



# Lindab InDomo

Building Integrated Duct Systems



# Introduction to Lindab **InDomo**

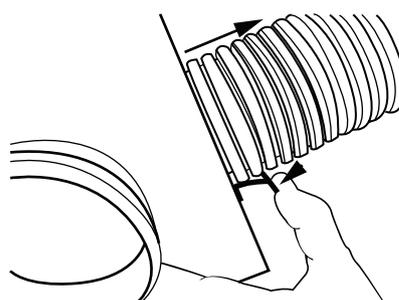
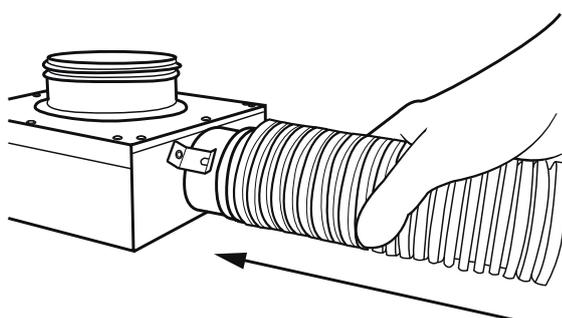
We are facing one of the toughest challenges in decades. New buildings and existing homes must minimize their use of energy. In less than 10 years all new build homes are supposed to use almost no energy at all according to EU directives. This means the buildings must be better insulated and more air tight. It also means that existing homes must be upgraded, but when speaking about low energy houses it is equally important to think about ventilation and a good indoor climate.

The Lindab group was established in 1959, and we are one of the world's leading ventilation suppliers. We can offer you a wide range of quality components and solutions for residential ventilation, all developed and tested by our in-house R&D departments, and backed by our IT solutions and highly skilled staff - so if you choose Lindab as your partner you will be gaining access to Lindab's 50 years plus of experience and know-how.

Lindab **InDomo** range is a system of products, suitable for integration into domestic buildings. All circular plenum connections are supplied with gaskets as used on the renowned Lindab Safe system, which fulfils the toughest demands for air tightness. This ensures that the ducting can be interconnected quickly and easily whilst leaving you safe in the knowledge that undesired leakage will be minimalized.

All manifolds and plenum boxes have a Smart Lock function which allows Lindab's LFPE semi-flexible duct to be attached with a simple push and click and can be removed quickly and simply without the need for tools and with no damage to either the flexible duct or the plenum/manifold. If noise sensitivity is an issue then low levels of noise are ensured with our optional specially developed silencers, these products, together with other items from Lindab's extensive range such as dampers, silencers, valves and grilles, provide you with a complete high quality system for residential ventilation.

## Lindab's Smart Lock



Simply Push and "Click" to safely lock the flexible ducting in place safe in the knowledge that Lindab's gasket system will minimise leakage without the need for tapes or sealant.

To remove or reposition the flexible duct simply pull back on the Locking Tab and the duct can simply be detached without damage to either the duct or the spigot.

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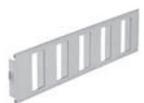
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# Manifold

# MCU



## Description

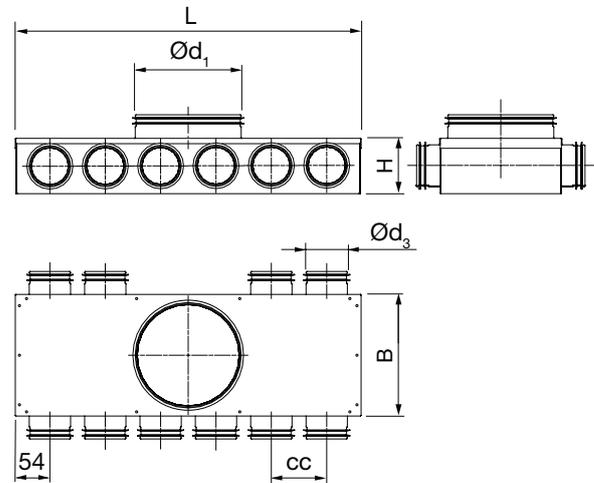
The manifold can be used for both supply and exhaust air. It is available in several types and dimensions. All types have Ø 63 or Ø 80 mm studs with Lindab Safe sealings for connections of SR spiral-seamed ducts or semiflexible ducts LFPE. Use the transition piece RCFU, with integrated Smart Lock function, to connect the LFPE 76/90-dimension to InDomo manifolds and plenum boxes. The manifolds are designed for floor installation but can be used everywhere, also in the ceiling for example.

The smart lock function allows you to fasten LFPE effortlessly to the Safe studs.

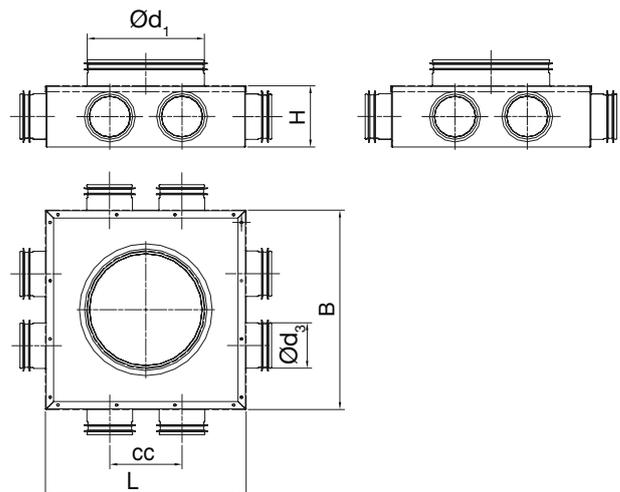
Two turnable anchor plates, placed on the bottom of the manifold, can be used for fixation.

Fulfills air tightness class D.

## Dimensions

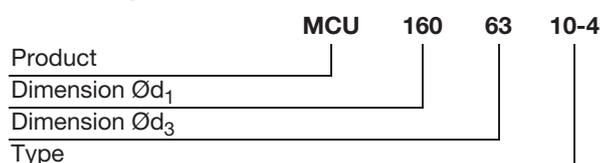


MCU 160 63 8, 160 80-8, 200 80-8



Ød <sub>1</sub> nom	Ød <sub>3</sub> nom	Type	L mm	B mm	H mm	cc mm	m kg
125	63	6-0	520	185	88	83	2,30
160	63	6-4	520	185	88	83	2,30
160	63	8	275	275	88	98	1,80
160	63	10-4	852	185	88	83	3,40
160	80	6-0	622	185	108	100	2,41
160	80	8	275	275	108	115	1,76
160	80	8-0	822	185	108	100	3,08
200	80	8	275	275	108	115	1,75
200	80	10-0	1022	221	108	100	4,19

## Ordering example

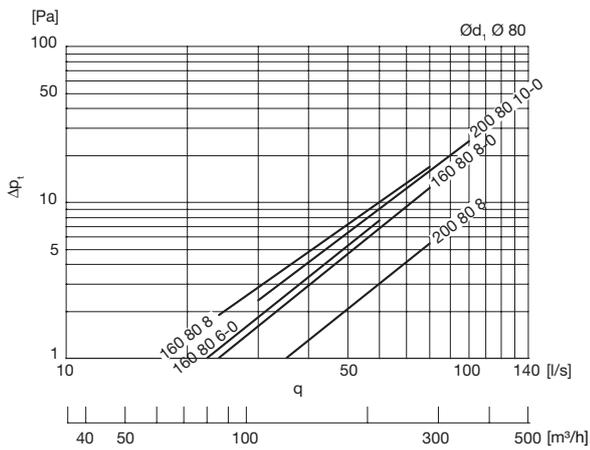
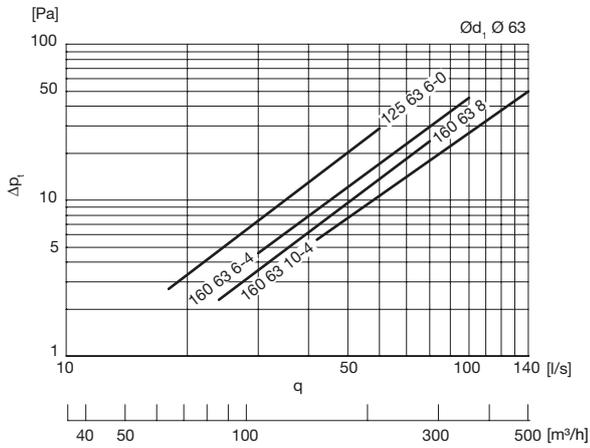


# Manifold

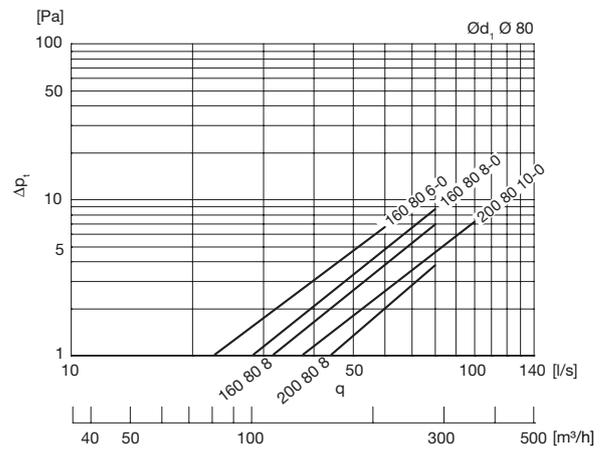
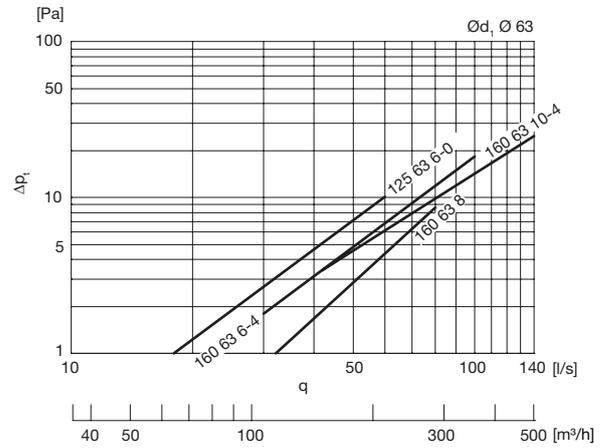
# MCU

## Technical data

### Supply



### Exhaust



# Manifold

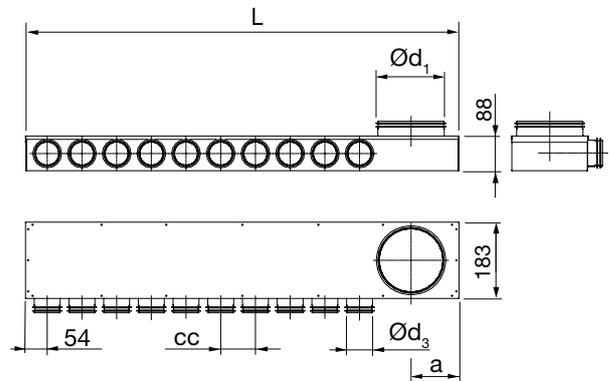
# MRU



## Description

The manifold can be used for both supply and exhaust air. It is available in several types and dimensions. All types have  $\text{Ø} 63$  mm studs with Lindab Safe sealings for connections of either SR 63 spiral-seamed ducts or semiflexible ducts LFPE. The manifold is designed for floor installation but can be used everywhere, also in the ceiling for example. The Smart lock function allows you to fasten semiflexible ducts effortlessly to the  $\text{Ø} 63$  connections. Two turnable anchor plates, placed on the bottom of the manifold, can be used for fixation. Fulfills air tightness class D.

