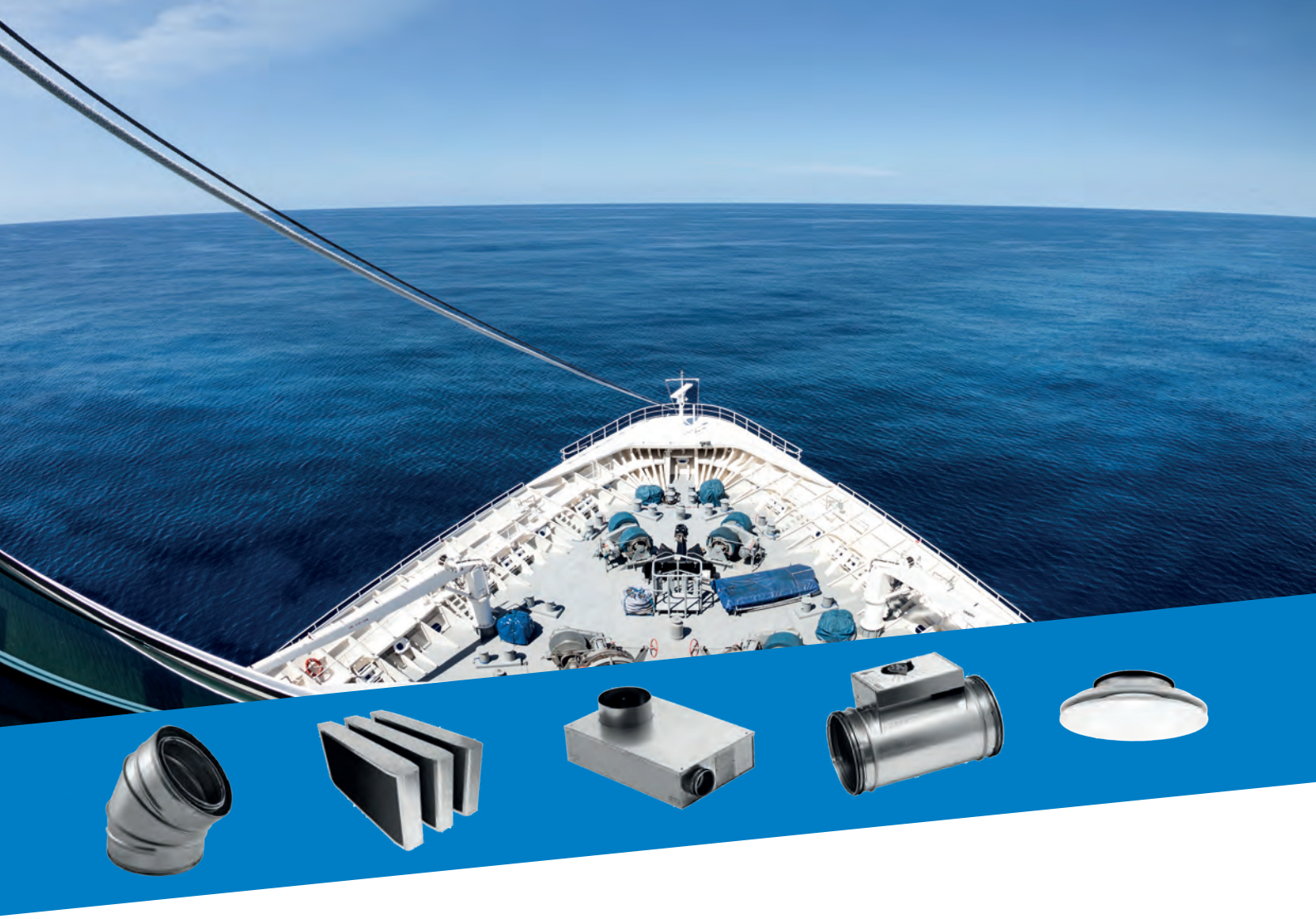
lindab | we simplify construction

Welcome on board



Lindab **Marine Product Catalog**

Ventilation solutions

April 2018

Lindab®

Let the journey begin

- Passenger ships
- Navy ships
- Yachts
- Offshore
- Cargo ships

A world leader in marine and offshore ventilation

Lindab has more than 35 years' experience of supplying ventilation solutions to anything from passenger ships and navy ships to oil rigs, yachts and cargo ships.

Our continuous product development has made us one of the world´s leading suppliers to the HVAC industry. Our solutions for the marine and offshore industries are based on the same well-known, tested and documented products.

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Lindab Marine

General product information

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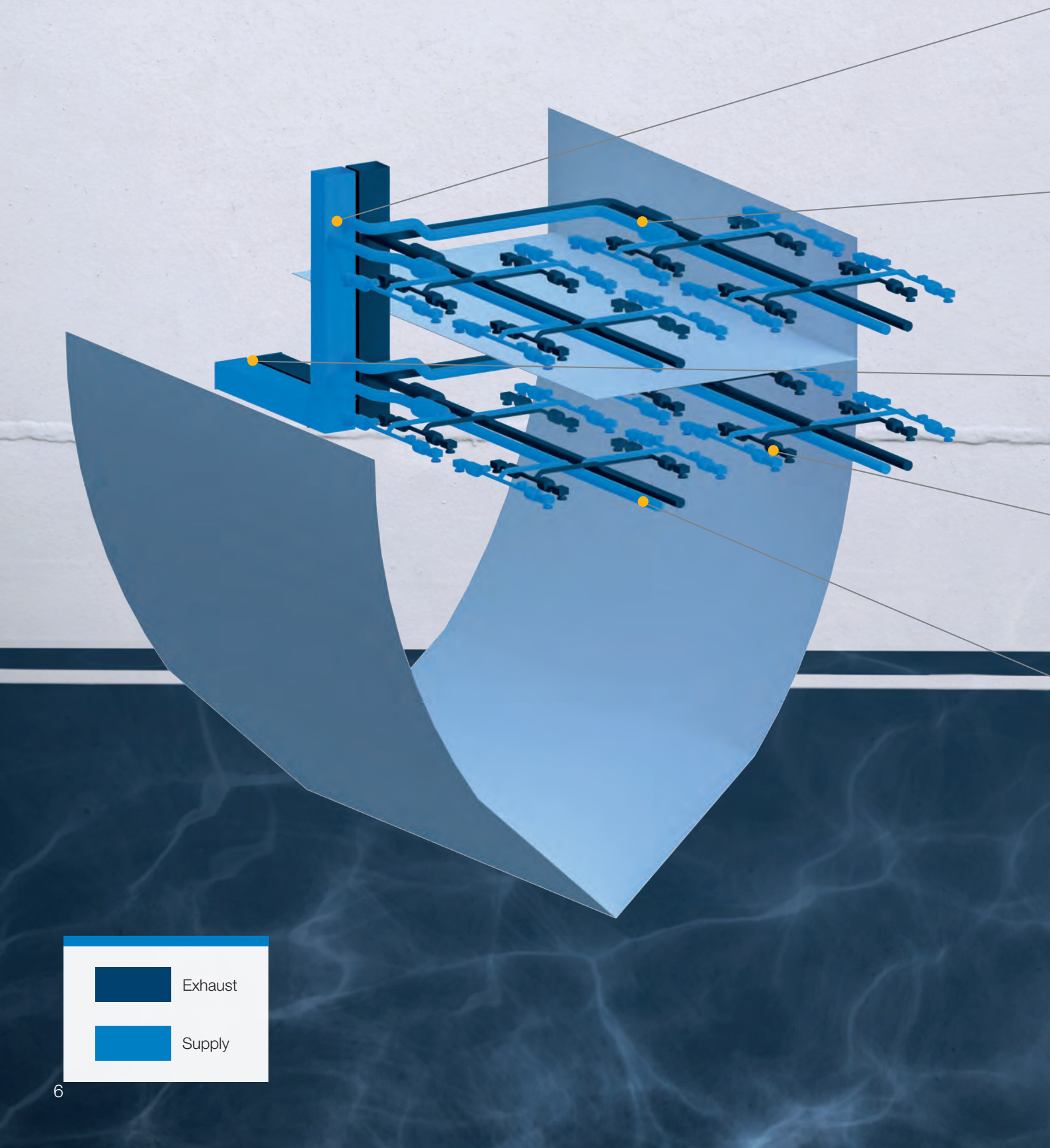
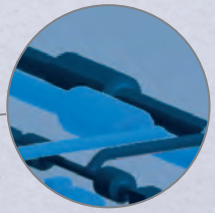
Applications and solutions



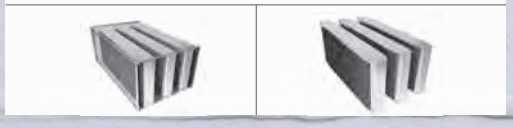
Ducts and fittings

- Circular ducts and fittings non-insulated for Exhaust
- Circular ducts and fittings insulated for Supply



Circular and rectangular silencers

Rectangular splitter silencers



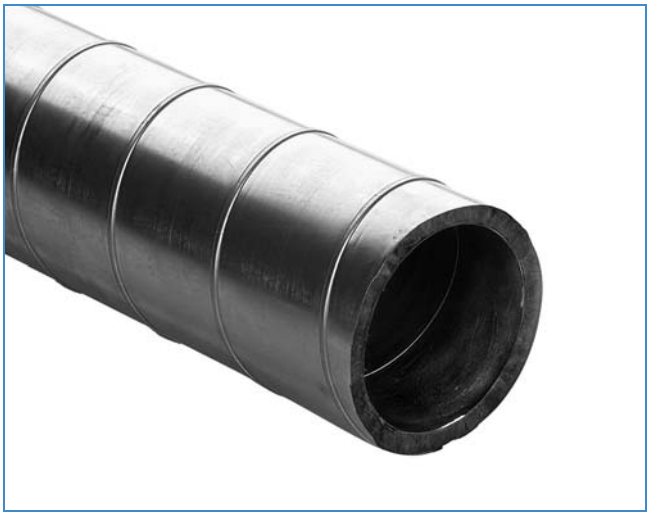
Boxes and diffusers

Mounting systems and accessories

Lindab**Marine**
Ventilation solutions

Ducts

INSR

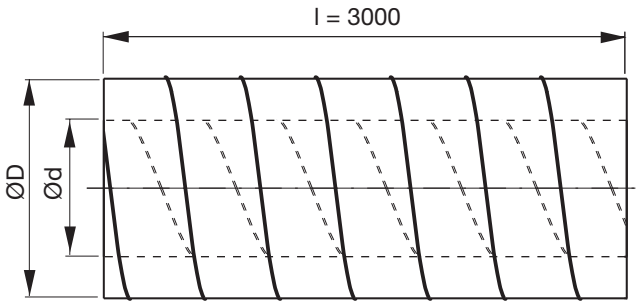


Description

The duct is double-jacketed and insulated with mineral wool.

NB.
No Safe Click marking on insulated ducts.

Dimensions



Ød nom	ØD mm	m_l* kg
80	112	9,0
100	132	11,2
125	157	13,2
160	192	16,4
180	200	18,0
200	232	20,6
224	260	22,7
250	280	25,2
280	315	28,1
300	355	30,1
315	355	34,6

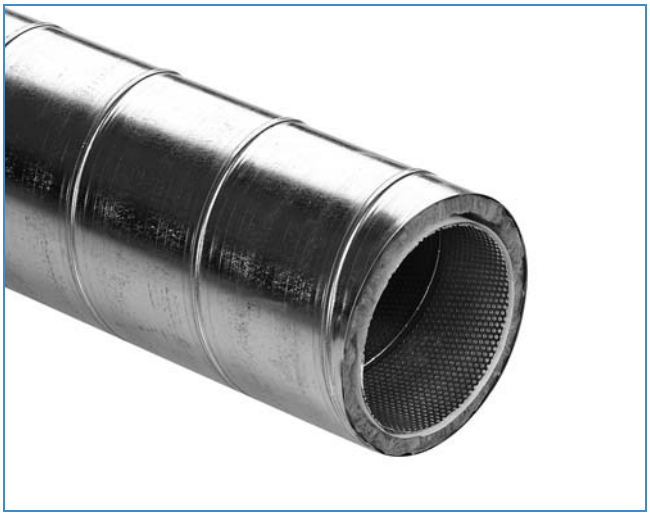
* = weight can vary ±10%.

Order code

INSR	125	3000
Product		
Dimension Ød		
Lenght l		

Duct

INSRIP



Description

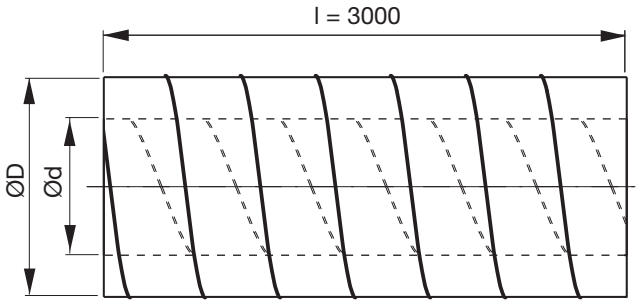
The duct is double-jacketed and insulated with mineral wool and has an attenuating effect.
Internal duct is perforated.

Perforation: 3 mm holes.
Triangulation: 5 mm.
Open: 32,6%.

Order code

	INSRIP	125	3000
Product			
Dimension Ød			
Lenght l			

Dimensions



Ød nom	ØD mm	m_l* kg
80	112	8,7
100	132	10,8
125	157	12,7
160	192	15,7
180	200	17,3
200	232	19,8
224	260	21,6
250	280	24,2
280	315	26,8
300	355	28,7
315	355	33,1

* = weight can vary ±10%.

Ød / ØD	Length	Attenuation in dB for centre frequency Hz							
mm	mm	63	125	250	500	1k	2k	4k	8k
80 / 112	500	2	4	7	7	11	23	28	11
	1000	3	5	8	13	28	45	37	16
	1500	4	5	8	17	38	>50	42	20
	3000	5	7	11	20	>50	>50	45	24
100 / 132	500	2	3	5	5	10	21	25	7
	1000	2	4	8	9	18	36	36	13
	1500	3	5	8	13	30	49	44	17
	3000	4	7	10	17	>50	>50	45	21
125 / 157	500	2	2	3	6	10	23	20	6
	1000	2	4	6	9	18	35	29	10
	1500	3	4	7	11	24	43	35	13
	3000	4	7	8	14	>50	>50	38	15
160 / 192	500	2	2	3	3	8	19	15	6
	1000	2	2	4	7	17	38	25	10
	1500	2	3	5	9	22	45	31	15
	3000	4	7	8	15	>50	>50	>50	23
180 / 200	500	-	1	1	2	5	13	12	6
	1000	-	1	1	2	7	19	21	8
	1500	1	2	3	3	8	24	27	11
	3000	2	3	4	7	15	31	29	13
200 / 232	500	2	2	2	3	7	20	10	5
	1000	2	2	3	5	14	32	14	7
	1500	3	3	4	7	18	41	20	12
	3000	4	5	7	15	41	>50	28	16

NB.
Max. attenuation specified is 50 dB.

Bend

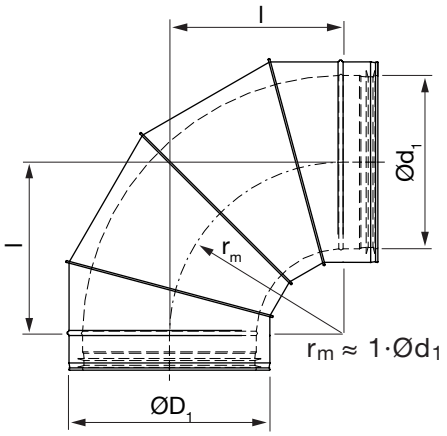
INBU90

Description

The bend is double-jacketed and insulated with mineral wool, and is supplied with Lindab Safe rubber seal on the inner dimension.

With stop bead at both inner and outer part to ensure correct installation.

Dimensions



Ød1 nom	ØD1 mm	l mm	m* kg
80	112	100	0,65
100	132	100	0,72
125	157	125	1,08
160	192	160	1,62
180	200	180	1,96
200	232	200	2,22
224	260	225	3,02
250	280	242	3,60
280	315	280	5,18
300	355	325	5,82
315	355	315	6,80

* = weight can vary ±10%.

Order code

INBU	125	90
Product		
Dimension Ød1		
Angle α		

Bend

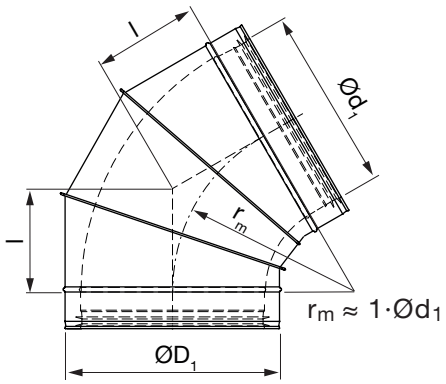
INBU60

Description

The bend is double-jacketed and insulated with mineral wool, and is supplied with Lindab Safe rubber seal on the inner dimension.

With stop bead at both inner and outer part to ensure correct installation.

Dimensions



Ød1 nom	ØD1 mm	l mm	m* kg
80	112	58	0,50
100	132	58	0,68
125	157	72	0,86
160	192	92	1,24
180	200	104	1,67
200	232	115	1,78
224	260	130	2,22
250	280	144	2,79
280	315	162	3,91
300	355	173	4,31
315	355	182	5,01

* = weight can vary ±10%.

Order code

INBU	125	60
Product		
Dimension Ød1		
Angle α		

Bend

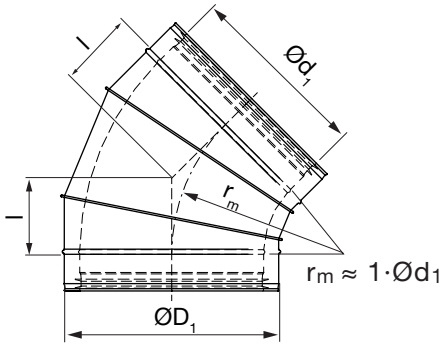
INBU45

Description

The bend is double-jacketed and insulated with mineral wool, and is supplied with Lindab Safe rubber seal on the inner dimension.

With stop bead at both inner and outer part to ensure correct installation.

Dimensions



Ød1 nom	ØD1 mm	l mm	m* kg
80	112	41	0,43
100	132	41	0,50
125	157	52	0,68
160	192	66	1,04
180	200	76	1,22
200	232	83	1,46
224	260	93	1,79
250	280	104	2,26
280	315	116	3,24
300	355	124	3,61
315	355	140	4,14

* = weight can vary ±10%.

Order code

INBU	125	45
Product		
Dimension Ød1		
Angle α		

Bend

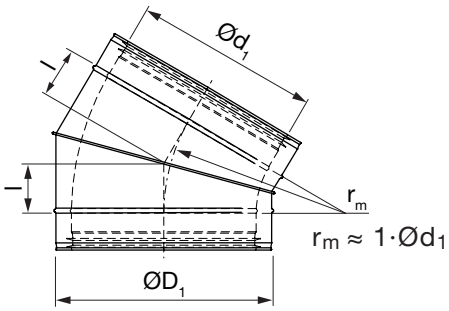
INBU30

Description

The bend is double-jacketed and insulated with mineral wool, and is supplied with Lindab Safe rubber seal on the inner dimension.

With stop bead at both inner and outer part to ensure correct installation.

Dimensions



Ød1 nom	ØD1 mm	l mm	m* kg
80	112	27	0,35
100	132	27	0,41
125	157	33	0,55
160	192	43	0,77
180	200	48	0,89
200	232	54	1,11
224	260	60	1,37
250	280	67	1,86
280	315	75	2,59
300	355	95	2,85
315	355	90	3,27

* = weight can vary ±10%.

Order code

INBU	125	30
Product		
Dimension Ød1		
Angle α		

Bend

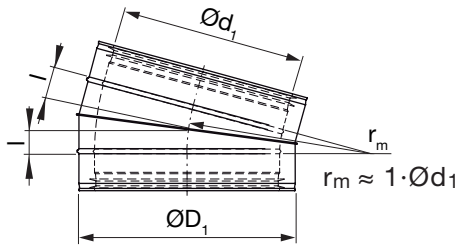
INBU15

Description

The bend is double-jacketed and insulated with mineral wool, and is supplied with Lindab Safe rubber seal on the inner dimension.

With stop bead at both inner and outer part to ensure correct installation.

Dimensions



Ød1 nom	ØD1 mm	l mm	m* kg
80	112	13	0,30
100	132	13	0,33
125	157	16	0,42
160	192	21	0,58
180	200	24	0,73
200	232	26	0,79
224	260	30	1,02
250	280	30	1,46
280	315	37	1,94
300	355	39	2,12
315	355	47	2,39

* = weight can vary ±10%.

Order code

INBU	125	15
Product		
Dimension Ød1		
Angle α		

Reducer

INRCFU

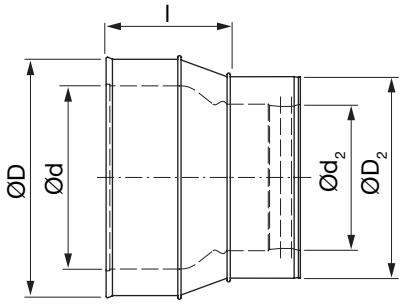
Description

The reducer is double-jacketed and insulated with mineral wool, and is supplied with Lindab Safe rubber seal on the inner dimension ($Ød_2$) and female connection at the inner dimensions (Ød).

Order code

	INRCFU	125	100
Product			
Dimension Ød			
Dimension $Ød_2$			

Dimensions



Ød nom	$Ød_2$ mm	ØD nom	$ØD_2$ mm	l mm	m* kg
100	80	132	112	63	0,33
125	80	157	112	75	0,41
125	100	157	132	66	0,40
160	80	192	112	94	0,65
160	100	192	132	85	0,56
160	125	192	157	72	0,57
180	80	200	112	212	1,08
180	100	200	132	185	1,04
180	125	200	157	151	0,97
180	160	200	192	103	0,79
200	80	232	112	240	1,33
200	100	232	132	92	0,76
200	125	232	157	92	0,73
200	160	232	192	78	0,69
200	180	232	200	103	0,91
224	80	260	112	277	1,52
224	100	260	132	245	1,58
224	125	260	157	211	1,47
224	160	260	192	163	1,32
224	180	260	200	135	1,19
224	200	260	232	107	1,07
250	80	280	112	332	1,95
250	100	280	132	301	2,02
250	125	280	157	137	1,36
250	160	280	192	115	1,13
250	180	280	200	191	1,62
250	200	280	232	103	1,08
250	224	280	260	131	1,36
280	80	315	112	379	2,19
280	100	315	132	347	2,26
280	125	315	157	308	2,36
280	160	315	192	260	2,19
280	180	315	200	232	2,06
280	200	315	232	205	1,97

Reducer

INRCFU

Ød nom	Ød$_2$ mm	ØD nom	ØD$_2$ mm	l mm	m* kg
280	224	315	260	172	1,80
280	250	315	280	136	1,76
300	80	355	112	410	2,47
300	100	355	132	379	2,54
300	125	355	157	335	2,72
300	160	355	192	287	2,50
300	180	355	200	260	2,36
300	200	355	232	232	2,28
300	224	355	260	200	2,12
300	250	355	280	164	2,07
300	280	355	315	123	1,89
315	80	355	112	425	2,74
315	100	355	132	394	2,82
315	125	355	157	356	3,00
315	160	355	192	308	2,77
315	180	355	200	281	2,61
315	200	355	232	253	2,53
315	224	355	260	220	2,36
315	250	355	280	184	2,31
315	280	355	315	143	2,11
315	300	355	355	116	1,99

* = weight can vary ±10%.

Reducer

INRCU

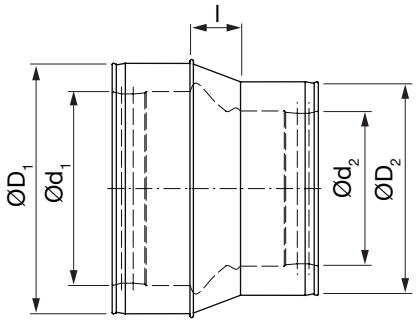
Description

The reducer is double-jacketed and insulated with mineral wool, and is supplied with Lindab Safe rubber seal on the inner dimensions.

Order code

	INRCU	125	100
Product			
Dimension Ød$_1$			
Dimension Ød$_2$			

Dimensions



Ød$_1$ nom	Ød$_2$ mm	ØD$_1$ nom	ØD$_2$ mm	l mm	m* kg
100	80	132	112	26	0,32
125	80	157	112	36	0,41
125	100	157	132	27	0,39
160	80	192	112	55	0,63
160	100	192	132	46	0,56
160	125	192	157	34	0,54
180	80	200	112	167	1,10
180	100	200	132	140	1,03
180	125	200	157	106	0,95
180	160	200	192	58	0,77
200	80	232	112	195	1,34
200	100	232	132	52	0,78
200	125	232	157	55	0,76
200	160	232	192	39	0,68
200	180	232	200	58	0,86
224	80	260	112	232	1,51
224	100	260	132	200	1,59
224	125	260	157	166	1,50
224	160	260	192	118	1,29
224	180	260	200	90	1,13
224	200	260	232	63	1,02
250	80	280	112	267	1,98
250	100	280	132	75	2,09
250	125	280	157	70	1,36
250	160	280	192	60	1,17
250	180	280	200	126	1,79
250	200	280	232	42	1,10
250	224	280	260	29	1,14
280	80	315	112	314	2,31
280	100	315	132	282	2,39
280	125	315	157	243	2,54
280	160	315	192	195	2,32
280	180	315	200	167	2,16
280	200	315	232	140	2,05

Reducer

INRCU

Ød$_1$ nom	Ød$_2$ mm	ØD$_1$ nom	ØD$_2$ mm	l mm	m* kg
280	224	315	260	107	1,89
280	250	315	280	71	1,83
300	80	355	112	345	2,65
300	100	355	132	314	2,73
300	125	355	157	270	2,93
300	160	355	192	222	2,70
300	180	355	200	195	2,53
300	200	355	232	167	2,43
300	224	355	260	135	2,25
300	250	355	280	99	2,08
300	280	355	315	58	2,05
315	80	355	112	360	2,91
315	100	355	132	329	3,04
315	125	355	157	291	3,21
315	160	355	192	243	2,96
315	180	355	200	216	2,80
315	200	355	232	188	2,69
315	224	355	260	155	2,54
315	250	355	280	119	2,46
315	280	355	315	78	2,33
315	300	355	355	51	2,18

* = weight can vary ±10%.

Transition piece

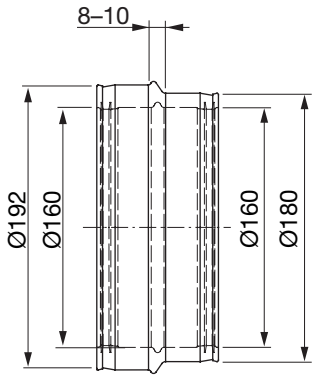
ITPU

Description

The transition piece is double-jacketed and insulated with mineral wool, and is supplied with Lindab Safe rubber seal on the inner dimension.

Used when connecting insulated duct systems to Lindab standard insulated Marine system.

Dimensions



Weight: 0,41 kg

Order code

ITPU	192	180
Product		
Dimension		
Dimension		

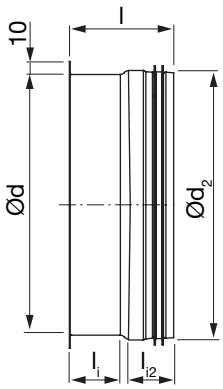
Transition piece

INRF3

Description

The transition piece, with flange is used when connecting a gasketed fitting to the bulkhead penetrations.

