












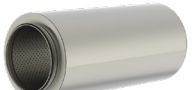
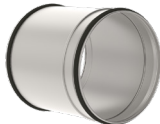













**NORD**duct

Round ducting - Special materials

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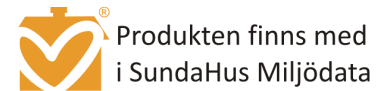
**General**

NORDduct system includes spiral ducts, bends, couplings, reducers, take-offs, tees, end caps and intakes. NORDduct round ducts and parts from special materials are manufactured according to the standard EVS-EN 1506:2007. NORDduct ducts and parts meet tightness class D requirements provided that the products are assembled according to instructions.

All NORDduct standard products are equipped with EPDM rubber seals, which maintain their proper characteristics after installation are very temperature resistant.

**Certificates:**

- Type approval certificate SC0183-10
- NORDduct products are classified by the cleanliness class M1



**1. Materials**

**1.1 Materials and standards:**

- H - Acid-proof steel (standards EVS-EN 10088-2:2014, EN 1.4404 vöi AISI 316L)
- Al - Aluminium (standard EVS-EN 485-1:2016, 5754 [AlMg3])
- ZM - Zinc-magnesium coated steel (standards EVS-EN 10346:2015, DX51D+ZM310)
- ZM+ - Zinc-magnesium coated steel (standards EVS-EN 10346:2015, DX51D+ZM310) + additional protection of the weld.

The welding seams of the products are treated inside and outside with a protective finish coat to reduce the risk of corrosion and covered with a silver finish lacquer. Welded joints treated in this way have been successfully tested in long-term (1000h) exposure to corrosive environments and are particularly well suited to very aggressive environments such as spas and swimming pools.

**1.2 Material thickness**

Nominal size d (mm)	Material thickness (mm)				
	H		ZM		Al
	NTO duct	Fitting	NTO duct	Fitting	Duct and fittings
100	0,5	0,5	0,5	0,5	0,7
125	0,5	0,5	0,5	0,5	0,7
160	0,5	0,5	0,5	0,5	0,7
200	0,5	0,5	0,5	0,5	0,7
250	0,5	0,5	0,5	0,5	0,7
315	0,5	0,5	0,5	0,5	0,7
400	0,7	0,7	0,7	0,7	0,7
500	0,7	0,7	0,7	0,7	0,7
630	0,7	0,7	0,7	0,7	0,7
800	0,7	0,7	0,7	0,7	0,7
1000	0,7	1,0	0,7	0,9	-
1250	0,7	1,0	0,7	0,9	-

**2. Product codes**

Marking standard products, the type and dimensions of the product must be specified. All measurements are in millimetres (mm).

Example: NI-H 200 (Acid-proof steel)

**3. Marking of materials, measurements and tolerances**

d – inner diameter of duct

d1, d2, d3 ja d4 – outer diameter of part

l, l1, ja l3 – length of part

L – length of direct duct

lp – overall length

Tolerance for measurements l, r, rm, s

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

Overall length lp

Nominal size, mm	lp, mm
100-200	30
250-400	50
500-630	61
800	96
1000-1250	110

Tolerance for duct length L is 0,005 L.

Tolerance for angle is 2°.

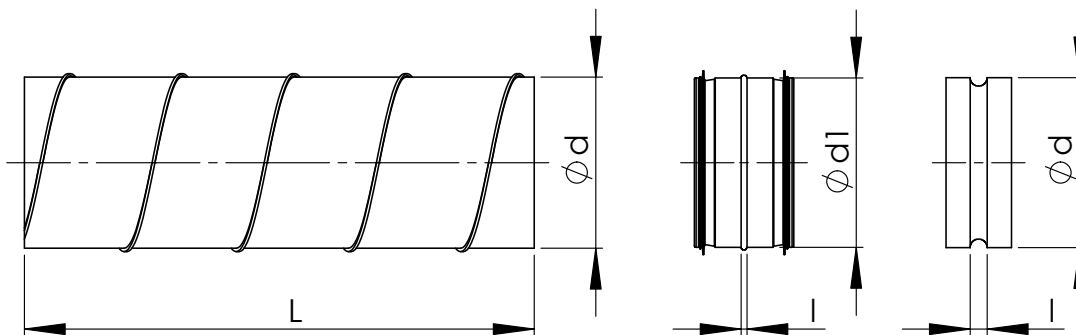


Table 1. Tolerance for ducts and parts (according to standard EN 1506:2007)

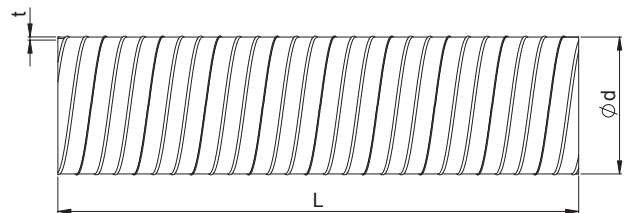
Nominal size, d, mm	Duct inner diameter Ød	Tolerance	Part outer diameter Ød1	Tolerance
100	100,0.....100,5	0,5	98,8.....99,3	0,5
125	125,0.....125,5	0,5	123,8.....124,3	0,5
160	160,0.....160,6	0,6	158,7.....159,3	0,6
200	200,0.....200,7	0,7	198,6.....199,3	0,7
250	250,0.....250,8	0,8	248,5.....249,3	0,8
315	315,0.....315,9	0,9	313,4.....314,3	0,9
400	400,0.....401,0	1,0	398,3.....399,3	1,0
500	500,0.....501,1	1,1	498,2.....499,3	1,1
630	630,0.....631,2	1,2	628,1.....629,3	1,2
800	800,0.....801,6	1,6	798,0.....799,3	1,3
1000	1000,0.....1002,0	2,0	997,9.....999,3	1,4
1250	1250,0.....1252,5	2,5	1247,8.....1249,3	1,5

**NTO Spiral duct**

NTO spiral ducts are manufactured of galvanized steel. Standard lengths are 3 m and 6 m. Spiral ducts meet the requirements for cleanliness class M1 and tightness class D.



Nominal size d	Weight, kg/m		
	H	Al	ZM
100	1,4	0,7	1,3
125	1,7	0,8	1,6
160	2,2	1,1	2,1
200	2,7	1,3	2,6
250	3,3	1,6	3,2
315	4,0	2,0	3,9
400	8,1	2,9	7,9
500	10,2	3,6	10,0
630	12,3	4,3	12,0
800	15,5	5,5	15,2
1000	19,8	-	25
1250	24,6	-	31



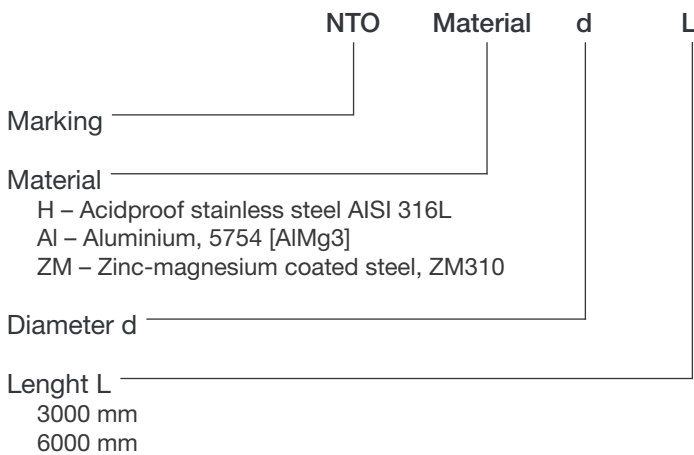
**Duct profiles**

Measurements 100-250 mm

Measurements 315-1250 mm



**Product codes**



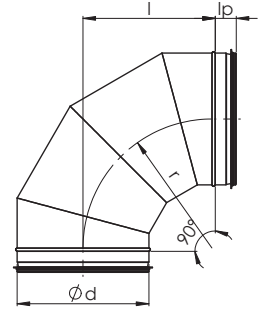
**Example: NTO-H 315-3**

**NV Bend**

Sektoritest valtsitud ventilatsioonipõlv.  $r=1*d$ .  
 Ventilation system bend 100-125 mm are spot welded.