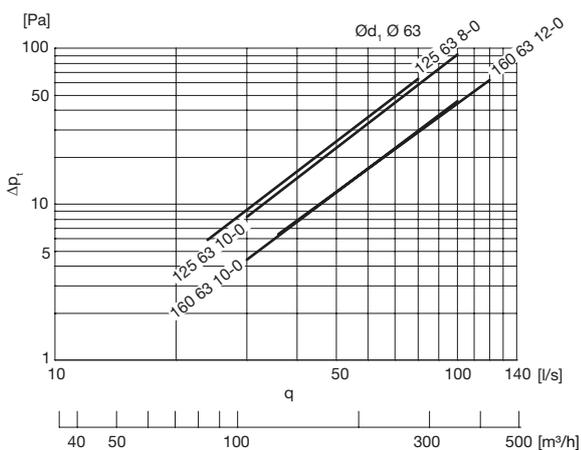
## Dimensions



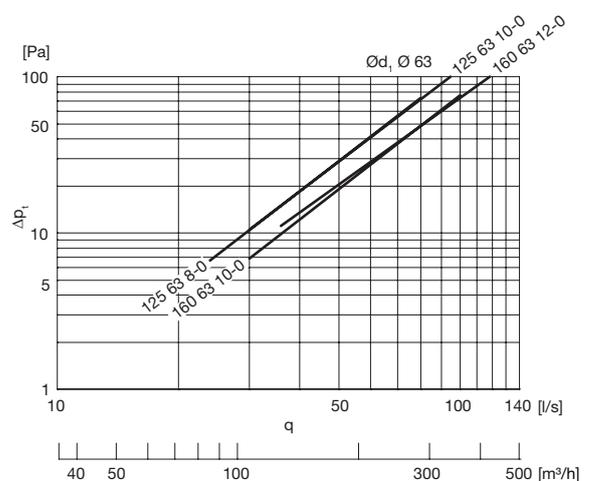
$\text{Ø}d_1$ nom	$\text{Ø}d_3$ nom	Type	L mm	cc mm	a mm	m kg
125	63	8-0	888	93	85	3,20
125	63	10-0	1072	93	85	3,90
160	63	10-0	1173	98	102	3,85
160	63	12-0	1293	93	102	4,50

## Technical data

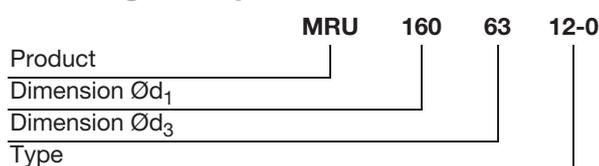
### Supply



### Exhaust



## Ordering example



# Manifold

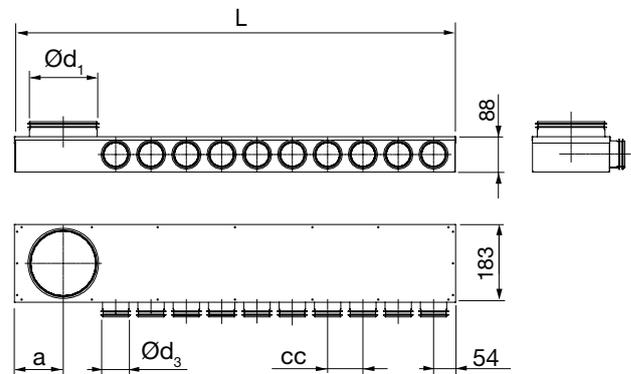
# MLU



## Description

The manifold can be used for both supply and exhaust air. It is available in several types and dimensions. All types have  $\text{\O} 63$  mm studs with Lindab Safe sealings for connections of either SR 63 spiral-seamed ducts or semiflexible ducts LFPE. The manifold is designed for floor installation but can be used everywhere, also in the ceiling for example. The Smart lock function allows you to fasten semiflexible ducts effortlessly to the  $\text{\O} 63$  connections. Two turnable anchor plates, placed on the bottom of the manifold, can be used for fixation. Fulfills air tightness class D.

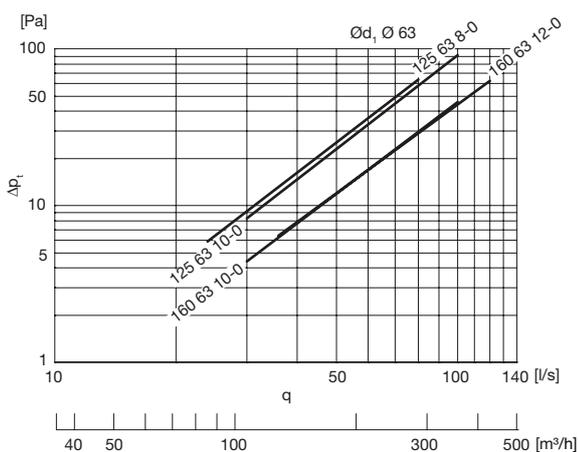
## Dimensions



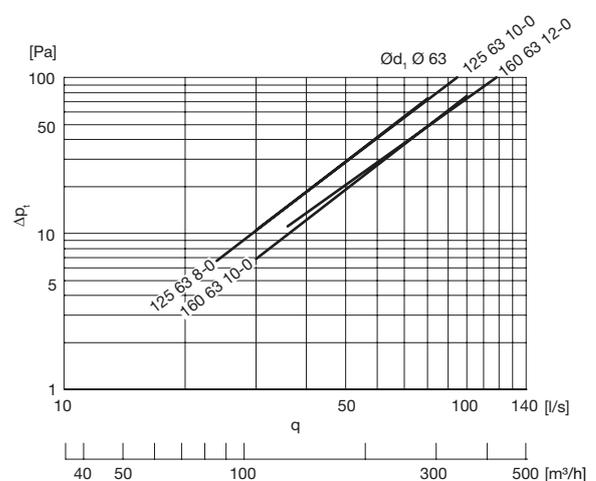
$\text{\O}d_1$ nom	$\text{\O}d_3$ nom	Type	L mm	cc mm	a mm	m kg
125	63	8-0	888	93	85	3,20
125	63	10-0	1072	93	85	3,90
160	63	10-0	1173	98	102	3,85
160	63	12-0	1193	93	102	4,50

## Technical data

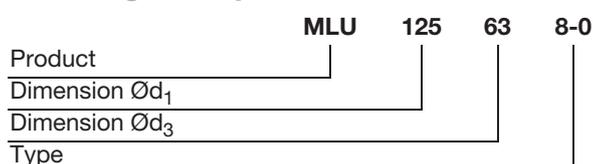
### Supply



### Exhaust



## Ordering example



# Manifold

MHU



## Description

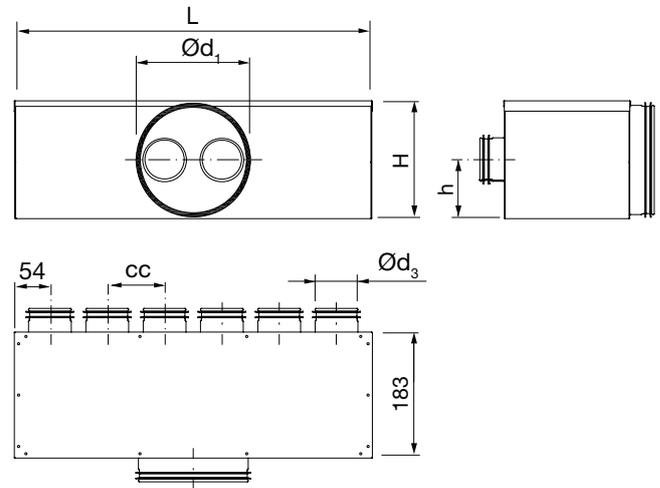
The manifold can be used for both supply and exhaust air. It is available in several types and dimensions. All types have  $\varnothing 63$  or  $\varnothing 80$  mm studs with Lindab Safe sealings for connections of SR spiral-seamed ducts or semiflexible ducts LFPE. Use the transition piece RCFU, with integrated Smart Lock function, to connect the LFPE 76/90-dimension to InDomo manifolds and plenum boxes. The manifolds are designed for floor installation but can be used everywhere, also in the ceiling for example.

The smart lock function allows you to fasten LFPE effortlessly to the Safe studs.

Two turnable anchor plates, placed on the bottom of the manifold, can be used for fixation.

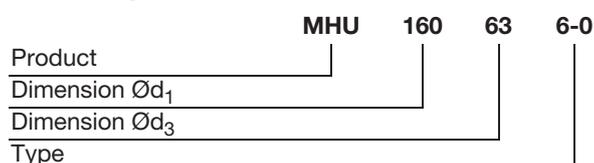
Fulfills air tightness class D.

## Dimensions



$\varnothing d_1$ nom	$\varnothing d_3$ nom	Type	L mm	B mm	H mm	cc mm	m kg
100	63	3-0	270	138	85	83	1,50
125	63	3-0	270	138	85	83	1,40
160	63	6-0	518	173	85	83	2,80
160	63	8-0	685	173	85	83	3,30
160	80	6-0	620	173	85	100	3,00
160	80	8-0	820	173	85	100	4,00
160	80	10-0	1020	213	105	100	5,00

## Ordering example

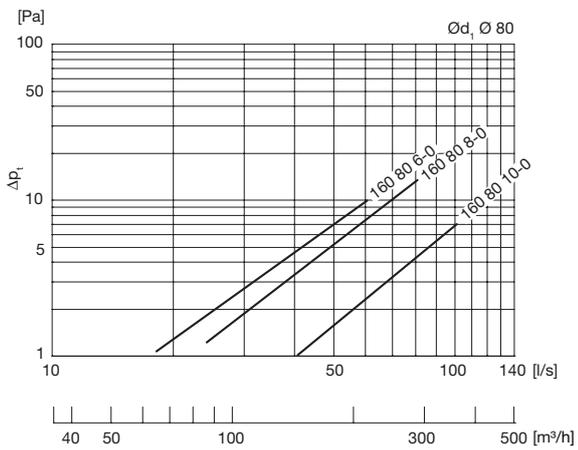
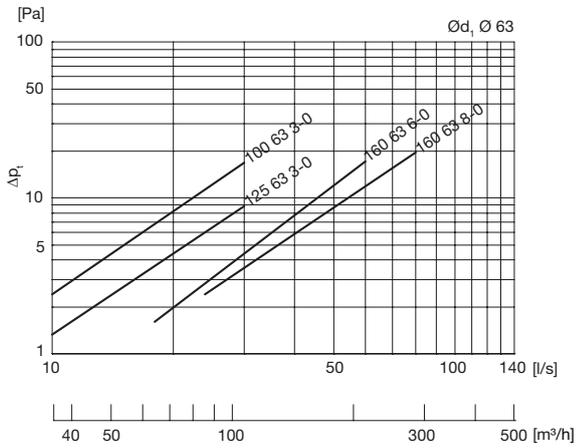


# Manifold

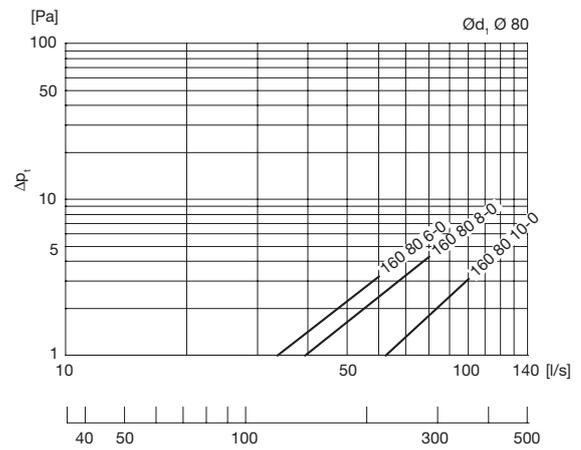
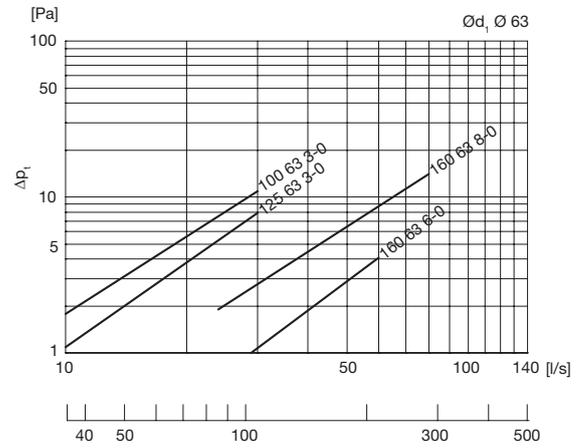
# MHU

## Technical data

### Supply



### Exhaust



# Manifold

# MCWU



## Description

Manifold to connect vertical ducts to the horizontal ducts in the casting-in screed.