Dimensions



Ød nom	Ød$_2$ mm	l mm	l$_i$ / l$_{i2}$ mm	m* kg
200	207	95	40	0,21
250	261	135	60	0,46

* = weight can vary ±10%.

Order code

	INRF3	200
Product		
Dimension Ød		

Transition piece

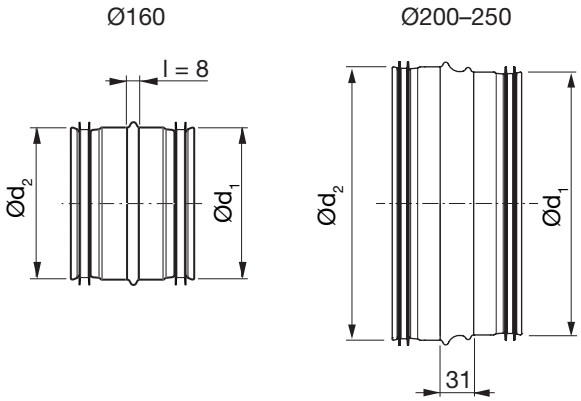
INRM3

Description

The transition piece is supplied with Lindab Safe rubber seal.

The transition piece is used when connecting the duct system to the bulkhead penetrations.

Dimensions



Ød1 nom	Ød2 mm	m* kg
160	158	0,26
200	210	0,31
250	263,5	0,57

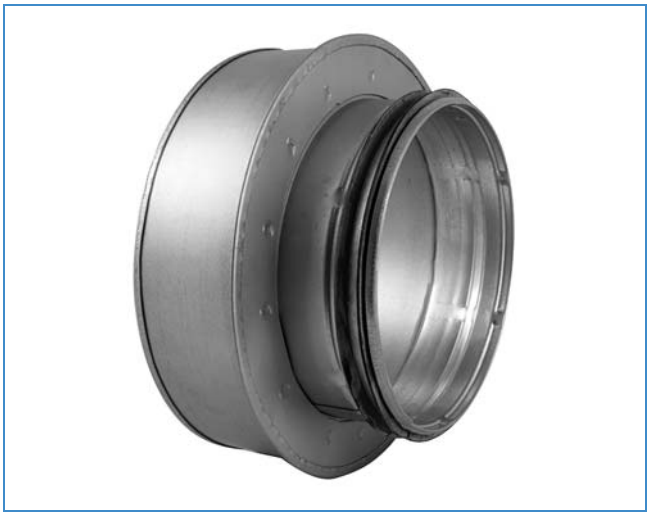
* = weight can vary ±10%.

Order code

	INRM3	200
Product		
Dimension Ød1		

Transition piece

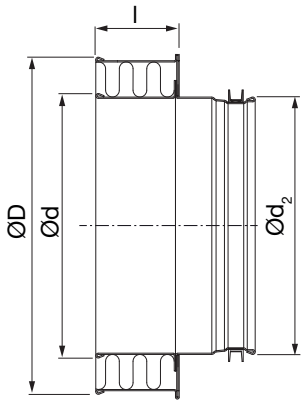
INALFM



Description

The transition piece with female coupling, is double-jacketed and insulated at the large end and supplied with Lindab Safe rubber seal at the small end. It's used when going from insulated to non insulated ductwork.

Dimensions



Ød nom	Ød2 mm	ØD nom	l mm	m* kg
80	80	112	40	0,20
100	100	132	40	0,24
125	125	157	40	0,30
160	160	192	40	0,38
180	180	200	40	0,38
200	200	232	40	0,47
224	224	260	40	0,53
250	250	280	60	0,76
280	280	315	60	0,87
300	300	355	60	0,92
315	315	355	60	1,06

* = weight can vary ±10%.

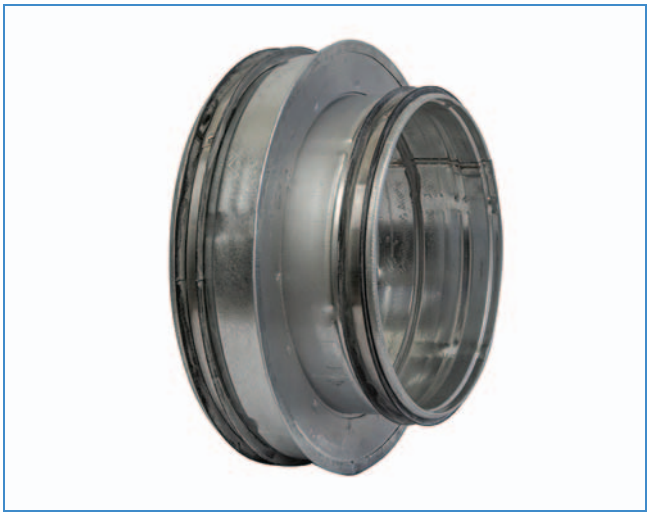
Order code

INALFM 125 125

Product
Dimension Ød
Dimension Ød2

Transition piece

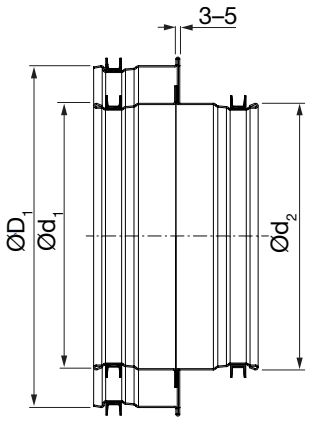
INALMM



Description

The transition piece is double-jacketed and insulated at the large end and supplied with Lindab Safe rubber seal in the inner dimension. It's used when going from insulated to non insulated ductwork.

Dimensions



Ød$_1$ nom	Ød$_2$ mm	ØD$_1$ nom	m* kg
80	80	112	0,18
100	100	132	0,22
125	125	157	0,28
160	160	192	0,35
180	180	200	0,36
200	200	232	0,46
224	224	260	0,52
250	250	280	0,71
280	280	315	0,91
300	300	355	0,98
315	315	355	1,10

* = weight can vary ±10%.

Order code

INALMM 125 125

Product
Dimension Ød$_1$
Dimension Ød$_2$

T-piece

INTCU

Description

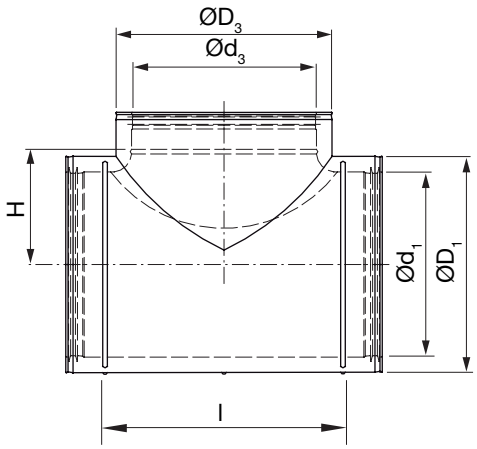
The T-piece is double-jacketed and insulated with mineral wool, and is supplied with Lindab Safe rubber seal on the inner dimension.

With stop bead at the main connedtions, to ensure correct installation.

Order code

	INTCU	125	100
Product			
Dimension $Ød_1$			
Dimension $Ød_3$			

Dimensions



Ød1 nom	Ød3 mm	ØD1 nom	ØD3 mm	l mm	H mm	m* kg
80	80	112	112	140	52	0,66
100	80	132	112	97	60	0,62
100	100	132	132	132	66	0,71
125	80	157	112	97	72	0,78
125	100	157	132	130	78	0,85
125	125	157	157	165	83	1,02
160	80	192	112	140	92	1,11
160	100	192	132	130	95	1,03
160	125	192	157	166	100	1,22
160	160	192	192	209	105	1,43
180	80	200	112	140	102	1,16
180	100	200	132	175	105	1,42
180	125	200	157	215	110	1,55
180	160	200	192	260	115	1,81
180	180	200	200	285	115	2,11
200	80	232	112	140	112	1,34
200	100	232	132	175	116	1,67
200	125	232	157	215	116	1,91
200	160	232	192	209	125	1,73
200	180	232	200	285	125	2,47
200	200	232	232	249	125	1,98
224	80	260	112	140	124	1,75
224	100	260	132	175	127	1,90
224	125	260	157	215	132	2,18
224	160	260	192	260	137	2,44
224	180	260	200	285	137	2,77
224	200	260	232	346	137	3,14
224	224	260	260	346	137	3,26
250	80	280	112	156	137	2,08
250	100	280	132	175	140	2,24
250	125	280	157	220	145	2,58
250	160	280	192	256	150	2,77
250	180	280	200	306	150	3,17
250	200	280	232	306	150	3,27

T-piece

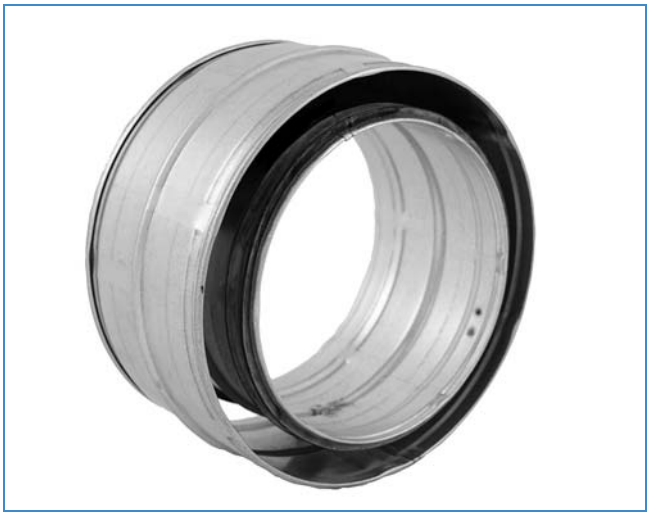
INTCU

$Ød_1$ nom	$Ød_3$ mm	$ØD_1$ nom	$ØD_3$ mm	l mm	H mm	m* kg
250	224	280	260	350	150	3,57
250	250	280	280	296	150	3,21
280	80	315	112	156	155	2,42
280	100	315	132	175	155	2,45
280	125	315	157	220	160	2,86
280	160	315	192	256	165	3,11
280	180	315	200	306	165	3,43
280	200	315	232	306	165	3,51
280	224	315	260	350	165	4,21
280	250	315	280	350	165	4,04
280	280	315	315	390	165	4,41
300	80	355	112	156	162	2,91
300	100	355	132	175	165	3,04
300	125	355	157	220	170	3,45
300	160	355	192	256	175	4,00
300	180	355	200	306	175	4,26
300	200	355	232	306	175	4,46
300	224	355	260	350	175	4,69
300	250	355	280	350	175	5,01
300	280	355	315	390	175	5,21
300	300	355	355	430	175	5,55
315	80	355	112	156	170	3,09
315	100	355	132	175	173	3,34
315	125	355	157	220	178	3,65
315	160	355	192	256	182	4,05
315	180	355	200	306	182	4,23
315	200	355	232	306	182	4,59
315	224	355	260	350	182	5,13
315	250	355	280	350	182	5,30
315	280	355	315	390	182	5,31
315	300	355	355	430	182	5,99
315	315	355	355	363	182	5,06

* = weight can vary ±10%.

Coupling

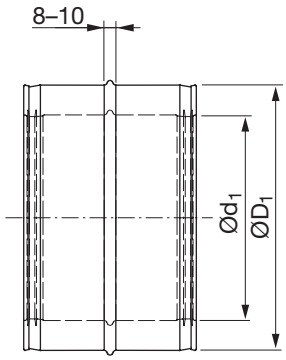
INNPU



Description

The coupling is double-jacketed and supplied with Lindab Safe rubber seal on the inner dimension and used when connecting insulated ducts. With distance ensuring that the parts are centered.

Dimensions



Ød1 nom	ØD1 mm	m* kg
80	112	0,20
100	132	0,25
125	157	0,31
160	192	0,38
180	200	0,41
200	232	0,51
224	260	0,60
250	280	0,92
280	315	1,10
300	355	1,13
315	355	1,27

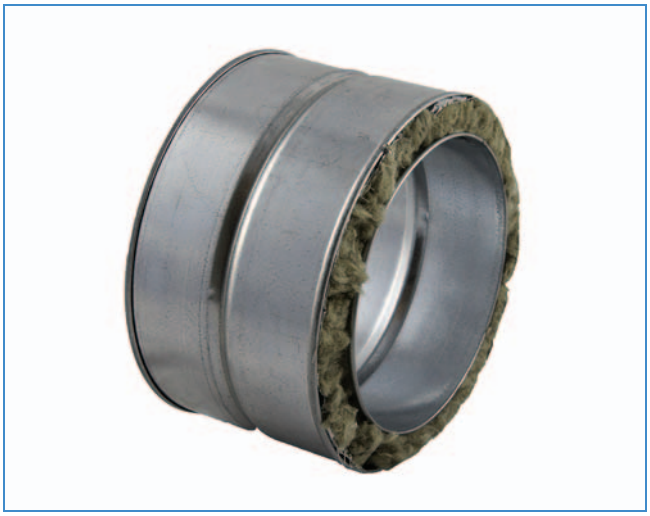
* = weight can vary ±10%.

Order code

INNPU	125
Product	
Dimension Ød1	

Female coupling

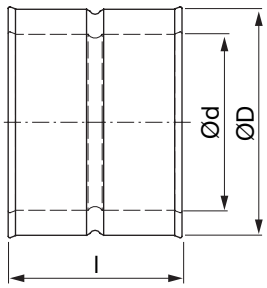
INMF



Description

Coupling for fittings. The coupling is double-jacketed and insulated with mineral wool.

Dimensions



Ød nom	ØD mm	l mm	m* kg
80	112	97	0,29
100	132	97	0,32
125	157	97	0,38
160	192	97	0,47
180	200	97	0,54
200	232	97	0,57
224	260	97	0,72
250	280	139	1,13
280	315	139	1,20
300	355	139	1,27
315	355	139	1,45

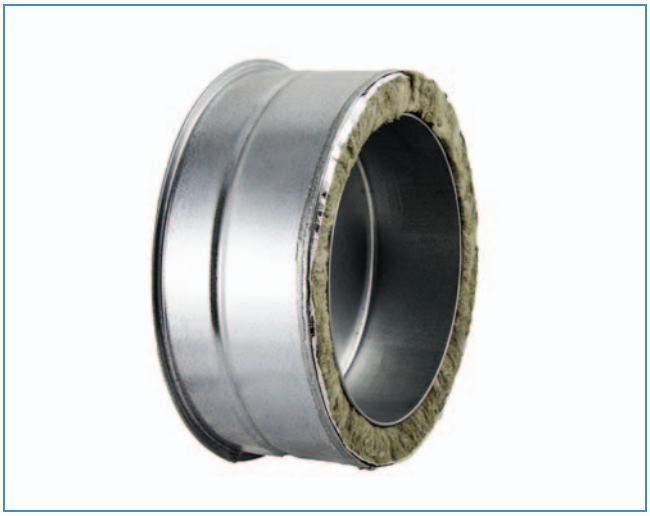
* = weight can vary ±10%.

Order code

INMF	125
Product	
Dimension Ød	

End cap

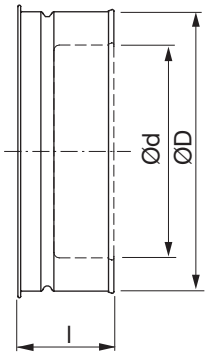
INBFC



Description

End cap is double-jacketed, insulated wiht mineral wool.
It fits to a fitting.

Dimensions



Ød nom	ØD mm	l mm	m* kg
80	112	60	0,22
100	132	60	0,26
125	157	60	0,35
160	192	60	0,46
180	200	60	0,54
200	232	60	0,67
224	260	60	0,82
250	280	80	0,96
280	315	80	1,23
300	355	80	1,30
315	355	80	1,50

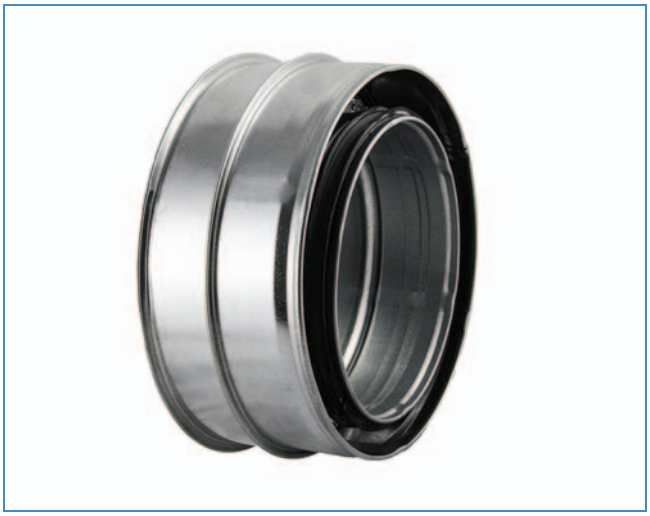
* = weight can vary ±10%.

Order code

INBFC	125
Product	
Dimension Ød	

End cap

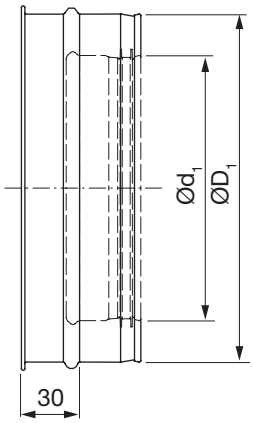
INBMC



Description

The end cap is double-jacketed, insulated with mineral wool and with Lindab Safe rubber seal on the inner dimension. It fits inside a duct.

Dimensions



Ød$_1$ nom	ØD$_1$ mm	m* kg
80	112	0,23
100	132	0,27
125	157	0,35
160	192	0,48
180	200	0,60
200	232	0,67
224	260	0,78
250	280	1,00
280	315	1,25
300	355	1,36
315	355	1,45

* = weight can vary ±10%.

Order code

	INBMC	125
Product		
Dimension Ød$_1$		

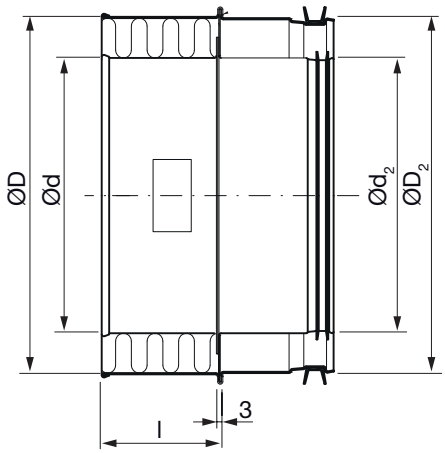
Endcap

INCCF

Description

Endcap used when going from INSRIP to insulated fitting, with male connection.

Dimensions



Ød nom	Ød$_2$ mm	ØD nom	ØD$_2$ mm	l mm	m* kg
80	80	112	112	48	0,31
100	100	132	132	48	0,38
125	125	157	157	48	0,45
160	160	192	192	48	0,53
180	180	200	200	48	0,62
200	200	232	232	48	0,72
224	224	260	260	48	0,82
250	250	280	280	68	1,28
280	280	315	315	68	1,43
300	300	355	355	68	1,65
315	315	355	355	68	1,70

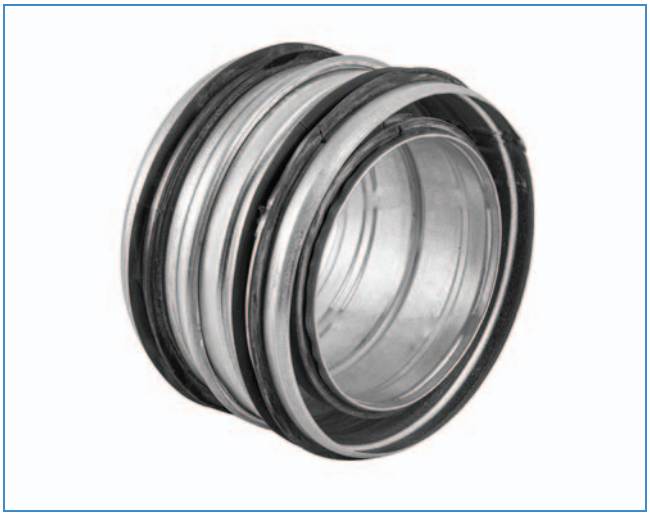
* = weight can vary ±10%.

Order code

	INCCF	200
Product		
Dimension Ød		

Endcap

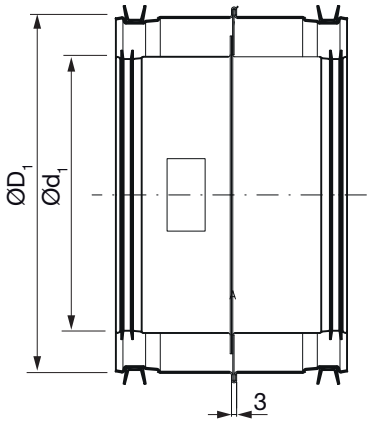
INCCM



Description

Endcap used when going from INSRIP to INSR.

Dimensions



Ød$_1$ nom	ØD$_1$ mm	m* kg
80	112	0,28
100	132	0,35
125	157	0,42
160	192	0,50
180	200	0,59
200	232	0,69
224	260	0,83
250	280	1,28
280	315	1,40
300	355	1,66
315	355	1,68

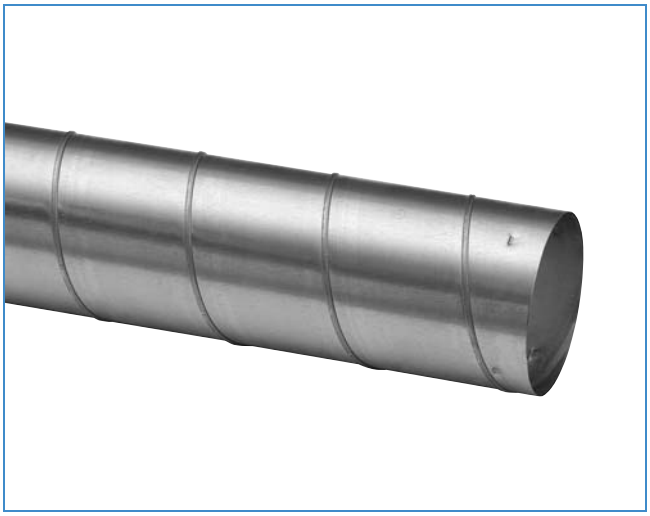
* = weight can vary ±10%.

Order code

INCCM	200
Product	
Dimension Ød	

Circular duct

SR



Description

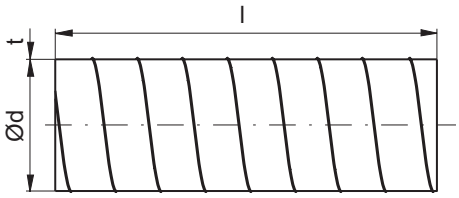
Circular duct.

Ducts are always produced locally and can therefore have different thicknesses and other specifications per country.

The ducts can be produced both with and without click function (notches).
Please specify when ordering.

Also available in other dimensions up to Ø400.

Dimensions



Ød std nom	O πd m	A πd²/4 m²	t std mm	l std mm	ml std kg/m
80	0,251	0,005	0,45	3000	0,91
100	0,314	0,008	0,45	3000	1,14
125	0,393	0,012	0,45	3000	1,41
160	0,503	0,020	0,5	3000	2,02
180	0,565	0,025	0,5	3000	2,26
200	0,628	0,031	0,5	3000	2,56
224	0,704	0,039	0,6	3000	3,42
250	0,785	0,049	0,5	3000	3,18

Order code

SR	200	3000	CLIC
Product			
Dimension Ød			
Lenght l			
Type			

Circular duct SR

Technical data

Special versions

We can supply ducts with the following special designs:

- In intermediate dimensions
- In other sheet metal thicknesses

Extra tight, with seam seal
When extremely good sealing is required in the spiral seam, the ducts can also be supplied with a special rubber seal in the seam.

This seal is very effective at stopping leakage of vegetable oils and greases, and most petroleum products.

Other sheet metal thicknesses
If extra stability is needed in ducts, because of high negative pressure etc., they can be supplied with thicker sheet metal than the standard. Remember that the thickness increase always reduces the inner diameter. Fittings for such special ducts must be specified separately and sometimes have to be specially made.

Strength

Positive pressure
in case of high positive pressure, the seal moulding lips will first start to whistle. At considerably higher pressure, the joints between the ducts will be forced apart. If you manage to fix the connections very well, the ducts will burst at their seams at even higher pressure. The high pressures needed for this to happen are not relevant to ventilation installations.

Negative pressure
In installations with high negative pressure, there is a risk that the ducts could collapse.

This phenomenon is referred to as buckling, and can suddenly happen at the weakest point in the system. Buckling wanders along the duct, which can be completely flattened. The weakest point is frequently a "transport dent" on a duct. For this reason, only use undamaged ducts in systems which are close to the critical pressure!

Sealing
The ability of the seal moulding to seal is different from these pressures.

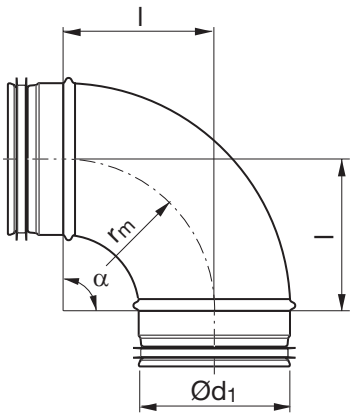
Bend

BU 90°

Description

Pressed and seam welded bend.

Dimensions



$r_m \approx 1 \cdot d_1$

Ød1 nom	l mm	m kg
80	105	0,26
100	100	0,31
125	125	0,48
160	160	0,62
180	180	1,02
200	200	1,12
224	225	1,33
250	242	1,77

Order code

BU	100	90°
Product		
Dimension Ød1		
Angle α		

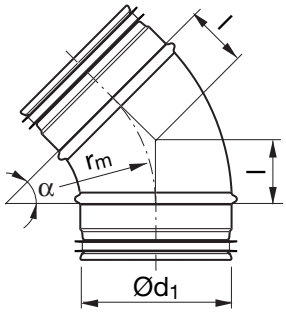
Bend

BU 45°

Description

Pressed and seam welded bend.

Dimensions



$r_m \approx 1 \cdot d_1$

$Ød_1$ nom	l mm	m kg
80	41	0,17
100	41	0,21
125	52	0,29
160	66	0,48
180	76	0,65
200	83	0,80
224 *	93	0,82
250 *	103	1,05

Order code

BU	125	45°
Product		
Dimension $Ød_1$		
Angle α		

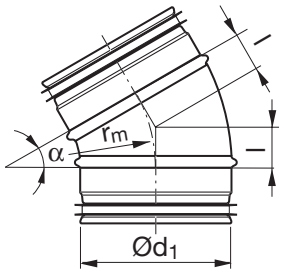
Bend

BU 30°

Description

Pressed and seam welded bend.

Dimensions



$r_m \approx 1 \cdot d_1$

Ød1 nom	l mm	m kg
80	27	0,15
100	27	0,18
125	33	0,20
160	43	0,32
180	48	0,51
200	54	0,62
224	60	0,72
250	67	0,91

Order code

BU	125	30°
Product		
Dimension Ød1		
Angle α		

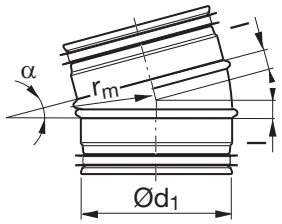
Bend

BU 15°

Description

Pressed and seam welded bend.

