



NORDsmoke
Circular smoke extraction ducts

 **ETS NORD**

All about air



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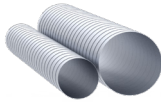
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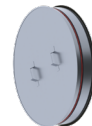
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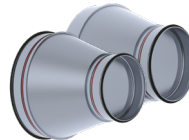
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Reducer

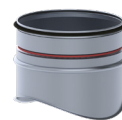
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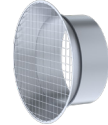
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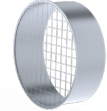
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Air intake

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General

NORDsmoke is a certified ventilation ducts product group for single compartment smoke extraction. It is used in a system to control the movement and/or containment of smoke and heat.

ETS NORD NORDsmoke smoke control duct section achieves CE standard requirements.

NORDsmoke ducts are in accordance with EN 13501 standard. Duct system has been tested for 600°C/2 hours (according to EN 1366-9).

NORDsmoke smoke extraction ducts are classified according to EN 13501-4 as follows:

E₆₀₀ 120 (v_e - h_o) S 1500

Classification report of the fire resistance of a smoke extraction duct according to EN 13501-4

Maximum negative pressure is -1500 Pa

Maximum positive pressure is +500 Pa

Resistance temperature is 600 °C for 120 minutes

Round smoke control duct section

We produce NORDsmoke round ducts and fittings according to the requirements of standard EN 1506:2007. Components of NORDsmoke ventilation round ducts fulfil requirements of density class D, if stated installation instructions are followed.

All NORDsmoke round male fittings are equipped with EPDM rubber seals and promaseal tape, which maintain their proper characteristics after installation.

Maximum permitted dimension for installation is Ø 1000 mm.

Marking, dimensions and tolerances

d – Indicates the inside diameter of the duct and female coupling

d1, d2, d3 and d4 – Indicates the outside diameter of conduit components

l, l1, and l3 – The actual length of a conduit component, supplemented to the total length of the ventilation system

L – Strait conduit length

lp – Overlap length

Tolerance limits for sizes l, r, r_m, s

Sizes l, r, r _m , s, mm	Tolerance, mm
≥ 15	+0
	-2
> 15 ≤ 100	+0
	-5
> 100	+0
	-10

Overlap length l_p.

Nominal size, mm	lp, mm
100-200	60
250-315	70
400	77
500-630	92
800-1000	140

Tolerance for conduit length L is 0.005L.

Angle tolerance is 2°.

Material

In general all products are made of hot dip galvanized steel sheets, with the minimum thickness of the zinc layer being 275 g/m² on both sides.

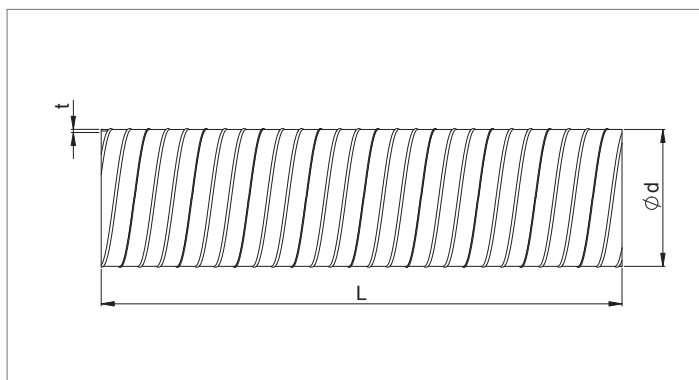
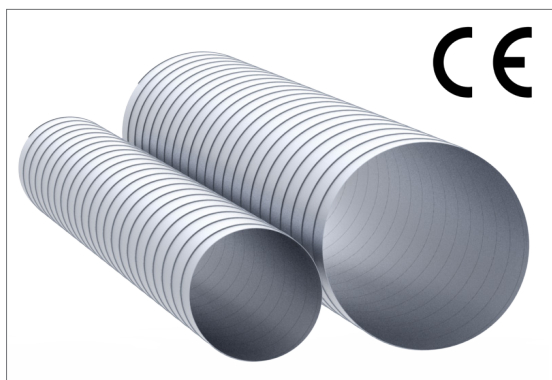
Marking

Marking of standard products should clearly indicate the type and size of the product. All dimensions are given in millimeters. Each product of the smoke and heat control systems ducts are labeled with the CE label and smoke control ducts also with NORDsmoke adhesive tape.