Can be used for exhaust air as well as for supply air.

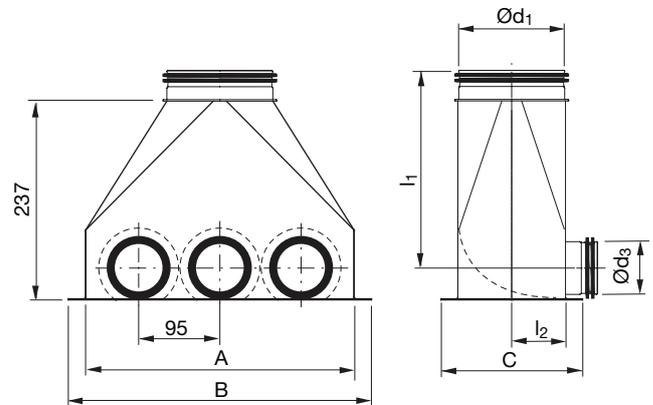
The internal pressure drop is minimized due to the internal turning vane.

Easy to clean in connection with T-piece and cover (TCPU+EPF), which gives access to the duct system up to the air handling unit.

The Smart lock function allows you to fasten semiflexible ducts LFPE effortlessly to the Ø 63 connections.

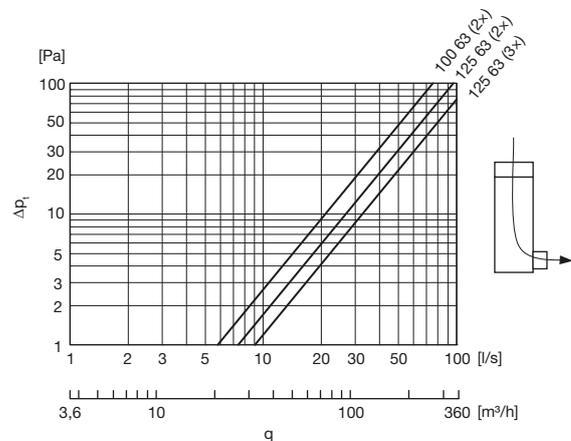
Fulfills air tightness class D.

## Dimensions

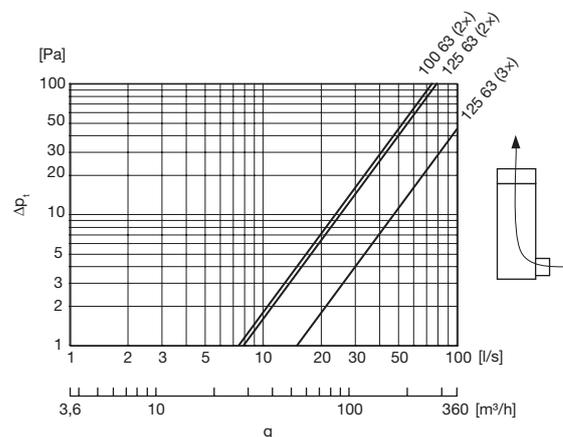


Ød <sub>1</sub> nom	Ød <sub>3</sub> nom	Studs pcs	l <sub>1</sub> mm	l <sub>2</sub> mm	A mm	B mm	C mm	m kg
100	63	263	199	53	205	250	150	0,99
125	63	263	199	64	205	250	173	1,11
125	63	363	199	64	295	340	173	1,52

## Distribution (supply air)



## Accumulation (exhaust air)



## Ordering example

Product	MCWU	100	63	2
Dimension Ød <sub>1</sub>				
Dimension Ød <sub>3</sub>				
Number of Ø 63 in-/outlets				

# Plenum box floor

# PGFU



## Description

The plenum box is intended for supply and exhaust air.

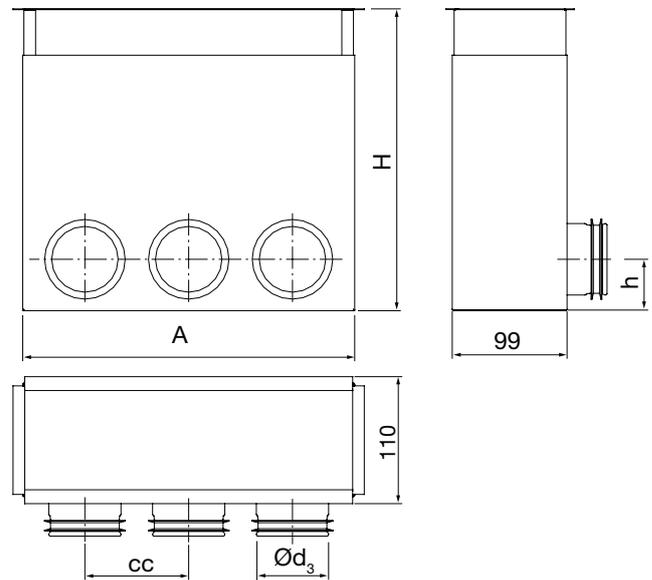
It is intended to accommodate grilles B3020, which can be supplied with the regulating damper GAT.

It is designed for floor installation but can be used at other locations as well. It is telescopic for flexibility at installation.

All types have Ø 63 or 80 mm studs with Lindab safe sealings for connections of SR spiral-seamed ducts or semiflexible ducts LFPE. Use the transition piece RCFU, with Smart Lock function, to connect the LFPE 76/90-dimension to InDomo manifolds and plenum boxes. The smart lock function allows you to fasten LFPE effortlessly to the Safe studs.

The shown pressure drop is for the box including grille B 3020 and regulating damper GAT, set in open position.

## Dimensions



Dimension	Ød <sub>3</sub> nom	# of Ø63/80	A mm	H mm	h mm	cc mm	m kg
2010	63	2	184	200-345	44	92	1,10
3010	63	3	285	200-345	44	89	1,50
2010	80	1	184	200-345	56	-	1,00
3010	80	1	285	200-345	56	-	1,50
3010	80	2	285	200-345	56	126	1,50

## Ordering example

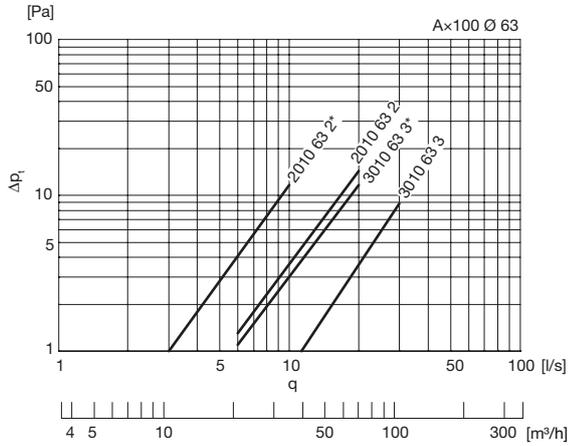
	<b>PGFU</b>	<b>2010</b>	<b>63</b>	<b>2</b>
Product				
Dimension Ød				
Dimension Ød <sub>3</sub>				
Number of Ø 63/80 in-/outlets				

# Plenum box floor

PGFU

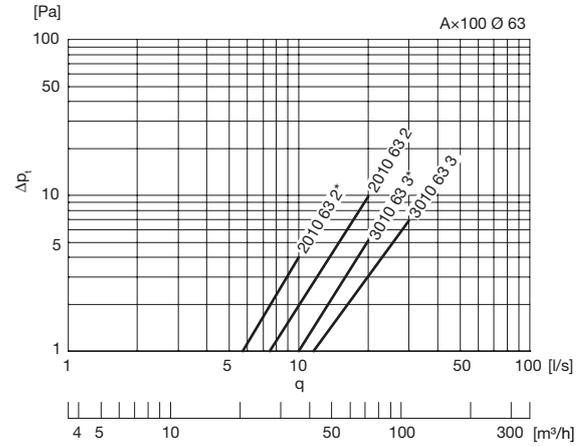
## Technical data

### Supply

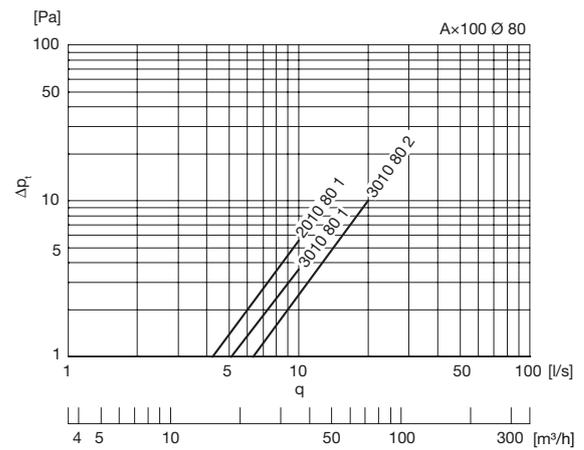
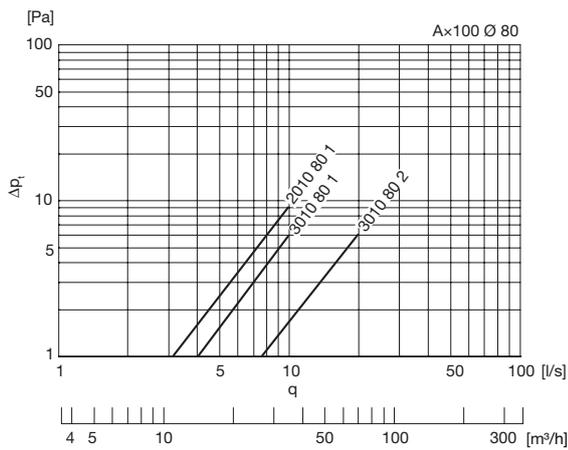


\* One of the Ø 63 is capped.

### Exhaust



\* One of the Ø 63 is capped.



# Plenum box wall

# PGWU



## Description

The plenum box is intended for supply and exhaust air.

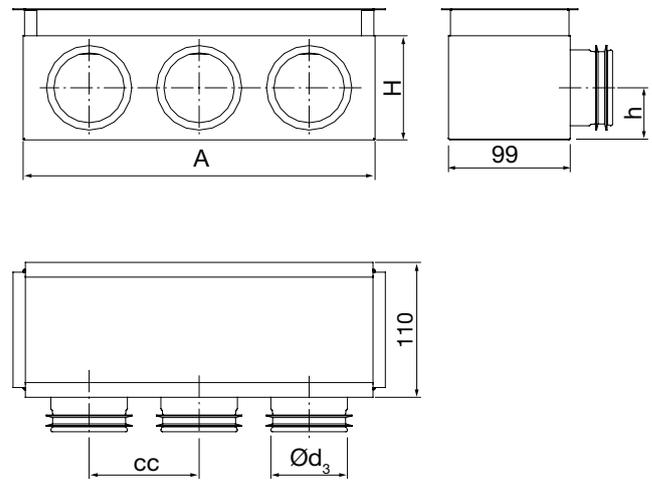
It is intended to accommodate sliding damper SKG.

It is designed for wall installation but can be used at other locations as well. It is telescopic for flexibility at installation.