Dimensions



$r_m \approx 1 \cdot d_1$

Ød1 nom	l mm	m kg
80 *	13	0,11
100	13	0,15
125	16	0,18
160	21	0,24
180 *	24	0,37
200	26	0,35
224 *	30	0,56
250 *	33	0,65

* Segmented and lockseamed

Order code

BU	125	15°
Product		
Dimension Ød1		
Angle α		

Reducer

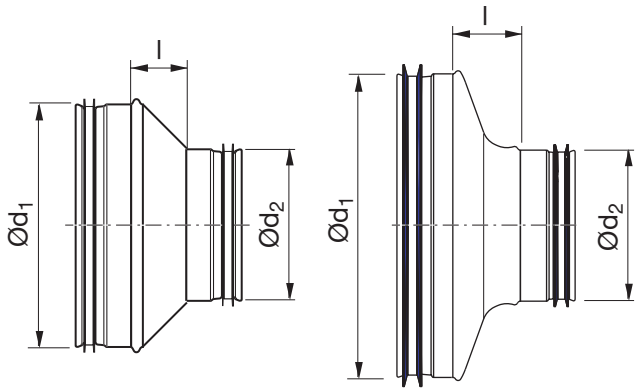
RCU

Description

Pressed, concentric reducer to meet demands for short installation length with low pressure drop and low internal noise generation.

Also available in other dimensions up to Ø400.

Dimensions



Ød1 nom	Ød2 nom	l mm	m kg
80	63	18	0,12
100	63	30	0,17
100 *	80	26	0,18
125 *	63	38	0,2
125 *	80	36	0,16
125 *	100	27	0,21
160	80	55	0,31
160 *	100	46	0,17
160 *	125	35	0,22
180	100	55	0,24
180	125	40	0,37
180	160	20	0,26
200 *	100	46	0,22
200 *	125	55	0,30
200 *	160	39	0,29
200	180	26	0,35
224	160	44	0,53
224	180	34	0,48
224	200	24	0,45
250	125	70	0,62
250 *	160	60	0,46
250	180	47	0,59
250 *	200	42	0,46
250	224	29	0,57

* With stream-lined transition

Order code

RCU	200	180
Product		
Dimension Ød1		
Dimension Ød2		

Reducer

RCFU

Description

Pressed, concentric reducer with female coupling, with a 45° angle to meet demands for short installation length with low pressure drop and low internal noise generation. Ød fits outside another fitting.

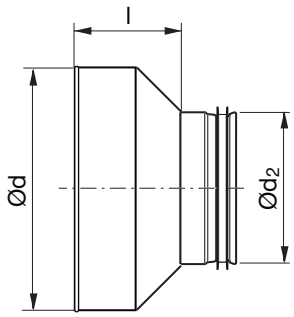
Has Click function at the Safe end – has an open turned-over end.
Has normally not any Click function at the female end – hasn't any notches.
Ø 80–315 can upon order be delivered with click function at the female end as well – i.e. with notches.

Also available in other dimensions up to Ø400.

Order code

	RCFU	200	180
Product			
Dimension Ød			
Dimension $Ød_2$			

Dimensions



Ød nom	$Ød_2$ nom	l mm	m kg
100 *1	80	61	0,16
125 *1	80	73	0,16
125 *1	100	64	0,14
160 *	80	92	0,24
160 *1	100	83	0,16
160 *1	125	71	0,20
180	100	98	0,24
180	125	85	0,31
180	160	66	0,27
200 *1	100	84	0,23
200 *1	125	90	0,27
200 *1	160	73	0,26
200	180	63	0,32
224	160	87	0,49
224	180	76	0,46
224	200	66	0,45
250 *	125	133	0,57
250 *1	160	117	0,40
250	180	107	0,55
250 *1	200	103	0,42
250	224	89	0,53

* With turned-over edge
[1] With stream-lined transition

Reducer

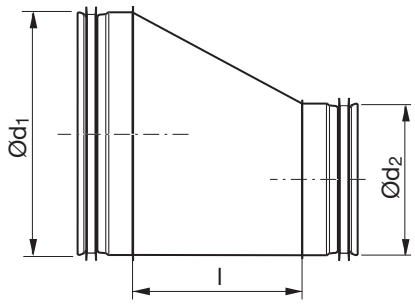
RLU

Description

Long, tangential, hand made reducer with approx. 35° angle.

Also available in other dimensions up to Ø400.

Dimensions



Ød1 nom	Ød2 nom	l mm	m kg
100	80	58	0,18
125	80	92	0,26
125	100	64	0,24
160	80	140	0,42
160	100	112	0,40
160	125	78	0,36
180	80	167	0,51
180	100	140	0,49
180	125	106	0,46
180	160	58	0,41
200	80	195	0,61
200	100	167	0,59
200	125	133	0,55
200	160	85	0,50
200	180	58	0,46
224	100	200	0,72
224	125	166	0,68
224	160	118	0,63
224	180	90	0,58
224	200	63	0,53
250	100	236	0,94
250	125	202	0,90
250	160	154	0,87
250	180	126	0,80
250	200	99	0,75
250	224	66	0,67

Order code

RLU	200	160
Product		
Dimension Ød1		
Dimension Ød2		

Saddle

PSU

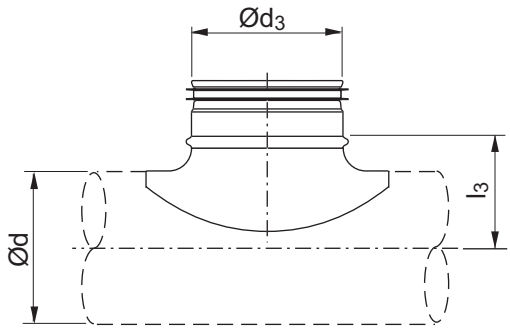
Description

Pressed saddle with aerodynamic flow radius facing the branch.

Some PSUs fit several dimensions of main pipe.

Also available in other dimensions up to Ø400.

Dimensions



Order code

	PSU	125	100
Product			
Dimension Ød			
Dimension Ød3			

Dimensions

Ød nom	Ød3 nom	l3 mm	m kg
80	80	52	0,13
100	80	60	0,14
100	100	65	0,18
125	80	75	0,13
125	100	78	0,18
125	125	83	0,25
160	80	92	0,10
160	100	95	0,18
160	125	100	0,18
160	160	105	0,26
180	80	102	0,09
180	100	105	0,19
180	125	110	0,25
180	160	115	0,27
180	180	115	0,48
200	80	112	0,09
200	100	115	0,19
200	125	115	0,25
200	160	125	0,27
200	180	125	0,45
200	200	125	0,39
224	80	124	0,12
224	100	127	0,18
224	125	132	0,23
224	160	137	0,24
224	180	137	0,41
224	224	137	0,64
250	80	137	0,12
250	100	140	0,18
250	125	145	0,23
250	160	150	0,24
250	180	150	0,41
250	200	150	0,34
250	224	150	0,63
250	250	150	0,80

* Hand made without radius.

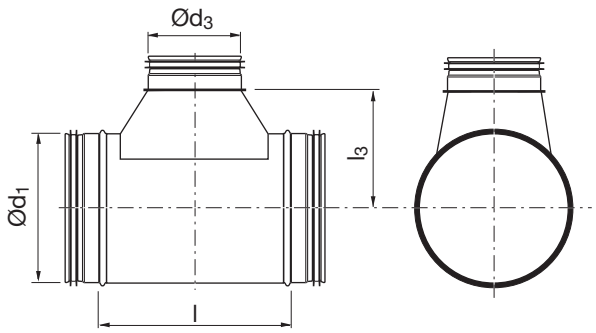
T-piece

TCU

Description

Centric T-piece with hand made T-piece TSTCU.
Also available in other dimensions up to Ø400.

Dimensions



Ød1 nom	Ød3 nom	l mm	l3 mm	m kg
100	125	240	95	0,56
100	160	280	100	0,68
125	160	280	115	0,77
125	180	300	115	0,85
125	200	335	130	1,01
160	180	335	145	1,21
160	200	335	145	1,21
160	250	385	145	1,52
180	200	335	155	1,32
180	224	360	155	1,41
180	250	385	155	1,58
200	224	360	165	1,50
200	250	385	165	1,68
224	200	385	180	1,94
224	250	385	180	1,94

Order code

	TCU	1800	630
Product			
Dimension Ød1			
Dimension Ød3			

T-piece

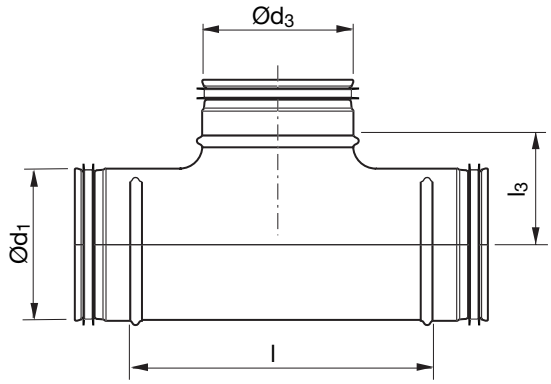
TCPU

Description

T-piece built with PSU saddle or a fully pressed top section.

Also available in other dimensions up to Ø400.

Dimensions



Order code

	TCPU	250	160
Product			
Dimension Ød1			
Dimension Ød3			

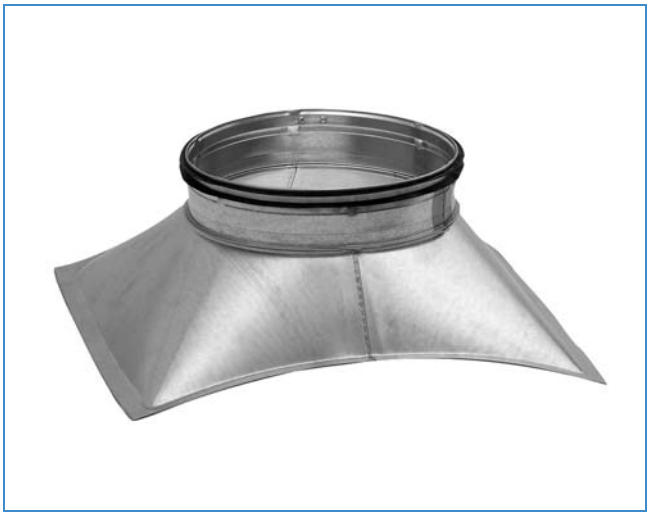
Dimensions

Ød1 nom	Ød3 nom	l mm	l3 mm	m kg
80	80	140	52	0,36
100	80	97	60	0,23
100	100	130	65	0,32
125	80	97	72	0,34
125	100	130	78	0,37
125	125	165	83	0,44
160	80	140	92	0,59
160	100	130	95	0,46
160	125	166	100	0,53
160	160	209	105	0,63
180	80	140	102	0,92
180	100	175	105	0,80
180	125	215	110	0,91
180	160	260	115	1,06
180	180	285	115	1,44
200	80	140	112	0,77
200	100	175	115	0,88
200	125	215	115	1,02
200	160	209	125	0,67
200	180	285	125	1,35
200	200	249	125	1,21
224	80	140	124	0,85
224	100	175	127	1,01
224	125	215	132	1,14
224	160	260	137	1,28
224	180	285	137	1,46
250	80	156	137	1,13
250	100	175	140	1,22
250	125	220	145	1,48
250	160	256	150	1,58
250	180	306	150	1,79
250	200	306	150	1,78
250	224	350	150	2,09
250	250	296	150	1,65

* Hand made with saddle without radius.

T-piece

TSTCU

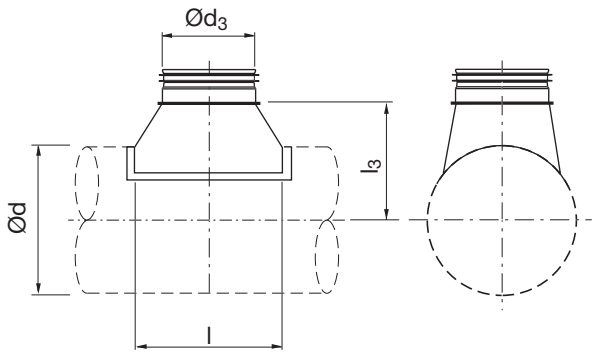


Description

Hand made centric T-piece.

Also available in other dimensions up to Ø400.

Dimensions



Ød nom	Ød3 nom	l mm	l3 mm	m kg
80	100	165	85	0,21
80	125	190	85	0,29
100	125	190	95	0,25
100	160	230	100	0,36
125	160	230	115	0,35
125	180	250	115	0,41
125	200	285	130	0,50
160	180	250	130	0,47
160	200	285	145	0,57
160	224	310	145	0,65
160	250	335	145	0,85
180	200	285	155	0,62
180	224	310	155	0,69
180	250	335	155	0,82
200	224	310	165	0,66
200	250	335	165	0,79
224	200	285	180	0,63
224	250	335	180	0,84

Order code

	TSTCU	400	500
Product			
Dimension Ød			
Dimension Ød3			

Take-off

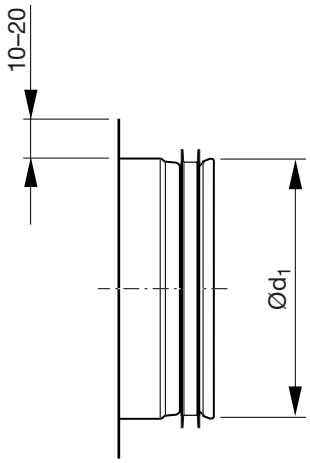
ILU

Description

Take-off without radius.

Also available in other dimensions up to Ø400.

Dimensions



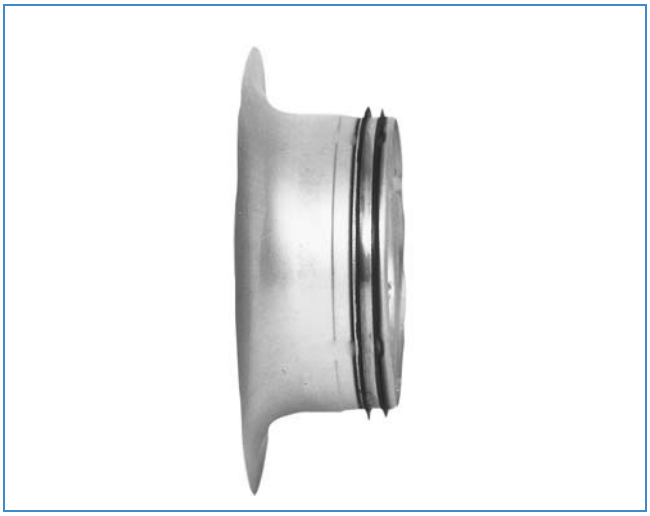
Ød1 nom	m kg
80	0,07
100	0,08
112	0,09
125	0,11
140	0,12
150	0,12
160	0,16
180	0,15
200	0,17
224	0,23
250	0,33

Order code

	ILU	250
Product		
Dimension Ød1		

Take-off

ILRU

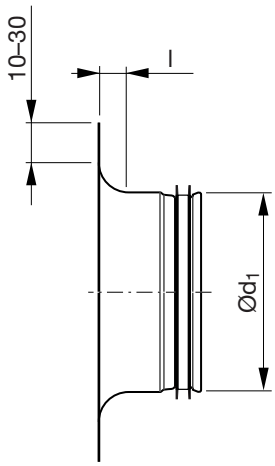


Description

Take-off with radius.

Also available in other dimensions up to Ø400.

Dimensions



Ød1 nom	l mm	m kg
80	12	0,10
100	15	0,11
125	20	0,14
160	25	0,19
180	25	0,30
200	25	0,26
224	25	0,46
250	25	0,57

Order code

	ILRU	250
Product		
Dimension Ød1		

Take-off

ILF

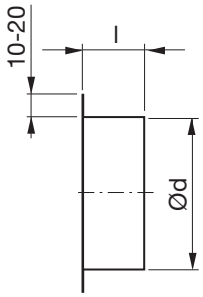
Description

Take-off without radius. With female end – fits outside a Safe fitting.

Hasn't any Click function – hasn't any notches.

Also available in other dimensions up to Ø400.

Dimensions



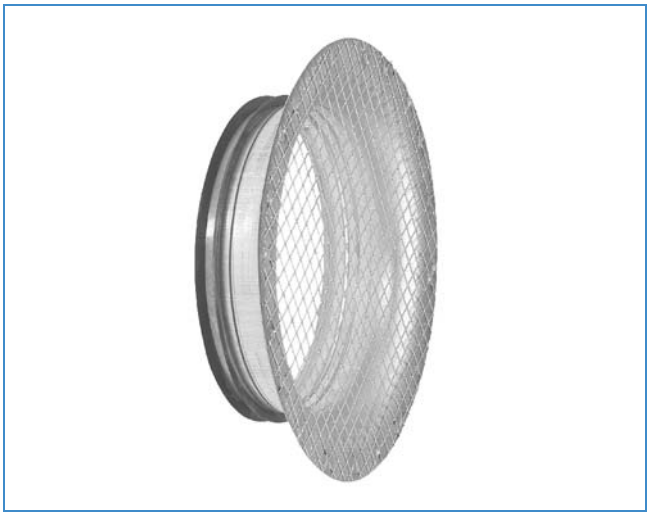
Ød nom	l mm	m kg
100	45	0,06
125	45	0,08
160	45	0,16
180	45	0,19
200	45	0,21
224	45	0,26
250	65	0,31

Order code

	ILF	200
Product		
Dimension Ød		

Take-off with mesh

ILRNU



Description

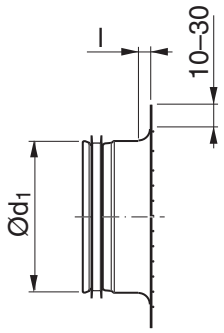
To terminate an inlet duct.

With radius.

Mesh size 10 × 10 mm

Also available in other dimensions up to Ø400.

Dimensions



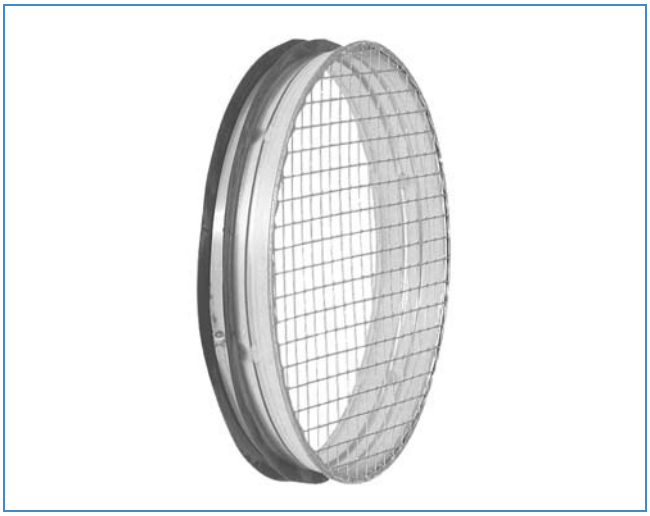
Ød1 nom	l mm	m kg
80	12	0,11
100	15	0,16
125	20	0,21
140	20	0,24
150	20	0,27
160	25	0,22
180	25	0,34
200	25	0,39
224	25	0,51
250	25	0,64

Order code

	ILRNU	200
Product		
Dimension Ød1		

Take-off with mesh

ESNU



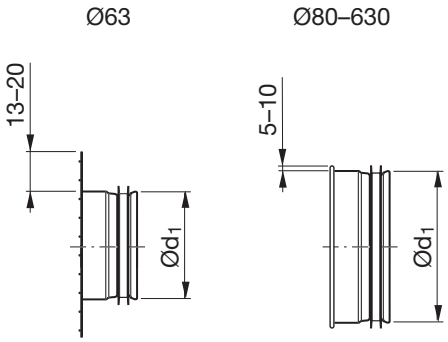
Description

To terminate an inlet duct.

Mesh size 10 × 10 mm.

Also available in other dimensions up to Ø400.

Dimensions



Ød1 nom	m kg
80	0,08
100	0,10
125	0,13
160	0,17
180	0,21
200	0,25
224	0,31
250	0,38

Order code

	ESNU	200
Product		
Dimension Ød1		

Coupling

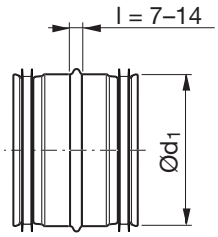
NPU

Description

Coupling connector for joining circular ducts.

Also available in other dimensions up to Ø400.

Dimensions



Ød1 nom	m kg
63	0,07
80	0,09
100	0,12
125	0,15
160	0,19
180	0,25
200	0,30
224	0,30
250	0,52

Order code

	NPU	200
Product		
Dimension Ød1		

Slide-in coupling

SNPU

Description

Areas of use:

- To eliminate the accurate length cutting of ducts which the ordinary NPU connector sometimes requires when joining SR ducts. In this case the slide-in coupling shall be secured with screws or pop rivets.
- To make it possible to use a duct that is cut to a too short length – instead of having to cut a new duct to the correct length. In this case the slide-in coupling shall be secured with screws or pop rivets.
- To assist when joining two ducts which run towards each other. E.g. when building a system from two opposing directions. In this case the slide-in coupling shall be secured with screws or pop rivets.
- To assist when inserting or adding an other product into an existing system. E.g. the addition of a new piece of duct to replace a damaged part. In this case the slide-in coupling shall be secured with screws or pop rivets.
- To facilitate access when inspecting and/or cleaning a system – by simply sliding the coupling. The coupling acts as an access cap. Lindab do not recommend this use of larger dimensions than Ø315.

No Click function – has closed turned-over ends (at both ends).

Also available in other dimensions up to Ø400.

Order code

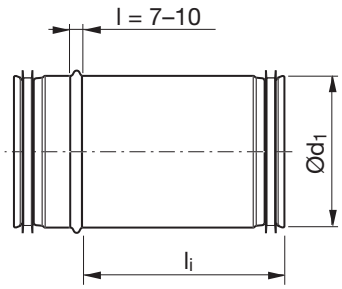
SNPU 160 150

Product

Dimension $Ød_1$

Nominal length L

Dimensions



$Ød_1$ nom	L nom	l_i mm	m kg
80	150	133	0,18
80	300	284	0,32
80	500	548	0,69
100	150	133	0,22
100	300	284	0,40
100	500	548	0,84
125	150	133	0,28
125	300	284	0,50
125	500	548	1,07
160	150	133	0,36
160	300	284	0,65
160	500	548	1,38
180	150	133	0,40
180	300	284	0,72
180	500	548	1,53
200	150	133	0,56
200	300	293	1,02
200	500	548	1,76
224	150	133	0,62
224	300	293	1,13
224	500	548	1,95
250	150	177	0,91
250	300	297	1,35
250	500	527	2,17

Female coupling

MF

Description

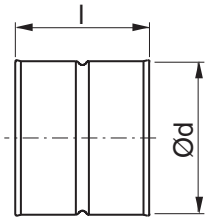
Female coupling for joining fittings.

Has normally not any Click function – hasn't any notches.

Ø 80–315 can upon order be delivered with click function – i.e. with notches.

Also available in other dimensions up to Ø400.

Dimensions



Ød nom	l mm	m kg
80 *	97	0,08
100 *	97	0,10
125 *	97	0,14
160 *	97	0,21
180	97	0,24
200 *	97	0,26
224	97	0,30
250 *	139	0,42

* With turned-over edge

Order code

MF	200
Product	
Dimension Ød	

Slide-in female coupling SMFU

Description

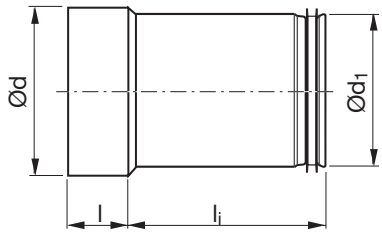
Areas of use:

- To avoid the necessity of an exact length cutting of a duct when it is difficult to take a proper measure. E.g. the connection of a duct to a stub on an air supply terminal. In this case the slide-in coupling shall be secured with screws or pop rivets.
- To make it possible to use a duct that is cut to a too short length – instead of having to cut a new duct to the correct length. In this case the slide-in coupling shall be secured with screws or pop rivets.
- To eliminate or minimize the number of ordinary duct cuttings at building site – together with pre-cut ducts of shorter lengths. In this case the slide-in coupling shall be secured with screws or pop rivets.
- To assist when inserting or adding an other product into an existing system. E.g. the cutting-in of an extra silencer. In this case the slide-in coupling shall be secured with screws or pop rivets.
- To assist when removing an other product when cleaning a system. E.g. the removal of a damper with a obstructionable blade. Lindab do not recommend this use of larger dimensions than Ø315.
- To facilitate access when inspecting and/or cleaning a system – by simply sliding the coupling. The coupling acts as an access cap. Lindab do not recommend this use of larger dimensions than Ø315.
- To extend the distance between a T-piece and an access cap, e.g. EPFH or KCU, to get the cap outside any insulation. In this case the slide-in coupling shall be secured with screws or pop rivets only at its female end.

No Click function – has a closed turned-over end and hasn't any notches.

Also available in other dimensions up to Ø400.

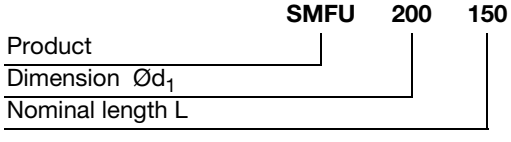
Dimensions



Ød1 nom	L nom	l mm	li mm	m kg
80	150	40	127	0,16
80	300	40	288	0,30
80	500	40	552	0,65
100	150	40	127	0,20
100	300	40	288	0,38
100	500	40	552	0,81
125	150	40	127	0,25
125	300	40	288	0,47
125	500	40	552	1,01
160	150	40	127	0,31
160	300	40	288	0,60
160	500	40	552	1,29
180	150	40	127	0,35
180	300	40	288	0,68
180	500	40	552	1,45
200	150	40	127	0,49
200	300	40	297	0,96
200	500	40	552	1,67
224	150	40	127	0,55
224	300	40	297	1,08
224	500	40	552	1,87
250	150	60	192	0,90
250	300	60	302	1,28
250	500	60	537	2,10

* With stiffening bead.

Order code



End cap

EPF

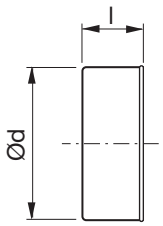
Description

End cap, which fits outside a Safe fitting.

No Click function – no notches.

Also available in other dimensions up to Ø400.

Dimensions



Ød nom	l mm	m kg
80 *	48	0,07
100 *	48	0,11
125 *	48	0,14
160 *	48	0,17
180	48	0,24
200 *	46	0,21
224	46	0,35
250 *	68	0,50

* With turned-over edge

Order code

	EPF	250
Product		
Dimension Ød		

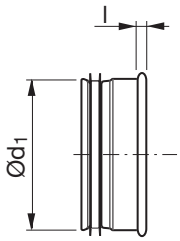
End cap

ESU

Description

End cap, fits SR duct.
Also available in other dimensions up to Ø400.

Dimensions



Ød$_1$ nom	l mm	m kg
80	10	0,08
100	10	0,12
125	10	0,14
160	10	0,24
180	10	0,28
200	10	0,32
224	10	0,40
250	10	0,37

Order code

ESU	160
Product	
Dimension Ød$_1$	

Circular straight silencer SLU

Description

SLU 50 is a circular straight silencer with a connection diameter available between 63 - 400 mm.

Nominal insulation thickness 50 mm. Attenuation material is mineral wool. The SLU's are made of strong outer spiral seemed tube and an inner tube made of sheet steel with small openings to be able to withstand mechanical cleaning and at the same time not interfere with the insertion loss. The space between them is filled with mineral wool and a nonwoven cloth is inserted between inner tube and the attenuation material, to prevent fibers from the insulation getting into the duct system.

Tested according to ISO 7235 standard.

Special materials and sizes, please contact Lindab sales.