NTO-T Smoke duct

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NORDsmoke



NTO-T smoke ducts are made of hot-dip galvanized sheet steel. Standard lengths $L=3$ m and $L=6$ m. The spiral ducts fulfil density class D requirements. NORDsmoke spiral ducts are in accordance with EN 12101-7 standard.

Dimension d	Material thickness t, mm	Weight, kg/m
100	0,9	2,4
125	0,9	2,9
160	0,9	3,8
200	0,9	4,7
250	0,9	5,8
315	0,9	7,1
400	0,9	10,2
500	0,9	12,9
630	0,9	15,5
800	0,9	19,6
1000	0,9	25

Duct profiles

Sizes 100-250 mm

Sizes 315-1000 mm



Marking

NTO-T

Ø d

3

Marking

Diameter

Length

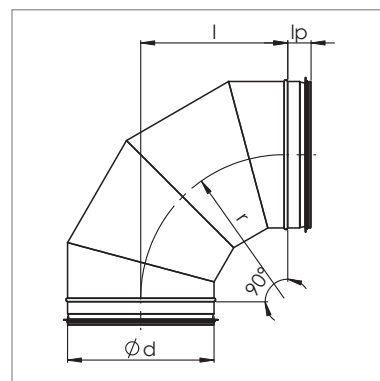
Example: NTO-T 315-3

NV-T Bend

Segmented and lockseamed ventilation bend. $r=1*d$. Available standard angles are 90, 60, 45, 30, 15 degrees.

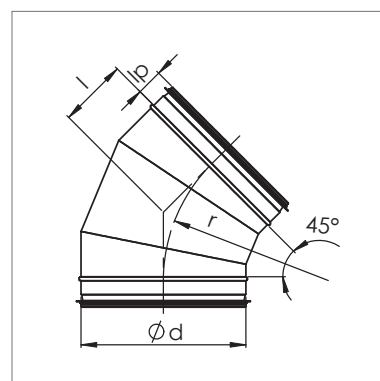
NV-T 90°

Nominal size d	l mm	Weight kg
100	100	0,6
125	125	0,7
160	160	0,82
200	200	1,2
250	250	1,8
315	315	2,6
400	400	5,6
500	500	9,1
630	630	13
800	800	23,6
1000	1000	45



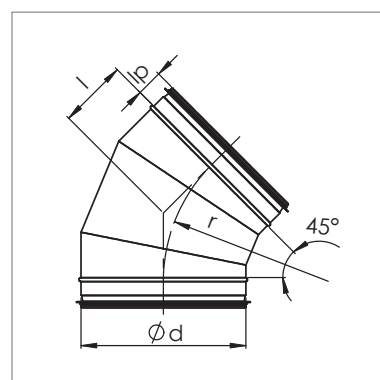
NV-T 60°

Nominal size d	l mm	Weight kg
100	58	0,5
125	72	0,65
160	92	0,76
200	115	1,1
250	144	1,5
315	182	2,2
400	231	4,7
500	289	7,1
630	364	10,8
800	492	20,9
1000	577	36,2



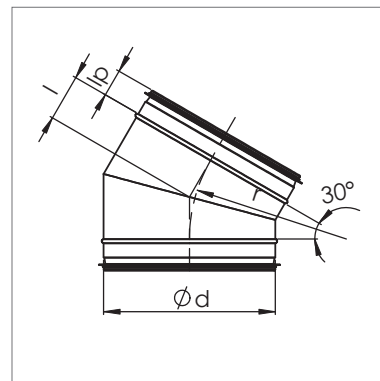
NV-T 45°

Nominal size d	l mm	Weight kg
100	40	0,3
125	51	0,4
160	65	0,58
200	80	0,84
250	105	1,1
315	130	1,7
400	165	3,5
500	205	5,4
630	260	8
800	330	14
1000	415	26



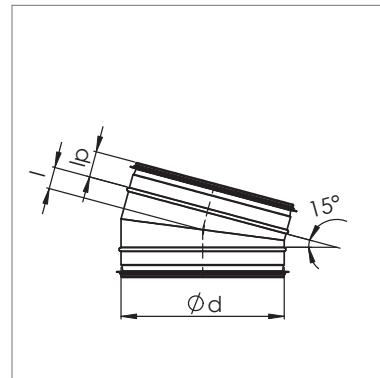
NV-T 30°

Nominal size d	l mm	Weight kg
100	27	0,29
125	33	0,39
160	43	0,54
200	54	0,73
250	70	1,3
315	85	1,8
400	110	2,7
500	135	4,1
630	170	6,1
800	215	11,8
1000	270	19,8