All types have Ø 63 or Ø 80 mm studs with Lindab safe sealings for connections of SR spiral-seamed ducts or semiflexible ducts LFPE. Use the transition piece RCFU, with Smart Lock function, to connect the LFPE 76/90-dimension to InDomo manifolds and plenum boxes. The smart lock function allows you to fasten LFPE effortlessly to the Safe studs.

The shown pressure drop is for the box including grille B 3020 and regulating sliding damper SKG set in open position.

## Dimensions



Dimension	Ød <sub>3</sub> nom	# of Ø63/80	A mm	H mm	h mm	cc mm	m kg
2010	63	2	187	85-110	43	92	0,50
3010	63	3	285	85-110	43	89	0,70
2010	80	1	187	105-125	53	-	0,56
3010	80	1	285	105-125	53	-	0,75
3010	80	2	285	105-125	53	126	0,78

## Ordering example

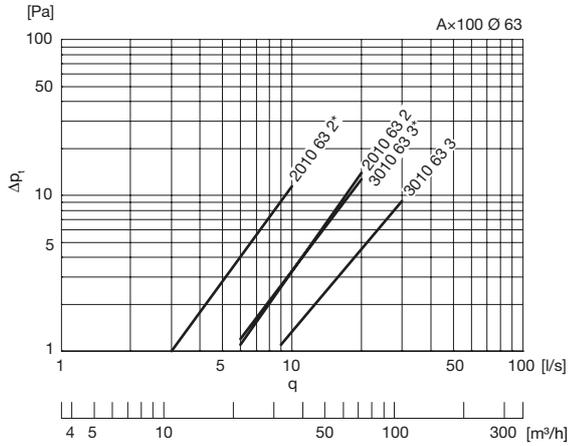
	<b>PGWU</b>	<b>2010</b>	<b>63</b>	<b>2</b>
Product				
Dimension Ød				
Dimension Ød <sub>3</sub>				
Number of Ø 63/80 in-/outlets				

# Plenum box wall

PGWU

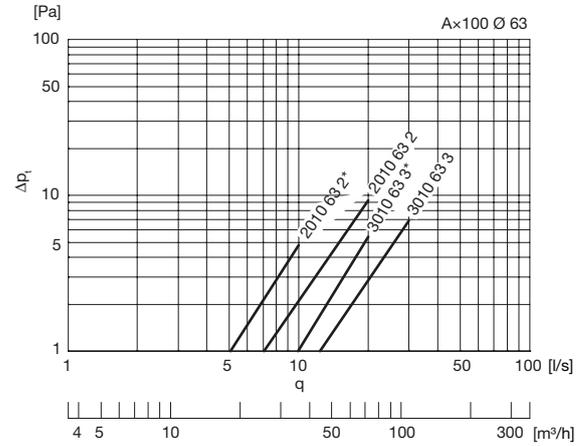
## Technical data

### Supply

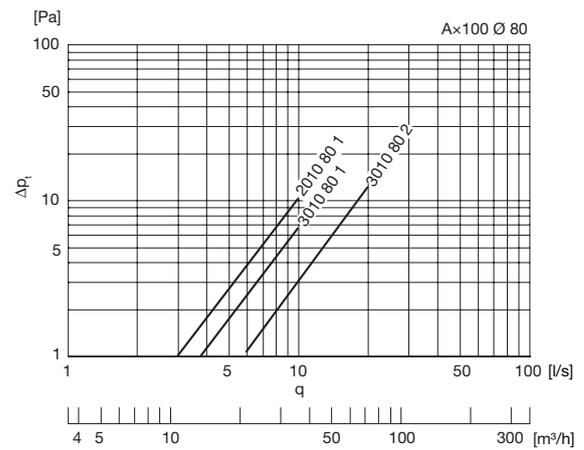
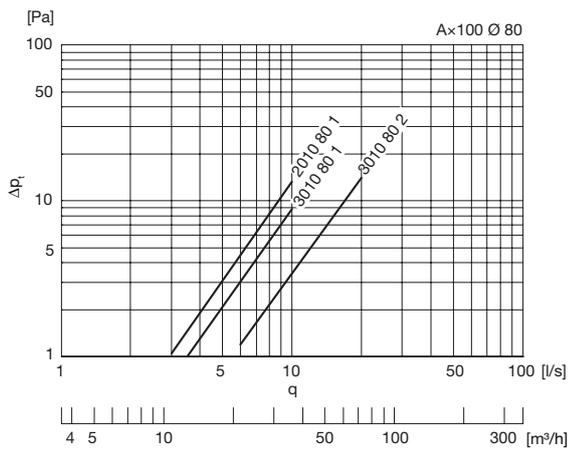


\* One of the Ø 63 is capped.

### Exhaust



\* One of the Ø 63 is capped.



# Plenum box wall

# PVWU



## Description

The plenum box is intended for supply and exhaust air.

It is intended to accommodate a damper.

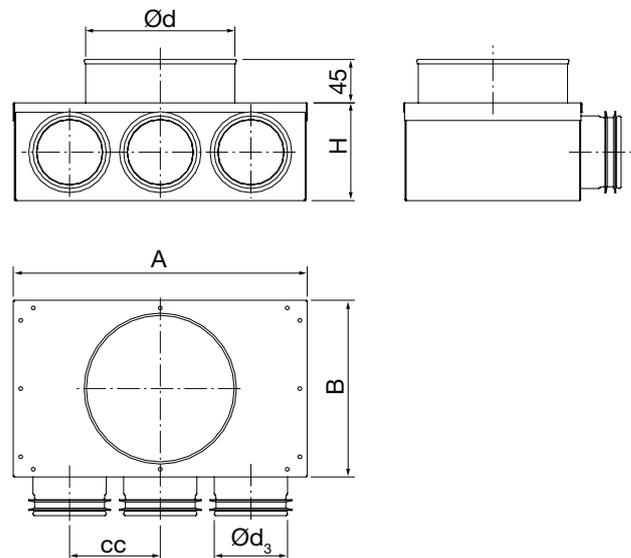
It is designed for wall installation but can be used at other locations as well.

All types have  $\varnothing 63$  or  $\varnothing 80$  mm studs with Lindab safe sealings for connections of SR spiral-seamed ducts or semiflexible ducts LFPE Use the transition piece RCFU, with Smart Lock function, to connect the LFPE 76/90-dimension to InDomo manifolds and plenum boxes. The smart lock function allows you to fasten LFPE effortlessly to the Safe studs. The smart lock function allows you to fasten FLPE effortlessly to the Safe studs.

Fulfills the requirements of air tightness class D.

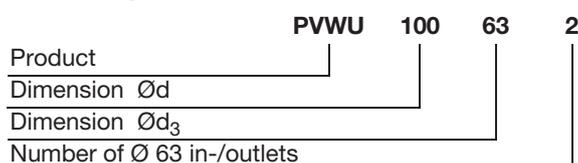
The shown pressure drop is for the box alone, which means that the pressure drop for the valve has to be added.

## Dimensions



$\varnothing d$ nom	$\varnothing d_3$ nom	# of $\varnothing 63$	A mm	B mm	H mm	cc mm	m kg
100	63	2	174	126	85	78	0,59
100	80	1	174	126	103	-	0,57
125	63	3	249	151	85	78	0,84
125	80	1	249	151	103	-	0,80
125	80	2	249	151	103	126	0,84

## Ordering example

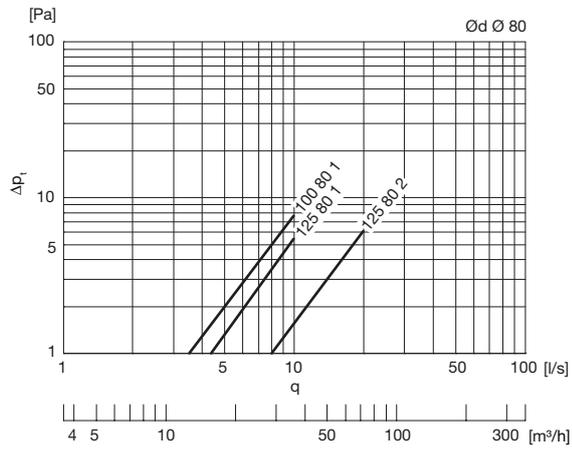
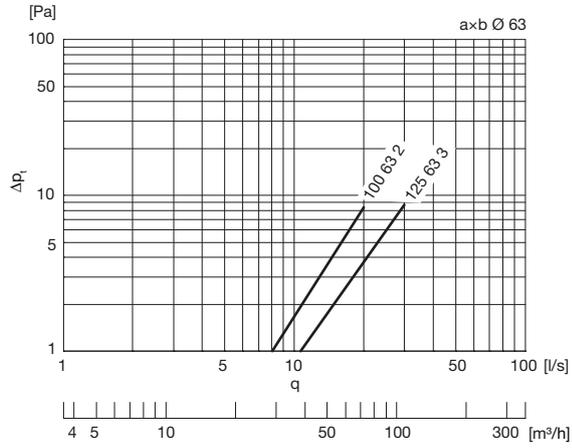


# Plenum box wall

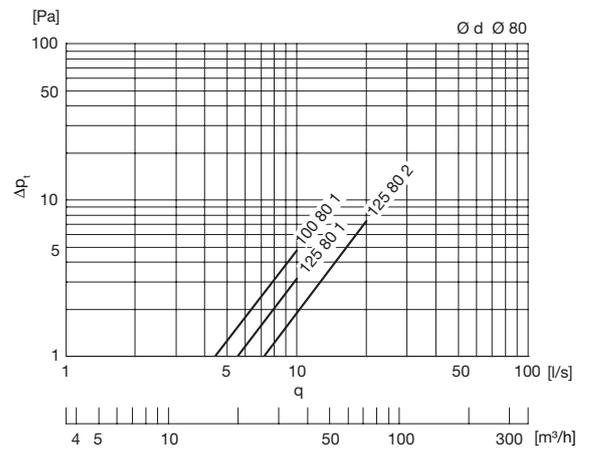
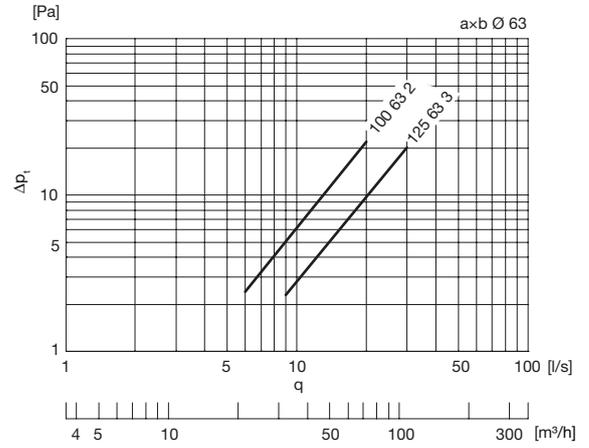
PWWU

## Technical data

### Supply



### Exhaust



# Plenum box

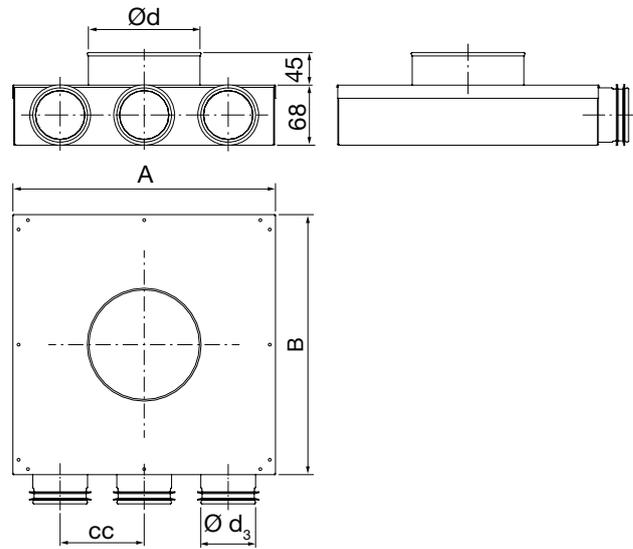
# PVCU



## Description

The plenum box is intended for supply and exhaust air. It is intended to accommodate a valve. It is designed for ceiling installation but can be used at other locations as well. All types have  $\varnothing 63$  mm studs with Lindab Safe sealings for connections of either SR 63 spiral-seamed duct or semiflexible duct LFPE. Each  $\varnothing 63$  connection is equipped with a clip to hold the semiflexible duct LFPE – Smart lock function. Fulfils the requirements for air tightness class D. The shown pressure drop is for the box alone, which means that the pressure drop for the valve has to be added.