Order code

Product	SLU	aaa	bbbb	50

SLU

Connection dim. $Ød_{1nom}$

63 - 250 mm

Length in mm (l_{nom})

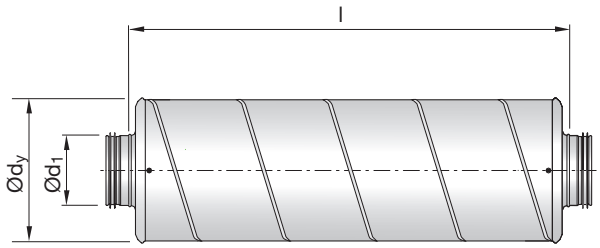
300 - 1200 mm

Insulation thickness

50 mm

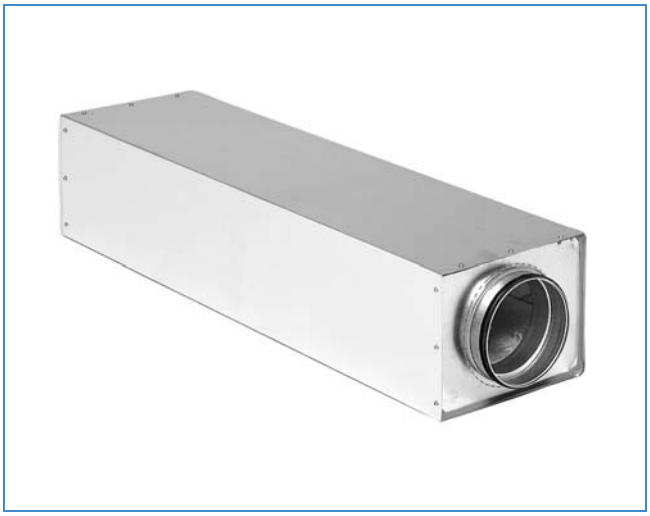
Example: SLU -125- 600 - 50

Dimensions



Ød$_{1\ nom}$ mm	l_{nom} mm	Attenuation in dB for centre frequency Hz 63	125	250	500	1k	2k	4k	8k	Ød$_y$ mm	l mm	m kg
80	300	1	5	8	15	25	25	21	15	190	300	2,0
80	600	2	8	14	28	49	50	47	24	190	600	3,0
80	900	3	10	21	40	50	50	50	34	190	900	5,0
80	1200	4	13	27	50	50	50	50	43	190	1200	7,0
100	300	1	5	7	15	25	25	21	13	210	360	2,0
100	600	1	7	12	25	43	48	35	20	210	660	3,0
100	900	2	10	17	34	50	50	49	28	210	960	5,0
100	1200	3	12	22	44	50	50	50	35	210	1260	7,0
125	300	0	4	5	13	23	20	16	11	235	365	3,0
125	600	1	5	10	22	39	37	26	16	235	665	4,0
125	900	1	7	14	30	50	50	37	21	235	965	7,0
125	1200	2	9	18	39	50	50	47	26	235	1265	9,0
160	300	0	3	5	11	22	16	11	7	270	370	3,0
160	600	1	4	8	19	37	28	17	11	270	670	6,0
160	900	1	5	12	27	50	39	24	14	270	970	8,0
160	1200	2	6	15	35	50	50	30	17	270	1270	10,0
200	300	0	2	4	9	19	11	7	5	310	385	4,0
200	600	1	3	8	15	28	19	12	8	310	685	7,0
200	900	2	4	11	21	37	28	16	10	310	985	10,0
200	1200	2	5	14	27	46	36	21	13	310	1285	12,0
250	600	1	2	6	14	26	14	8	7	365	600	9,0
250	900	1	3	9	19	38	19	11	9	365	900	12,0
250	1200	2	4	11	24	50	24	13	11	365	1200	15,0

Low-built silencer LRCA



Description

Straight silencer with circular connection and low installation height.

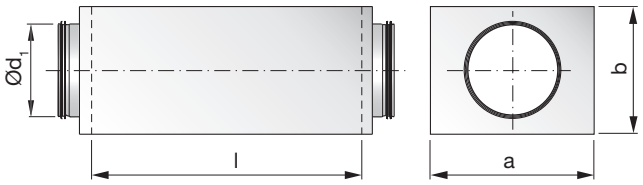
LRCA dimensions make it particularly suitable for installation above suspended ceilings or where space is otherwise limited.

Fulfils tightness class C.

Tested according to ISO 7235 standard.

Special materials and sizes, please contact Lindab sales.

Dimensions



Ød1 mm	l mm	a mm	b mm	Insertion loss [dB] for centre frequency [Hz] 63	125	250	500	1k	2k	4k	8k	m kg
100	500	210	158	8	12	12	23	44	45	30	18	3,2
100	1000	210	158	17	18	25	41	50	50	50	32	5,6
125	500	239	181	8	9	11	21	36	36	23	14	3,9
125	1000	239	181	17	14	21	38	50	50	45	23	6,9
160	500	275	218	6	7	10	18	28	24	13	10	4,4
160	1000	275	218	9	10	19	36	50	49	24	17	7,9
200	500	328	254	5	6	9	16	22	17	7	7	5,7
200	1000	328	254	11	13	15	30	46	36	14	12	10,1
250	500	390	308	5	4	8	16	19	13	6	6	7,2
250	1000	390	308	11	7	14	31	41	26	12	9	13,0

Order code

Product	LRCA	aaa	bbbb
LRCA			
Connection dim. Ød1			
Ød1 = 100 - 400 mm			
Length in mm			
l = 500 - 1000 mm			

Example: LRCA - 125 - 1000

Semiflexible double duct silencer

SLFA 50

Description

SLFA 50 is a flexible silencer that can be adapted to any installation situation. The bendability of the silencer allows adaptation to very confined spaces and difficult wiring.
Silencers are made from 2-layer, flexible aluminium tubes of type SRF. The inner tube is micro-perforated and between the inner and outer tubes is a 50 mm thick attenuation material layer of glass wool.
The attenuation material reduces the noise passing through the silencer.
The ends of the silencer are covered with aluminium gables.
The duct connections fits inside ducts.
SLFA 50 comes in the dimensions Ø80-250 mm and 1000 mm in length.
(Also available in lengths of 750, 1250, 1500 and 2000 mm).
The silencers can withstand temperatures up to 200 ºC.

Order code

Product SLFA aaa bbbb 50

SLFA

Connection dim. $Ød_{1\ nom}$

80 - 315 mm

Length in mm

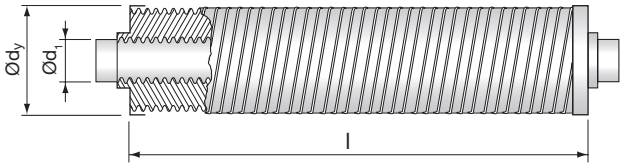
750 - 2000 mm

Insulation thickness

50 mm

Example: SLFA - 160 - 1250 - 50

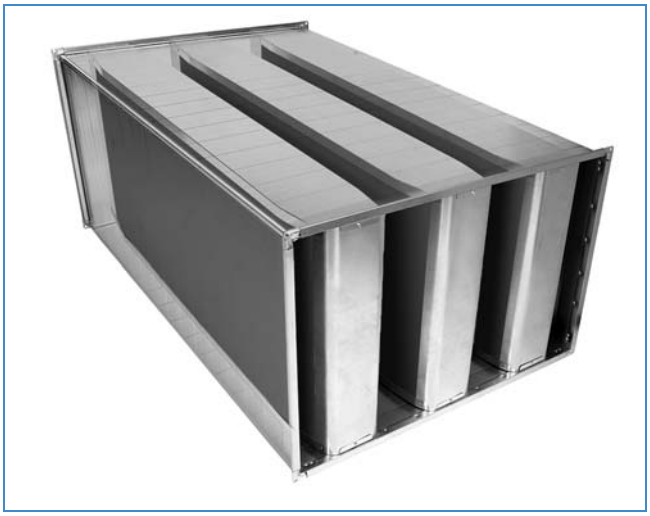
Dimensions



$Ød_1$ nom mm	l mm	Attenuation in dB for centre frequency Hz 63	125	250	500	1k	2k	4k	8k	$Ød_y$ mm	m kg
80	750									190	
80	1000	3	13	19	30	47	58	33	28	190	1,10
80	1250									190	
80	1500									190	
80	2000									190	
100	750									210	
100	1000	2	11	16	28	46	58	36	36	210	1,30
100	1250									210	
100	1500									210	
100	2000									210	
125	750									235	
125	1000	1	7	13	24	41	45	29	28	235	1,70
125	1250									235	
125	1500									235	
125	2000									235	
160	750									260	
160	1000	1	5	10	21	39	30	20	18	260	1,90
160	1250									260	
160	1500									260	
160	2000									260	
200	750									310	
200	1000	3	4	9	16	32	22	15	15	310	2,40
200	1250									310	
200	1500									310	
200	2000									310	
250	750									365	
250	1000	2	4	8	16	33	15	11	12	365	3,00
250	1250									365	
250	1500									365	
250	2000									365	
315	750									410	
315	1000	2	3	6	12	25	11	8	11	410	3,40
315	1250									410	
315	1500									410	
315	2000									410	

Silencer

SLRS



Description

Rectangular straight silencer from the Aerodim™ series. SLRS is built with the Aerodim™ silencer splitter SLRA.

The SLRA is manufactured with a frame of galvanized sheet and absorption material type Lindtec™. The splitter is available in a width of 200 mm. Silencer is equipped with flange profile RJFP or LS.

Due to the aerodynamic design, the SLRS has a low pressure loss and a low generation of flow noise. To calculate the silencer, you can use our IT-program lindQST or DIMsilencer, where splitter distance, length and height can be optimized for the best performance.

Tested according to ISO 7235 standard.

Order code

Product SLRS 200 bbb* cccc dddd aaaa bb

SLRS

Splitter width in mm

Max. 200 mm

Splitter distance in mm

Max. 100 mm

100

1200

900

1000

LS

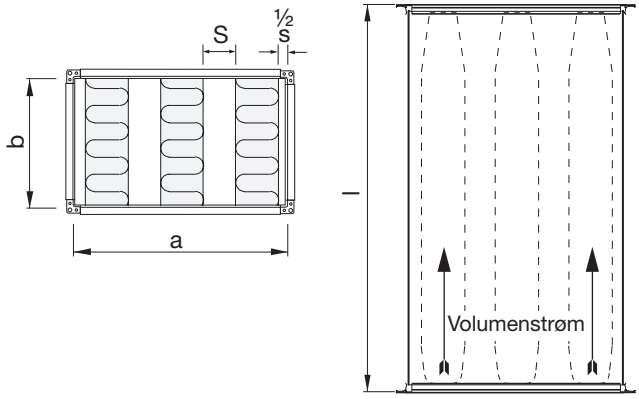
Mln. - Max. 500 - 2500 mm

Connection type

e.g. LS

Example: SLRS - 200 - 100 - 1200 - 900 - 1000 - LS

Dimensions



Splitter distance S = 60

Length l_{nom} mm	Attenuation in dB for centre frequency Hz 63	125	250	500	1k	2k	4k	8k	Pressure value ξ
750	4	9	18	26	35	32	22	16	8,9
1350	6	15	31	46	50	50	36	25	12,0
1500	7	16	34	50	50	50	39	27	12,9
1950	9	21	44	50	50	50	48	32	15,2
2550	11	26	50	50	50	50	50	37	18,5

Splitter distance S = 80

Length l_{nom} mm	Attenuation in dB for centre frequency Hz 63	125	250	500	1k	2k	4k	8k	Pressure value ξ
750	3	7	15	23	30	27	18	14	4,9
1350	5	12	26	40	50	48	30	21	6,5
1500	5	14	29	44	50	50	32	22	6,9
1950	7	18	38	50	50	50	40	26	8,1
2550	8	22	47	50	50	50	49	31	9,6

Splitter distance S = 100

Length l_{nom} mm	Attenuation in dB for centre frequency Hz 63	125	250	500	1k	2k	4k	8k	Pressure value ξ
750	3	6	13	20	26	22	15	11	2,8
1350	4	11	23	36	50	40	24	17	3,8
1500	5	12	26	40	50	44	27	18	4,0
1905	6	15	33	50	50	50	33	22	4,7
2550	7	19	43	50	50	50	40	26	5,6

Splitter distance S = 120

Length l_{nom} mm	Attenuation in dB for centre frequency Hz 63	125	250	500	1k	2k	4k	8k	Pressure value ξ
750	2	6	12	19	23	18	12	9	1,8
1350	4	10	21	33	45	33	20	14	2,4
1500	4	11	23	36	50	36	22	15	2,5
1950	5	14	30	47	50	47	27	18	3,0
2550	6	18	39	50	50	50	33	22	3,5

Silencer

SLRS

Technical data

Splitter distance S = 140

Length l_{nom} mm	Attenuation in dB for centre frequency Hz								Pressure value ξ
	63	125	250	500	1k	2k	4k	8k	
750	2	5	11	17	20	15	10	8	1,1
1350	3	9	19	30	39	27	17	12	1,5
1500	4	10	22	34	44	30	18	12	1,7
1950	4	12	28	44	50	38	22	15	2,0
2550	5	16	36	50	50	49	27	18	2,4

NB. Max. attenuation specified is 50 dB.

Standard lengths (l) : 750, 1350, 1500, 1950, 2550. (shown in table above).
Standard heights (b): 300, 600, 900, 1200,1800.

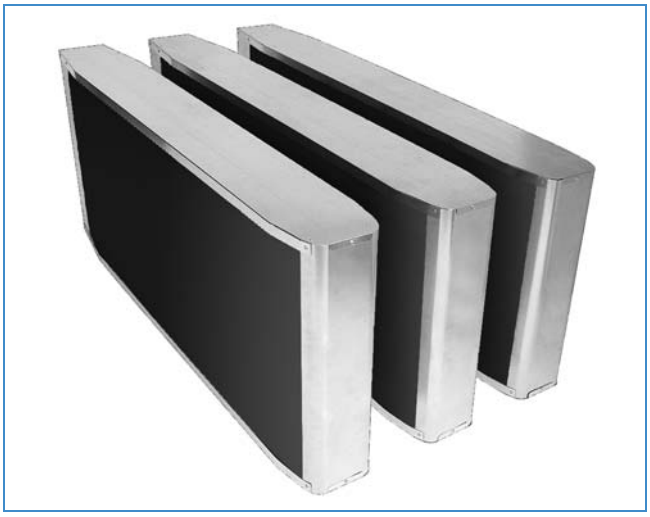
(Other lengths and heights are available. See min. - max. dimensions in order code. Note that you can exceed the max. dimensions by building together several SLRA/SLRS. See the AeroDim installation instruction for more details).

Special materials and sizes, please contact Lindab sales.

The pressure loss Δp in Pa can be calculated from the pressure value ξ: $\Delta p = 0{,}6 \times v2 \times \xi$, where (v) is the velocity on the face area of the silencer.

Silencer splitter

SLRA



Description

Aerodim-A is the basic element in the Aerodim™ silencer series.
The SLRA is manufactured with a frame of galvanized sheet and absorption material type Lindtec™.

The SLRA is available in a width of 200 mm. The Aerodim-A is also available in other lenghts and with other splitter distances than shown in the tabels.

Special materials and sizes, please contact Lindab sales.

The Lindtec™ surface is easy to clean and prevents removal of fibres. Due to the aerodynamic design, the SLRA has a low pressure loss and a low generation of flow noise. To calculate the silencer, you can use our IT-program DIMsilencer, where splitter distance, length and height can be optimized for the best performance.

Tested according to ISO 7235 standard.

Order code

Product — **SLRA** — **aaaa** — **bbbb**

SLRA

Height b i mm

Max. 1200 mm (in single SLRS*)

Length lnom i mm

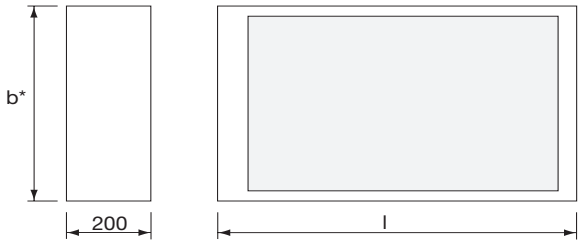
Max. 2500 mm

Example: SLRA - 600 - 1000

* The max. hight of the splitter can be increased by building two splitters on top of each other. See the SLRA / SLRS installation instruction for more details.

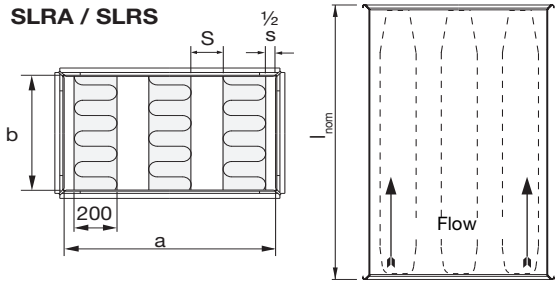
Dimensions

SLRA



b* = Manufactured height of splitter is b-5 mm, to fit into duct.

SLRA / SLRS



Technical data

Splitter distance S = 60 mm

Length l_{nom} mm	Attenuation in dB for centre frequency Hz								Pressure value ξ
	63	125	250	500	1k	2k	4k	8k	
700	4	9	18	26	35	32	22	16	8,9
1300	6	15	31	46	50	50	36	25	12,0
1450	7	16	34	50	50	50	39	27	12,9
1900	9	21	44	50	50	50	48	32	15,2
2500	11	26	50	50	50	50	50	37	18,5

Splitter distance S = 80 mm

Length l_{nom} mm	Attenuation in dB for centre frequency Hz								Pressure value ξ
	63	125	250	500	1k	2k	4k	8k	
700	3	7	15	23	30	27	18	14	4,9
1300	5	12	26	40	50	48	30	21	6,5
1450	5	14	29	44	50	50	32	22	6,9
1900	7	18	38	50	50	50	40	26	8,1
2500	8	22	47	50	50	50	47	31	9,6

Splitter distance S = 100 mm

Length l_{nom} mm	Attenuation in dB for centre frequency Hz								Pressure value ξ
	63	125	250	500	1k	2k	4k	8k	
700	3	6	13	20	26	22	15	11	2,8
1300	4	11	23	36	50	40	24	17	3,8
1450	5	12	26	40	50	44	27	18	4,0
1900	6	15	33	50	50	50	33	22	4,7
2500	7	19	42	50	50	50	39	25	5,6

Silencer splitter SLRA

Technical data

Splitter distance S = 120 mm

Length l_{nom} mm	Attenuation in dB for centre frequency Hz								Pressure value ξ
	63	125	250	500	1k	2k	4k	8k	
700	2	6	12	19	23	18	12	9	1,8
1300	4	10	21	33	45	33	20	14	2,4
1450	4	11	23	36	50	36	22	15	2,5
1900	5	14	30	47	50	46	27	18	3,0
2500	6	17	38	50	50	50	32	21	3,5

Splitter distance S = 140 mm

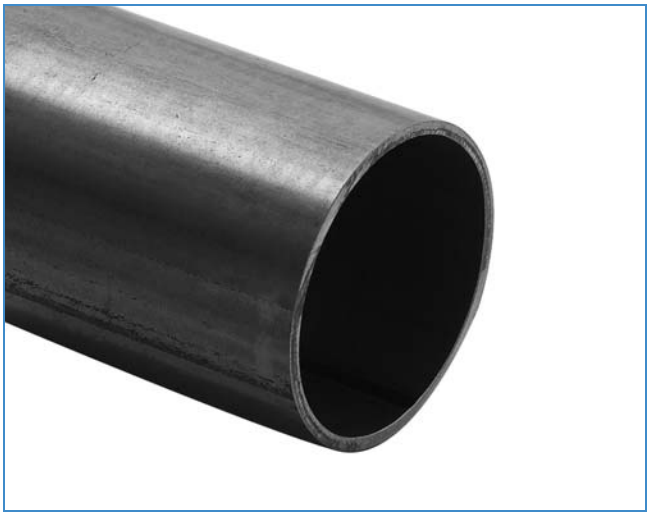
Length l_{nom} mm	Attenuation in dB for centre frequency Hz								Pressure value ξ
	63	125	250	500	1k	2k	4k	8k	
700	2	5	11	17	20	15	10	8	1,1
1300	3	9	19	30	39	27	17	12	1,5
1450	4	10	22	34	44	30	18	12	1,7
1900	4	12	28	44	50	38	22	15	2,0
2500	5	15	35	50	50	47	27	17	2,4

NB. Max. attenuation specified is 50 dB.

The pressure loss Δp in Pa can be calculated from the pressure value ξ: $\Delta p = 0{,}6 \times v^2 \times \xi$ where (v) is the velocity on the face area of the silencer.

Collar pipe

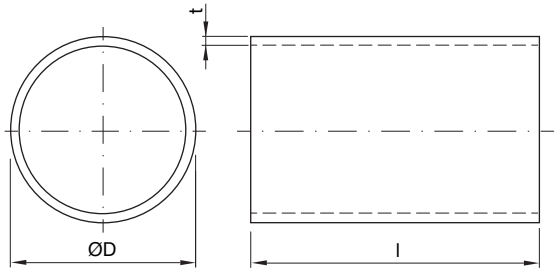
RGN



Description

The RGN is lead through the decks and bulkheads to connect the ducts or fittings.
Also available with yellow primer or in aluminium.

Dimensions



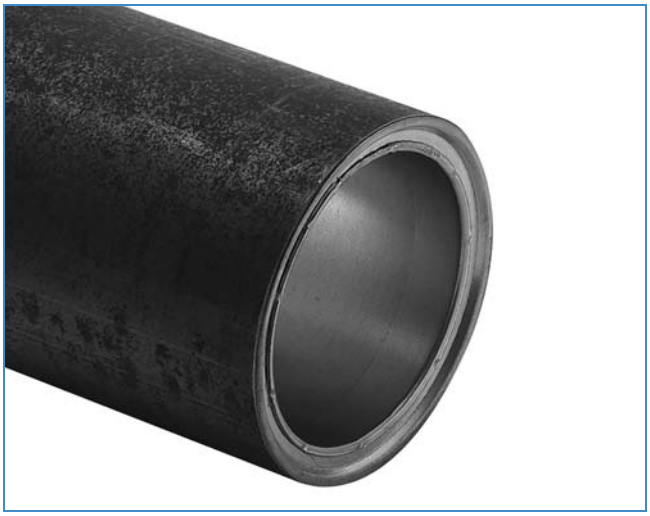
Ød nom	ØD mm	l mm	t mm	m kg
80	88,9	125	4,05	1,10
80	88,9	200	4,05	1,80
80	88,9	900	4,05	8,10
100	114,3	125	6,30	2,10
100	114,3	200	6,30	3,10
100	114,3	900	6,30	16,0
125	139,7	125	6,30	2,60
125	139,7	200	6,30	4,20
125	139,7	900	6,30	20,0
160	177,8	125	8,80	4,60
160	177,8	200	8,80	7,30
160	177,8	900	8,80	34,2
180	193,7	125	5,60	3,20
180	193,7	200	5,60	5,20
180	193,7	900	5,60	25,2
200	219,1	125	8,80	5,70
200	219,1	200	8,80	9,10
200	219,1	900	8,80	42,6
224	241,0	125	8,00	5,80
224	241,0	200	8,00	9,20
224	241,0	900	8,00	41,4
250	267,0	125	8,80	7,00
250	267,0	200	8,80	11,2
250	267,0	900	8,80	50,4

Order code

	RGN	125	900
Product			
Dimension Ød			
Lenght l			

Collar pipe

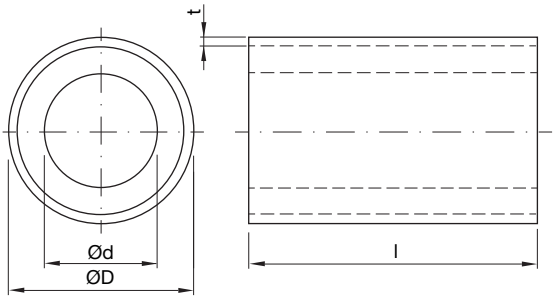
RGIN



Description

The RGIN is lead through the decks and bulkheads to connect the ducts or fittings, and is insulated with mineral wool. Also available with yellow primer or in aluminium.

Dimensions



Ød nom	ØD mm	l mm	t mm	m kg
80	114,3	125	3,60	1,30
80	114,3	200	3,60	2,00
80	114,3	900	3,60	9,00
100	139,7	125	6,30	2,90
100	139,7	200	6,30	4,60
100	139,7	900	6,30	21,5
125	159,0	125	4,50	2,60
125	159,0	200	4,50	4,10
125	159,0	900	4,50	19,5
160	193,7	125	5,60	3,60
160	193,7	200	5,60	5,80
160	193,7	900	5,60	27,2
180	219,1	125	4,50	3,40
180	219,1	200	4,50	5,40
180	219,1	900	4,50	25,7
200	244,5	125	6,30	5,20
200	244,5	200	6,30	8,30
200	244,5	900	6,30	39,0
224	267,0	125	6,30	5,60
224	267,0	200	6,30	9,00
224	267,0	900	6,30	40,5
250	298,5	125	8,80	8,85
250	298,5	200	8,80	14,2
250	298,5	900	8,80	64,0

Order code

RGIN 125 900

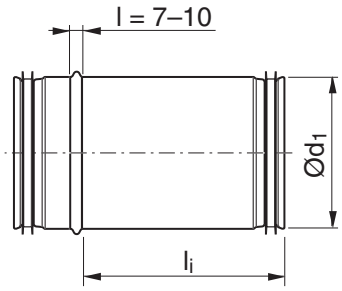
Product
Dimension Ød
Lenght l

Telescopic connector SKNPUK

Description

Telescopic connector, used with the collar pipes RGN or RGIN.

Dimensions



Ød1 nom	l mm	m kg
80	208	0,10
100	208	0,10
125	208	0,10
160	208	0,10
180	208	0,10
200	208	0,10
224	208	0,10
250	182	0,10

Order code

	SKNPUK	250
Product		
Dimension Ød1		

Damper

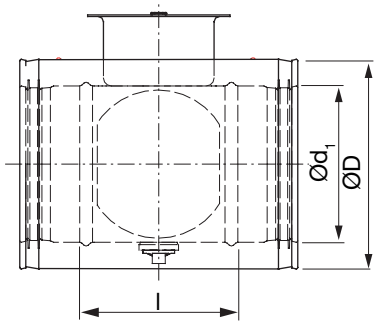
INDRU

Description

Manual regulation damper. The damper is double-jacketed and insulated with mineral wool and is supplied with Safe rubber seal on the inner dimension.

With stop bead to ensure correct installation.

Dimensions



Ød$_1$ nom	ØD mm	l mm	m* kg
80	112	100	0,62
100	132	100	0,74
125	157	100	0,95
160	192	100	1,09
180	200	100	1,30
200	232	100	1,45
224	260	100	2,02
250	280	100	2,46
280	315	100	2,73
300	355	100	2,94
315	355	100	3,18

* = weight can vary ±10%.

Order code

INDRU	125
Product	
Dimension Ød$_1$	

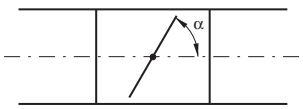
Regulating damper DRU

Description

Has a turning, cut-off blade. The blade is stepless adjustable 0–90°. The damper admits an insulation thickness of approx. 50 mm.

The blade is designed to generate a minimum of noise. The noise is approx. the same as for a perforated blade. But the blade is less sensitive to clogging since it lacks perforations.

Setting the blade angle at the rim of the cup (α)
α = 0° = open blade
α = 90° = closed blade



There is a separate assembly, measuring, balancing and maintenance instruction for this product.