NV-T 15°

Nominal size d	l mm	Weight kg
100	13	0,23
125	16	0,3
160	21	0,4
200	26	0,52
250	33	0,9
315	41	1,2
400	53	1,8
500	66	2,6
630	83	3,8
800	105	7,3
1000	131	11,6



Product code

NV-T	Ø d
Marking	Diameter

Example: NV-T 315

NI-T Coupling

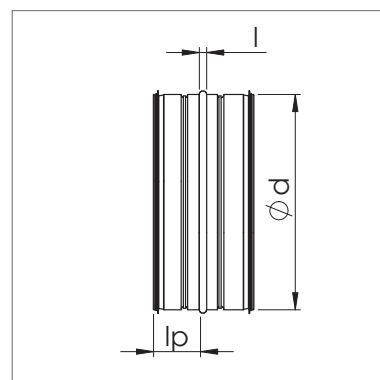
Round ventilation system coupling for connection.

Nominal size d	l mm	Weight kg
100	7	0,2
125	7	0,25
160	7	0,3
200	7	0,4
250	7	0,6
315	7	0,7
400	7	1,3
500	7	1,9
630	7	2,4
800	16	4,9
1000	16	7,7

Product code

NI-T	Ø d
Marking	Diameter

Example: NI-T 315



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NIL-T Slide-in coupling

Long coupling allows for the adjustment of duct length in the fitting area.



Nominal size d	l ₁ , mm	l, mm	Weight, kg
100	161	7	0,35
125	161	7	0,4
160	161	7	0,5
200	161	7	0,7
250	172	7	0,9
315	172	7	1,1
400	179	7	2,0
500	194	7	2,8
630	194	7	3,5
800	246	16	6,3
1000	246	16	10,0

Product code

NIL-T

Marking

Ø d

Diameter

Example: NIL-T 315

NM-T Female coupling

NM-T female coupling is designed for connection of different ventilation components.

Nominal size d	l, mm	l ₁ , mm	Weight kg
100	60	16	0,18
125	60	16	0,22
160	60	16	0,28
200	60	16	0,34
250	70	16	0,5
315	70	16	0,7
400	77	16	1,2
500	92	16	1,8
630	92	16	2,2
800	140	16	4,1
1000	140	16	6,6

Product code

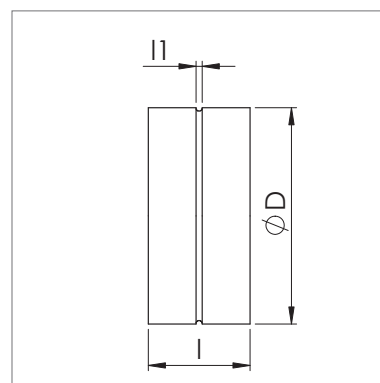
NM-T

Marking

Ø d

Diameter

Example: NM-T 315



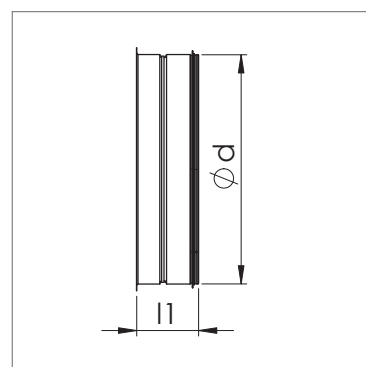
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NORDsmoke

NSK-T Saddle

Straight saddle.

Nominal size d	l ₁ , mm	Weight, kg
100	60	0,15
125	60	0,18
160	60	0,22
200	60	0,28
250	70	0,4
315	70	0,5
400	77	0,9
500	92	1,2
630	92	1,5
800	140	3,0
1000	140	4,6



Product code

NSK-T

Marking

Ø d

Diameter

Example: NSK-T 315

NSKM-T Female saddle

Female straight saddle.