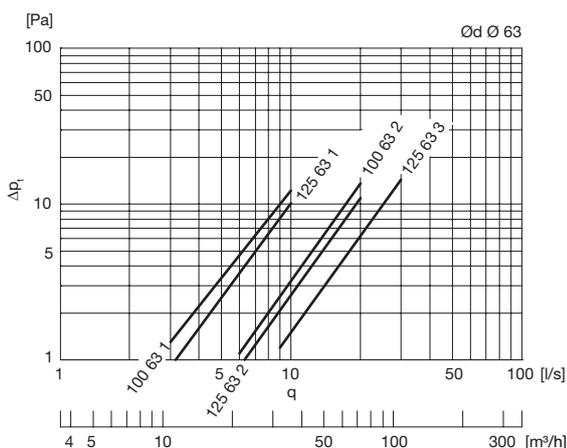
## Dimensions



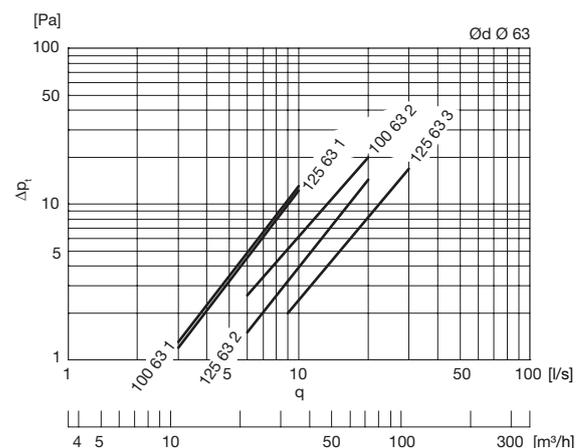
$\varnothing d$ nom	$\varnothing d_3$ nom	# of $\varnothing 63$	A mm	B mm	cc mm	m kg
100	63	1	184	184	95	0,66
100	63	2	206	206	95	0,80
125	63	1	184	184	95	0,66
125	63	2	206	206	95	0,80
125	63	3	297	297	95	1,36

## Technical data

### Supply



### Exhaust



## Ordering example

	<b>PVCU</b>	<b>100</b>	<b>63</b>	<b>2</b>
Product				
Dimension $\varnothing d_1$				
Dimension $\varnothing d_3$				
Number of $\varnothing 63$ in-/outlets				

# Clamping bracket

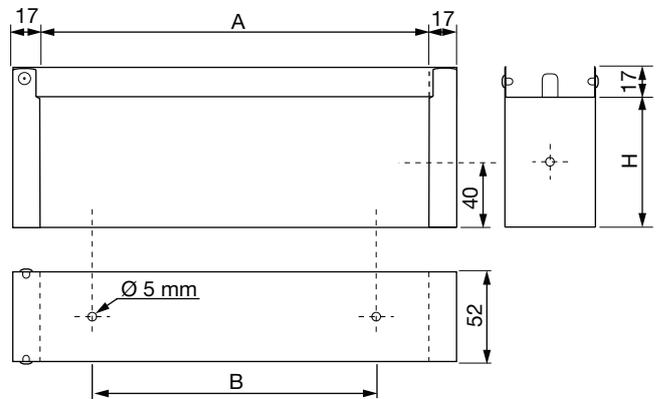
# FIKS



## Description

The clamping brackets FIKS are used for fixation of ducts in connection with mounting or embedment into the floor. There are two sizes for 2 and 3 ducts, respectively.

## Dimensions



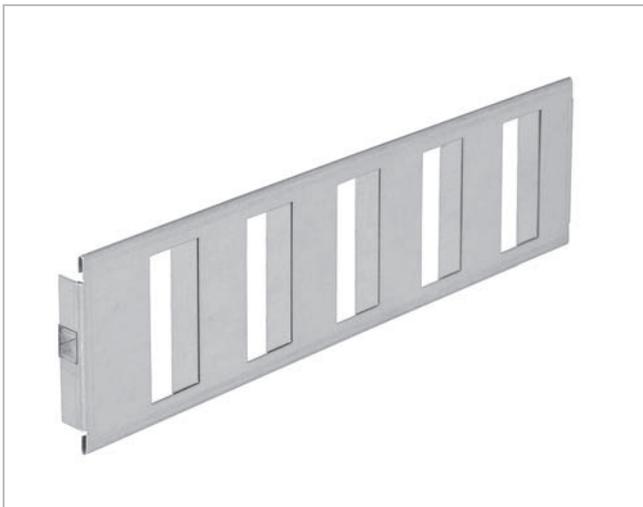
Type	A mm	B mm	H mm	Weight kg
FIKS 63 2	150	90	73	0,20
FIKS 63 3	250	165	73	0,30
FIKS 80 2	187	221	91	0,23
FIKS 80 3	280	314	91	0,29

## Ordering example

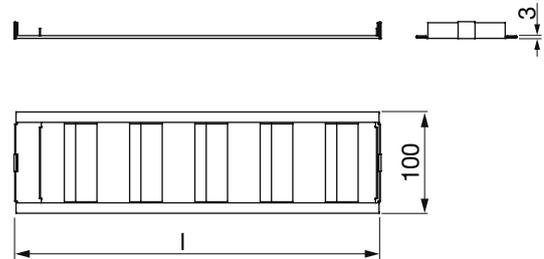
Product	FIKS 63	3
Number of ducts		

# Sliding damper

# SKG



## Dimensions



## Description

Low-built sliding damper for regulating the air volume in plenum box PGWU. It is attached on to the grille B 3020 with the two accompanied fastening clips.

Dimension	l mm	m kg
2010	182	0,11
3010	281	0,16

## Ordering example

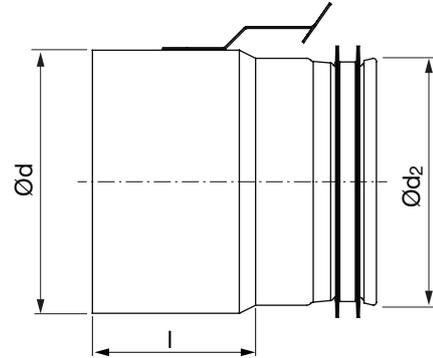
	<b>SKG</b>	<b>2010</b>
Product		
Dimension		

# Transition piece

RCFU



## Dimensions

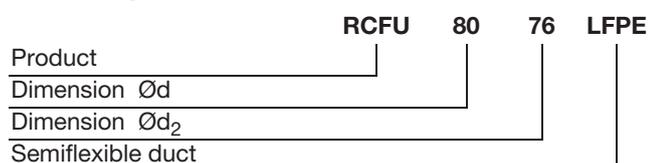


### Description

Transition piece used when connecting semiflexible duct LFPE 76/90 to manifolds and plenum boxes. Is supplied with a clip to hold the semiflexible duct – The Smart lock function.

Ød nom	Ød <sub>2</sub> nom	l mm	m kg
80	76	50	0,11

### Ordering example

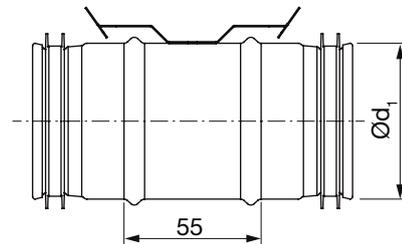


# Coupling

# NPU



## Dimensions



## Description

Used when connecting two semiflexible ducts LFPE. It is supplied with clips to hold the semiflexible duct - Smart lock function.

$\text{Ød}_1$ nom	m kg
63	0,07
76	0,09

## Ordering example



# Bend

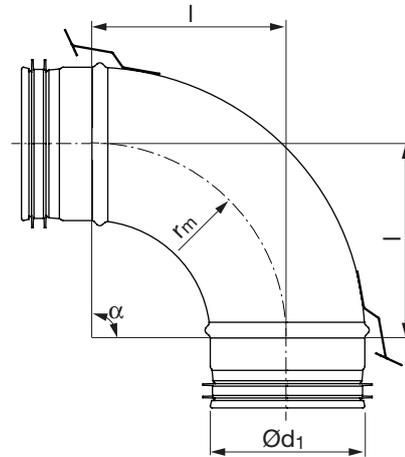
# BU90



## Description

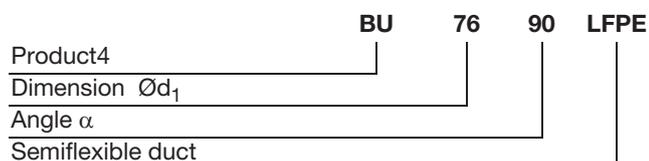
Used for semiflexible ducts when small radius is required. It is supplied with clips to hold the semiflexible duct - Smart lock function

## Dimensions



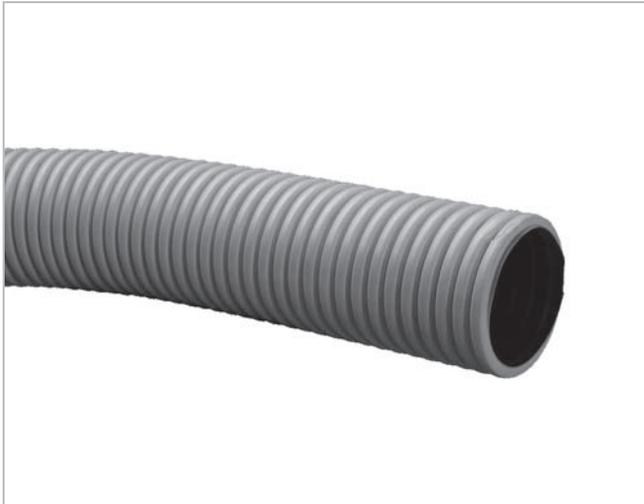
$\text{O}d_1$ nom	l mm	m kg
63	110	0,20
76	105	0,26

## Ordering example

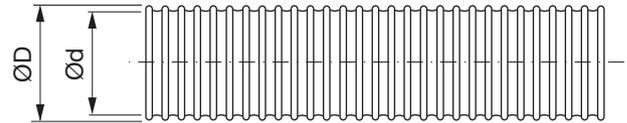


# Semiflexible duct

# LFPE



## Dimensions



Ød nom	ØD mm	l mm	m kg/m
63	75	50000	0,25
76	90	50000	0,35

## Description

Has a corrugated outside and a smooth inner surface.  
Made of odorless polyethylene (PE) without and recycled material.

Inner duct with antistatic additives and has microbial properties according to EN ISO 846 A.

Ring stiffness  $\geq 8 \text{ kN/m}^2$  according to EN ISO 9969.  
Can be bent to a radius of minimum 150 mm.

Dimension 63 fits Lindab Safe  $\varnothing$  63 mm.  
Dimension 80 fits Lindab Safe  $\varnothing$  80 mm. Use the transition piece RCFU, with Smart Lock function, to connect the LFPE 76/90-dimension to InDomo manifolds and plenum boxes. The smart lock function allows you to fasten LFPE effortlessly

Outside/inside color: White

Delivered in coils of 50 m.