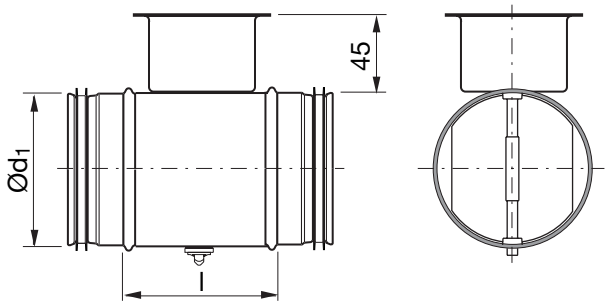
Ø 80–1000 fullfills pressure class A in closed position.

The cup at Ø 80–630 can be complemented with the special insulation cup IK at insulation thicker than 50 mm.

Order code

	DRU	125
Product		
Dimension Ød$_1$		

Dimensions



Ød$_1$ nom	l mm	m kg	Sealing class past closed blade
80	100	0,34	0
100	100	0,40	0
125	100	0,46	0
160	100	0,65	0
180	100	0,69	0
200	100	0,80	0
224	100	0,90	0
250	100	1,28	0

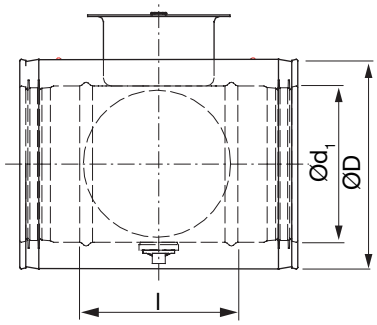
Damper

INDSU

Description

Manual closing damper, without sealing at the blade.
The damper is double-jacketed and insulated wiht mineral wool and is supplied wiht saferubber seal on the inner dimension.
With stop bead to ensure correct installation.

Dimensions



Ød$_1$ nom	ØD mm	l mm	m* kg
80	112	100	0,64
100	132	100	0,76
125	157	100	0,96
160	192	100	1,11
180	200	100	1,31
200	232	100	1,46
224	260	100	2,04
250	280	100	2,48
280	315	100	2,77
300	355	100	2,96
315	355	100	3,22

* = weight can vary ±10%.

Order code

	INDSU	**125**
Product		
Dimension Ød$_1$		

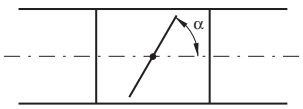
Shut-off damper DSU

Description

Has a turning, circular blade. The blade is stepless adjustable 0–90°. The damper is used when you have lower demands for shut-off capacity. The damper admits an insulation thickness of approx. 50 mm.

The damper can on occations be used for regulation.

Setting the blade angle at the rim of the cup (α)
α = 0° = open blade
α = 90° = closed blade



There is a separate assembly, measuring, balancing and maintenance instruction for this product.

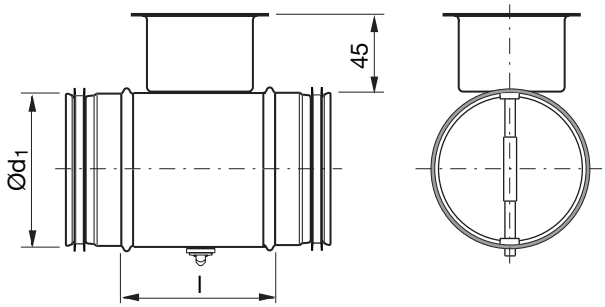
Ø 63–1000 fullfills pressure class A in closed position.

The cup at Ø 80–630 can be complemented with the special insulation cup IK at insulation thicker than 50 mm.

Order code

	DSU	160
Product		
Dimension Ød$_1$		

Dimensions



Ød$_1$ nom	l mm	m kg	Sealing class past closed blade
80	100	0,35	0
100	100	0,40	0
125	100	0,49	0
160	100	0,67	0
180	100	0,73	0
200	100	0,86	0
224	100	1,10	0
250	100	1,31	0

Damper

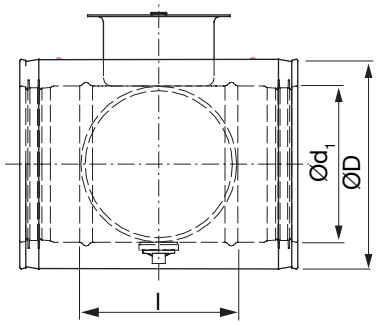
INDTU

Description

Insulated tight close damper. The damper is double-jacketed and insulated with mineral wool and is supplied with Safe rubber seal on the inner dimension.

With stop bead to ensure correct installation.

Dimensions



Ød$_1$ nom	ØD mm	l mm	m* kg
80	112	100	0,72
100	132	100	0,87
125	157	100	1,04
160	192	100	1,30
180	200	100	1,42
200	232	100	1,72
224	260	100	2,19
250	280	100	2,68
280	315	100	3,00
300	355	100	3,25
315	355	100	3,50

* = weight can vary ±10%.

Order code

	INDTU	**125**
Product		
Dimension Ød$_1$		

Shut-off damper DTU

Description

Has a turning circular blade with an EPDM-rubber seal which tightens against the inside of the damper when closed. The blade can be adjusted in a 090 angle.

The cup at 80630 can be complemented with the special insulation cup IK at insulation thicker than 50 mm.

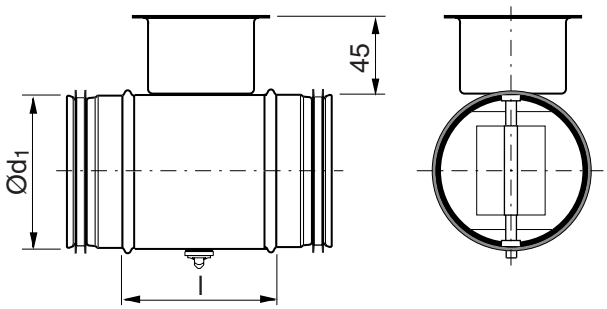
The damper can be used for regulating at rare occations.

There is a separate assembly, measuring, balancing and maintenance instruction for this product.

Ø 80–315 fullfills pressure class C in closed position.
Ø 355–630 fullfills pressure class B in closed position.
Ø 710–1000 fullfills pressure class A in closed position.

Motorizing
The torque needed for the motorizing is given in the adjacent table.
Ø 710–1000 is not possible to motorize on site.

Dimensions



Ød1 nom	l mm	M Nm	m kg	Sealing class past closed blade
80	100	2,0	0,30	4
100	100	2,0	0,38	4
125	100	2,0	0,53	4
160	100	2,0	0,74	4
180	100	2,0	0,82	4
200	100	2,0	1,04	4
224	100	3,0	1,27	4
250	100	3,0	1,52	4

Order code

	DTU	200
Product		
Dimension Ød1		

Damper

INDTMU

Description

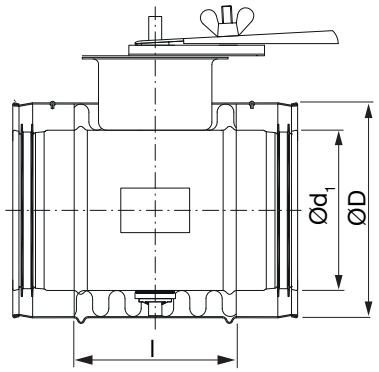
INDTMU are tight-closing shut-off dampers. The damper is double-jacketed, insulated with mineral wool and supplied with Safe rubber seal on the inner dimension.

With stop bead to ensure correct installation.

Equipped with a handle and a locking mechanism for step-less adjustment of 0–90°.

Ø 80–315 fullfills pressure class C in closed position.

Dimensions



Ød$_1$ nom	ØD mm	l mm	m* kg
80	112	100	1,2
100	132	100	1,4
125	157	100	1,5
160	192	100	1,7
180	200	100	1,9
200	232	100	2,1
224	260	100	2,5
250	280	100	3,1
280	315	100	3,4
300	355	100	3,7
315	355	100	4,0

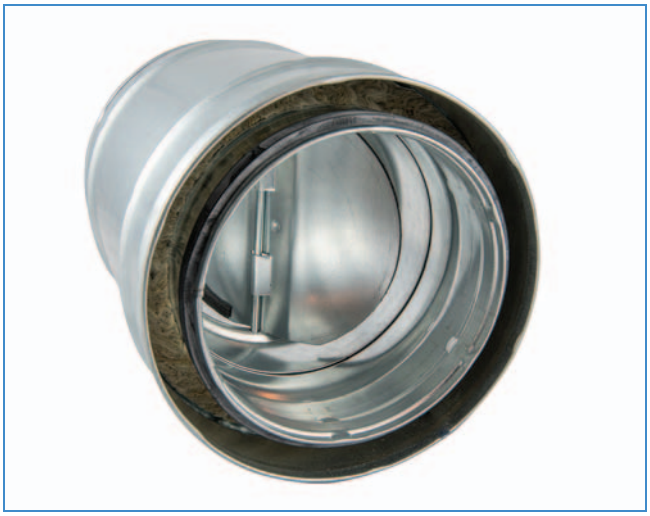
* = weight can vary ±10%.

Order code

	INDTMU	200
Product		
Dimension Ød$_1$		

Damper

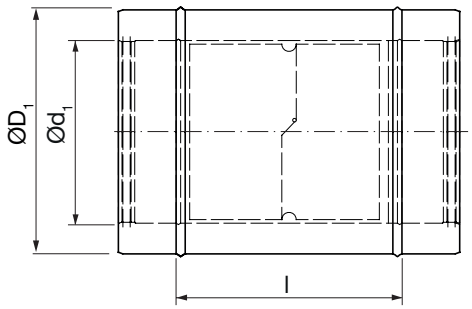
INDOSU



Description

The non-return damper is double-jacketed and insulated with mineral wool, and is supplied with Safe rubber seal in the inner dimension.
With stop bead to ensure correct installation.

Dimensions



Ød$_1$ nom	ØD$_1$ mm	l mm	m* kg
80	112	100	0,36
100	132	100	0,81
125	157	100	1,02
160	192	100	1,25
180	200	100	1,34
200	232	100	1,59
224	260	100	1,82
250	280	100	3,09
280	315	100	3,40
300	355	100	3,60
315	355	100	3,98

* = weight can vary ±10%.

Order code

INDOSU **125**

Product
Dimension Ød$_1$

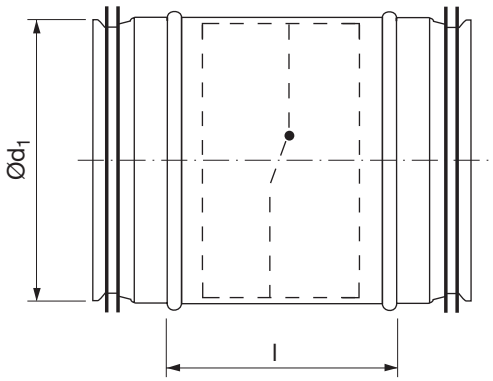
Damper, non-return DOSU

Description

One-way dampers are used to prevent natural back-flows. It can be mounted both vertically and horizontally (note the arrow marking) and are designet to be installed near the outlet.

At horizontal installation please make sure that the sticker (UP) is at the top.

Dimensions



Ød1 nom	l mm	m kg
80	130	0,40
100	130	0,50
125	130	0,60
160	130	0,80
200	130	1,00
250	245	1,90

Order code

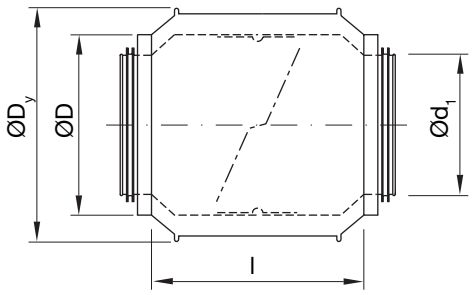
DOSU	250
Product	
Dimension Ød1	

Damper, non-return RKUIN

Description

The non-return valve is double-jacketed and insulated with mineral wool, and is supplied with Safe rubber seal in the inner dimension.

Dimensions



Ød1 nom	ØD nom	ØDy nom	l mm	m kg
80	112	140	135	1,10
100	132	165	150	1,40
125	157	200	150	1,85
160	192	240	160	2,35
180	200	240	280	3,00
200	232	290	215	3,65
224	250	290	370	4,30
250	280	365	270	5,50

Order code

RKUIN	125
Product	
Dimension Ød1	

Damper with flow meter DIRU

Description

The damper DIRU with flow meter offers measurement of the air flow. DIRU has the following characteristics: low noise level, centric flow, fixed measurement nozzles for accurate flow measurement and is equipped with regulating facilities that can be fully opened, which means that you do not need cleaning covers. It fulfils tightness class C.
The dimension graph is to be used to determine the pressure drop over the damper with flow meter and to give information regarding the sound effect level at different settings. When balancing the system the balancing graph should be used.
There is a separate assembly, measuring, balancing and maintenance instruction for dampers with flow meter.
The damper blades forms a measuring flange which allows flow measuring. By measuring the pressure difference between the measure nozzles, you can through the equation on the damper derive the flow q [l/s]. The setting value of the damper and the correction factor (k-factor) is the same number which means that you do not have to read a graph in order to get the k-factor from a setting value.
The air flow is regulated with a handle.
Ø 80–250 fullfills pressure class A in closed position.

Material
The damper is made of hot-dip galvanized sheet steel.

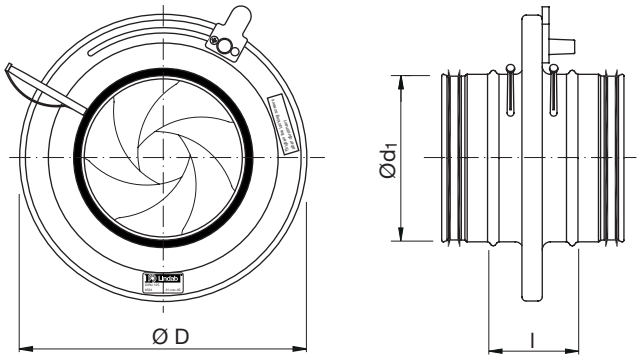
Installation
Consider required straight distance after or before disturbance, as mentioned on the card attached to the measurement nozzles, to obtain accurate flow measurement.

Cleaning
By fully open the damper, one get access to the duct. Do not forget to readjust the damper after cleaning.

Order code

	DIRU	160
Product		
Dimension $Ød_1$		

Dimensions



$Ød_1$ nom	ØD mm	l mm	m kg
100	163	54	0,80
125	210	63	1,20
160	230	60	1,40
200	285	62	2,00
250	333	62	2,60

Damper with flow meter FMDU

Description

Applications
The meter is suitable both for setting up and for continous flow measurement. It is intended for permanent installation and must therefore be specified at the design stage.

There is a separate assembly, measuring, balancing and maintenance instruction for this product.

Ø 80–250 fullfills tightness class 0 and pressure class A .

Design
The meter consists of a regulating shutter and a centrally located measurement plate. Each measurement nozzle has a removable plastic plug which prevents dirt from entering. It also eliminates air leakage when measurement is not done.

The unit permits insulation of up to 50 mm thickness to be installed without concealing the measurement nipples or the label plate.

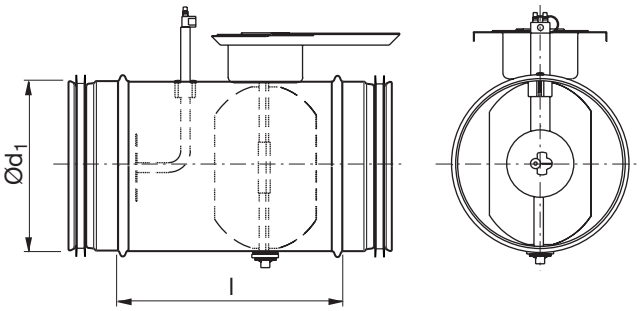
The plate can be rotated for best legibility, irrespective of the way the unit is installed and can easily be removed, to be located away from the unit. The cup around the damper knob allows insulation up to 50 mm thick to be used. If thicker insulation is needed, add the special insulation cup IK.

Advantages
- Short installation length.
- Suitable for use with insulation.

Order code

	FMDU	200
Product		
Dimension Ød$_1$		

Dimensions



Ød$_1$ nom	l mm	m kg
80	165	0,66
100	165	0,76
125	165	0,88
160	165	1,08
200	230	1,44
250	275	2,10

Constant flow damper DAU

Description

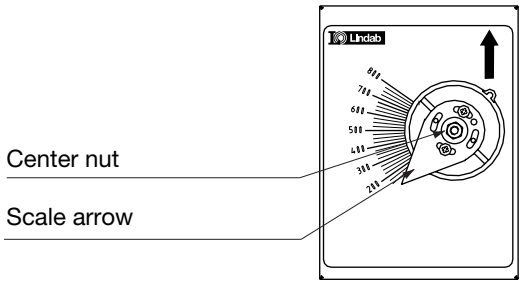
Constant flow damper with manual setting of one flow

DAU is a constant flow damper, which facilitates balancing of ventilation systems and gives correct flow from the start. The unit compensates e.g. connection and disconnection of system parts, clogging of filters and ducts, thermal lift forces, wind effects, window opening etc.
Ø 80–315 fullfills pressure class A in closed position.
Fulfils tightness class C.
There is a separate assembly, measuring, balancing and maintenance instruction for this product.

Technical data

Flow setting

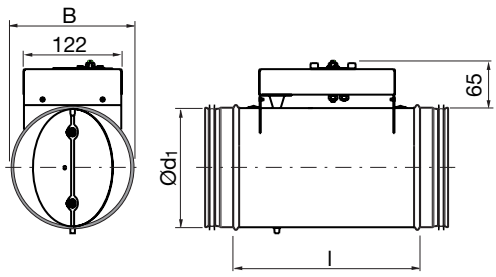
The flow is set by loosing the center nut and via the knob turning the scale arrow so it points at the wanted flow on the scale. Then the center nut is tightened.



Ordering example

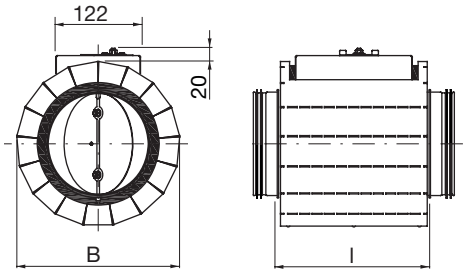
DAU	125
Product	
Dimension Ød$_1$	

Dimensions



Ød$_1$ nom	l mm	B mm	m kg	Tightness class across closed blade
80	246	122	1,35	0
100	246	122	1,40	0
125	246	135	1,65	0
160	246	170	1,85	0
200	246	210	2,26	0
250	284	260	3,35	0

DAU is available with an 45 mm external insulation and an outer sheet metal shell for lower sound radiation to the surroundings. Is then called DALU.



Ød$_1$ nom	l mm	B mm	m kg	Tightness class across closed blade
80	246	170	2,35	0
100	246	190	2,50	0
125	246	215	2,90	0
160	246	250	3,45	0
200	246	290	4,06	0
250	284	340	6,05	0

Constant flow damper DA2EU

Description

Constant flow damper with electric motor for switching between two flows

DA2EU is a constant flow damper, which facilitates balancing of ventilation systems and gives correct flow from the start.

The unit compensates e.g. connection and disconnection of system parts, clogging of filters and ducts, thermal lift forces, wind effects, window opening etc.

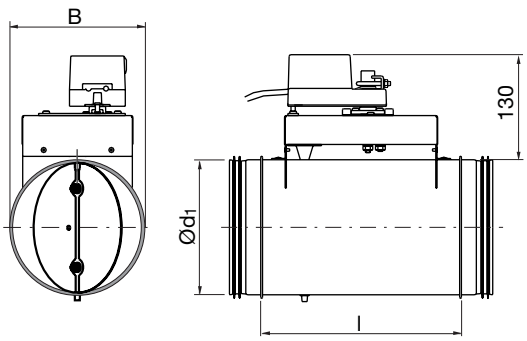
The motors shall be completed with a switch. The switch can in turn be controlled either manually with timer, with on/off-thermostat, with attendance transmitter or similar.

Ø 80–315 fullfills pressure class A in closed position.

Fulfils tightness class C.

There is a separate assembly, measuring, balancing and maintenance instruction for this product.

Dimensions



Ød$_1$ nom	l mm	B mm	m kg	Tightness class across closed blade
80	246	122	1,95	0
100	246	122	2,00	0
125	246	135	2,25	0
160	246	170	2,45	0
200	246	210	2,86	0
250	284	260	3,95	0

Order code

DA2EU	125	24	LM
Product			
Dimension Ød$_1$			
Voltage			
Motor type			

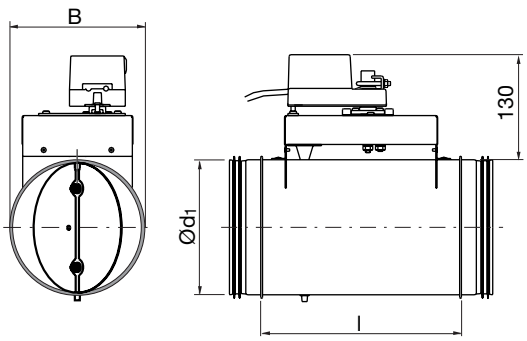
Constant flow damper DAVU

Description

Constant flow damper with electric motor for continuous setting of one flow

DAVU is a constant flow damper, which facilitates balancing of ventilation systems and gives correct flow from the start. The unit compensates e.g. connection and disconnection of system parts, clogging of filters and ducts, thermal lift forces, wind effects, window opening etc. The motor shall be completed with control signal transmitter e.g. an external potentiometer or a proportionally regulating thermostat.
Ø 80–315 fullfills pressure class A in closed position.
Fulfils tightness class C.
There is a separate assembly, measuring, balancing and maintenance instruction for this product.

Dimensions



Ød$_1$ nom	l mm	B mm	m kg	Tightness class across closed blade
80	246	122	1,95	0
100	246	122	2,00	0
125	246	135	2,25	0
160	246	170	2,45	0
200	246	210	2,86	0
250	284	260	3,95	0

Order code

DAVU	125	24	LMSR
Product			
Dimension Ød$_1$			
	Voltage		
		Motor type	

Circular diffuser HPBDC

Description

HPBDC is a circular diffuser with a closed front plate and a regulating handle suitable for adjusting the damper in a HPB cabin unit. It is compact diffuser suitable for the horizontal supply of cooled air

- Discrete design
- Handle for adjusting damper
- High Impulse
- Insulated face plate

Maintenance

Faceplate can be removed to enable cleaning of internal parts or to gain access to the box. The visible parts of the diffuser can be wiped with a damp cloth.

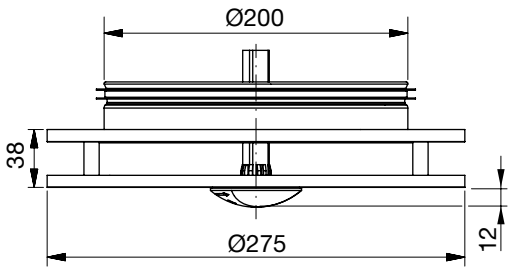
Accessories

Blending profiles (set) for 1, 2 and 3-way supply air.

Order code

	HPBDC	200
Product		
Size		

Dimensions



Materials and finish

Material:	Galvanised steel
Std. finish:	Powder-coated
Std. colour:	White RAL 9010, gloss 30
Insulation:	Non-flammable melamine foam plastic

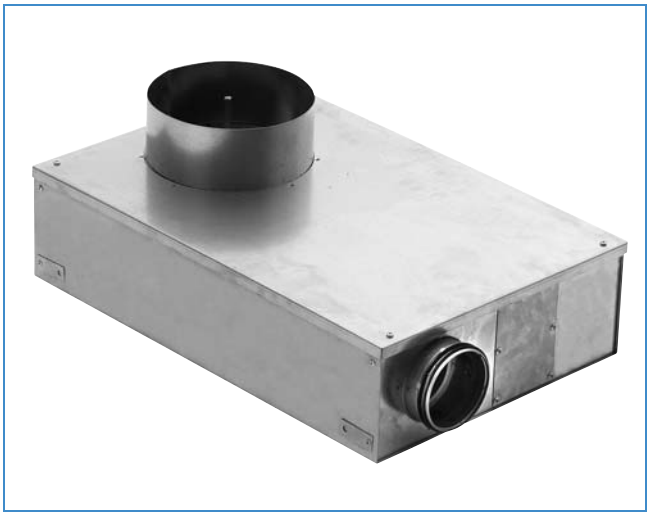
Flow adjustment Handle: White plastic.

The diffuser is available in other colours and materials.

Please contact Lindab's sales department for further information.

Cabin unit

HPB



Description

HPB is a Cabin Unit specially designed for use in high pressure systems where high flexibility has to be combined with minimum installation space. An internal scale makes it possible to preadjust the flow in order to minimize commissioning costs and document settings.

The matching diffuser HPBDC allows the user to adjust the flow within a preadjusted range.

- Adjustable damper with scale for required flowlevel-setting.
- Low noise level even at pressure above 1000 Pa.
- Flow range from 50 to 350 m^3/h.
- Easy mounting with prefitted brackets.
- Excellent air distribution.
- Diffuser and inlet take off fitted with Lindab Safe rubber gasket for perfect tightness and low noise generation.
- User adjustable flow within the min./max. flow range.
- Adjustable mounting of diffuser for perfect fitting in ceiling.
- Low weight.

Maintenance

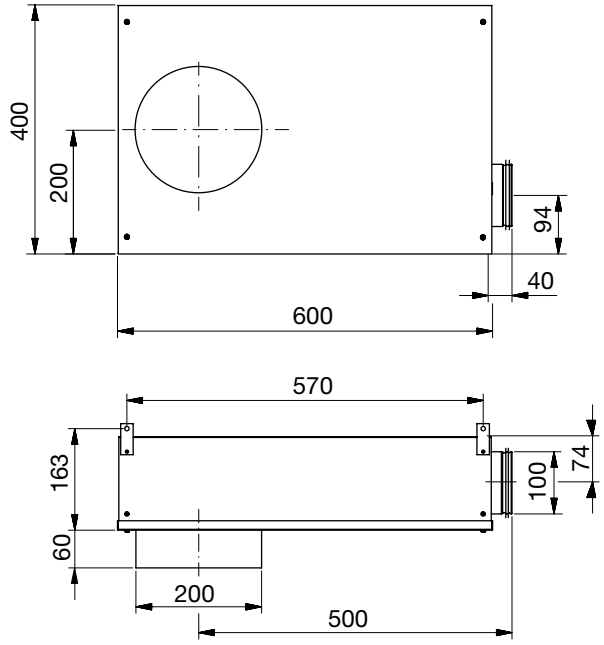
Faceplate can be removed without tools to enable cleaning of internal parts or to gain access to the box. The visible parts of the diffuser can be wiped with a damp cloth. Box can be opened for cleaning.

Diffuser for CabinUnit is ordered seperately.

Order code

	HPB	100
Product		
Size		

Dimensions



Options

- Electrical heating element. 230V AC with selectable effects of 250, 500 or 1000 Watt.
- Integrated thermostat with selectable operating temperature between 30-110° C.
- Manuel safety switch cuts off electricity if the temperature exceeds 113° C
- Non-combustible mineral wool insulation
- External room thermostat
- Motorized flow adjustment within min and max. flow-level

Materials and finish

Material: Galvanised steel.
Insulation: Non-flammable melamine foam plastic.

Please contact Lindab sales department for further information

Perforated square diffuser PKAN

Description

PKAN is a square diffuser with perforated face plate. PKAN can be used for both supply and exhaust air. PKAN is suitable for the horizontal supply of cooled air and can be equipped with accessories of various types in order to achieve optimum function. Installing a PKAN diffuser in a plenum box type MBA can help to achieve a stable airflow to the diffuser as well as realise the potential for individual adjustment.

- Suitable for both supplay and exhaust.
- Suitable for the horizontal supply of cooled air.