Nominal size d	l, mm	Weight, kg
100	60	0,1
125	60	0,12
160	60	0,15
200	60	0,2
250	70	0,3
315	70	0,35
400	77	0,7
500	92	1,0
630	92	1,2
800	140	2,2
1000	140	3,5

Product code

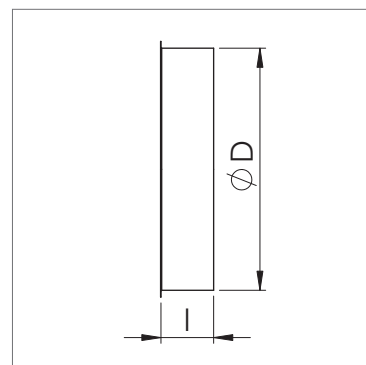
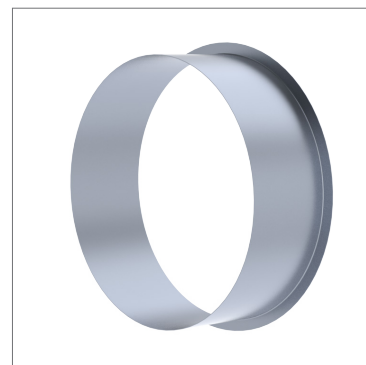
NSKM-T

Marking

Ø D

Diameter

Example: NSKM-T 315



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NORDsmoke

NAL-T End cap

End cap for ventilation duct.

Nominal size d	l ₁ , mm	Weight, kg
100	60	0,16
125	60	0,21
160	60	0,28
200	60	0,38
250	70	0,6
315	70	0,8
400	77	1,5
500	92	2,3
630	92	3,2
800	140	5,6
1000	140	9,9

3
NORDsmoke

Product code

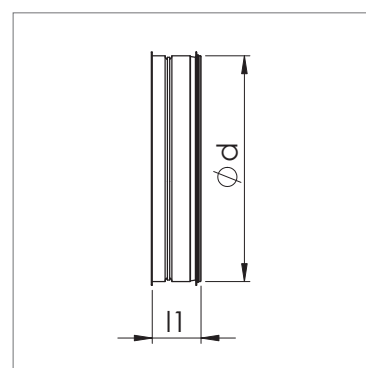
NAL-T

Marking

Ø d

Diameter

Example: NAL-T 315



NALM-T Female end cap

End cap for fitting.

Nominal size d	l, mm	Weight, kg
100	60	0,14
125	60	0,18
160	60	0,24
200	60	0,33
250	70	0,5
315	70	0,7
400	77	1,4
500	92	2,1
630	92	3,0
800	140	5,0
1000	140	9,1

Product code

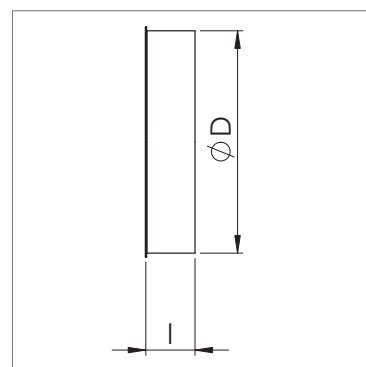
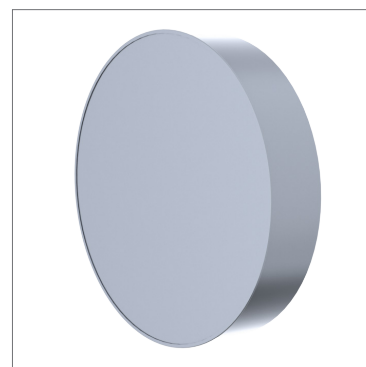
NALM-T

Marking

Ø D

Diameter

Example: NALM-T 315



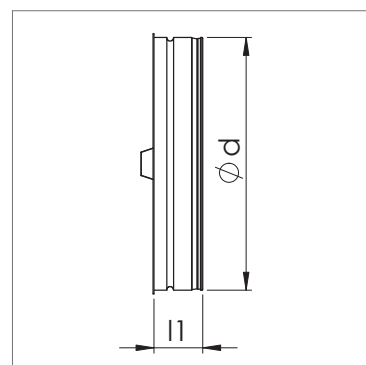
3

NORDsmoke

NALH-T Cleaning cover

End cap-cleaning cover for ventilation duct.