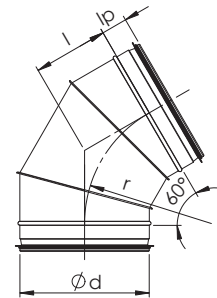
**NV 90°**

Nominal size d	l mm	Weight kg		
		ZM	H	Al
100	100	0,40	0,4	0,21
125	125	0,55	0,6	0,3
160	160	0,8	0,8	0,45
200	200	1,1	1,3	0,6
250	250	1,7	1,7	0,9
315	315	2,6	2,6	1,3
400	400	5,7	5,8	2,1
500	500	8,7	8,8	3,2
630	630	13,4	13,7	4,9
800	800	22,5	22,9	8,3
1000	1000	43,2	48,8	-
1250	1250	65,1	73,5	-



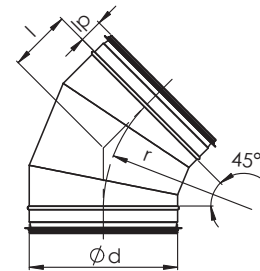
**NV 60°**

Nominal size d	l mm	Weight kg		
		ZM	H	Al
100	57	0,27	0,28	0,15
125	73	0,4	0,4	0,21
160	93	0,6	0,6	0,31
200	117	0,9	0,9	0,46
250	146	1,4	1,4	0,7
315	184	2,0	2,0	1,1
400	234	4,5	4,5	1,7
500	292	6,7	6,8	2,5
630	367	10,1	10,3	3,7
800	466	16,4	16,7	6,1
1000	583	32,0	33,0	-
1250	728	48,0	49,0	-



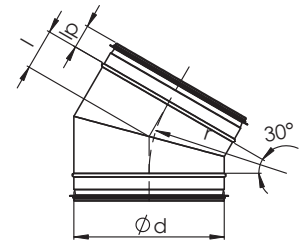
**NV 45°**

Nominal size d	l mm	Weight kg		
		ZM	H	Al
100	40	0,3	0,3	0,15
125	50	0,4	0,4	0,2
160	65	0,6	0,6	0,3
200	80	0,8	0,8	0,4
250	105	1,1	1,1	0,6
315	130	1,6	1,6	0,8
400	165	3,4	3,5	1,3
500	205	5,2	5,3	2,0
630	260	7,9	8,1	3,0
800	330	13,3	13,6	5,1
1000	415	24,8	28,0	-
1250	520	36,6	41,3	-



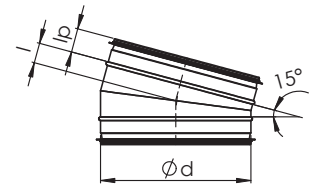
**NV 30°**

Nominal size d	l mm	Wight kg		
		ZM	H	Al
100	27	0,18	0,18	0,1
125	34	0,25	0,25	0,14
160	43	0,37	0,37	0,2
200	54	0,54	0,54	0,3
250	65	0,84	0,85	0,5
315	84	1,22	1,24	0,7
400	108	2,6	2,65	1,0
500	135	3,83	3,9	1,5
630	169	5,8	5,9	2,2
800	215	9,8	9,9	3,8
1000	269	18,6	18,9	-
1250	335	27,0	28,0	-

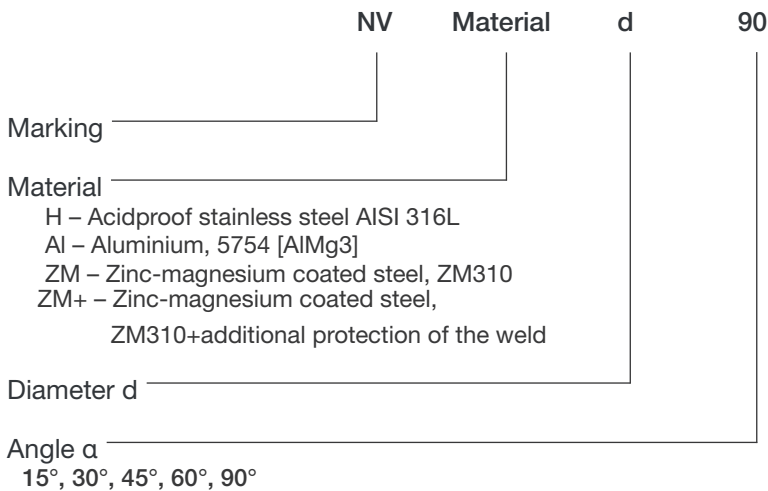


**NV 15°**

Nominal size d	l mm	Weight kg		
		ZM	H	Al
100	13	0,16	0,17	0,09
125	16	0,22	0,23	0,13
160	21	0,32	0,33	0,18
200	26	0,47	0,48	0,26
250	33	0,71	0,72	0,38
315	41	0,98	0,99	0,52
400	53	1,98	2,02	0,8
500	66	3,02	3,07	1,2
630	83	4,5	4,57	1,8
800	106	7,12	7,24	2,9
1000	132	14,08	14,32	-
1250	165	19,86	20,2	-



**Product codes**



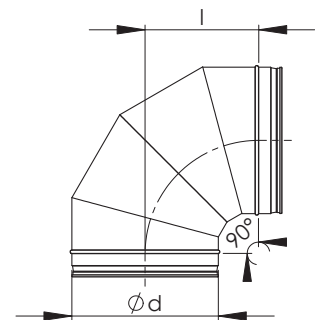
- H – Acidproof stainless steel AISI 316L
- Al – Aluminium, 5754 [AlMg3]
- ZM – Zinc-magnesium coated steel, ZM310
- ZM+ – Zinc-magnesium coated steel, ZM310+additional protection of the weld

**Example: NV-H 315-90**

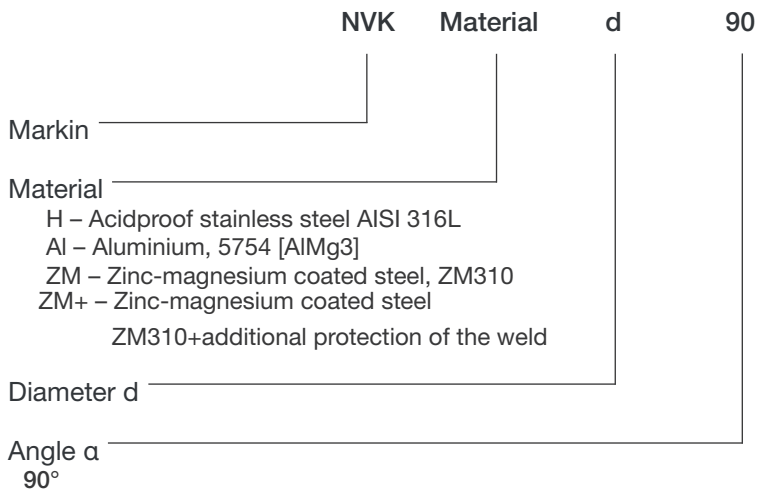
**NVK 90° Bend, short**

Ventilation system bend, consists of rolled sectors.  $R \sim 0,6 * d$ .

Nominal size $d_1$	l mm	Weight kg
		AZ
200	165	1,1
250	205	1,4
315	238	1,9
400	280	3,9
500	330	6,3
630	395	8,4
800	600	16
1000	700	29
1250	825	40



**Product codes**



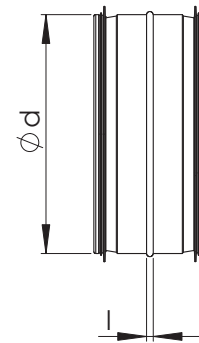
Example: NVK-H 315-90



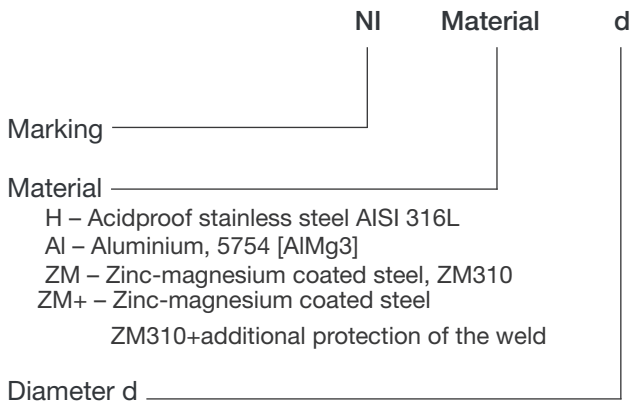
**NI Coupling**

Inner coupling for ducts.