Materials and finish:

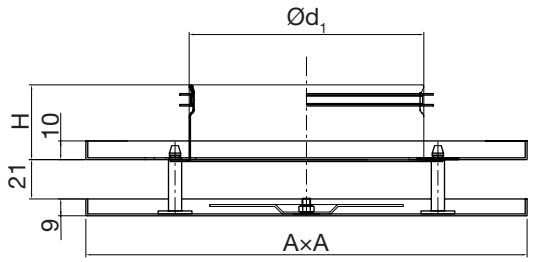
Standard material:	Galvanised steel "G" (Available in stainless steel AISI-304 "S")
Standard finish:	Powder coated
Standard colour:	White RAL 9010, gloss 30

The diffuser is available in other colours. Please contact Lindab's sales department for further information.

Order code

PKAN	200	G
Product		
Dimension Ød$_1$		
Material		

Dimensions



Ød$_1$ nom	A×A mm	H mm
125	235	40
160	295	40
200	395	40
250	495	60

Perforated circular diffuser PCAN

Description

PCAN is a circular diffuser with perforated face plate. PCAN can be used for both supply and exhaust air. PCAN is suitable for the horizontal supply of cooled air and can be equipped with accessories of various types in order to achieve optimum function. Installing a PCAN diffuser in a plenum box type MBA can help to achieve a stable airflow to the diffuser as well as realise the potential for individual adjustment.

- Suitable for both supplay and exhaust.
- Suitable for the horizontal supply of cooled air.

Materials and finish:

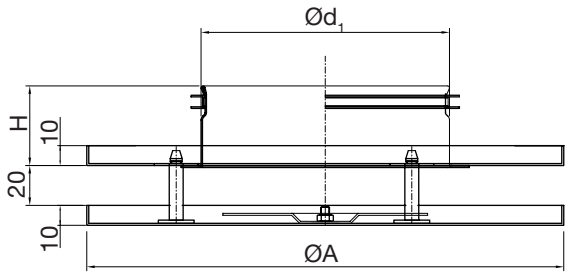
Standard material:	Galvanised steel "G" (Available in stainless steel AISI-304 "S")
Standard finish:	Powder coated
Standard colour:	White RAL 9010, gloss 30

The diffuser is available in other colours. Please contact Lindab's sales department for further information.

Order code

PCAN	200	G
Product		
Dimension Ød$_1$		
Material		

Dimensions



Ød$_1$ nom	ØA mm	H mm
100	240	40
125	240	40
160	300	40
200	360	40
250	460	60

Plain square diffuser LKAN

Description

LKAN is a square diffuser with an unperforated face plate. LKAN can be used for both supply and exhaust air. LKAN is suitable for the horizontal supply of cooled air and can be equipped with accessories of various types in order to achieve optimum function. Installing a LKAN diffuser in a plenum box type MBA can help to achieve a stable airflow to the diffuser as well as realise the potential for individual adjustment.

- Suitable for both supplay and exhaust.
- Suitable for the horizontal supply of cooled air.

Materials and finish:

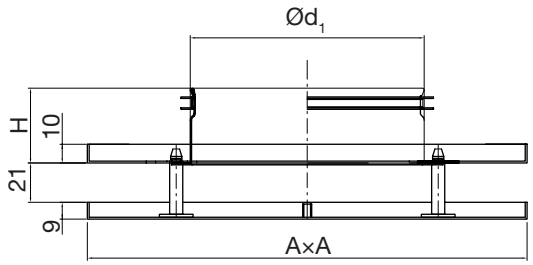
Standard material:	Galvanised steel "G" (Available in stainless steel AISI-304 "S")
Standard finish:	Powder coated
Standard colour:	White RAL 9010, gloss 30

The diffuser is available in other colours. Please contact Lindab's sales department for further information.

Order code

LKAN	200	G
Product		
Dimension Ød$_1$		
Material		

Dimensions



Ød$_1$ nom	A×A mm	H mm
125	235	40
160	295	40
200	395	40
250	495	60

Plain circular diffuser LCAN

Description

LCAN is a circular diffuser with an unperforated face plate. LCAN can be used for both supply and exhaust air. LCAN is suitable for the horizontal supply of cooled air and can be equipped with accessories of various types in order to achieve optimum function. Installing a LCAN diffuser in a plenum box type MBA can help to achieve a stable airflow to the diffuser as well as realise the potential for individual adjustment.

- Suitable for both supplay and exhaust.
- Suitable for the horizontal supply of cooled air.

Materials and finish:

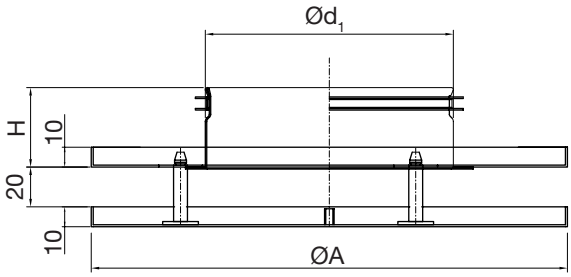
Standard material:	Galvanised steel "G" (Available in stainless steel AISI-304 "S")
Standard finish:	Powder coated
Standard colour:	White RAL 9010, gloss 30

The diffuser is available in other colours. Please contact Lindab's sales department for further information.

Order code

LCAN	200	G
Product		
Dimension Ød$_1$		
Material		

Dimensions



Ød$_1$ nom	ØA mm	H mm
100	240	40
125	240	40
160	300	40
200	360	40
250	460	60

Perforated diffuser PC6

Description

PC6 is a circular perforated diffuser that can be used for both supply air and exhaust. The diffuser is suitable for the horizontal supply of cooled air. The diffuser can also be used for low impulse and is therefore useful for the supply of replacement air in environments with high rates of air exchange. Installing this diffuser in a plenum box type MBB can help to achieve a stable flow of air to the diffuser as well as realise the potential for individual adjustment.

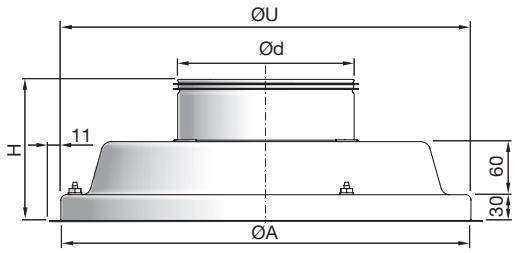
- Suitable for both supply and exhaust air
- Discrete design
- Can be used for low impulse supply air

Order code

	PC6	a	bbb
Product			
Type			
PC6			
Functional use			
S = Supply air			
E = Exhaust			
L = Low-impulse			
Connection dim.			
Ø125-315			

Example: PC6-S-200

Dimensions



PC6 Ød mm	ØA mm	H mm	ØU* mm	m kg
125	360	140	370	3.90
160	460	140	470	5.30
200	460	140	470	5.40
250	540	140	550	7.40

* ØU = ceiling grid opening

PC6-S

Materials and finish

Material:	Galvanised steel
Standard finish:	Powder-coated
Standard colour:	RAL 9003 Gloss 30

The diffuser is available in other colours. Please contact Lindab's sales department for further information.

Perforated diffuser PC7

Description

PC7 is a circular diffuser with perforated face plate and integrated swirl insert. The diffuser is suitable for the horizontal supply of very cold air. The integrated swirl insert ensures optimum distribution and high induction. Installing this diffuser in a plenum box type MBB can help to achieve a stable flow of air to the diffuser as well as realise the potential for individual adjustment.

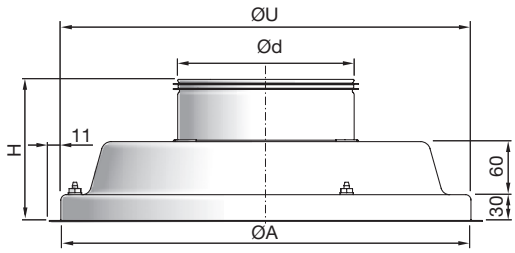
- High induction
- Discrete design
- Suitable for cooling at very low temperatures

Order code

Product	**PC7**	**S**	**aaa**
Type			
PC7			
Functional use			
S = Supply air			
Connection dim.			
Ød 160-315			

Example: PC7-S-200

Dimensions



PC7 Ød mm	ØA mm	H mm	ØU* mm	m kg
160	460	140	470	5.30
200	460	140	470	5.40
250	540	140	550	7.40
315	540	140	550	8.10

* ØU = ceiling grid opening

PC7-S

Materials and finish

Material:	Galvanised steel
Standard finish:	Powder-coated
Standard colour:	RAL 9003 Gloss 30

The diffuser is available in other colours. Please contact Lindab's sales department for further information.

Swirl diffuser RC14

Description

RC14 is a circular swirl diffuser with fixed bars. The diffuser can be used for both supply air and exhaust. The swirl pattern ensures high induction and a large dynamic range, and is therefore ideal for the horizontal supply of very cold air. Installing this diffuser in a plenum box type MBB can help to achieve a stable flow of air to the diffuser as well as realise the potential for individual adjustment.

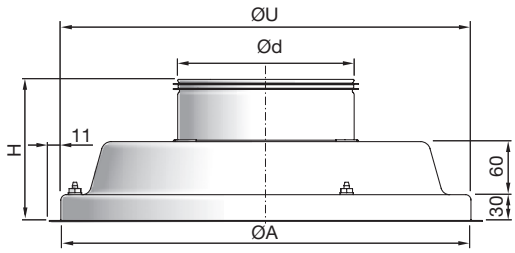
- Large dynamic range
- High induction
- Suitable for cooling at very low temperatures
- Can be used for both supply and exhaust air.

Order code

Product	**RC14**	**a**	**bbb**
Type			
RC14			
Functional use			
S = Supply air			
E = Exhaust			
Connection dim.			
Ød 160-315			

Example: RC14-S-250

Dimensions



RC14 Ød	ØA	H	ØU*	m
mm	mm	mm	mm	kg
160	360	140	370	5.30
200	360	140	370	5.40
250	460	140	470	7.40

RC14

Materials and finish

Material:	Galvanised steel
Standard finish:	Powder-coated
Standard colour:	RAL 9003 Gloss 30

The diffuser is available in other colours. Please contact Lindab's sales department for further information.

Swirl diffuser

RC15

Description

RC15 is a circular swirl diffuser with adjustable bars. The diffuser can be used for both supply and exhaust air. The swirl pattern ensures high induction and a large dynamic range, and is therefore ideal for the horizontal supply of very cold air. The diffuser can also be set to a vertical supply air pattern, enabling supply of heated air. Installing this diffuser in a plenum box type MBB can help to achieve a stable flow of air to the diffuser as well as realise the potential for individual adjustment.

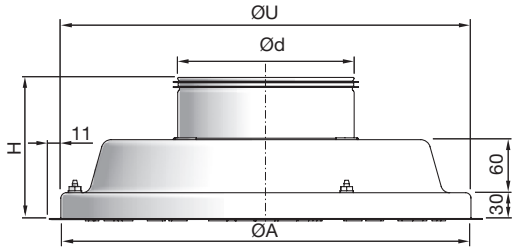
- Large dynamic range
- High induction
- Suitable for cooling at very low temperatures
- Horizontal or vertical supply air pattern
- Can be used for both supply air and exhaust

Order codeOrder code

Product	**RC15**	**a**	**bbb**
Type			
RC15			
Functional use			
S = Supply air			
E = Exhaust ()			
Connection dim.			
Ød 160-315			

Example: RC15-S-160

Dimensions

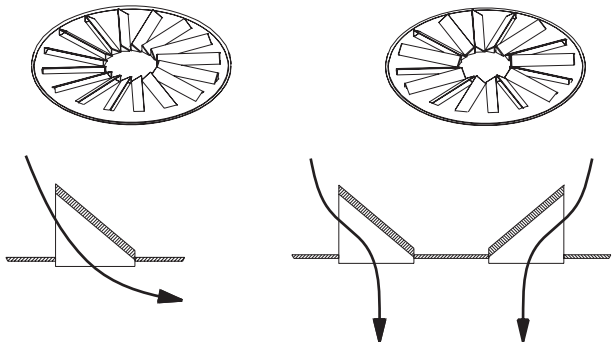


RC15 Ød	ØA	H	ØU*	m
mm	mm	mm	mm	kg
160	360	140	370	5.30
200	360	140	370	5.40
250	460	140	470	7.40

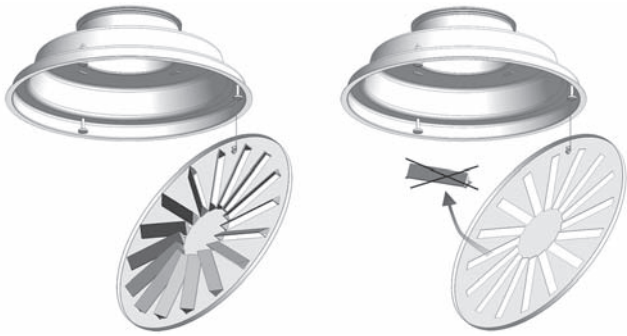
* ØU = ceiling grid opening

Bar setting

Horizontal **Vertical**



RC15-S **RC15-E**



Materials and finish

Material:	Galvanised steel
Standard finish:	Powder-coated
Standard colour:	RAL 9003 Gloss 30
Bars (Only RC15-S):	Black ABS plastic

The diffuser is available in other colours. Please contact Lindab's sales department for further information.

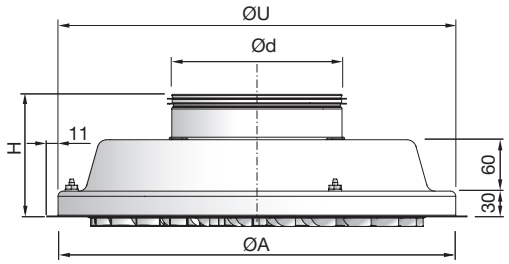
Nozzle diffuser NC19

Description

NC19 is a circular diffuser with individually adjustable nozzles. The diffuser is suitable for the horizontal supply of cooled air, where great flexibility in the dispersal pattern is required. The diffuser can also be set to a vertical supply air pattern, enabling supply of heated air. Installing this diffuser in a plenum box type MBB can help to achieve a stable flow of air to the diffuser as well as realise the potential for individual adjustment.

- Adjustable dispersal patterns
- No pressure change for different dispersal patterns
- Suitable for horizontal or vertical supply air patterns

Dimensions



NC19 Ød	ØA	H	ØU*	m
mm	mm	mm	mm	kg
125	360	140	370	3.90
160	460	140	470	5.30
200	460	140	470	5.40
250	540	140	550	7.40

* ØU = Ceiling grid opening

Order code

Product	NC19	-	S	-	aaa
Type					
NC19					
Functional use					
S = Supply air					
Connection dim.					
Ød 125-315					

Example: NC19-S-200

Materials and finish

Material:	Galvanised steel
Standard finish:	Powder-coated
Standard colour:	RAL 9003, Gloss 30
Nozzles:	White ABS plastic

The diffuser is available in other colours. Please contact Lindab's sales department for further information.

Versio

PS1

PS1 with grille box type V

PS1 with plenum box type H

Description

PS1 is a square perforated diffuser. PS1 can be used for both supply and exhaust air. PS1 is suitable for the horizontal supply of cooled air. PS1 can also be used for low impulse and is therefore useful for the supply of replacement air in environments with high rates of air exchange.

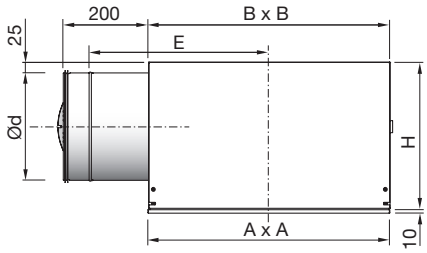
- Suitable for both supply and exhaust air
- The possibility of 1-2-3-way dispersal
- Can be used for low impulse
- Unique magnetic suspension of face plate

Order code

Product			**PS**	**a**	**b**	**c**	**d**	**eee**	**f**
Type									
PS									
Design									
1 - 2 - 3- 4									
Box type									
V - H - R									
Functional use									
S = Supply air									
E = Exhaust									
L = Low-impulse									
Damper									
0 =	(	: H, V)							
1 =	(	: H, R)							
2 =	(	: H)							
Connection dim.									
Ø200-315	(	: V)							
Ø160-315	(	: H)							
200x100 - 500x100	(	: R)							
Ceiling system									
1 - 14									

Example: PS-1-V-S-0-200-1

Dimensions



PS1-H		A	B	H	E	m
Ød	Pattern	mm	mm	mm	mm	kg
160	400	**-	380	250	350	5,9
200	500	**-	460	290	390	8.50
250	600	**-	560	340	420	12.3
315	600	**-	560	405	420	13.1

* Face plate dimension A x A depends on ceiling system. See **"Ceiling adjustment"** for detailed dimensions. For further details on plenum box - see **"Plenum boxes"**.

Maintenance

The face plate can be removed to enable cleaning of internal parts or to gain access to the duct or box. The visible parts of the diffuser can be wiped with a damp cloth.

Materials and finish

Grille box/plenum box:
Material: Galvanised steel

Face plate:
Material: Galvanised steel
Standard finish: Powder-coated
Standard colour: RAL 9003, gloss 30

The diffuser is available in other colours. Please contact Lindab's sales department for further information.

Versio PS8

PS8 with grille box type V

PS8 with plenum box type H

Description

PS8 is a square perforated diffuser with swirl insert. PS8 fits naturally into the ceiling and maintains the excellent technical properties of swirl diffusers. The swirl pattern ensures high induction and a large dynamic range, and is therefore ideal for the horizontal supply of very cold air.

- Discrete appearance
- Large dynamic range
- High induction
- Ideal for the supply of very cold air

Order code

Product	PS	a	b	S	d	eee	f

Type
PS

Design
8 - 9 - 10 - 11

Box type
V - H - R

Functional use
S = Supply air

Damper

0 =	(	: H, V)
1 =	(	: H, R)
2 =	(	: H)

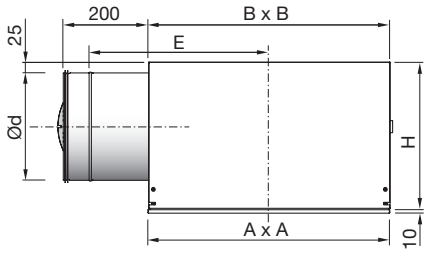
Connection dim.

Ø160-315	(	: V)
Ø125-315	(	: H)
200x100 - 500x100	(	: R)

Ceiling system
1 - 14

Example: PS-8-V-S-0-200-1

Dimensions



PS8-H Ød	Pattern	A mm	B mm	H mm	E mm	m kg
125	300	**-	380	215	350	5.9
160	400	**-	380	250	350	5.9
200	500	**-	460	290	390	8.5
250	600	**-	560	340	420	12.3

* Face plate dimension depends on ceiling system. See **"Ceiling adjustment"** for detailed dimensions. For further details on plenum box - see **"Plenum boxes"**.

Maintenance
The face plate can be removed to enable cleaning of internal parts or to gain access to the duct or box. The visible parts of the diffuser can be wiped with a damp cloth.

Materials and finish

Grille box/plenum box:
Material: Galvanised steel

Face plate:
Material: Galvanised steel
Standard finish: Powder-coated
Standard colour: RAL 9003, gloss 30

The diffuser is available in other colours. Please contact Lindabs sales department for further information.

Versio

RS14

RS14 with grille box type V

RS14 with plenum box type H

Description

RS14 is a square swirl diffuser with fixed bars. RS14 can be used for both supply and exhaust air. The swirl pattern ensures high induction and a large dynamic range. It is therefore ideal for the horizontal supply of very cold air.

- Large dynamic range
- High induction
- Suitable for cooling at very low temperatures
- Can be used for both supply air and exhaust
- Unique magnetic suspension of face plate

Order code

Product	**RS**	**14**	**b**	**c**	**d**	**eee**	**f**

Type
RS

Design
14

Box type
V - H - R

Functional use
S = Supply air
E = Exhaust

Damper

0 =	(	: H, V)
1 =	(	: H, R)
2 =	(	: H)

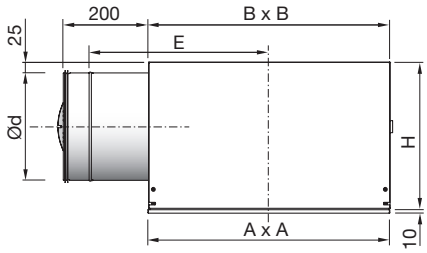
Connection dim.

Ø160-315	(	: V)
Ø125-315	(	: H)
200x100 - 500x100	(	: R)

Ceiling system
1 - 14

Example: RS-14-V-S-0-200-1

Dimensions



RS14-H Ød	Pattern	A mm	B mm	H mm	E mm	m kg
125	400	**-	380	215	350	5.9
160	400	**-	380	250	350	5.9
200	500	**-	460	290	390	8.5
250	600	**-	560	340	420	12.3

* Face plate dimension A x A depends on ceiling system. See **"Ceiling adjustment"** for detailed dimensions. For further details on plenum box - see **"Plenum boxes"**.

Maintenance
The face plate can be removed to enable cleaning of internal parts or to gain access to the duct or box. The visible parts of the diffuser can be wiped with a damp cloth.

Materials and finish

Grille box/plenum box:
Material: Galvanised steel

Face plate:
Material: Galvanised steel
Standard finish: Powder-coated
Standard colour: RAL 9003, gloss 30

The diffuser is available in other colours. Please contact Lindab's sales department for further information.

Versio RS15

RS15 with grille box type V

RS15 with plenum box type H

Description

RS15 is a square swirl diffuser with adjustable bars that can be used for both supply and exhaust air. The swirl pattern ensures high induction and a large dynamic range. It is therefore ideal for the horizontal supply of very cold air. The diffuser can also be set to a vertical supply air pattern, enabling supply of heated air. The diffuser is supplied as standard with inward swirl. For exhaust, the diffuser is supplied as standard without bars

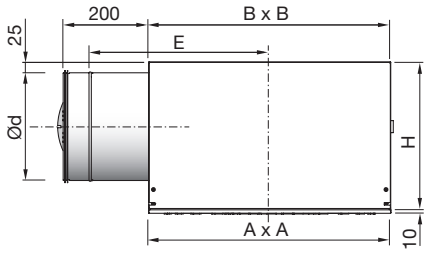
- Large dynamic range
- High induction
- Ideal for the supply of very cold air
- Adjustable for horizontal or vertical supply air pattern
- Can be used for both supply air and exhaust

Order code

Product			**RS**	**15**	**b**	**c**	**d**	**eee**	**f**
Type									
RS									
Design									
15									
Box type									
V - H - R									
Functional use									
S = Supply air									
E = Exhaust									
Damper									
0 =	(	: H, V)							
1 =	(	: H, R)							
2 =	(	: H)							
Connection dim.									
Ø200-315	(	: V)							
Ø160-315	(	: H)							
300x100 - 500x100	(	: R)							
Ceiling system									
1 - 14									

Example: RS15-V-S-0-200-1

Dimensions



RS15-H Ød	Pattern	A mm	B mm	H mm	E mm	m kg
160	400	**-	380	250	350	5.9
200	500	**-	460	290	390	8.5
250	600	**-	560	340	420	12.3

* Face plate dimension A x A depends on ceiling system. See **"Ceiling adjustment"** for detailed dimensions. For further details on plenum box - see **"Plenum boxes"**.

Maintenance

The face plate can be removed to enable cleaning of internal parts or to gain access to the duct or box. The visible parts of the diffuser can be wiped with a damp cloth.

Materials and finish

Grille box/plenum box:

Material: Galvanised steel

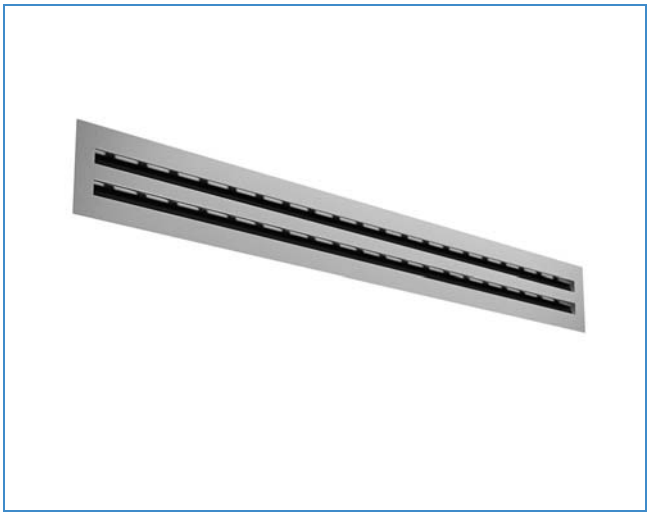
Face plate:

Material: Galvanised steel
Bars: Black ABS-plastic
Standard finish: Powder-coated
Standard colour: RAL 9003, gloss 30

The diffuser is available in other colours. Please contact Lindab's sales department for further information.

Linear diffuser

MTL



Description

MTL is a rectangular linear diffuser in aluminium. MTL is suitable for both supply and exhaust air. MTL is equipped with air guide baffles, making it possible to use MTL for horizontal supply air. The horizontal dispersal pattern can be easily changed without the use of tools by turning the air guide baffle. The air guide baffle must be removed for vertical supply air.
MTL can be supplied in two versions, 15 mm or 19 mm, depending on capacity requirements or aesthetic considerations. MTL can be installed with plenum box STB/STU in order to achieve an even flow and individual adjustment.
MTL is normally supplied in lengths up to max. 2 m, but can be supplied on request up to 5 m. MTZ-1 is a 90º joint, when an aesthetically pleasing corner is required.

- Discrete appearance
- Used for both supply air and exhaust
- Horizontal and vertical supply air.

Maintenance

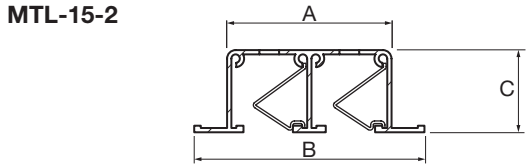
MTL can be removed to enable cleaning of internal parts or to gain access to the duct or box. The visible parts of the diffuser can be wiped with a damp cloth.

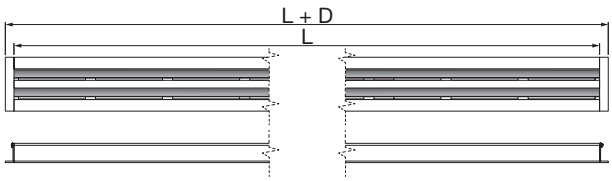
Order code

Product	MTL	aa	b	cccc
Type				
Slot size	15 / 19			
No. of slots				
Length (L)				

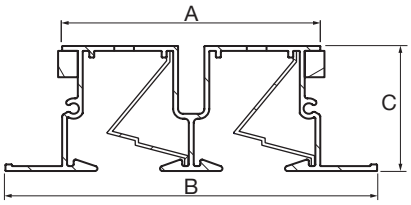
Dimensions

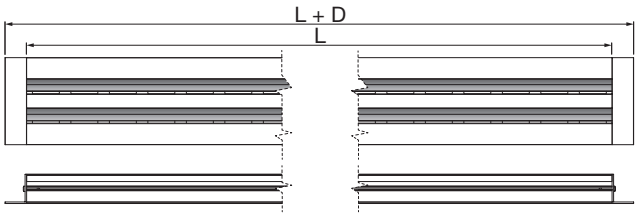
MTL-15-2





MTL-19-2





Both ends are equipped with flanges.