Nominal size		Weight,
d	l ₁ , mm	kg
100	60	0,16
125	60	0,21
160	60	0,28
200	60	0,38
250	70	0,6
315	70	0,8
400	77	1,5
500	92	2,3
630	92	3,2
800	140	5,6
1000	140	9,9



Product code

NALH-T

Marking

Ø D

Diameter

Example: NALH-T 315

NALMH-T Cleaning cover

End cap-cleaning cover for fitting.

Nominal size d	l, mm	Weight, kg
100	60	0,14
125	60	0,18
160	60	0,24
200	60	0,33
250	70	0,5
315	70	0,7
400	77	1,4
500	92	2,1
630	92	3,0
800	140	5,0
1000	140	9,1

Product code

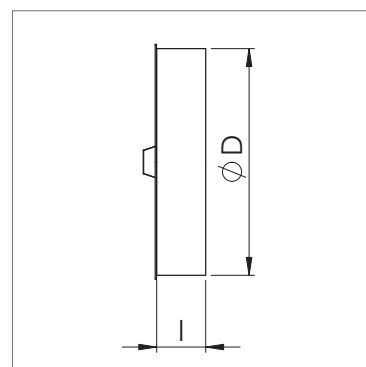
NALMH-T

Marking

Ø D

Diameter

Example: NALMH-T 315



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NORDsmoke

NFCV-T/NFCVM-T Reducer concentric

Reducer reduces the diameter of the ventilation duct to increase or decrease the pressure in the ventilation system.

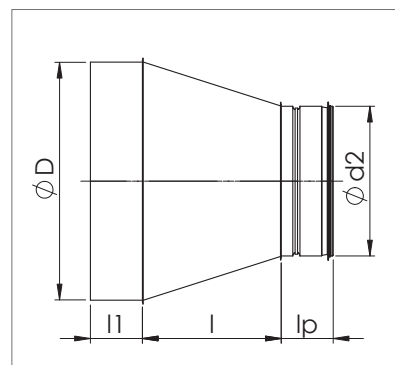
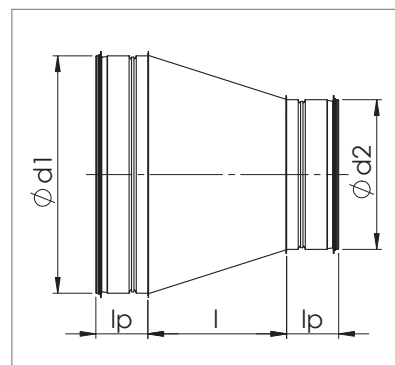
NFCV - concentric reducer (fitting/fitting)

NFCVM - concentric reducer (duct/fitting)

NORDsmoke

3

Nominal size $d_1/D-d_2$	l , mm	l_1 , mm	Weight, kg
125-100	65	60	0,45
160-100	110	60	0,6
200-100	170	60	0,8
250-100	230	70	1,0
160-125	80	60	0,55
200-125	140	60	0,85
250-125	200	70	1,0
315-125	290	70	1,4
200-160	90	60	0,9
250-160	150	70	0,95
315-160	245	70	1,4
400-160	365	77	2,9
250-200	100	70	0,9
315-200	190	70	1,3
400-200	310	77	2,7
500-200	450	92	4,3
315-250	120	70	1,2
400-250	240	77	2,6
500-250	380	92	4,1
630-250	400	92	5,1
400-315	155	77	2,2
500-315	290	92	3,7
630-315	400	92	5,4
800-315	500	140	8,8
500-400	180	92	3,4
630-400	360	92	5,6
800-400	500	140	9,1
1000-400	500	140	14,1
630-500	250	92	5,1
800-500	460	140	9,3
1000-500	500	140	14,7
800-630	280	140	7,8
1000-630	500	140	15,3
1000-800	325	140	13,8



Product code

NFCVM-T

Marking

ϕd_1

Diameter

ϕd_2

Diameter

Example:

NFCV-T 315-250

NFCVM-T 250-160

NFB-T/NFBM-T Reducer eccentric

Reducer reduces the diameter of the ventilation duct to increase or decrease the pressure in the ventilation system.