Nominal size d	l mm	Weight kg		
		ZM	H	Al
100	5	0,12	0,12	0,07
125	5	0,15	0,15	0,09
160	5	0,19	0,19	0,11
200	5	0,24	0,25	0,14
250	7	0,38	0,4	0,21
315	7	0,47	0,5	0,3
400	7	0,9	0,95	0,4
500	7	1,4	1,45	0,6
630	7	1,8	1,8	0,75
800	16	4,0	4,1	1,7
1000	16	6,3	7,0	-
1250	16	7,8	8,7	-



**Product codes**

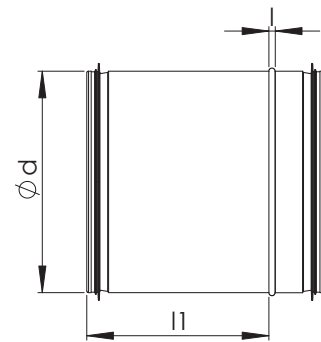


Example: NI-H 315

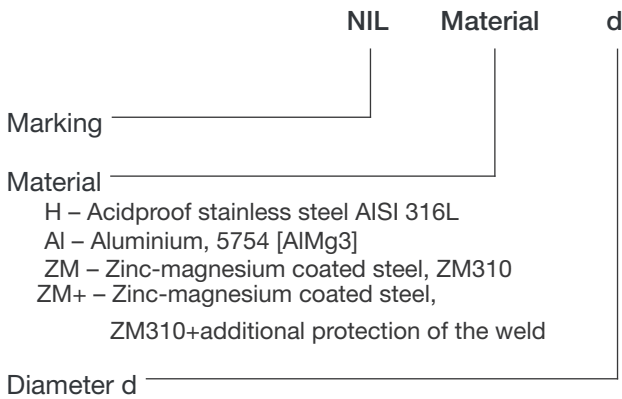
**NIL Long coupling**

Long inner coupling for ducts (adjustable length).

Nominal size d	l <sub>1</sub> , mm	l <sub>2</sub> , mm	Weight kg		
			ZM	H	Al
100	159	5	0,28	0,29	0,15
125	159	5	0,35	0,36	0,19
160	159	5	0,45	0,46	0,24
200	159	5	0,56	0,57	0,3
250	202	7	0,84	0,85	0,45
315	202	7	1,05	1,07	0,56
400	202	7	1,95	2,0	0,75
500	301	7	3,4	3,5	13
630	301	7	4,3	4,4	1,7
800	475	16	9,1	9,2	3,5
1000	480	16	15,0	16,2	-
1250	480	16	8,0	20,3	-



**Product codes**

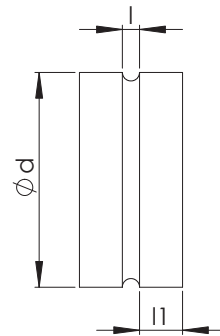


Example: NIL-H 315

**NM Female coupling**

Designed for connection of different ventilation components.

Nominal size d	l <sub>1</sub> , mm	l <sub>2</sub> , mm	Weight kg		
			ZM	H	Al
100	35	10	0,13	0,13	0,08
125	35	10	0,16	0,16	0,09
160	35	10	0,2	0,2	0,11
200	35	10	0,24	0,25	0,14
250	50	10	0,4	0,4	0,22
315	50	10	0,5	0,5	0,28
400	70	10	1,2	1,2	0,5
500	78	14	1,6	1,7	0,7
630	78	14	2,1	2,1	0,9
800	111	13	3,7	3,8	1,6
1000	111	13	5,8	6,5	-
1250	111	13	7,2	8,1	-



**Product codes**

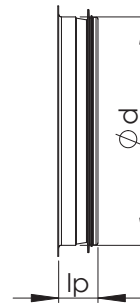
	NM	Material	d
Marking _____	_____	_____	_____
Material _____	_____	_____	_____
H – Acidproof stainless steel AISI 316L Al – Aluminium, 5754 [AlMg3] ZM – Zinc-magnesium coated steel, ZM310 ZM+ – Zinc-magnesium coated steel, ZM310+additional protection of the weld			
Diameter d _____	_____	_____	_____

**Example: NM-H 315**

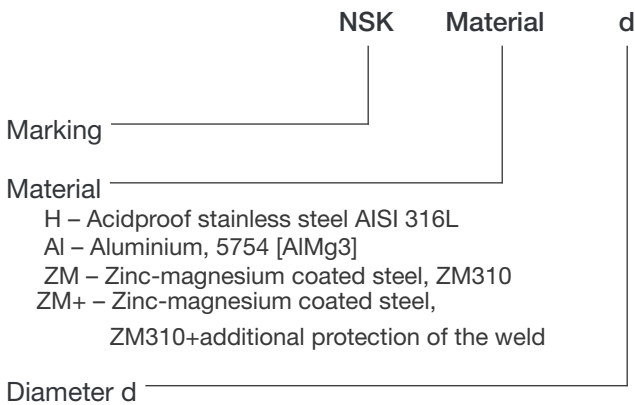
**NSK Take-off, straight**

Straight take-off.

Nominal size d	l <sub>p</sub> , mm	Weight kg		
		ZM	H	Al
100	40	0,09	0,09	0,06
125	40	0,11	0,11	0,07
160	40	0,13	0,13	0,08
200	40	0,17	0,17	0,11
250	43	0,24	0,24	0,15
315	43	0,3	0,3	0,18
400	55	0,61	0,62	0,27
500	55	0,8	0,8	0,4
630	55	1,0	1,0	0,5
800	80	2,1	2,1	1,1
1000	97	3,2	3,5	-
1250	97	3,9	4,4	-



**Product codes**



Example: NSK-H 315

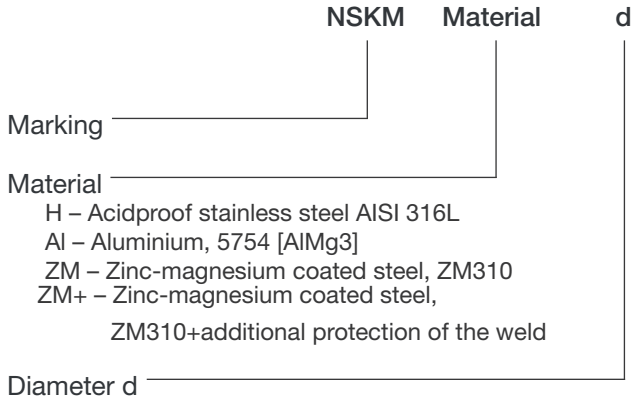
**NSKM Take-off, straight**

Take-off with female end.

Nominal size d	l <sub>p</sub> , mm	Weight kg		
		ZM	H	Al
100	40	0,07	0,07	0,04
125	40	0,08	0,08	0,04
160	40	0,1	0,1	0,05
200	40	0,13	0,13	0,07
250	61	0,22	0,22	0,11
315	61	0,28	0,28	0,14
400	76	0,49	0,5	0,18
500	74	0,73	0,74	0,26
630	74	0,92	0,93	0,33
800	114	1,8	1,8	0,62
1000	114	2,8	3,2	-
1250	114	3,5	3,9	-



**Product codes**

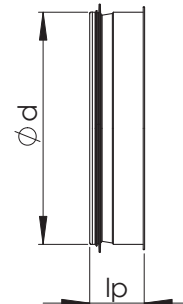
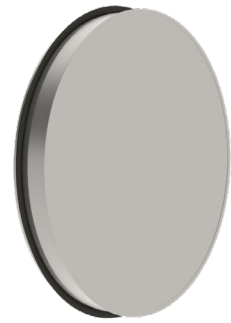


**Example: NSKM-H 315**

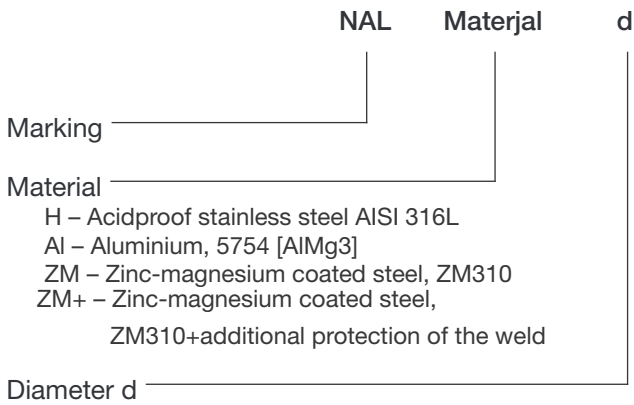
**NAL End cap**

End cap for duct.