Minimum installation and use temperature:  $-5 \text{ }^\circ\text{C}$   
Maximum installation and use temperature:  $+60 \text{ }^\circ\text{C}$

## Ordering example

Product	LFPE	63
Dimension $\varnothing$ d		

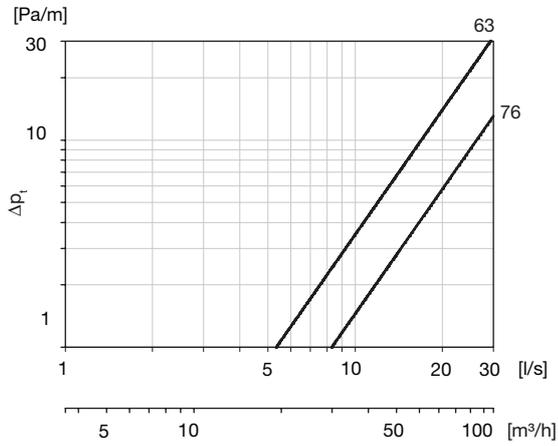
# Semiflexible duct

# LFPE

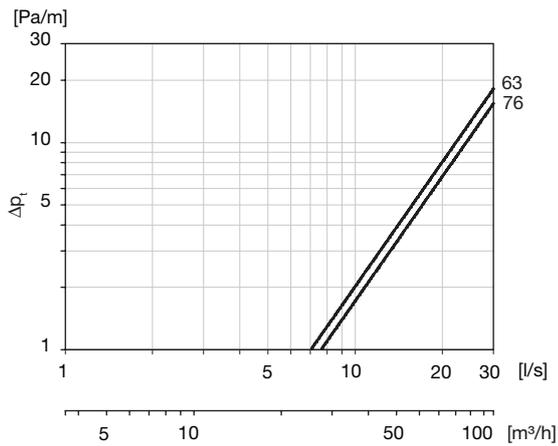
## Technical data

### Pressure drop

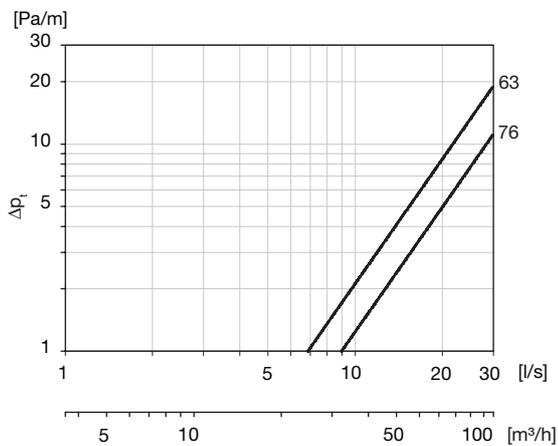
#### Straight



#### Bent 45° (length 0,5 m)



#### Bent 90° (length 0,5 m)



# Circular straight low-built silencer LRCB



## Description

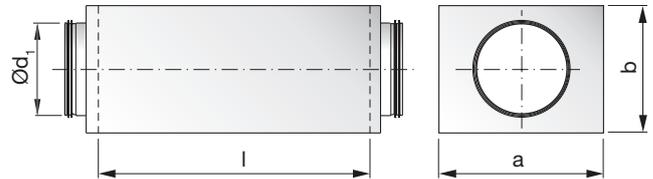
Straight silencer with circular connection and low installation height.

LRCB dimensions makes it particularly suitable for installation above suspended ceilings or where space is otherwise limited.

LRCB is produced with a perforated inner tube. The LRCB has a fiber cloth between the inner tube and the insulation material in order to avoid tearing the mineral wool.

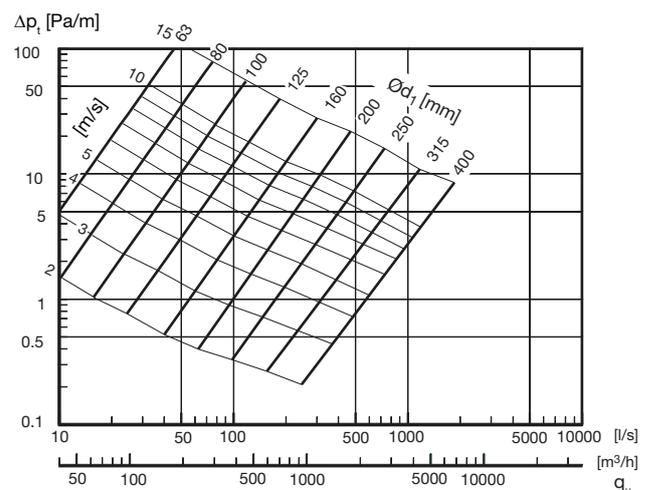
Fulfils tightness class C.

## Dimensions and sound data



Ød <sub>1</sub> mm	l mm	a x b mm		Attenuation [dB] for centre frequency [Hz]									
		63	70	125	160	200	250	315	400	500	630	800	m kg
63	300	160	70	1	4	10	14	18	27	20	18	1,20	
63	600	160	70	1	8	12	21	28	42	35	28	2,00	
80	300	180	90	0	4	8	10	15	22	12	9	1,40	
80	600	180	90	1	4	11	16	24	37	22	16	2,50	
100	500	210	158	3	10	9	18	33	50	22	14	3,17	
100	1000	210	158	10	17	16	33	50	50	42	24	5,55	
125	500	239	181	5	6	7	16	28	38	17	11	3,85	
125	1000	239	181	7	12	14	32	50	50	31	18	6,89	
160	500	275	218	5	5	7	15	26	23	11	9	4,40	
160	1000	275	218	7	7	12	25	48	39	18	13	7,90	
200	500	328	254	5	3	6	13	24	17	9	7	5,74	
200	1000	328	254	11	5	12	24	43	30	14	12	10,1	
250	500	390	308	6	3	5	12	20	12	6	6	7,24	
250	1000	390	308	9	5	8	21	38	21	10	10	13,0	
315	500	453	372	4	2	4	11	17	8	5	6	9,15	
315	1000	453	372	7	4	7	18	32	14	9	10	16,4	
400	500	546	460	3	2	4	10	12	6	6	5	12,7	
400	1000	546	460	5	3	6	16	24	10	8	8	21,6	

## Technical data



## Order code

<b>Product</b>	LRCB	aaa	bbbb
LRCB			
<b>Connection dim. Ød<sub>1</sub></b>			
Ød <sub>1</sub> = 63- 400 mm			
<b>Length in mm</b>			
l = 300 - 1000 mm			

Example: LRCB - 125 - 1000

# Circular straight low-built silencer KVDP



## Description

Silencer with circular connection and low installation height. The silencer's attenuation material is Acutec® (polyester).

Fulfils tightness class C.

The KVDP comes in 6 different designs.

## Design code:

- 0 = Basic attenuator of high quality without options mentioned below.
- 1 = Attenuation material covered by perforated plate.
- 5 = Openable attenuator, cleanable, used as access door, attenuation material covered by perforated plate.
- 6 = Openable attenuator, attenuation material changeable polyester fiber, used as access door.
- 7 = Attenuation material polyester fiber element.
- 8 = Openable attenuator, attenuation material polyester fiber element, changeable attenuation element, used as access door.

### \*) NOTE !

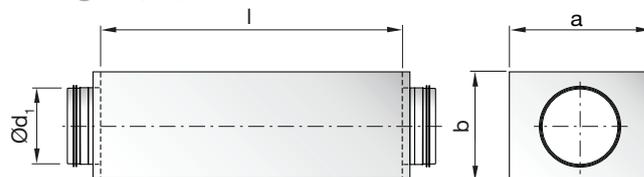
Only Design 0 comes with small sizes  $\varnothing d_1 = 63$  and  $80$  mm.

## Order code

<b>Product</b> KVDP	<b>KVDP</b>	<b>aaa</b>	<b>bbbb</b>	<b>c</b>
<b>Connection dim. <math>\varnothing d_1</math></b> $\varnothing d_1 = 63-630$ mm				
<b>Length in mm</b> $l = 300-1250$ mm				
<b>Design</b> 0, 1, 5, 6, 7, 8				

Example: KVDP - 125 - 1000 - 1

## Dimensions and sound data, Design 0, 1, 5 and 6



$\varnothing d_1$ mm	l mm	a x b mm x mm	Attenuation [dB] for centre frequency [Hz]								m kg
			63	125	250	500	1k	2k	4k	8k	
63	300	162 x 75	1	7	10	13	16	23	21	22	1,1
63	600	162 x 75	5	10	15	19	23	32	33	39	1,9
80	300	180 x 97	1	5	9	9	15	20	16	15	1,3
80	600	180 x 97	5	8	12	15	21	28	31	31	2,1
100	300	252 x 154	6	5	6	14	15	9	9	10	3,5
100	600	252 x 154	12	11	13	19	29	26	22	22	5,7
100	1000	252 x 154	16	14	18	28	39	36	34	38	8,9
125	300	263 x 177	7	4	7	15	12	8	11	10	3,5
125	600	263 x 177	14	11	12	20	28	33	32	24	6,1
125	1000	263 x 177	17	13	14	26	35	38	34	30	9,5
160	300	280 x 212	6	4	6	15	9	7	10	6	4,1
160	600	280 x 212	12	6	8	19	29	20	19	19	6,7
160	1000	280 x 212	15	10	12	25	31	27	27	22	10,1
200	300	361 x 253	5	3	7	13	8	6	6	6	5,8
200	600	361 x 253	7	6	11	20	18	12	11	12	8,6
200	1000	361 x 253	10	10	15	25	31	21	18	19	12,3
250	600	431 x 303	6	6	11	20	14	13	12	10	10,7
250	1000	431 x 303	7	9	14	24	25	20	19	16	14,6
315	600	458 x 368	3	5	11	17	18	16	12	8	13,1
315	1000	458 x 368	8	8	13	24	33	24	18	15	18,0
400	600	518 x 453	2	5	8	11	9	8	7	6	18,3
400	1000	518 x 453	3	7	11	17	15	13	11	9	26,4
500	600	702 x 555	3	5	9	8	6	7	4	4	26,0
500	1250	702 x 555	5	8	16	18	13	11	8	9	37,4
630	600	851 x 684	3	5	9	7	5	3	4	4	33,7
630	1250	851 x 684	6	8	12	13	11	7	7	6	48,1

## Correction $K_{oct}$

$\varnothing d_1$ mm	Correction, $K_{oct}$ (dB) for centre frequency [Hz]							
	63	125	250	500	1k	2k	4k	8k
63 *)	1	5	1	-2	-5	-14	-20	-31
80 *)	0	3	2	-1	-7	-12	-17	-28
100	2	5	-1	1	-9	-19	-24	-42
125	7	6	2	0	-9	-15	-21	-41
160	8	3	1	0	-8	-14	-19	-37
200	4	4	4	-1	-9	-13	-20	-31
250	5	3	1	-2	-5	-10	-16	-28
315	7	5	2	-3	-5	-11	-17	-30
400	6	6	2	-1	-7	-14	-20	-35
500	5	5	2	-1	-6	-12	-21	-34
630	5	5	2	-1	-6	-13	-19	-34
<b>Tol. +/-</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>4</b>	<b>3</b>	<b>4</b>