NFB - eccentric reducer (fitting/fitting)

NFBM - eccentric reducer (duct/fitting)

Nominal size $d_1/D-d_2$	l , mm	l_1 , mm	Weight, kg
125-100	65	60	0,4
160-100	110	60	0,6
200-100	170	60	0,8
250-100	230	70	1,1
160-125	80	60	0,55
200-125	140	60	0,8
250-125	200	70	1,1
315-125	290	70	1,5
200-160	90	60	0,7
250-160	150	70	1,0
315-160	245	70	1,5
400-160	365	77	3,0
250-200	100	70	1,0
315-200	190	70	1,4
400-200	310	77	2,9
500-200	450	92	4,5
315-250	120	70	1,3
400-250	240	77	2,7
500-250	380	92	4,3
630-250	400	92	5,5
400-315	155	77	2,4
500-315	290	92	4,0
630-315	400	92	5,7
800-315	500	140	8,9
500-400	180	92	3,6
630-400	360	92	5,9
800-400	500	140	9,6
1000-400	500	140	15,8
630-500	250	92	5,4
800-500	460	140	9,8
1000-500	500	140	15,6
800-630	280	140	8,2
1000-630	500	140	16,1
1000-800	325	140	14,5

Product code

NFBM-T

Marking

Ød

Diameter

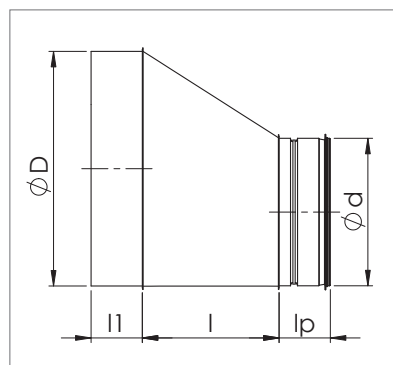
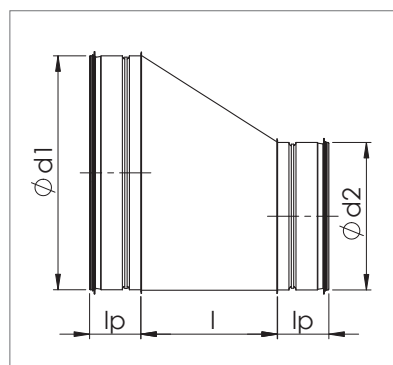
Ød₂

Diameter

Example:

NFB-T 315-250

NFBM-T 250-160



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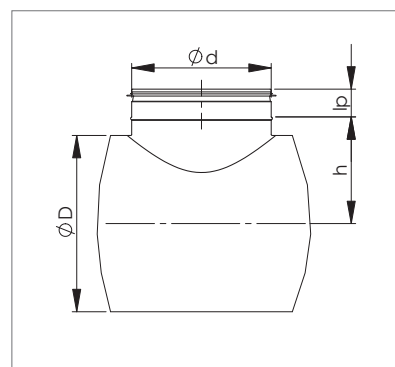
NORDsmoke

NPSK-T Saddle

Saddle with seal to fit round duct.

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NORDsmoke

Nominal size			Weight,
D-d	h, mm		kg
100-100	97		0,19
125-100	110		0,18
125-125	110		0,25
160-100	127		0,18
160-125	127		0,24
160-160	127		0,32
200-100	147		0,17
200-125	147		0,23
200-160	147		0,3
200-200	147		0,42
250-125	172		0,23
250-160	172		0,3
250-200	172		0,39
250-250	172		0,59
315-160	205		0,29
315-200	205		0,37
315-250	205		0,53
315-315	205		0,77
400-200	247		0,36
400-250	247		0,51
400-315	247		0,69
500-250	297		0,49
500-315	297		0,66
630-315	362		0,63



Product code

NPSK-T	ØD	Ød
Marking	Diameter	Diameter

Example: NPSK-T 500-315

NPSV-T Saddle

Segmented saddle with seal to fit round duct.