Nominal size d	l <sub>p</sub> , mm	Weight kg		
		ZM	H	Al
100	30	0,09	0,09	0,06
125	30	0,11	0,11	0,07
160	30	0,13	0,13	0,08
200	30	0,17	0,17	0,11
250	40	0,24	0,24	0,15
315	40	0,3	0,3	0,18
400	55	0,61	0,62	0,27
500	55	0,8	0,8	0,4
630	55	1,0	1,0	0,5
800	82	2,1	2,1	1,1
1000	96	3,2	3,5	-
1250	96	3,9	4,4	-



**Product codes**

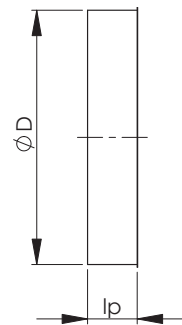


Example: NAL-H 315

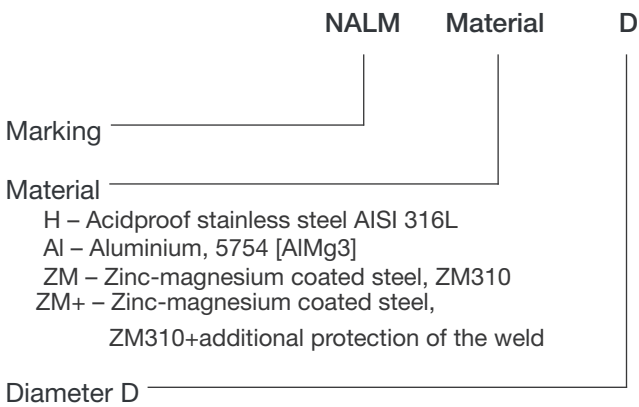
**NALM End cap**

End cap with female end.

Nominal size d	l <sub>p</sub> , mm	Weight kg		
		ZM	H	Al
100	42	0,09	0,09	0,06
125	42	0,11	0,11	0,07
160	42	0,13	0,13	0,08
200	42	0,17	0,17	0,11
250	42	0,24	0,24	0,15
315	42	0,3	0,3	0,18
400	60	0,61	0,62	0,27
500	75	0,8	0,8	0,4
630	75	1,0	1,0	0,5
800	101	2,1	2,1	1,1
1000	115	3,2	3,5	-
1250	115	3,9	4,4	-



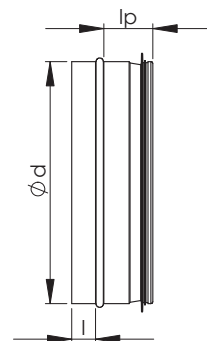
**Product codes**



Example: NALM-H 315

**MSG End coupling**

Nominal size d	l, mm	lp, mm	Weight kg		
			ZM	H	Al
100	50	30	0,10	0,11	0,08
125	50	30	0,13	0,14	0,10
160	50	30	0,17	0,18	0,13
200	50	30	0,25	0,26	0,18
250	50	50	0,4	0,41	0,29
315	50	50	0,5	0,51	0,36
400	70	50	0,8	0,82	0,41
500	70	61	1,1	1,12	0,56
630	70	61	1,4	1,43	0,72
800	70	96	2,4	2,45	1,23
1000	70	110	3,7	4,19	-
1250	70	110	4,6	5,21	-



**Product codes**



**Example: MSG-H 315**



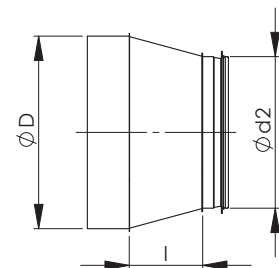
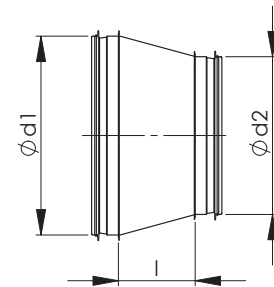
**NFCV/NFCVM Reducer, concentric**

Concentric reducer is designed for connection of different ventilation components.

NFCV - Concentric reducer (fitting/fitting)

NFCVM - Concentric reducer (duct/fitting)

Nominal size d <sub>1</sub> /D-d <sub>2</sub>	l, mm	Weight, kg		
		ZM	H	Al
125-100	65	0,4	0,4	0,22
160-100	110	0,6	0,6	0,29
160-125	80	0,5	0,5	0,25
200-100	116	0,7	0,7	0,4
200-125	105	0,8	0,8	0,5
200-160	90	0,8	0,8	0,4
250-100	230	0,9	0,9	0,5
250-125	200	0,9	0,9	0,5
250-160	150	0,8	0,8	0,5
250-200	100	0,7	0,8	0,5
315-125	305	1,3	1,3	0,7
315-160	245	1,2	1,2	0,7
315-200	190	1,2	1,2	0,7
315-250	120	1	1	0,6
400-160	365	2,6	2,7	1,1
400-200	310	2,5	2,6	1
400-250	240	2,3	2,3	1
400-315	155	2	2	0,9
500-200	450	3,9	3,9	1,5
500-250	380	3,7	3,7	1,5
500-315	290	3,3	3,3	1,4
500-400	180	2,9	2,9	1,2
630-250	400	4,6	4,7	1,9
630-315	400	4,8	4,9	1,9
630-400	360	5	5,1	2
630-500	250	4,3	4,4	1,8
800-400	500	8,3	8,4	3,3
800-500	460	8,3	8,4	3,4
800-630	280	6,7	6,8	2,8
1000-400	500	12,9	14,4	-
1000-500	500	13,3	14,9	-
1000-630	500	13,8	15,4	-
1000-800	325	12,1	13,3	-
1250-500	800	21,9	24,6	-
1250-630	800	22,8	25,6	-
1250-800	660	21,9	24,4	-
1250-1000	400	17,9	19,7	-



**Product codes**

	NFCV	Material	d1/D	d2
Marking _____				
NFCV - reducer (fitting/fitting) NFCVM - reducer (duct/fitting)				
Material _____				
H – Acidproof stainless steel AISI 316L Al – Aluminium, 5754 [AlMg3] ZM – Zinc-magnesium coated steel, ZM310 ZM+ – Zinc-magnesium coated steel, ZM310+additional protection of the weld				
Diameter d1 or D _____				
Diameter d2 _____				
<b>Example:</b>				
	<b>NFCV-H 500-400</b>			
	<b>NFCVM-H 500-400</b>			

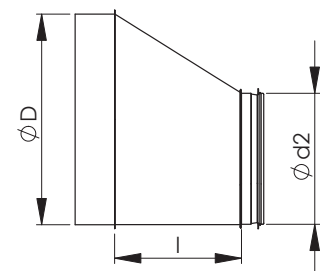
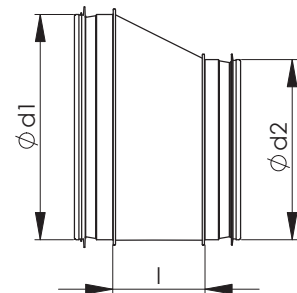
**NFB/NFBM Reducer, eccentric**

Eccentric reducer is designed for connection of different ventilation components.