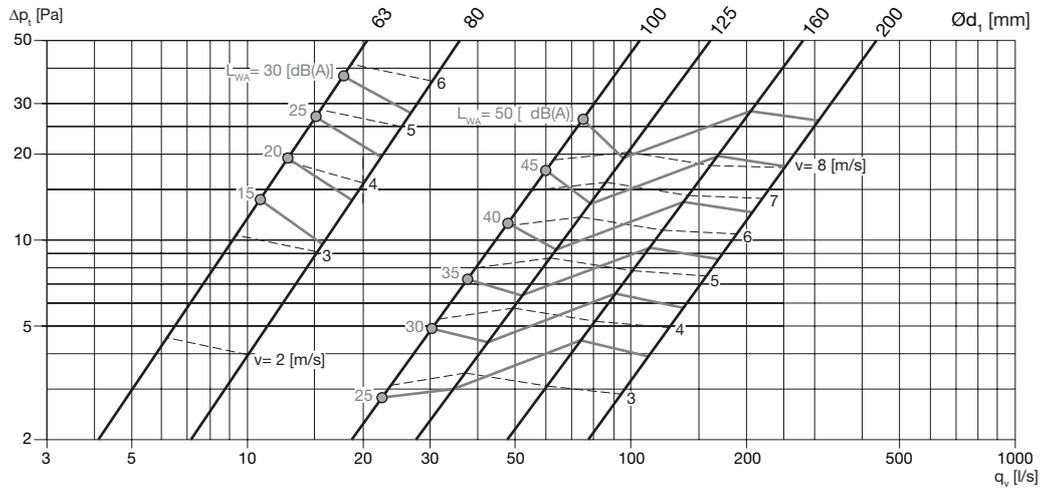
Sound power levels per octave band  $L_{Woct}$  are calculated by adding the octave band corrections  $K_{oct}$  to the total power level  $L_{WA}$  from the graphs.

$$L_{Woct} = L_{WA} + K_{oct}$$

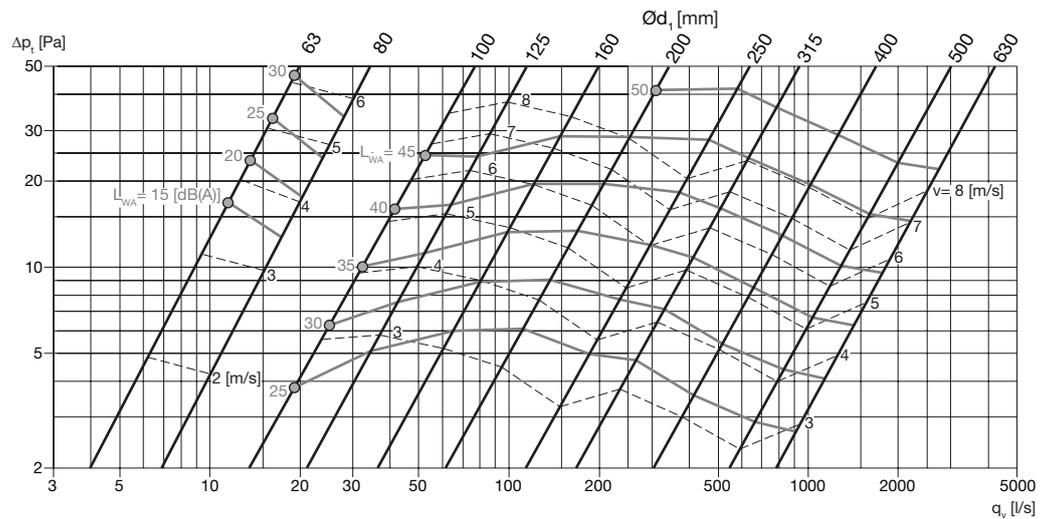
# Circular straight low-built silencer KVDP

## Technical data - Design 0, 1, 5 and 6

### Length (l) 300 mm

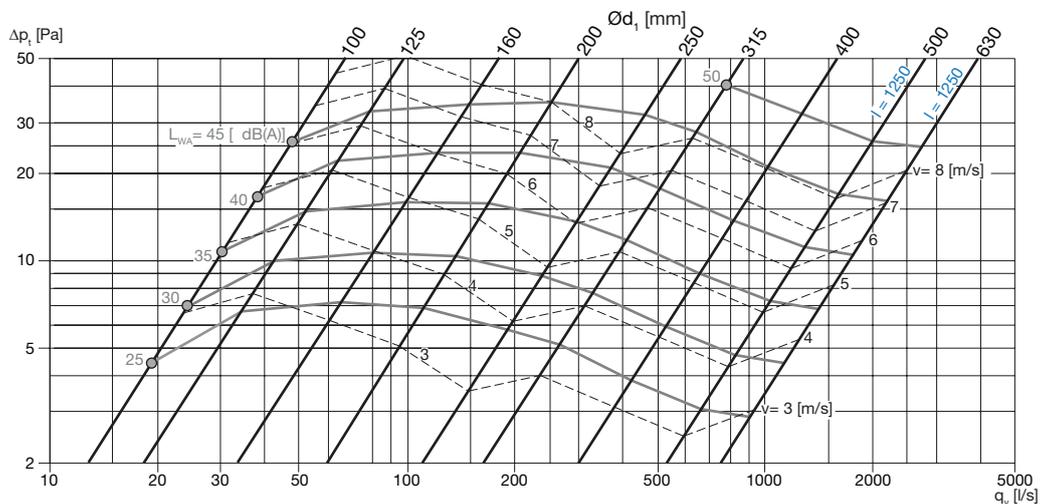


### Length (l) 600 mm



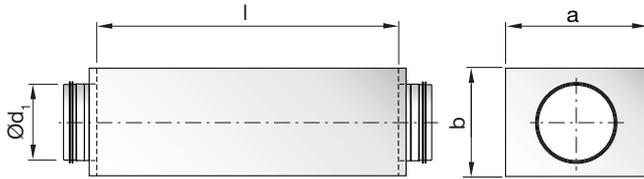
### Length (l) 1000, 1250 mm

(  $\text{Ø}d_1 = 500, 630 \Rightarrow l = 1250$  mm )



# Circular straight low-built silencer KVDP

## Dimensions and sound data, Design 7 and 8



Ød <sub>1</sub> mm	l mm	a x b mm	Attenuation [dB] for centre frequency [Hz]										m kg
			63	125	250	500	1k	2k	4k	8k			
125	300	263	177	6	7	7	14	19	15	14	10	3,8	
125	600	263	177	13	10	11	17	26	28	29	21	6,7	
125	1000	263	177	17	12	15	26	36	37	40	34	10,5	
160	300	280	212	4	6	6	11	16	10	8	9	4,5	
160	600	280	212	14	8	10	16	23	24	18	21	7,5	
160	1000	280	212	16	12	15	22	33	35	29	28	11,4	
200	300	361	253	4	3	5	11	11	7	6	7	6,3	
200	600	361	253	9	6	8	15	19	21	14	15	9,5	
200	1000	361	253	10	8	12	20	25	25	21	21	13,9	

### Correction K<sub>Oct</sub>

Ød <sub>1</sub> mm	Correction, K <sub>Oct</sub> (dB) for centre frequency [Hz]							
	63	125	250	500	1k	2k	4k	8k
125	7	8	5	-2	-11	-22	-30	-40
160	9	10	4	-3	-13	-25	-32	-42
200	10	10	4	-3	-14	-26	-33	-43
Toi.+/-	3	2	1	2	4	5	4	4

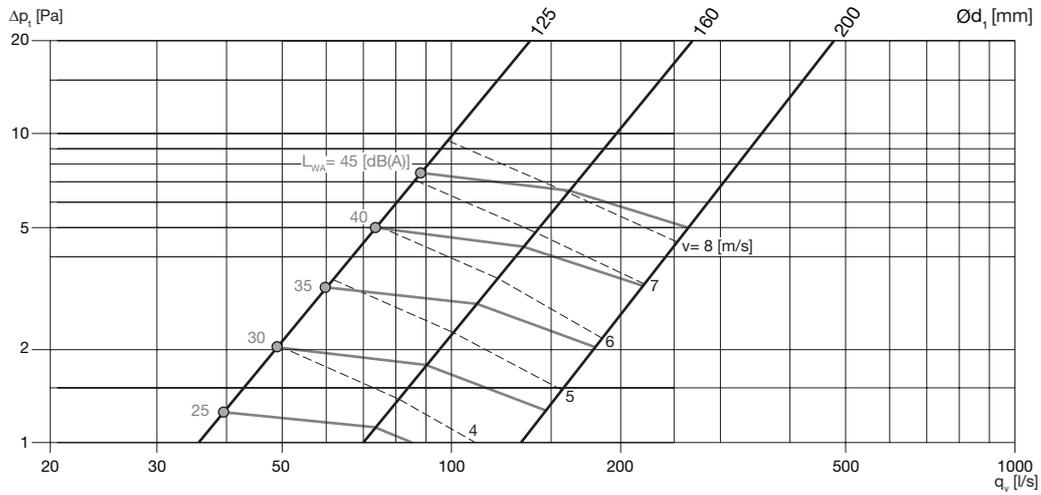
Sound power levels per octave band  $L_{Woct}$  are calculated by adding the octave band corrections  $K_{Oct}$  to the total power level  $L_{WA}$  from the graphs.

$$L_{Woct} = L_{WA} + K_{Oct}$$

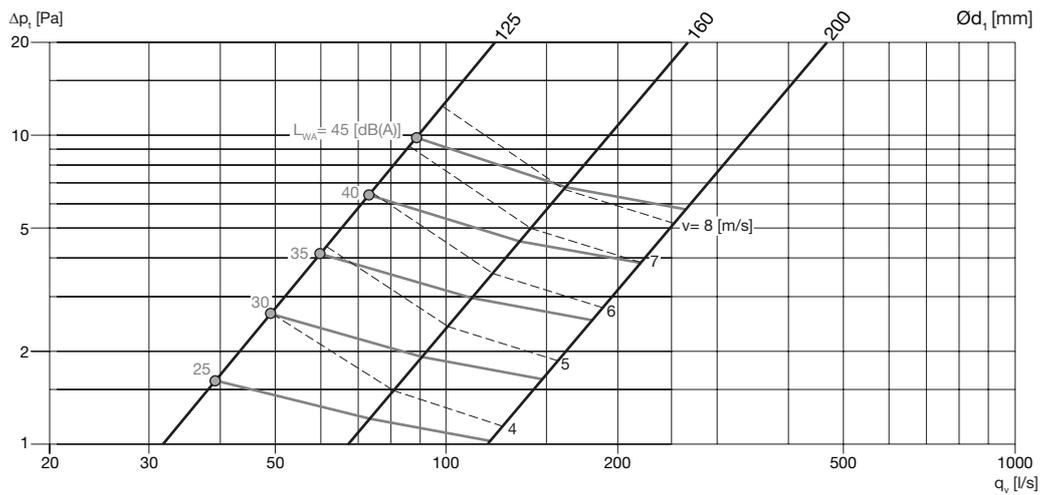
# Circular straight low-built silencer KVDP

## Technical data - design 7 and 8

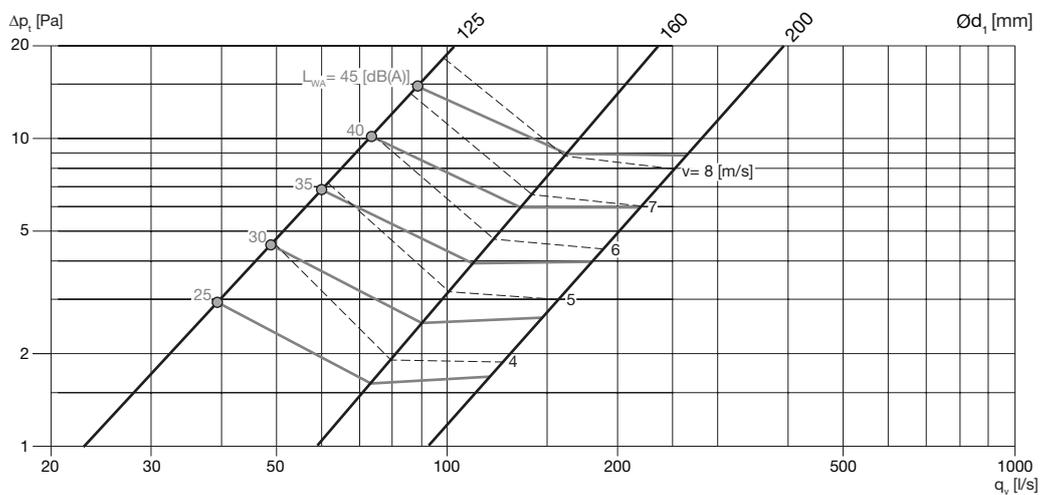
### Length (l) 300 mm



### Length (l) 600 mm



### Length (l) 1000 mm



# Valve - supply air

KI



## Description

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

## Materials and finish

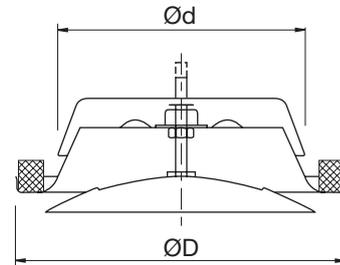
### Material

Powder-coated galvanized sheet metal.