Nominal size D-d	h, mm	l, mm	Weight, kg
400-400	300	625	2,9
500-400	355	635	3,2
630-400	420	634	3,9
800-400	505	636	3,2
500-500	350	720	4,7
630-500	420	733	5,7
800-500	500	720	3,5
1000-500	600	713	4,6
630-630	420	866	6,2
800-630	500	850	8,6
1000-630	600	845	4,9
800-800	520	1059	7,2
1000-800	610	1042	10,1
1000-1000	615	1252	15,3

Product code

NPSV-T

Marking

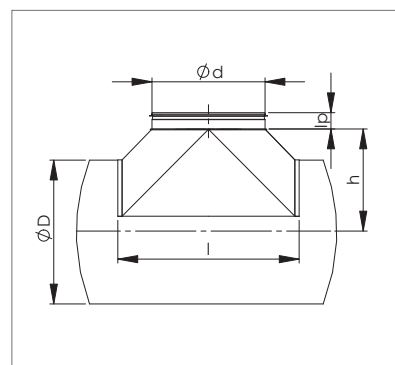
Ø D

Diameter

Ø d

Diameter

Example: NPSV-T 500-400



3

NORDsmoke

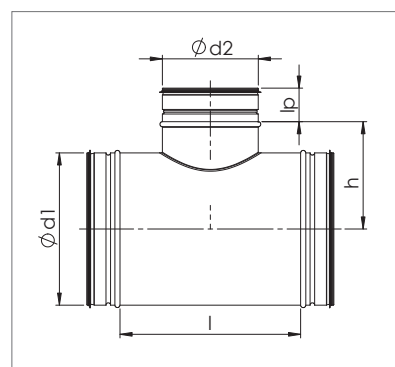
NTK T-piece

Assembled T-pieces with NPSK-T saddle.

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NORDsmoke

Nominal size d_1-d_2	l , mm	h , mm	Weight, kg
100-100	207	90	0,54
125-100	207	103	0,62
125-125	225	103	0,72
160-100	207	120	0,73
160-125	225	120	0,83
160-160	285	120	1,04
200-100	207	140	0,85
200-125	225	140	0,96
200-160	285	140	1,19
200-200	340	140	1,45
250-125	225	165	1,53
250-160	285	165	1,9
250-200	340	165	2,2
250-250	404	165	2,7
315-160	285	198	2,3
315-200	340	198	2,7
315-250	404	198	3,2
315-315	450	198	3,7
400-200	340	240	3,3
400-250	404	240	3,9
400-315	450	240	4,4
500-250	404	290	4,9
500-315	450	290	5,4
630-315	450	355	6,6



Product code

NTK

Marking

$\varnothing d_1$

Diameter

$\varnothing d_2$

Diameter

Example: NTK 500-250

NTKV T-piece

Assembled T-pieces with NPSV-T segment saddle.

Nominal size d_1-d_2	l , mm	h , mm	Weight, kg
400-400	617	300	7,3
500-400	627	355	8,5
500-500	712	350	9,8
630-400	626	420	10,1
630-500	725	420	12,6
630-630	858	420	14,4
800-400	628	505	13,1
800-500	712	500	15,3
800-630	842	500	18,3
800-800	1051	520	22,3
1000-500	705	600	22,3
1000-630	837	600	26,6
1000-800	1034	610	32,0
1000-1000	1244	615	42,5

Product code

NTKV-T

Marking

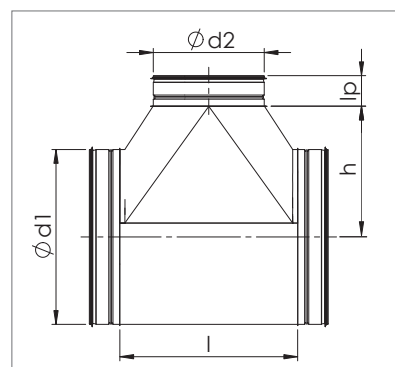
$\varnothing d_1$

Diameter

$\varnothing d_2$

Diameter

Example: NTKV-T 500-400



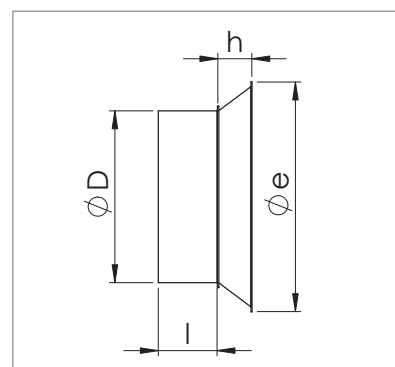
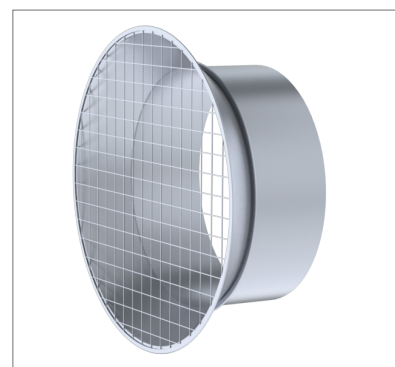
3

NORDsmoke

NK/NKM-T Air intake

NKM-T connection with a mesh is used as the end piece of ventilation ducts.