NFB - Eccentric reducer (fitting/fitting)

NFBM- Eccentric reducer (duct/fitting)

Nominal size $d_1/D-d_2$	l, mm	Weight, kg		
		ZM	H	Al
125-100	65	0,33	0,33	0,19
160-100	110	0,47	0,47	0,27
160-125	80	0,45	0,46	0,26
200-100	170	0,67	0,68	0,38
200-125	140	0,66	0,67	0,37
200-160	90	0,57	0,57	0,33
250-100	230	0,95	0,96	0,52
250-125	200	0,94	0,95	0,51
250-160	150	0,84	0,85	0,47
250-200	100	0,77	0,78	0,44
315-125	290	1,32	1,34	0,71
315-160	245	1,31	1,32	0,7
315-200	190	1,2	1,21	0,66
315-250	120	1,08	1,09	0,6
400-160	365	2,76	2,81	1,07
400-200	310	2,65	2,69	1,05
400-250	240	2,45	2,49	0,99
400-315	155	2,09	2,12	0,87
500-200	450	4,04	4,11	1,58
500-250	380	3,9	3,91	1,53
500-315	290	3,5	3,54	1,4
500-400	180	3,2	3,2	1,25
630-250	400	4,9	5	1,93
630-315	400	5,2	5,3	2,03
630-400	360	5,3	5,4	2,05
630-500	250	4,7	4,8	1,85
800-400	500	8,7	8,9	3,43
800-500	460	8,8	8,9	3,47
800-630	280	7,1	7,2	2,92
1000-400	500	14,5	16,3	-
1000-500	500	14,2	15,8	-
1000-630	500	14,6	16,3	-
1000-800	325	12,8	14,1	-
1250-500	800	22,9	25,8	-
1250-630	800	23,9	26,9	-
1250-800	660	23	25,6	-
1250-1000	400	18,9	20,8	-



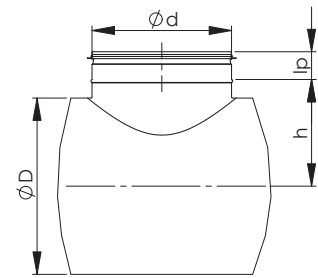
Product codes

	NFB	Material	d1/D	d2
Marking	NFB - reducer (fitting/fitting) NFBM - reducer (duct/fitting)	Material	d1/D	d2
Material				
H – Acidproof stainless steel AISI 316L Al – Aluminium, 5754 [AlMg3] ZM – Zinc-magnesium coated steel, ZM310 ZM+ – Zinc-magnesium coated steel, ZM310+additional protection of the weld				
Diameter d1 or D				
Diameter d2				

Example:      NFB-H 500-400  
                   NFBM-H 500-400

**NPSK Take-off, narrow edge**

Nominal size D-d	h, mm	Weight, kg		
		ZM	H	Al
100-100	75	0,14	0,15	0,10
125-100	88	0,14	0,15	0,10
125-125	88	0,21	0,22	0,15
160-100	105	0,14	0,15	0,10
160-125	105	0,21	0,22	0,15
160-160	105	0,32	0,33	0,23
200-100	125	0,14	0,15	0,10
200-125	125	0,21	0,22	0,15
200-160	125	0,32	0,33	0,23
200-200	125	0,41	0,42	0,30
250-125	150	0,21	0,22	0,15
250-160	150	0,32	0,33	0,23
250-200	150	0,41	0,42	0,30
250-250	152	0,50	0,51	0,36
315-160	183	0,32	0,33	0,23
315-200	183	0,41	0,42	0,30
315-250	185	0,50	0,51	0,36
315-315	185	0,68	0,70	0,49
400-200	225	0,41	0,42	0,30
400-250	227	0,50	0,51	0,36
400-315	227	0,68	0,70	0,49
500-100	275	0,14	0,15	0,10
500-125	275	0,21	0,22	0,15
500-160	275	0,32	0,33	0,23
500-200	275	0,40	0,41	0,29
500-250	277	0,52	0,53	0,38
500-315	277	0,83	0,85	0,60
630-100	340	0,14	0,15	0,10
630-125	340	0,21	0,22	0,15
630-160	340	0,35	0,36	0,25
630-200	340	0,40	0,41	0,29
630-250	342	0,52	0,53	0,38
630-315	342	0,83	0,85	0,60
800-250	427	0,60	0,62	0,43
800-315	427	0,80	0,82	0,57



**Product codes**

**NPSK - Material      D      -      d**

Marking \_\_\_\_\_

Material \_\_\_\_\_

H – Acidproof stainless steel AISI 316L  
 Al – Aluminium, 5754 [AlMg3]  
 ZM – Zinc-magnesium coated steel, ZM310  
 ZM+ – Zinc-magnesium coated steel,  
       ZM310+additional protection of the weld

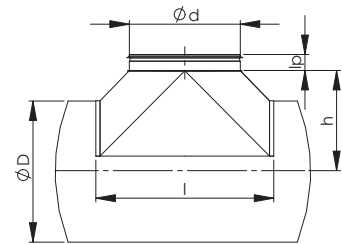
Diameter D \_\_\_\_\_

Diameter d \_\_\_\_\_

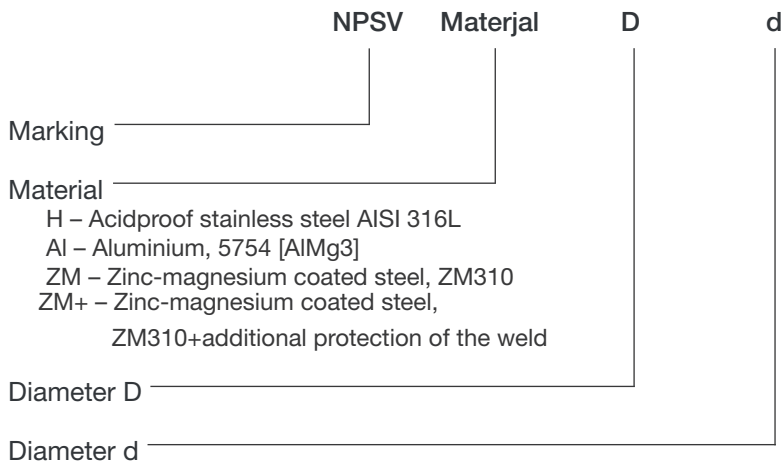
**Example: NPSK-H 500-400**

**NPSV Take-off (seamed)**

Nominal size D-d	l, mm	lp, mm	h, mm	Weight, kg		
				ZM	H	Al
400-400	625	47	300	2,9	3,0	2,1
500-400	635	47	355	3,2	3,3	2,3
500-500	720	62	350	3,9	4,0	2,8
630-400	634	47	410	3,2	3,3	2,3
630-500	733	62	370	4,7	4,8	3,4
630-630	866	62	420	5,7	5,9	4,1
800-400	636	47	505	3,5	3,6	2,5
800-500	720	62	510	4,6	4,7	3,3
800-630	850	62	520	6,2	6,4	4,5
800-800	1059	96	520	8,6	8,8	6,2
1000-500	713	62	600	4,9	5,0	3,5
1000-630	845	62	600	7,2	7,4	5,2
1000-800	1042	96	610	10,1	10,3	7,2
1000-1000	1252	110	670	15,3	17,4	-
1250-630	849	62	900	11,0	11,2	7,9
1250-800	1082	96	760	9,0	9,2	6,5
1250-1000	1251	110	765	15,0	17,0	-
1250-1250	1560	110	775	22,0	24,9	-



