet metal.

Maintenance

The visible parts can be wiped with a damp cloth.

Ordering example



Socket

VRGU



Description

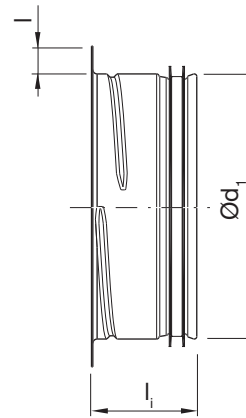
Socket with thread for unit with bayonet holder.
Supplied with Safe gasket in the far end.
Connects to duct.

Materials and finish

Material

Galvanized sheet metal.

Dimensions



Ød ₁ nom	l mm	l _i mm	m kg
80	12-14	50	0,08
100	12-14	51	0,07
125	12-14	48	0,11
160	12-14	45	0,16
200	12-20	50	0,21

Ordering example

Product	VRGU	160
Dimension Ød ₁		

Socket

VRGL

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Description

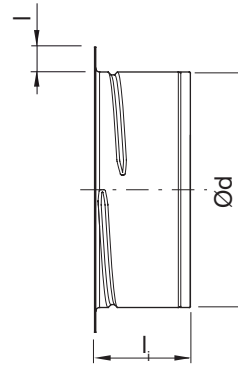
Socket with thread for unit with bayonet holder.
 Supplied without any gasket.
 Connects to duct.

Materials and finish

Material

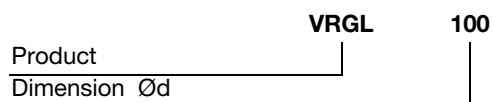
Galvanized sheet metal.

Dimensions



Ød nom	l mm	li mm	m kg
80	12-14	50	0,07
100	12-14	51	0,06
125	12-14	48	0,10
150	12-14	42	0,14
160	12-14	45	0,15
200	12-20	50	0,18

Ordering example



Socket

VRGM



Description

Socket with thread for unit with bayonet holder.
Has female connection in the far end.
Connects to fitting.

Materials and finish

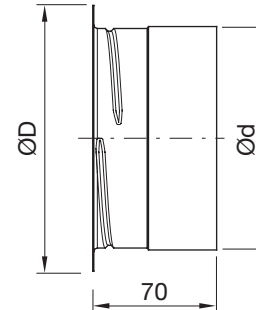
Material

Galvanized sheet metal.

Maintenance

The visible parts can be wiped with a damp cloth.

Dimensions



Ød nom	ØD mm	m kg
100	125	0,11
125	150	0,14
150	175	0,17
160	185	0,19
200	225	0,25

Ordering example

Product	VRGM	125
Dimension Ød		

Cover socket

VRR

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Description

Cover socket with groove for unit with spring holder. Are used where older valve types are replaced.

Materials and finish

Material

Painted sheet metal.

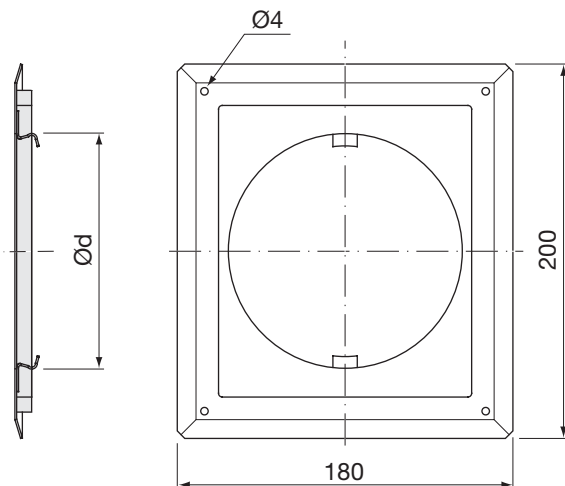
Colour

White RAL 9010, gloss 70, equivalent to NCS S 0502 Y.

Maintenance

The visible parts can be wiped with a damp cloth.

Dimensions



Ød nom	m kg
100	0,23
125	0,20

Ordering example



Valve adjustment kit

VAK



Description

VAK is a kit of three tools for adjustment of valves.

The kit consists of:

- a a bent pipe for measuring of adjustment pressure for valves with a cone,
- b a straight lance for measuring of adjustment pressure for valves with a gap and
- c an adjustable combination tool for measuring the position of the cone or the size of the gap.

Maintenance

The visible parts can be wiped with a damp cloth.

Advantages

Materials and finish

Data not yet available.

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