Slot width: 15 mm

No. of slots	A mm	B mm	C mm	D mm
1	25	45	25	30
2	50	70	25	30
3	75	95	25	30
4	100	120	25	30

Cutout: A + 10 mm x L + 10 mm

Slot width: 19 mm

No. of slots	A mm	B mm	C mm	D mm
1	40	75	38	56
2	79	113	38	56
3	117	151	38	56
4	157	189	38	56

Cutout: A + 20 mm x L + 20 mm

Materials and finish

Slot:	Aluminium
Standard finish:	Natural anodised
Air guide baffle:	Black ABS plastic

The diffuser is available in other colours. Please contact Lindab's sales department for further information.

Plenum box

STB/STU

Description

STB is a rectangular plenum box for supply air for linear diffuser, MTL. The plenum box ensures even distribution over the linear diffuser. STB is equipped with a damper and an orifice plate to ensure individual regulation, and is supplied with acoustic insulation.

STU is a rectangular plenum box for air exhaust for linear diffuser, MTL. STU has the same properties as STB.

- Ensures even air distribution over the linear diffuser.
- Acoustically insulated.
- Supplied with damper and measuring device

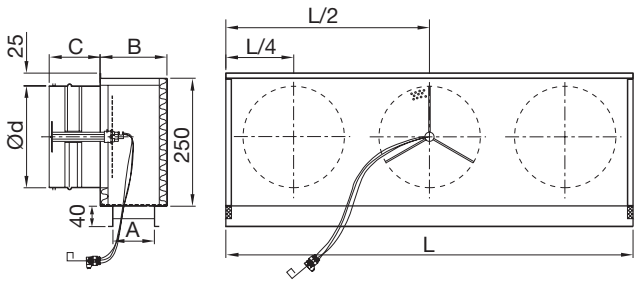
Maintenance

Cleaning of STB/STU is made more difficult because of the narrow space between slots. We therefore recommend that you ensure there are alternative cleaning options for the duct. To gain access to the box, the linear diffuser must be removed, as well as the plenum plate in the case of STB.

Order code

Product	STB/STU	a	a	ccc
Type				
Slot size	15 / 19			
No. of slots				
Length (L)				

Dimensions



C dimension: STB = 100 mm
STU = 200 mm

Box type / Length					0-1199		1200-1799		1800-2000	
	Slot size				Number of connections					
No. of slots	15		19							
	A	B	A	B	Ød		Ød		Ød	
1	26	90	41	91	125	1	160	1	125	2
2	51	100	80	130	160	1	200	1	160	2
3	76	125	118	168	200	1	200	2	200	2
4	101	150	158	208	200	1	200	2	200	2

Materials and finish

Plenum box:	Galvanised steel
Standard finish:	Galvanised steel
Insulation:	Melamine foam plastic

Pressure box VBA

Description

VBA is a plenum box for supply and exhaust air intended to achieve a stable flow to a rectangular grille or other types of face plates. VBA is equipped with an adjustment damper and pressure measurement device. The plenum box can be connected from the side, the top or the back. The adjustment damper is operated from the front of the box by means of a graduated handle with integral lock function.
VBA is equipped with a telescopic connection for easy installation. The same face plate and telescope are used as for WB boxes.

- Can be used for both supply and exhaust air
- Easy-to-detach face plate for access to duct
- Same box used for all front types

Materials and finish

Box, plenum plate and damper are made of hot-galvanised steel plate.

Order codeOrder code

Product **VBA** **a** **bbb x ccc**

Type
VBA

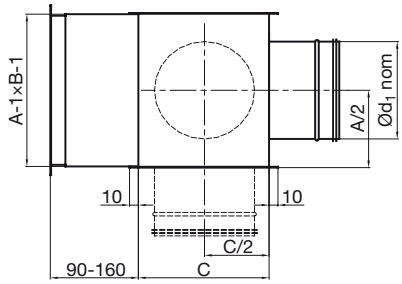
Connection
1 -
2 -
4 -

Size
A - Dimension
B - Dimension

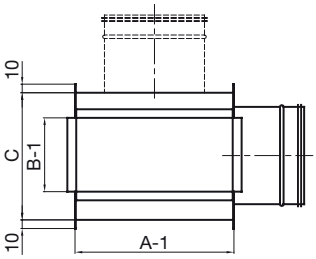
Example: VBA-2-500-200

Dimensions

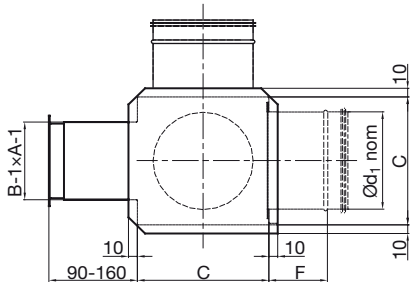
1.



2.

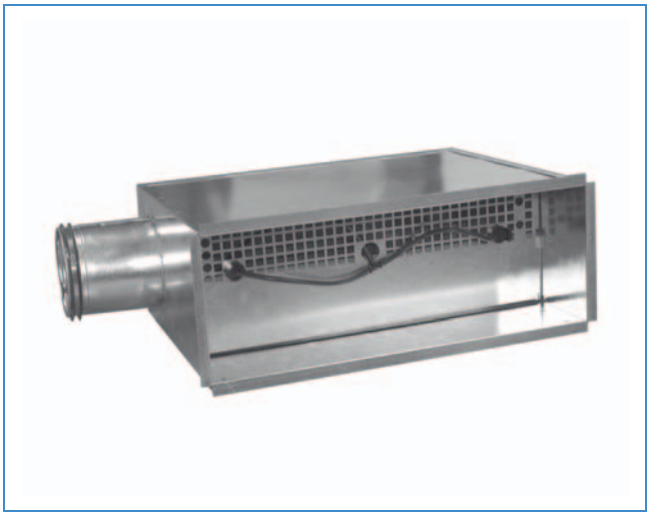


4.



A	x	B	Ød1 nom	C mm	F mm
200	x	100	125	165	90
300	x	100	160	200	110
400	x	100	160	200	110
500	x	100	200	240	130
600	x	100	250	290	155
800	x	100	250	290	155
1000	x	100	250	290	155
300	x	150	200	240	130
400	x	150	250	290	155
500	x	150	250	290	155
600	x	150	250	290	155
800	x	150	315	355	190
1000	x	150	315	355	190
300	x	200	250	290	155
400	x	200	250	290	155
500	x	200	315	355	190
600	x	200	315	355	190
800	x	200	315	355	190
1000	x	200	315	355	190
600	x	300	400	440	215

Plenum box WB



Description

WB is a plenum box for supply air intended to achieve a stable flow to rectangular front plates or grilles. WB is equipped with an adjustment damper and pressure measuring device. The plenum box can be connected from the side or the back. The adjustment damper is operated from the front of the box by means of a graduated handle with integrated locking mechanism. WB is equipped with a telescopic connection that can be adjusted up to 50 mm, which provides flexibility during the installation phase. WB has a maximum width of 500 mm, which ensures that you can install the box in a standard wall structure with a centre distance of 600 mm between the plasterboard struts.

- Telescopic function
- Easy-to-detach face plate for access to duct
- Same box used for all front types

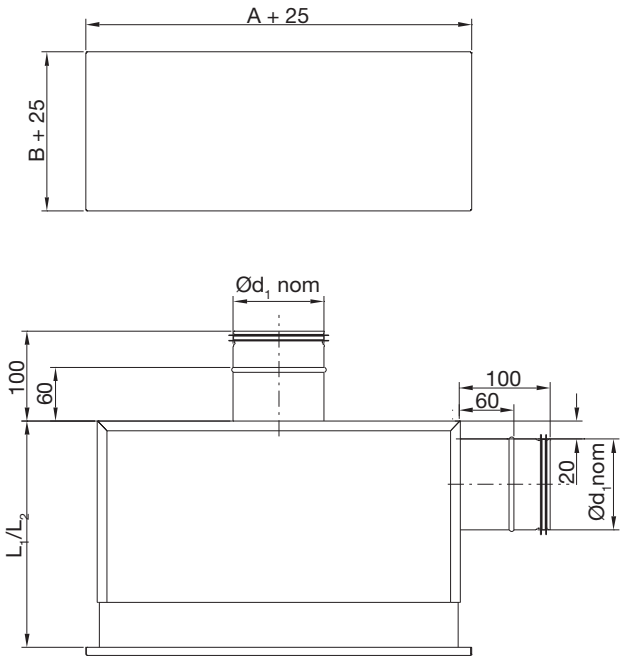
Materials and finish

Plenum box: Hot-galvanised steel
Insulation: Melamine foam plastic

Order code

Product	WB	a	bbb	ccc
Type				
WB				
Connection				
Back 1				
Side 2				
Connection dim.				
A-Measure				
B-Measure				

Dimensions



A × B	Ød1 mm	A	B	L1	Side L2	Weight Kg
300 x 100	80	300	100	240-290	280-330	2,5
400 x 150	100	400	150	240-290	300-350	3,5
500 x 150	125	500	150	240-290	325-375	4,3
500 x 200	160	500	200	240-290	360-410	5,5
500 x 300	200	500	300	240-290	400-450	7,4

Supply air nozzle GD

Description

GD is a rubber supply air nozzle suitable for ventilation of large areas where long throws are required. The nozzle can be adjusted for directional airflow, and can be installed directly into circular ducts, (min. Ø250 mm), or duct walls, (min. height = 100 mm). The nozzle can be used for both heated and cooled air.

- Directional airflow
- Long throws
- Simple installation

Maintenance

The visible parts of the nozzle can be wiped with a damp cloth.

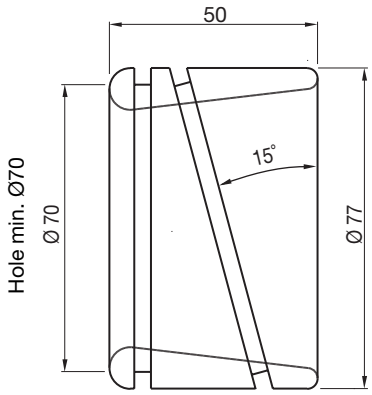
Materials and finish

Nozzle: EPDM rubber, hardness 60, black

Order code

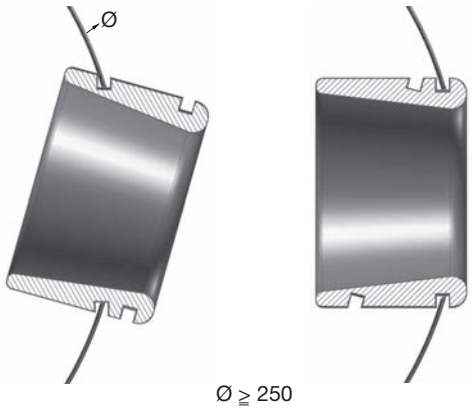
Product	GD
Type	

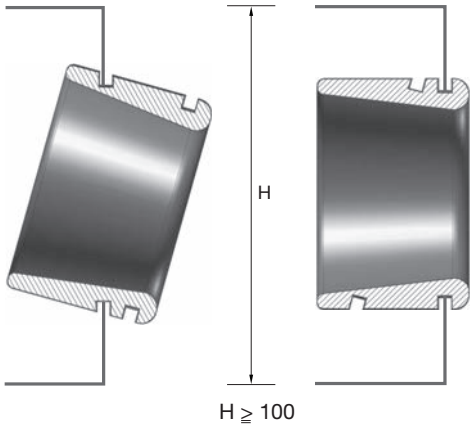
Dimensions



Free area: 0.0027 m^2
Straight groove: for rectangular duct.
Oblique groove: for circular duct.

Mounted in duct





Defroster nozzle

DNOC

Description

Jet nozzle for defrosting windows. Especially suitable for bridge or wheelhouse. Low installation depth.

- Swiveling range 40 degrees.
- Flow is infinitely adjustable.
- Installations depth 40 mm max.
- Projection opening 42 mm.

Maintenance

The visible part of the nozzle can be wiped with a damp cloth.

Options

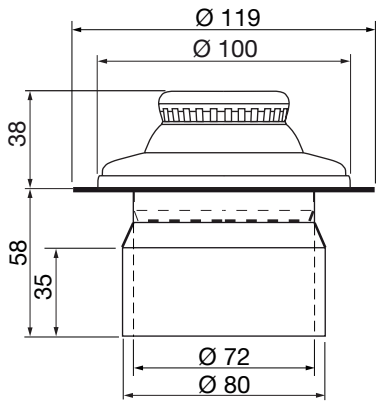
The diffuser can be ordered separately without the socket for mounting directly in plenum box (DNO).

Socket can be ordered separately (VRSL)

Material and Finish

Nozzle:	ABS
Colour:	Medium grey, S.U. 50
Socket:	Galvanized steel, powder coated
Colour:	RAL 7040

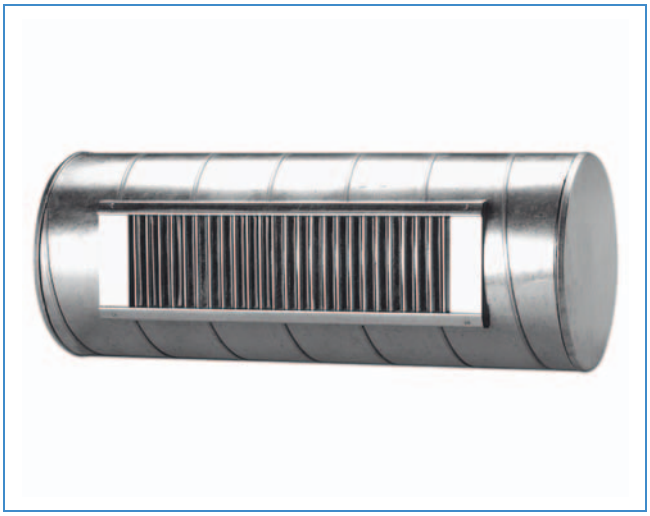
Dimensions



Order code

	DNOC
Product	

Circular duct grille RGS



Description

RGS is a rectangular ventilation grille with vertical adjustable bars for direct installation in circular ducts.
The grille can be used for both supply and exhaust air. The grille can be supplied with horizontal directional bars, straight or slanting sliding damper or blade damper. The grille is designed so that the grille flanges always fit tight to the duct regardless of the duct diameter.
RGS is made of hot-galvanised steel plate and is put together without welding. This means that the grille can be used without further surface treatment. The exterior of the grille thus matches the duct surface.

- Can be used for both supply and exhaust air
- Installed directly in circular duct
- Can be fitted with many types of accessory

Maintenance

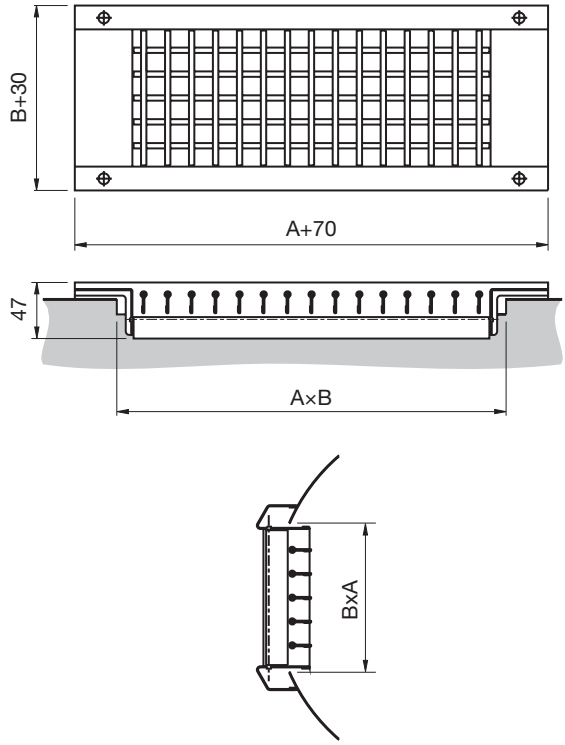
The grille should be removed to gain access to the duct.

Order code

Product	RGS	a	bbb	ccc
Type				
Accessories				
A - measure				
B - measure				

A x B = Cutting dimension

Dimensions



A x B = Cutting dimension

Screws included.

Materials and finish

Grille:	Hot-galvanised steel
Sliding damper:	Electro-galvanised steel
Blade damper:	Electro-galvanised steel

The diffuser is available in other colours. Please contact Lindab's sales department for further information.

Ventilator grill, standard B3020/B

Description

B3020 is a rectangular aluminium grille with fixed horizontal bars. B3020 is used for both supply and exhaust air, and is supplied as standard with springs for installation in plenum boxes type VBA, WB or mounting frame type GGR. B3020 can also be used with volume regulator GAT.

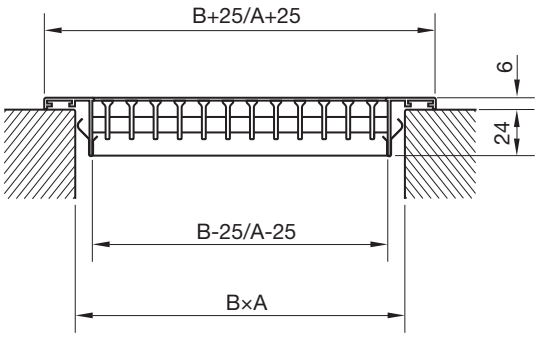
Maintenance

The grille should be removed to gain access to the plenum box or duct. The external parts should be wiped with a damp cloth.

Accessories

Plenum box:	VBA, WB
Mounting frame:	GGR
Volume regulator:	GAT

Dimensions



A mm	×	B mm	F m^2	m kg
200	×	100	0,0072	0,30
300	×	100	0,0113	0,40
400	×	100	0,0155	0,50
500	×	100	0,0195	0,70
300	×	150	0,0189	0,60
400	×	150	0,0258	0,70
500	×	150	0,0326	1,00
600	×	150	0,0395	1,20
400	×	200	0,0265	0,80
500	×	200	0,0457	1,40
600	×	200	0,0553	1,60

Other sizes and types: see page 170.

Order code

B 3020	200	100
Product		
A – Measure		
B – Measure		

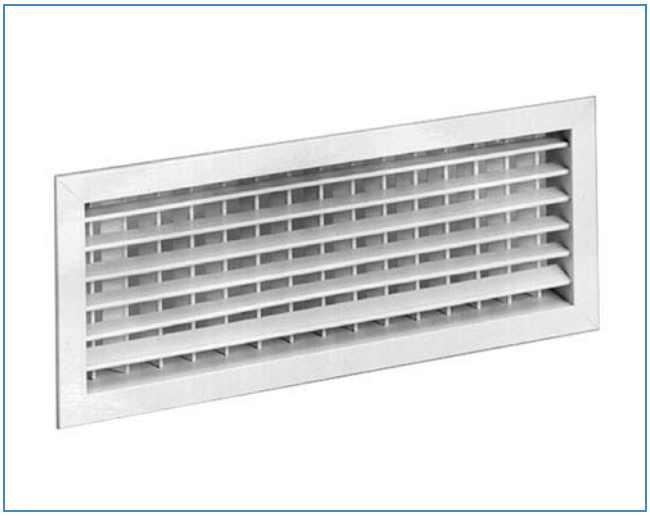
Materials and finish

Grille:	Aluminium
Standard finish:	Natural anodised
	On request: RAL 9010, gloss 30

The grille is available in other colours. Please contact Lindab's sales department for further information.

Grille

C20



Description

C20 is a rectangular aluminium grille with adjustable horizontal bars. C21 is also equipped with vertical directional bars for regulation of dispersal patterns. C20/C21 are used for supply air and are supplied as standard with springs for installation in plenum boxes type VBA, WB or mounting frame type GGR. C20/C21 can also be used with volume regulator GAT.

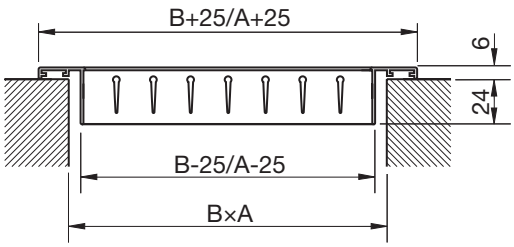
Maintenance

The grille should be removed to gain access to the plenum box or duct. The external parts should be wiped with a damp cloth.

Accessories

Plenum box:	VBA, WB
Mounting frame:	GGR
Volume regulator:	GAT

Dimensions



A mm	×	B mm	F m^2	m kg
200	×	100	0,0105	0,30
300	×	100	0,0164	0,40
400	×	100	0,0225	0,50
500	×	100	0,0283	0,70
300	×	150	0,0275	0,60
400	×	150	0,0375	0,70
500	×	150	0,0475	1,00
600	×	150	0,0574	1,20
400	×	200	0,0525	0,90
500	×	200	0,0664	1,40
600	×	200	0,0804	1,60

Other sizes and types can be supplied - see special grille C.

Order code

C20	aaa	bbb
Product		
A – Measure		
B – Measure		

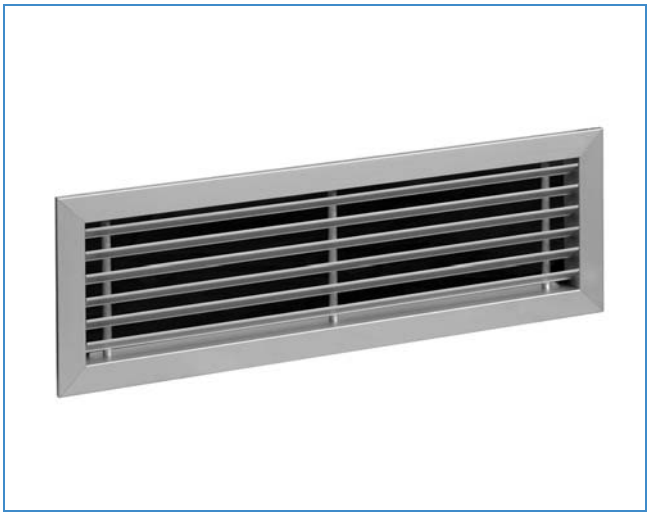
Materials and finish

Grille:	Aluminium
Standard finish:	Natural anodized
	On request: RAL 9003, gloss 30

The grille is available in other colours. Please contact Lindab's sales department for further information.

Grille

G20



Description

G20 is a rectangular aluminium grille with fixed slanting horizontal bars. G20 can be used for exhaust. G20 is supplied as standard with springs for installation in plenum boxes, type VBA. In the product photo the grille is shown with a VBA box.

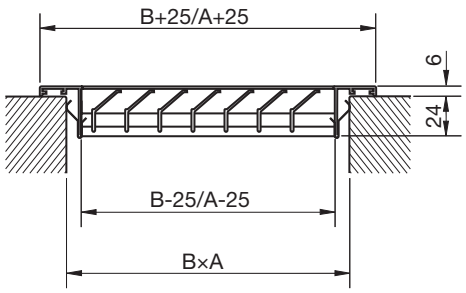
Maintenance

The grille should be removed to gain access to the plenum box or duct. The external parts should be wiped with a damp cloth.

Accessories

Plenum box:	VBA, WB
Mounting frame:	GGR
Volume regulator:	GAT

Dimensions



A mm	×	B mm	F m^2	m kg
200	×	100	0,0066	0,30
300	×	100	0,0103	0,30
400	×	100	0,0141	0,40
500	×	100	0,0178	0,60
300	×	150	0,0172	0,50
400	×	150	0,0234	0,60
500	×	150	0,0297	0,90
600	×	150	0,0359	1,00
400	×	200	0,0328	0,80
500	×	200	0,0416	1,20
600	×	200	0,0503	1,40

Order code

G20	aaa	bbb
Product		
A – Measure		
B – Measure		

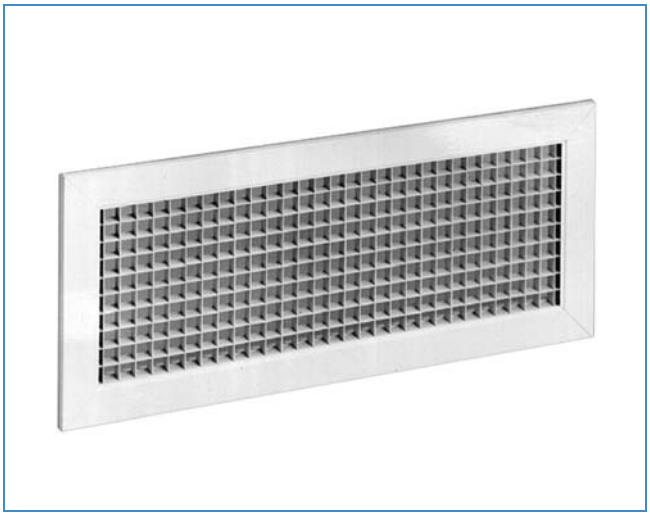
Materials and finish

Grille:	Aluminium
Standard finish:	Natural anodised
	On request: RAL 9003, gloss 30

The grille is available in other colours. Please contact Lindab's sales department for further information

Grille

F20



Description

F20 is a rectangular aluminium grille with square grids. F20 is particularly suitable for air exhaust. F20 is supplied as standard with springs for installation in plenum boxes type VBA, WB or mounting frame type GGR. F20 can also be used with volume regulator GAT.

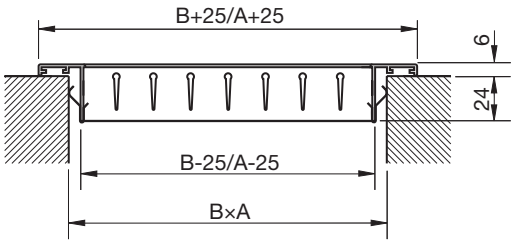
Maintenance

The grille should be removed to gain access to the plenum box or duct. The external parts should be wiped with a damp cloth.

Accessories

Pressure distribution box:	VBA, WB
Mounting frame:	GGR
Volume regulator:	GAT

Dimensions



A mm	×	B mm	F m^2	m kg
200	×	100	0,0111	0,20
300	×	100	0,0144	0,30
400	×	100	0,0240	0,30
500	×	100	0,0301	0,40
300	×	150	0,0292	0,30
400	×	150	0,0398	0,40
500	×	150	0,0504	0,50
600	×	150	0,0610	0,60
400	×	200	0,0557	0,50
500	×	200	0,0706	0,60
600	×	200	0,0854	0,70

For other sizes and types, see special grille F.

Order code

F20	aaa	bbb
Product		
A – Measure		
B – Measure		

Materials and finish

Grille:	Aluminium
Standard finish:	Natural anodised
	On request: RAL 9003, gloss 30

The grille is available in other colours. Please contact Lindab's sales department for further information.

Exhaust valve

KU

Description

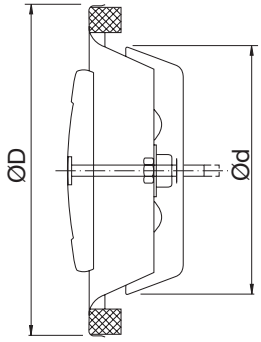
Valve for exhaust air.
Designed for wall or ceiling mounting.
Bayonet holders connect to socket VRGU, VRGL or VRGM.

Materials and finish

Material
Powder-coated galvanized sheet metal.

Colour
White RAL 9003, gloss 30.