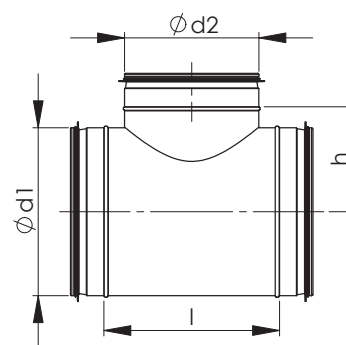
**Product codes**



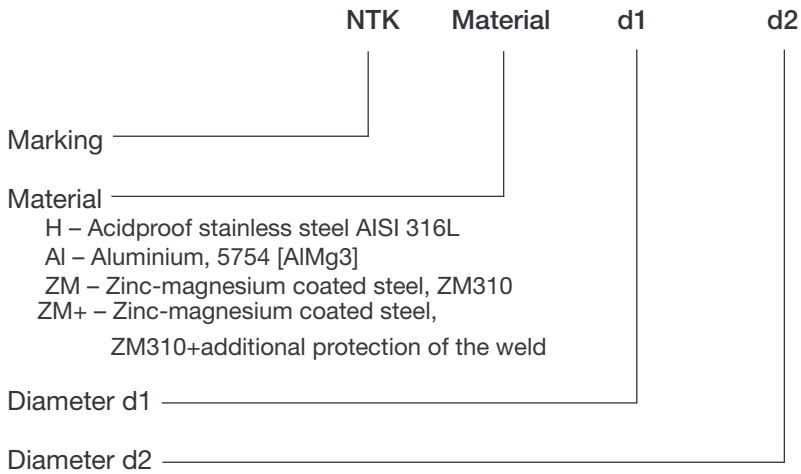
Example: NPSV-H 500-400

**NTK T-piece**

Nominal size d <sub>1</sub> -d <sub>2</sub>	l, mm	h, mm	Weight, kg		
			ZM	H	Al
100-100	168	75	0,50	0,51	0,36
125-100	168	88	0,50	0,51	0,36
125-125	185	88	0,70	0,72	0,50
160-100	168	105	0,60	0,62	0,43
160-125	210	105	0,80	0,82	0,57
160-160	225	105	1,00	1,02	0,72
200-100	175	125	0,70	0,72	0,50
200-125	210	125	0,90	0,92	0,65
200-160	308	125	1,10	1,12	0,79
200-200	276	125	1,30	1,33	0,93
250-100	175	150	1,00	1,02	0,72
250-125	198	150	1,20	1,23	0,86
250-160	298	150	1,30	1,33	0,93
250-200	306	150	1,70	1,74	1,22
250-250	296	152	2,10	2,14	1,50
315-100	175	183	1,20	1,23	0,86
315-125	220	183	1,40	1,43	1,00
315-160	256	183	1,70	1,74	1,22
315-200	306	183	2,10	2,14	1,50
315-250	398	185	2,80	2,85	2,00
315-315	363	185	3,00	3,06	2,14
400-100	175	225	2,10	2,14	1,50
400-125	225	225	2,30	2,35	1,64
400-160	266	225	2,70	2,75	1,93
400-200	300	225	3,30	3,36	2,36
400-250	350	227	3,70	3,77	2,64
400-315	450	227	4,40	4,48	3,14
500-100	175	275	2,80	2,85	2,00
500-125	225	275	3,10	3,16	2,21
500-160	266	275	3,50	3,57	2,50
500-200	300	275	4,30	4,38	3,07
500-250	350	277	4,80	4,89	3,42
500-315	450	277	5,80	5,91	4,14
630-100	207	340	3,70	3,77	2,64
630-125	225	340	4,00	4,08	2,85
630-160	266	340	4,40	4,48	3,14
630-200	360	340	5,30	5,40	3,78
630-250	400	342	6,00	6,11	4,28
630-315	450	342	7,00	7,13	4,99
800-250	405	427	8,30	8,45	5,92
800-315	450	427	9,60	9,78	6,84



**Product codes**

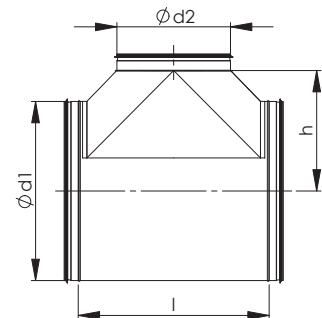


**Example: NTK-H 500-400**



**NTKV T-piece**

Nominal size D-d	l, mm	lp, mm	h, mm	Weight, kg		
				ZM	H	Al
400-400	625	47	300	6,5	6,6	4,0
500-400	635	47	355	7,9	8,0	4,7
500-500	720	62	350	9,1	9,3	5,5
630-400	634	47	410	9,1	9,3	5,3
630-500	733	62	370	11,3	11,5	6,8
630-630	866	62	420	13,3	13,6	8,0
800-400	636	47	505	15,6	16,0	8,7
800-500	720	62	510	18,3	18,6	10,3
800-630	850	62	520	21,9	22,4	12,5
800-800	1059	96	520	26,5	27,1	15,4
1000-500	713	62	600	26,4	26,9	14,5
1000-630	845	62	600	31,6	32,3	17,7
1000-800	1042	96	610	38,6	39,3	21,7
1000-1000	1252	110	670	51,5	58,3	-
1250-630	849	62	900	47,0	47,9	26,3
1250-800	1082	96	760	46,7	47,6	25,7
1250-1000	1251	110	765	58,5	66,3	-
1250-1250	1560	110	775	73,0	82,7	-



**Product codes**

	NTKV	Material	d1	d2
Marking	_____	_____	_____	_____
Material	_____	_____	_____	_____
H – Acidproof stainless steel AISI 316L Al – Aluminium, 5754 [AlMg3] ZM – Zinc-magnesium coated steel, ZM310 ZM+ – Zinc-magnesium coated steel, ZM310+additional protection of the weld				
Diameter d1	_____	_____	_____	_____
Diameter d2	_____	_____	_____	_____

**Example: NTKV-H 500-400**

**KROS Regulating damper**

Damper for regulating air flow in round duct systems.

- Easy to install
- Equipped with rubber gaskets
- Tightness class EN 1751, class C

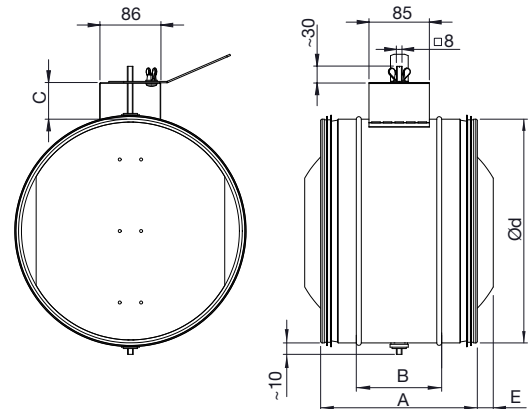


**Structure and dimensions**

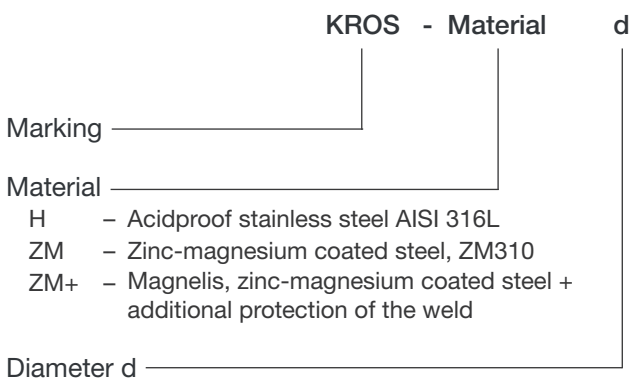
KROS-regulating damper is manufactured of galvanized steel. Equipped with rubber gaskets.

Polyamide bushings (max +150°C). Manually adjustable.

Nominal size (mm)	A (mm)	B (mm)	C (mm)	E (mm)	Weight (kg)	
					ZM	H
100	155	95	33	-	0,5	0,6
125	155	95	39	-	0,6	0,7
160	155	95	44	-	0,8	0,8
200	155	95	46	-	1	1
250	220	120	49	-	1,4	1,4
315	220	120	50	25	1,9	1,9
400	220	120	52	48	3,6	3,7
500	255	130	53	73	5,7	5,8
630	255	130	53	138	7,6	7,7



**Product codes**



Example: KROS 315-H

**Installation**

The damper is connected to the duct and fastened with rivets (Installation according to NORDduct installation instructions).