Nominal size D	l, mm	h, mm	e, mm	Weight, kg
100	60	60	190	0,26
125	60	60	215	0,32
160	60	60	250	0,4
200	60	60	290	0,5
250	70	60	340	0,7
315	70	60	405	0,9
400	77	75	512	1,7
500	92	75	612	2,3
630	92	90	765	3,3
800	140	90	935	5,0
1000	140	100	1165	8,8



Product code

NKM-T

Ød

Marking
NK-T -fitting
NKM-T -duct

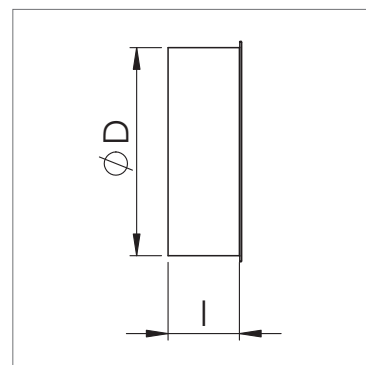
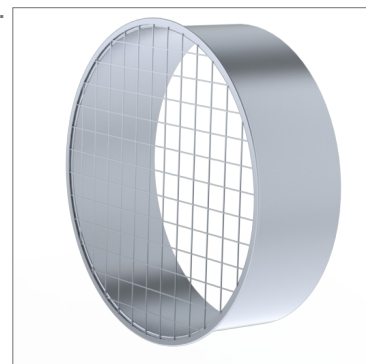
Diameter

Example: NKM-T 315

NG/NGM-T Air intake

NGM-T connection with a mesh is used as the end piece of ventilation ducts.

Nominal size		Weight,
D	l, mm	kg
100	60	0,14
125	60	0,18
160	60	0,24
200	60	0,33
250	70	0,5
315	70	0,7
400	77	1,4
500	92	2,1
630	92	3,0
800	140	5,0
1000	140	9,1



Product code

NGM-T

Ød

Marking
NG-T -fitting
NGM-T -duct

Diameter

Example: NGM-T 315

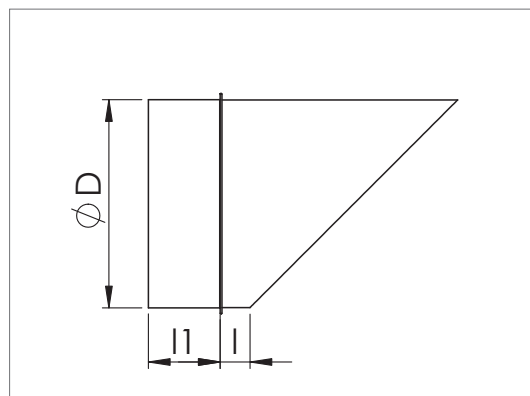
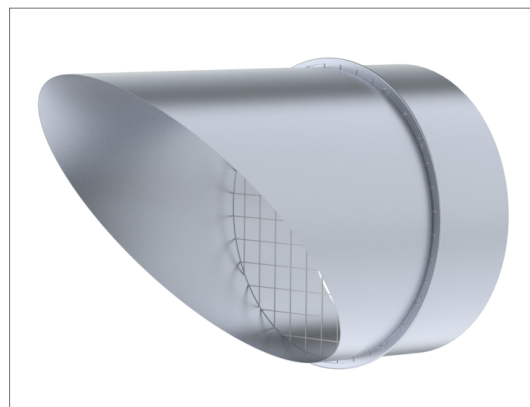
3

NORDsmoke

NP/NPM-T Exhaust end piece

Angle end piece with mesh.

Nominal size D	l ₁ , mm	l, mm	Weight, kg
100	30	60	0,35
125	30	60	0,45
160	40	60	0,6
200	40	60	0,8
250	50	70	0,9
315	50	70	1,7
400	50	77	3,5
500	60	92	4,8
630	60	92	7,5
800	70	140	13
1000	70	140	18



Product code

NPM-T

Ød

Marking
NP-T -fitting
NPM-T -duct

Diameter

Example: NPM-T 315



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