Dimensions



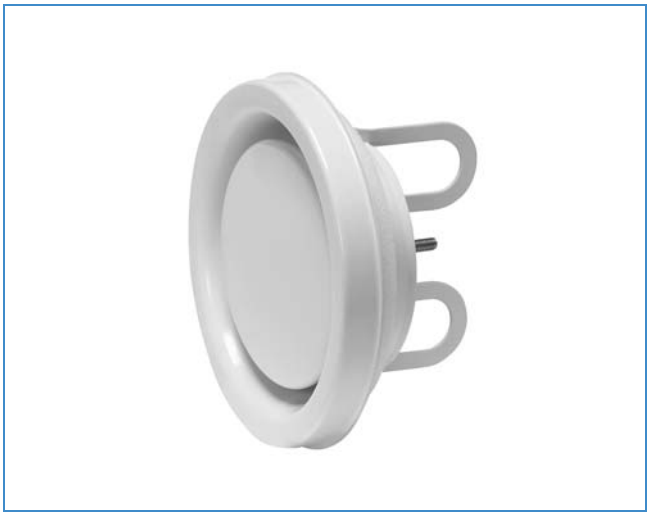
Ød nom	ØD mm	m kg
80	110	0,13
100	130	0,19
125	160	0,27
150	188	0,36
160	190	0,38
200	245	0,58

Order code

	KU	125
Product		
Dimension Ød		

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

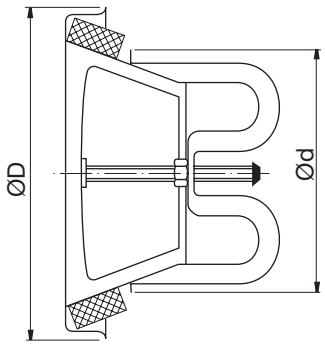
Material
Painted galvanized sheet metal.

Colour
White RAL 9003, gloss 30.

Order code

	KSU	160
Product		
Dimension Ød		

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

Exhaust valve URH

Description

The URH valve is used for air exhaust. In special cases the URH valve can be used as an supply air valve for installation in a wall (relatively long throw).

The valve has a low sound power level even at a relatively large pressure loss. URH is supplied in four standard sizes: 100, 125, 160 and 200 mm.

The URH valve fits directly into Lindab pipes by means of a standard VRGL type bayonet fitting or VRGU or VRGM type valve bushing.

Materials

Materials: Steel

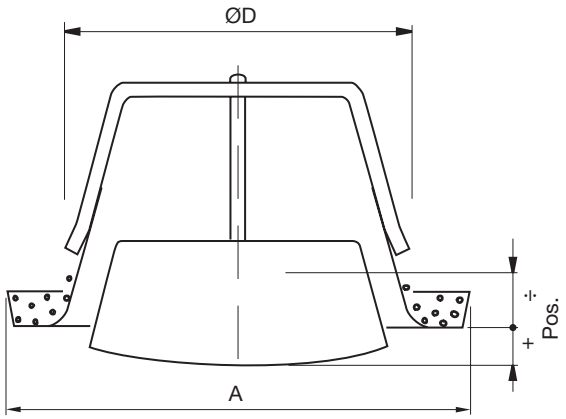
Maintenance

The visible parts can be wiped with a damp cloth.

Order code

Product	**URH**	**160**
Type		
Size		

Dimensions



ØD mm	A mm	Weight kg
100	140	0,30
125	165	0,40
160	200	0,60
200	250	0,90

Valve supply air

KI

Description

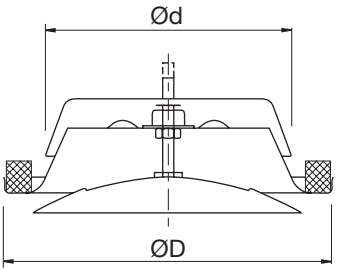
Valve for supply air.
Designed for ceiling mounting.
Bayonet holders connect to socket VRGU, VRGL or VRGM.

Materials and finish

Material
Powder-coated galvanized sheet metal.

Colour
White RAL 9003, gloss 30.

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

Order code

	KI	125
Product		
Dimension Ød		

Valve supply air

KIR

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.

Materials and finish

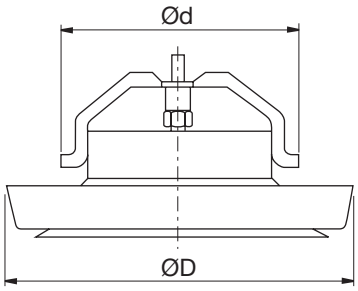
Material
Coated galvanized sheet metal.

Colour
White RAL 9003, gloss 30.

Order code

	KIR	100
Product		
Dimension Ød		

Dimensions



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

Suspension ring

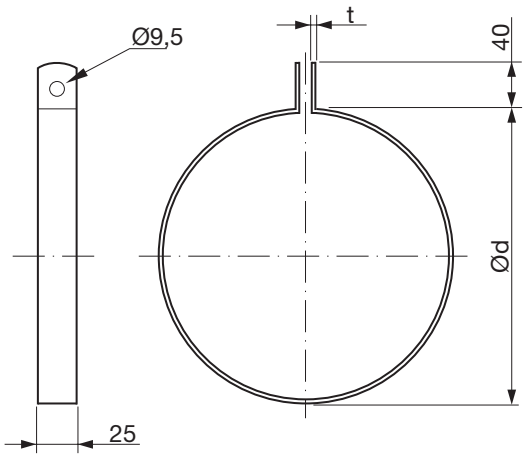
UV25

Description

For suspension of circular ducting. At insulated duct it is recommended that the suspension ring is mounted inside the insulation.

Also available in other dimensions up to Ø400.

Dimensions



Ød nom	t mm	m kg
80	2,0	0,13
100	2,0	0,15
125	2,0	0,18
160	2,0	0,22
200	2,0	0,27
250	2,0	0,33

Order code

	UV25	200
Product		
Dimension Ød		

Suspension ring

UVH25

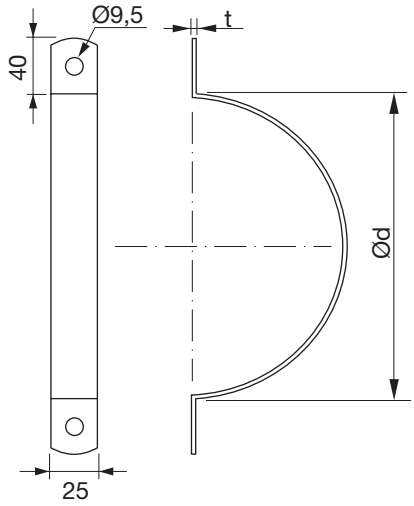
Description

For suspension of circular ducting. At insulated duct it is recommended that the suspension ring is mounted inside the insulation.

N.B. Is sold in pairs.

Also available in other dimensions up to Ø400.

Dimensions



Ød nom	t mm	m kg
80	2,0	0,20
100	2,0	0,20
125	2,0	0,20
160	2,0	0,20
200	2,0	0,30
250	2,0	0,30

Order code

	UVH25	200
Product		
Dimension Ød		

Suspension rings

UVHM25

Description

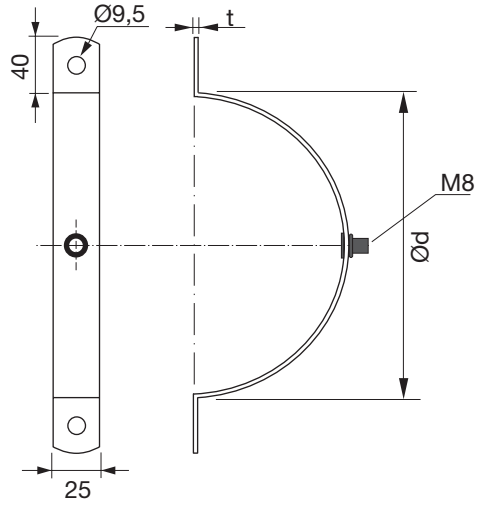
UVHM25- mounting brackets for ducts.

Material:
Two half parts galvanized sheets 25 x 2.0 mm.
one part mounted with an M8 popnut.

NB.
Is sold in pairs.
The weight is per pair.

Also available in other dimensions up to Ø400.

Dimensions



Ød nom	t mm	m kg
80	2,0	0,20
100	2,0	0,20
125	2,0	0,20
160	2,0	0,20
200	2,0	0,30
250	2,0	0,30

Order code

UVHM25 **250**

Product
Dimension Ød

Suspension rings

UVHGM25

Description

Suspension clamp with antivibration rubber.

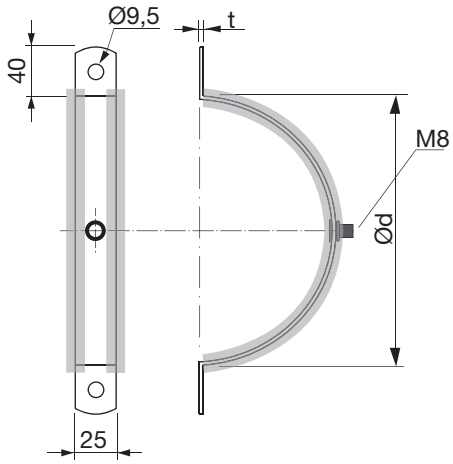
Material:
Two half parts galvanized sheets 25 x 2.0 mm with antivibration rubber, one with an 8 mm threaded bushing.
At insulated duct it is recommended that the suspension clamp is mounted inside the insulation.

NB.
Is sold in pairs.
The weight is per pair.

For intermediary dimensions, please contact Lindab.

Also available in other dimensions up to Ø400.

Dimensions



Ød nom	t mm	m kg
80	2,0	0,20
100	2,0	0,20
125	2,0	0,20
160	2,0	0,20
200	2,0	0,30
250	2,0	0,30

Order code

UVHGM25 **250**

Product
Dimension Ød

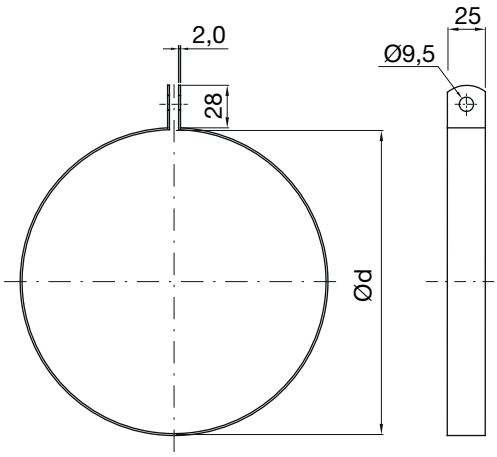
Suspension clamp

INUV25

Description

Clamp with short ear, for suspension of circular ducting in restricted spaces.
For insulated duct it is recommended that the suspension ring is mounted inside the insulation.

Dimensions



Ød nom	m* kg
80	135
100	159
112	173
125	180
132	199
157	230
160	235
180	258
192	274
200	284
224	313
232	323
250	346
260	359
280	383
300	407
315	427
355	477

Order code

	INUV25	200
Product		
Dimension Ød		

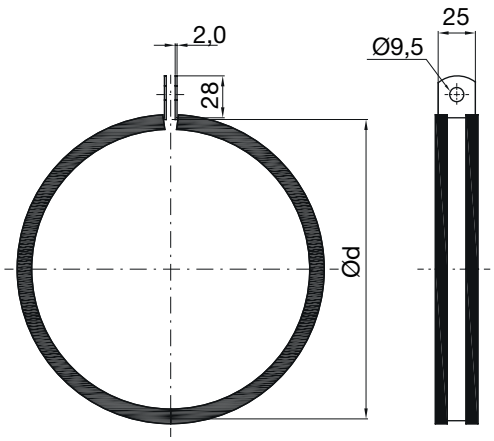
Suspension clamp

INUVG25

Description

Clamp with short ear, with vibration-damping internal rubber lining, for suspension of circular ducting in restricted spaces.
For insulated duct it is recommended that the suspension ring is mounted inside the insulation.

Dimensions



Ød nom	m* kg
80	179
100	211
112	230
125	242
132	264
157	306
160	312
180	343
192	364
200	377
224	416
232	429
250	459
260	478
280	509
300	541
315	567
355	634

Order code

	INUVG25	200
Product		
Dimension Ød		

Flexible duct clamp MDC

Description

A metal clamp for all types of flexible ducting. The clamp consists of the band FDB and the flip-up band lock FDBL. This system allows an easy and quick application thanks to the automatic locking that forms the right diameter of the duct.

Advantages

- Labour saving.
- The band has lifted edges to avoid damage to the ducting.

Technical data

Band width	9 mm
Band and lock material	Stainless steel AISI 430
Screw material	Galvanized steel
Screw head	Hex Head 7 mm A/F

Order code

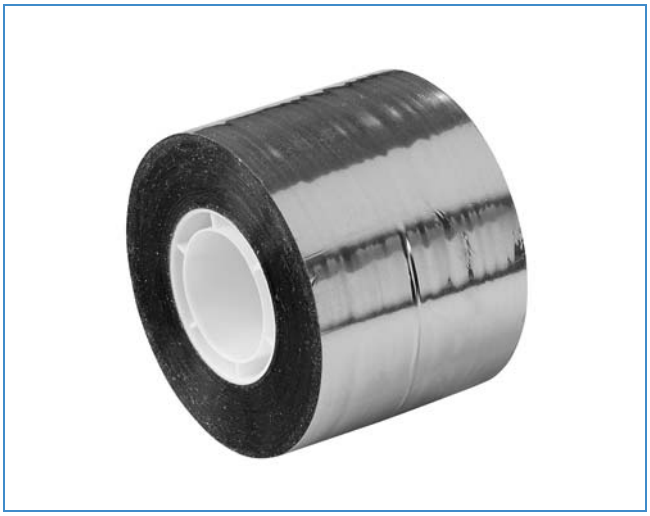
MDC	135	SS
Product		
Dimension Ød		
Material		

Dimensions

Ød nom
60 – 110
60 – 135
60 – 165
60 – 215
60 – 270
60 – 325
60 – 425
60 – 525
60 – 660

PP Metalized Tape

MT TAPE



Description

Single sided self adhesive tape with aluminium dust. Used to steam tighten AC or central heating systems. Due to its good adhesive properties and low side penetration by water and solvents, it is also widely used in other branches.

Material
Polypropylene (PP), metalized.

Colour
Shiny silver.

Temperature range
-20–80 °C.

Total thickness
0,05 mm.

Dimensions

Code	Width mm	Length m
TAPE	50	50
TAPE	75	50

Order code

TAPE	50	MT
Product		
Width		
Type		

Reinforced Aluminium Insulation Tape

RAI TAPE

Description

Single sided self-adhesive aluminium tape reinforced with 5×5 mm carbon fibre net, laminated with polyethylene. Higher mechanical durability as compared to plain tape. Widely used in technical assemblys.

Material
Aluminium, reinforced.

Colour
Shiny silver.

Temperature range
-25–70 °C.

Total thickness
0,15 mm.

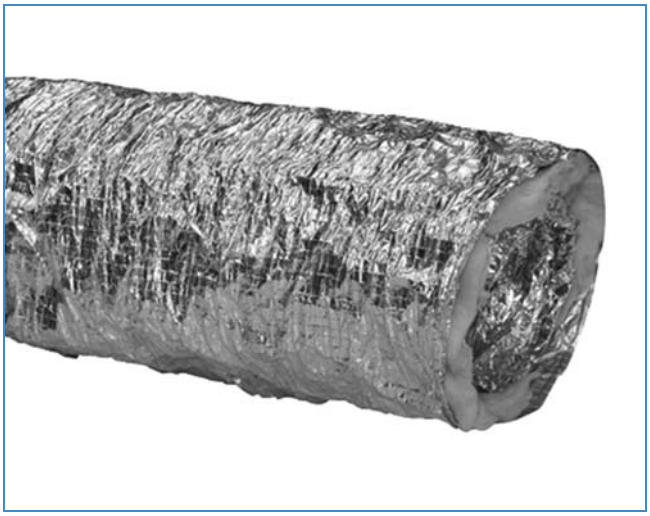
Dimensions

Code	Width mm	Length m
TAPE	50	50
TAPE	75	50
TAPE	100	50

Order code

TAPE	50	RAI
Product		
Width		
Type		

Flexible duct, insulated ISODEC

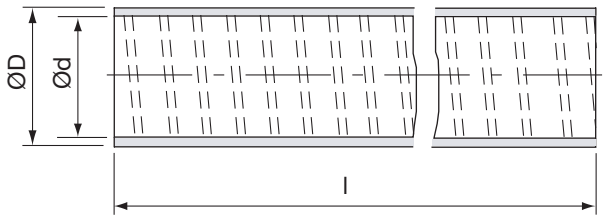


Description

ISODEC is a flexible duct made of non-combustible wool (t = 25 mm, d = 16 kg/m3), internally faced with a duct made of aluminum, reinforced with a spiral steel wire and externally faced with a vapor barrier made of reinforced aluminum foil.

Withstands temperatures from -30°C to +250°C.

Dimensions



Ød nom	ØD mm	l mm	m kg/m
80	130	10000	0,55
100	150	10000	0,75
125	175	10000	0,90
160	210	10000	1,20
180	230	10000	1,50
200	250	10000	1,80
250	300	10000	2,16

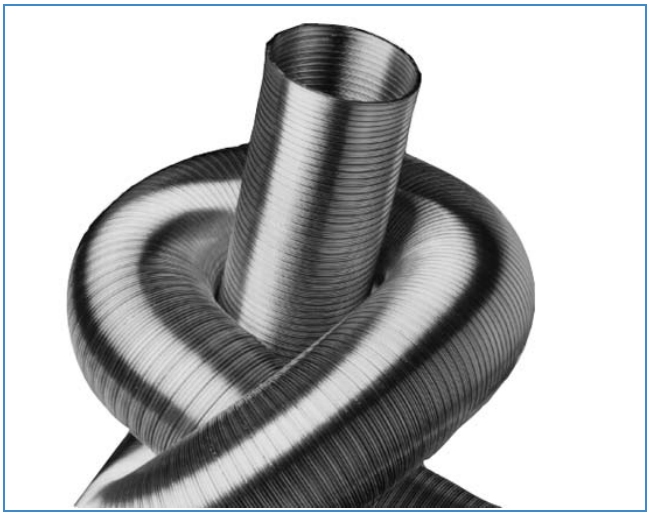
Order code

ISODEC 125

Product

Type

Semiflexible double duct SRFC



Description
Double-layer duct wall.

Applications
Suitable for mechanical air supply systems and air conditioning systems

Advantages
- Small storage and transport volume.

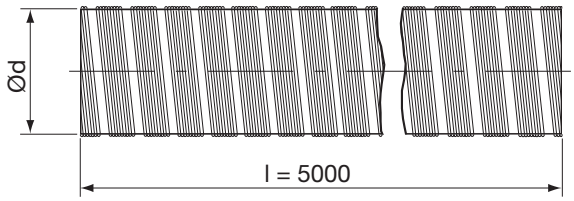
Technical data

Duct material	Aluminium + aluminium (AL)
Minimum bending radius	1×d
Maximum temperature	+200 °C
Fire resistance	Not flammable in accordance with DIN 4102 class A1
Delivery length:	
Ø 63–315	Compressed to 1,2 m
Standard length	5 m

Order code

SRFC	160
Product	
Dimension Ød	

Dimensions



Ød nom	O πd m	A πd²/4 m²	Max. pressure Pa	m kg
63	0,198	0,003	±3150	1,30
80	0,251	0,005	±3150	1,70
100	0,314	0,008	±3150	2,10
125	0,393	0,012	±3150	2,60
140	0,440	0,015	±3150	2,90
150	0,471	0,018	±2500	3,10
160	0,503	0,020	±2500	3,30
180	0,565	0,025	±2500	3,70
200	0,628	0,031	±2500	4,20
224	0,704	0,039	±2500	4,60
250	0,785	0,049	±2000	5,20

General
Product information

Dimensions

The dimension range, measures, colours and ways of how to build the products shown in this catalogue are general and the most frequent ones. Please be aware of that local variations may occur.

Designations and examples

These designations and dimensions of ducts and fittings are adapted to CEN standards.

Lengths are given in mm.

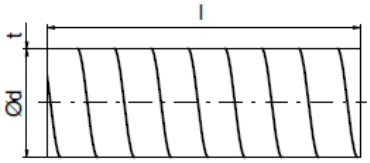
Angles are given in degrees.

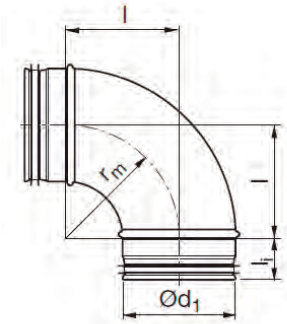
Fittings with Ød1 – Ød4 fit inside ducts and fittings with Ød.

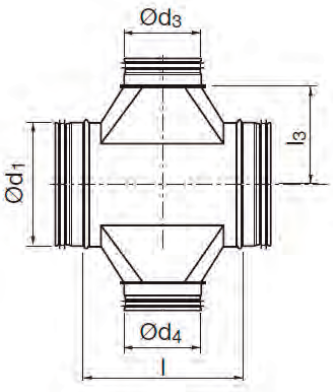
Duct and female dimension ..... Ød

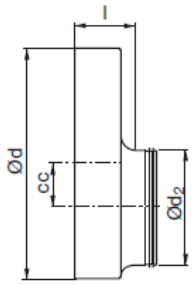
Connector dimension ..... $Ød_1$, $Ød_2$, $Ød_3$, $Ød_4$

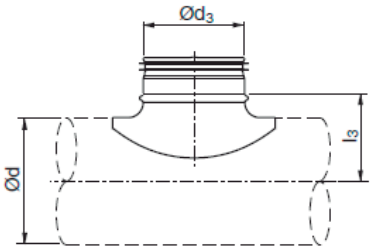
Sheet metal thickness ..... t











Installation length ..... l, l_1, l_2, l_3

Bend radius ..... r_m

Insertion length ..... l_i

Eccentricity cc

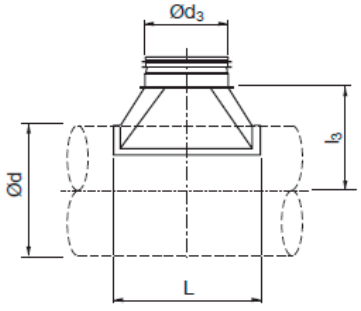
Component length L

Circumference ..... O

Cross-sectional area ..... A_c

Mass ..... m

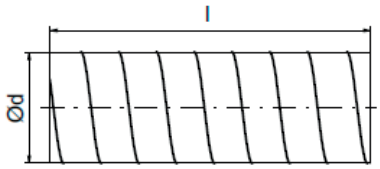
Linear mass ..... m_l

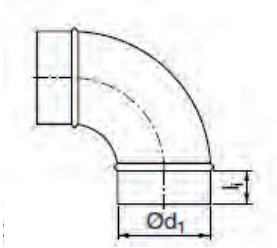


Tolerances

Bold face denotes standard dimensions

Standard face denotes intermediate dimensions.





Ducts

Ød nom	Tolerance range
63	63 - 63,5
80	80 - 80,5
100	100 - 100,5
112	112 - 112,5
125	125 - 125,5
140	140 - 140,6
150	150 - 150,6
160	160 - 160,6
180	180 - 180,7
200	200 - 200,7
224	224 - 224,8
250	250 - 250,8

Fittings

Ød nom	Tolerance range	l_i nom
63	61,8 - 62,3	40
80	78,8 - 79,3	40
100	98,8 - 99,9	40
112	110,8 - 111,3	40
125	123,8 - 124,3	40
140	138,7 - 139,3	40
150	148,7 - 149,3	40
160	158,7 - 159,3	40
180	178,6 - 179,3	40
200	198,6 - 199,3	40
224	222,5 - 223,3	40
250	248,5 - 249,3	60

Length

l, l1, 13 etc.	Tolerance	
0 - 15	+ 0	- 2
16 - 100	+ 0	- 5
101 -	+ 0	- 10
L	± 5	

Angle

α	Tole-rance
	± 2

Weight

± 10 %

Sheet metal thickness

As in sheet metal standard EN 10143:1993

Materials

Sheet metal quality

Fittings and ducts from Lindab's standard programme are manufactured from zinc coated sheet metal. This means that the base material shall be hot dipped zinc galvanized steel sheet metal with a yield point of approx. 200 N/mm², and that the galvanization shall be minimum as class Z 275. This surface treatment corresponds to the corrosivity category C3.

Sheet metal thicknesses

Other thicknesses of sheet metal can be supplied. You will have to expect some changes to the product range, however. For example, an increase in thickness in the ducts of 0,5 mm means that the internal diameter falls by 1,0 mm, which means in turn that standard fittings do not fit, and will have to be specially made for these ducts.

Sheet metal thicknesses

Corrosivity category	Environmental corrosivity	Sheet metal material
C3	Moderate	Galvanized (Z275)
C4	High	Alminium, plastic coated, alminium-Zinc (AZ185) and stainless steel (acid proof)
C5 - I	Very high (industrial)	Stainless steel (acid proof)
C5 - M	Very high (Marine)	Stainless steel (acid proof)

The Safe system

Safe is a quickly assembled system for round ventilation ducts. Safe is type approved to class D by SITAC, no. 1358/88. The complete programme has dimensions according to Eurovent 2/3 and Swedish Standard SS-EN 1506.

The system is based on a double-lipped, factory installed seal made from EPDM rubber. The moulding, which can withstand rough handling, and is almost insensitive to temperature changes, gives a very airtight seal.

Click function

The Click function exists in principle on all Safe-products. The Click function exists on the dimensions Ø 80–315. The Click function means; **a**. that an end with male measure has an open turned-over end **b**. that an end with female measure has a number of notches.

Type approval

Approval no. 1358/88 means that the Safe-system complies with the requirements for tightness class D without any demand for pressure testing after installation. The approval is only valid on condition that all fittings are marked by us in accordance with the example and are installed in accordance with the accompanying installation instruction.

Tightness

A duct system will never be “completely tight”. The system will normally have some leaks at joints between ducts and fittings. The leakage will also increase as the pressure difference between the in- and outside of the duct sides increases. The leakage factor in (l/s)/m2 is always specified in relation to the pressure difference in Pa. (The unit (l/s)/m2 denotes the leakage flow in l/s in or out of the system in relation to its duct area in m2.)

Present-day stringent demands for interior climate entail expensive air treatment. Leakage leads to uneconomical operation, adjustment difficulties and over-dimensioned equipment. For this reason, it is important that ventilation systems are very well sealed, to keep overall costs down. This is why official requirements for sealing vary with the size and use of systems.


Lindab
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We simplify construction

At Lindab we are driven by a strong desire to continuously generate improvements and to simplify construction. We do that by developing products and solutions that are easy to use and energy efficient, together with industry leading knowledge, support, logistics and efficient availability. We want to simplify everything – from designing, ordering, delivery, goal achievement and mounting to the entire way of doing business with us. By simplifying in every stage of the construction process, we also contribute to energy efficiency.

A good thinking company. Good thinking is a deeply rooted philosophy that guides us in everything we do. We firmly believe that good thinking makes good solutions to the challenges we all face. Taking responsibility for what we do and how we do things is therefore important to us. Because good thinking is not only about making life easier and more comfortable for our customers and end users. It is also a matter of thinking in a global perspective, all the time. Knowing that we at Lindab are helping to make the world a better place.

Certificates and approvals

The Lindab ventilation solutions hold type and fire approvals of the leading classification authorities.

This is just a small selection of certificats and approvals. Please go to lindabmarine.com for more information.


G-IKNT

References

Lindab has more than 35 years experience of supplying ventilation solutions to the marine and offshore industry with more than 2000 reference projects.

- 6 x AHTS, Kleven Norway
- Air Craft Carriers, BAE UK
- Disney Fantasy, Meyer Werft
- Costa Favolosa, Fincantieri
- Color Line Magic, STX Finland
- Heidrun
- Ekofisk
- Moho Bilondo
- Quantum/Oasis Class, Meyer Germany & Finland
- F-125 Fregates, Thyssen Krupp Germany
- Luxury yacht, Amels Netherlands
- Luxury yacht, Oceanco Netherlands

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Most of us spend the majority of our time indoors. Indoor climate is crucial to how we feel, how productive we are and if we stay healthy.

We at Lindab have therefore made it our most important objective to contribute to an indoor climate that improves people's lives. We do this by developing energy-efficient ventilation solutions and durable building products. We also aim to contribute to a better climate for our planet by working in a way that is sustainable for both people and the environment.

Lindab | For a better climate