**KRTS-4 Shut-off and regulating damper**

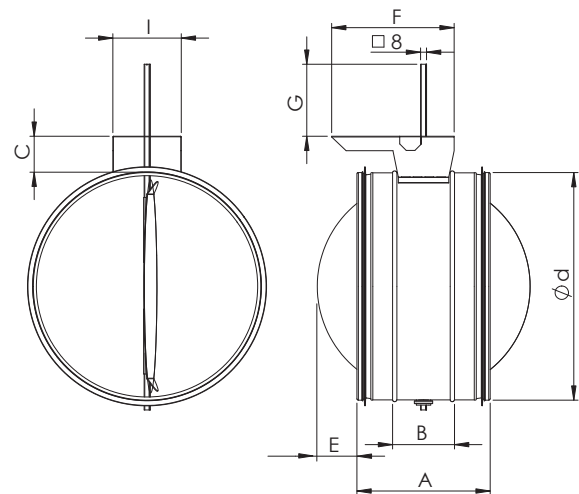
Dampers for shut-off and regulating of air flow in round duct systems. KRTS-4 sealed version. Casing tightness class C and shut-off tightness class 4 (standard EVS-EN 1751:2014)



**Structure and dimensions**

KRTS-4 shut-off and regulating damper is manufactured of galvanized steel. Equipped with rubber gaskets.

For automatic regulation of air flow, various motors can be used. For manual regulation, a handle can be installed. See: Accessories



Nominal size, d (mm)	A (mm)	B (mm)	C (mm)	E (mm)	F (mm)	I (mm)	G (mm)	Weight (kg)	Recommended actuator	
									Without spring	Spring return
100	155	95	31	-	180	95	100	0,6	CM24-R/CM230-R	TF24/TF230
125	155	95	38	-	180	95	100	0,7	CM24-R/CM230-R	TF24/TF230
160	155	95	43	-	180	95	100	0,9	CM24-R/CM230-R	TF24/TF230
200	155	95	46	15	180	95	116	1,1	CM24-R/CM230-R	TF24/TF230
250	215	120	23	10	225	130	113	1,6	LM24A/LM230A	LF24/LF230
315	215	120	31	43	225	130	110	2,1	LM24A/LM230A	LF24/LF230
400	215	120	36	85	225	130	109	3,2	LM24A/LM230A	LF24/LF230
500	255	130	40	115	225	130	108	4,7	NM24A/NM230A	NF24A/NF230A/NFA
630	255	130	43	180	225	130	107	6,3	NM24A/NM230A	NF24A/NF230A/NFA

NB! Damper weights do not include the weight of actuators.

Belimo actuators: consider surface area of the blade, structure, installation and air flow.

NB! Belimo actuators manuals: [www.belimo.com](http://www.belimo.com).

	Without spring			Spring return		
	CM	LM...A	NM...A	TF	LF	NF
Torque	2 Nm	5 Nm	10 Nm	2,5 Nm	4 Nm	10 Nm
Weight	0,22 kg	0,65 kg	0,75 kg	0,69 kg	1,5 kg	3,0 kg

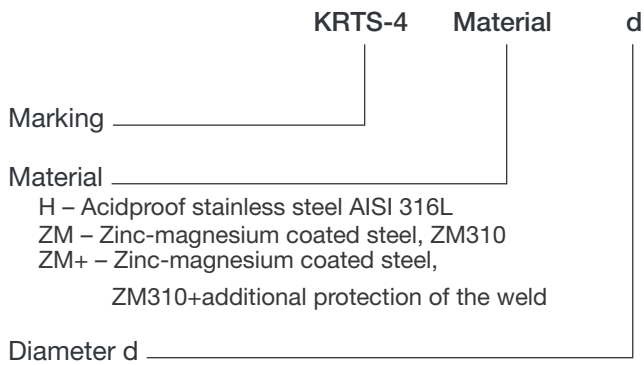
**Accessories**

Handle - can be ordered with all dampers.

**Installation**

The damper is connected to the duct and fastened with rivets (Installation according to NORDduct installation instructions). For electric installations, see: [www.belimo.com](http://www.belimo.com).

**Product codes**



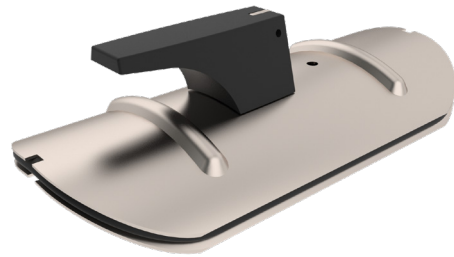
**Example: KRTS-4-H 315**

**TL3-H Maintenance door**

Maintenance door with quick release for round duct. They can be quickly opened and closed only by turning the plastic handle, which makes them easy to use.

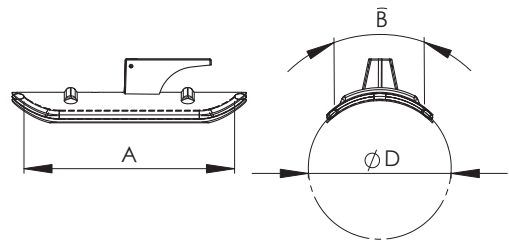
The door is manufactured of acidproof sheet metal.

Maintenance door corresponds to tightness class C (standard EVS-EN 12237:2003).

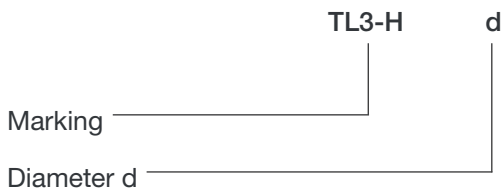


**Measurements**

Nominal size D (mm)	Opening size A x B (mm)	Material thickness (mm)	
100-160	185x85	0,7	One handle
200-315	300x100	0,7	Two handles
400-500	400x200	1,0	Two handles
630-1250	500x400	1,2	Two handles



**Product codes**



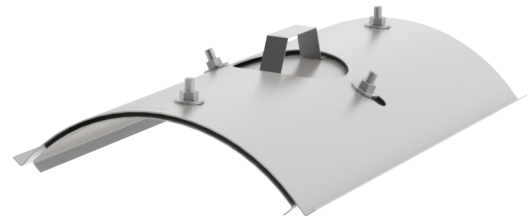
Example: TL3-H 315

**TLP Access door**

TLP access door is a quickly and easily mountable door for round ventilation conduits Ø100-1250mm.

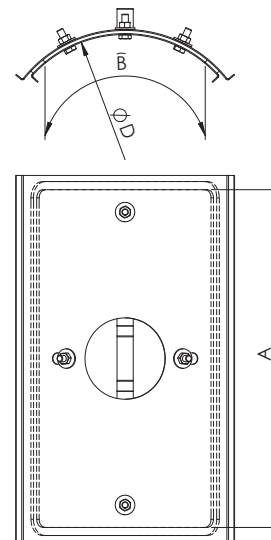
Access door is manufactured of sheet metal, equipped with rubber gaskets.

Access door corresponds to tightness class C (standard EVS-EN 12237:2003).

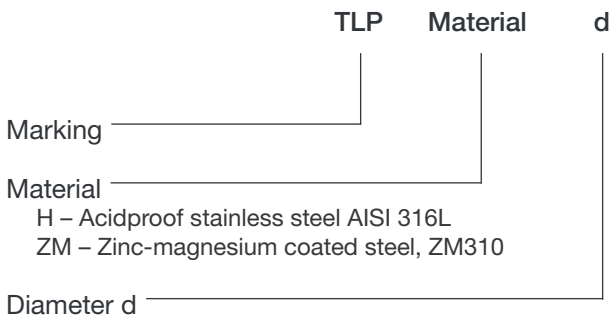


**Measurements**

Nominal size D mm	Opening size	
	A	B
100	200	100
125	200	100
160	200	100
200	400	100
250	400	200
315	400	200
400	400	200
500	400	200
630	500	400
800	500	400
1000	500	400
1250	500	400



**Product codes**



**Example: TLP-H 315**

**NRF 50/NRP 50 Silencer**



Round silencer with 50 mm sound absorption. NRF-silencer's sound absorption material is mineral wool and NRP-silencer's a synthetic sound insulation.

Silencer's perforated inner tube and outer shell are manufactured of steel sheet. Between the inner tube and the insulation, there is fabric to prevent wool particles from the duct system.