### Colour

White RAL 9010, gloss 30, 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
160	190	0,41
200	245	0,65

## Order code

Product	KI	125
Dimension Ød		

# Valve - supply air

KI

## Technical data

Air flow,  $q$  [l/s] and [m<sup>3</sup>/h], total pressure drop,  $\Delta p_t$  [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, $L_{Wok}$ [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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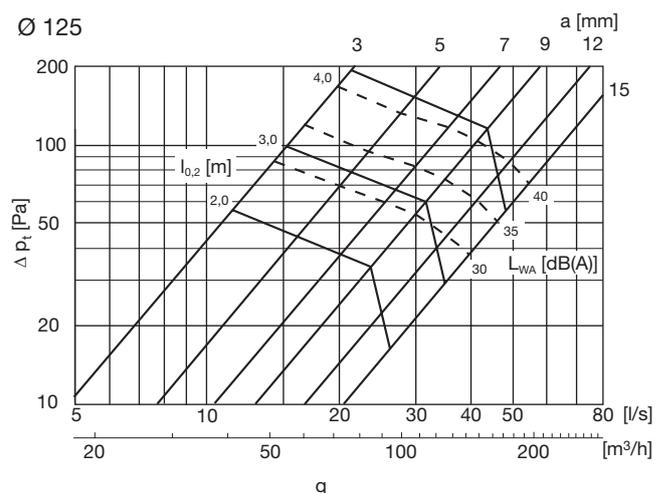
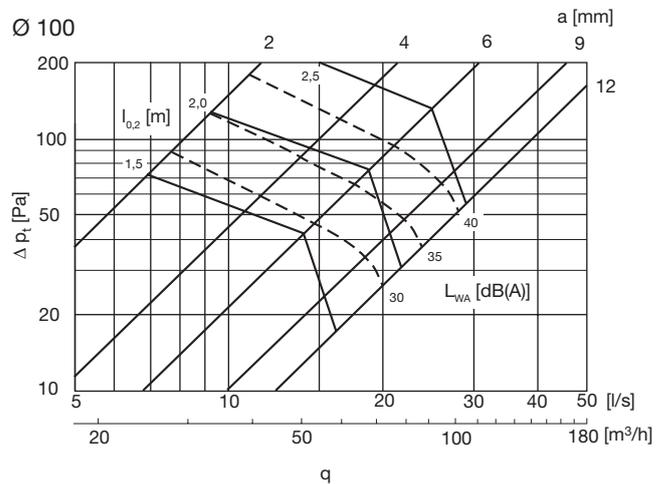
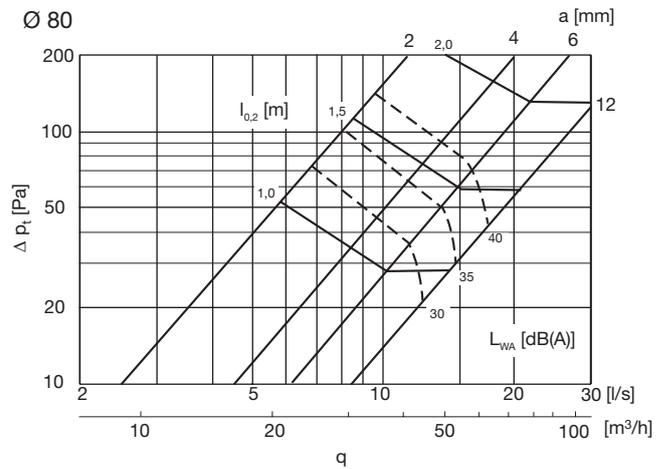
### Sound attenuation, $\Delta L$ , [dB]

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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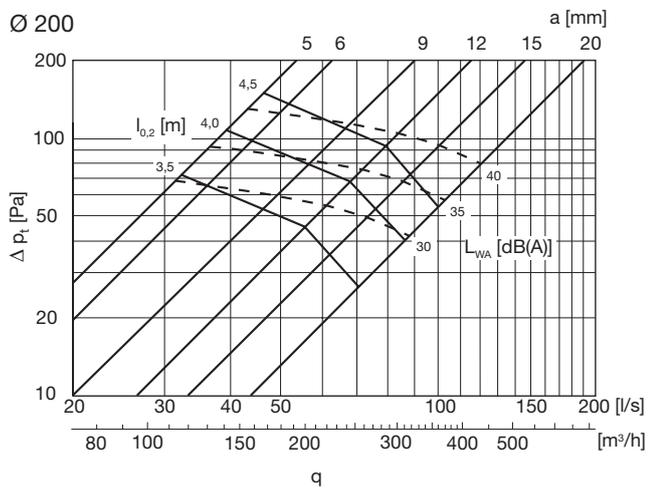
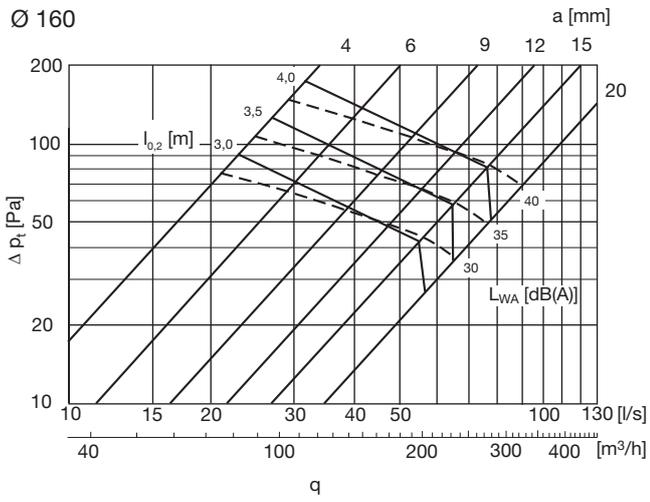
### Measurement of air flow

Data is available in a separate brochure.



# Valve - supply air

KI



# 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

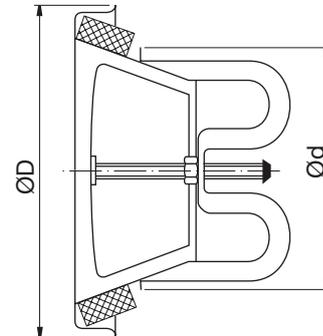
### Material

Coated galvanized sheet metal.

### Colour

White RAL 9010, gloss 30, equivalent to NCS S 0502 Y.

## Dimensions



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

## Order code

Product	KSU	160
Dimension Ød		

# Exhaust valve

KSU

## Technical data

Air flow,  $q$  [l/s] and [m<sup>3</sup>/h], total pressure drop,  $\Delta p_t$  [Pa], and A-weighted sound power level,  $L_{WA}$  [dB], for different settings,  $a$  [mm], are shown in the graphs.

### Sound power level, $L_{Wok}$ [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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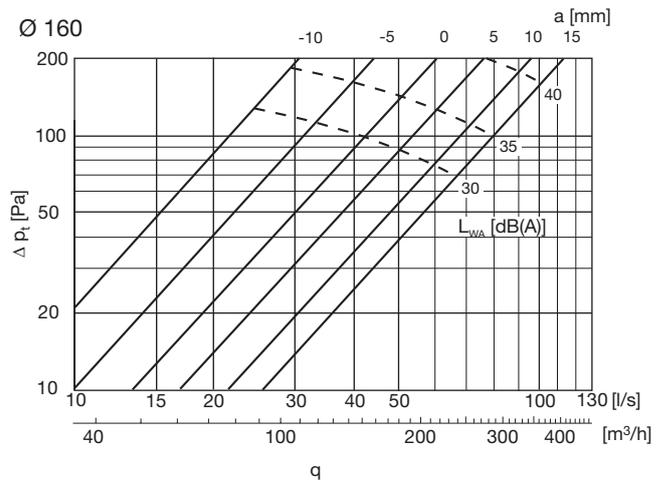
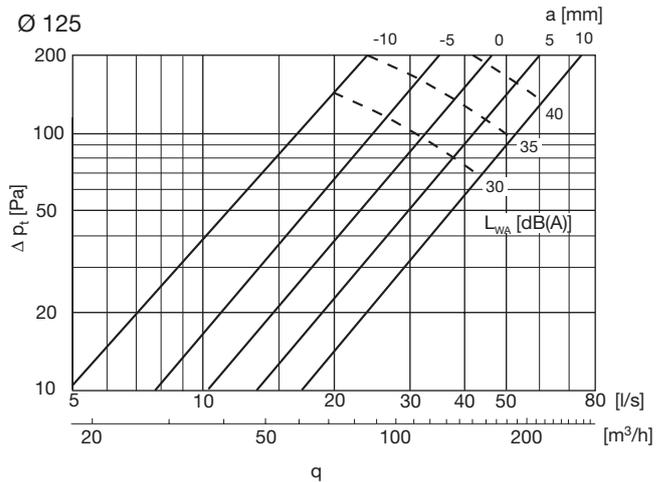
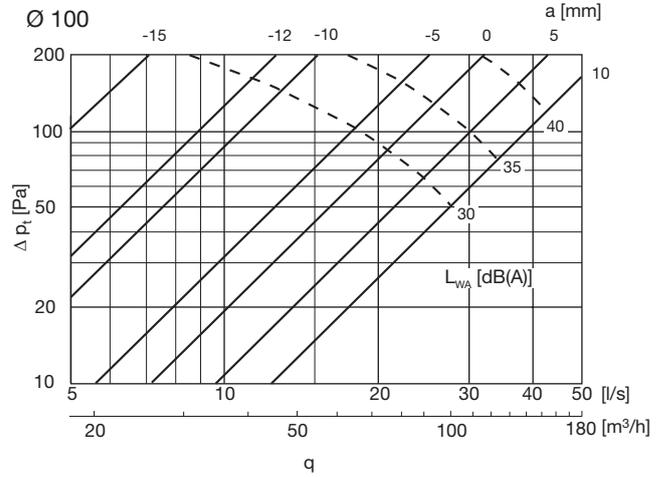
### Sound attenuation, $\Delta L$ , [dB]

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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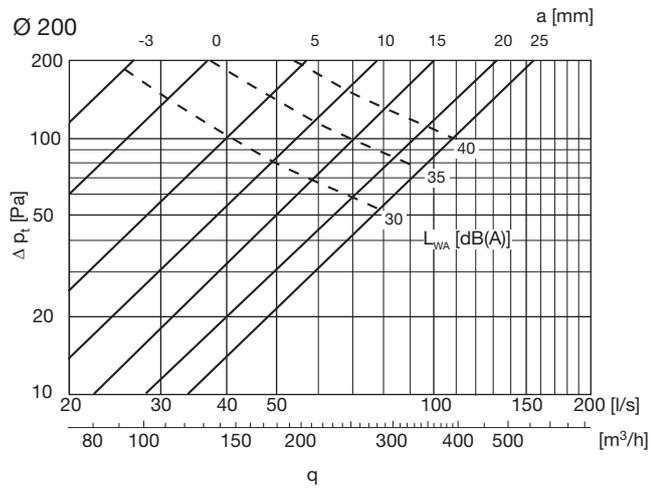
### Measurement of air flow

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# Exhaust valve

# KSU



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