Fulfils tightness class D according to standard EN 15727:2010.

**Sound attenuation and dimensions**

**NRF 50 (absorption material is mineral wool)**

Nominal size Ød (mm)	L (mm)	Ød <sub>1</sub> (mm)	Sound attenuation (dB)								Weight (kg)
			Mean frequency of octave band (Hz)								
			63	125	250	500	1000	2000	4000	8000	
100	300	200	3	4	8	15	26	26	20	11	2,3
100	600	200	4	7	13	25	41	47	33	17	4,1
100	900	200	5	8	18	34	49	49	41	23	5,2
100	1200	200	6	9	21	41	53	52	48	28	6,5
125	300	225	2	4	7	13	19	24	17	11	2,7
125	600	225	3	6	13	24	35	43	25	16	5,2
125	900	225	3	6	15	31	45	47	35	19	6,2
125	1200	225	4	6	20	42	54	49	41	23	7,5
160	300	260	1	3	5	12	16	19	11	9	3,0
160	600	260	2	4	10	20	28	31	18	13	6,1
160	900	260	2	6	14	27	37	35	24	17	8,6
160	1200	260	2	7	17	34	48	44	30	19	9,2
200	300	300	1	2	5	10	13	16	9	8	4,1
200	600	300	2	4	9	17	23	27	15	11	6,9
200	900	300	2	5	13	23	35	37	24	15	10,9
200	1200	300	3	6	16	30	45	44	24	16	12,0
250	600	350	2	3	8	15	22	21	12	10	8,6
250	900	350	2	4	12	22	31	28	15	13	11,7
250	1200	350	3	5	14	28	38	36	18	16	16,0
315	600	415	1	2	7	12	18	13	9	9	13,4
315	900	415	1	3	8	16	24	18	12	11	16,3
315	1200	415	1	4	10	20	32	22	14	13	21,1

**NRP 50 (absorption material synthetic sound insulation)**

Nominal size Ød (mm)	L (mm)	Ød <sub>1</sub> (mm)	Sound attenuation (dB)								Weight (kg)
			Mean frequency of octave band (Hz)								
			63	125	250	500	1000	2000	4000	8000	
100	300	200	1	3	7	10	17	21	11	11	1,9
100	600	200	2	7	11	16	26	34	21	16	3,2
100	900	200	4	10	16	23	34	43	30	22	4,5
100	1200	200	6	12	20	29	42	45	35	28	5,9
125	300	225	1	2	5	8	16	17	10	8	2,2
125	600	225	1	5	9	14	23	27	17	13	3,6
125	900	225	3	7	13	19	32	40	25	19	5,1
125	1200	225	5	10	16	23	38	42	30	22	6,5
160	300	260	0	3	4	6	14	9	7	6	2,8
160	600	260	1	5	7	11	21	17	12	12	4,6
160	900	260	3	7	10	14	27	22	16	14	6,4
160	1200	260	4	8	13	19	33	28	19	17	8,4
200	300	300	0	3	5	8	16	17	10	10	3,3
200	600	300	1	4	6	10	20	20	12	12	5,3
200	900	300	2	5	9	12	24	23	15	13	7,3
200	1200	300	3	6	11	16	29	28	18	15	9,4
250	600	350	1	3	5	8	17	14	10	8	6,4
250	900	350	1	4	7	11	22	20	14	12	8,8
250	1200	350	2	6	12	19	32	47	36	28	12,0
315	600	415	0	2	4	7	16	9	9	8	7,8
315	900	415	1	3	5	9	20	13	11	12	11,0
315	1200	415	2	4	7	12	25	16	14	15	13,0
400	600	500	0	1	3	6	15	5	7	7	9,7
400	900	500	0	2	4	8	18	8	9	10	13,5
400	1200	500	0	2	5	10	23	9	12	12	15,9
500	600	600	0	0	1	4	9	3	4	4	12,1
500	900	600	0	1	2	6	12	5	5	5	16,9
500	1200	600	0	1	2	8	14	6	7	7	19,9

**Product codes**

**NRF 50 - H d - L**

Marking

- NRF 50 - absorption material mineral wool
- NRP 50 - absorption material synthetic sound insulation

Material

- H - acidproof stainless steel AISI 316L
- ZM - zinc-magnesium coated steel, ZM310

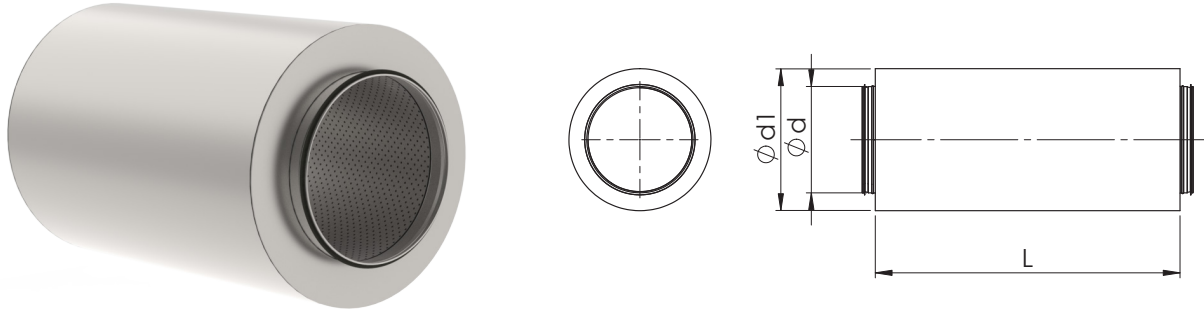
Diameter d

Length L

**Example: NRF-H 50 315-900**



**NRF 100/NRP 100 Silencer**



NRF/NRP – straight silencer filled with 100 mm mineral wool or polyester material. Silencer’s perforated inner tube and outer shell are manufactured of steel sheet. Between the inner tube and the insulation, there is fabric to prevent wool particles from the duct system. Fulfills tightness class D according to standard EN 15727:2010.

**Sound attenuation and dimensions**

**NRF 100 (absorption material is mineral wool)**

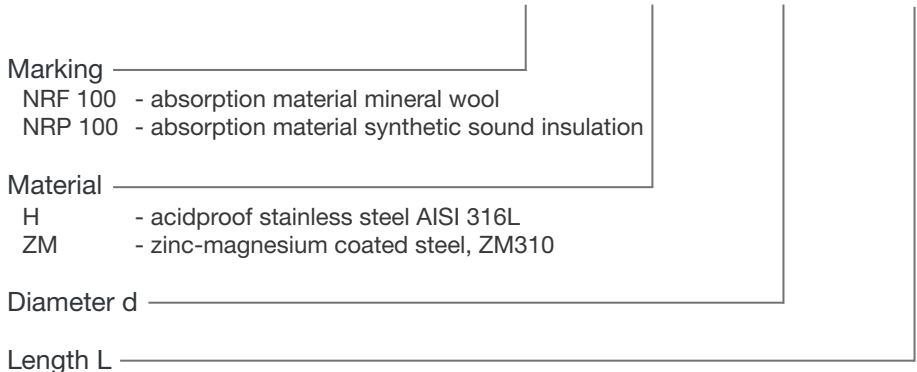
Nominal size Ød (mm)	L (mm)	Ød <sub>1</sub> (mm)	Sound attenuation (dB)								Weight (kg)
			Mean frequency of octave band (Hz)								
			63	125	250	500	1000	2000	4000	8000	
100	300	305	3	5	12	17	23	28	21	11	5,6
100	600	305	6	10	18	28	39	44	32	17	9,0
100	900	305	7	12	25	37	51	50	42	23	13,0
100	1200	305	8	13	30	40	55	52	46	29	16,1
125	300	325	4	5	9	14	18	24	18	11	6,1
125	600	325	4	9	17	25	34	38	25	17	9,3
125	900	325	6	10	23	34	46	47	36	20	13,0
125	1200	325	8	12	28	38	52	51	42	24	17,0
160	300	360	4	3	7	11	15	20	13	9	7,1
160	600	360	4	7	14	21	29	34	18	13	11,4
160	900	360	5	9	20	31	41	45	25	16	15,7
160	1200	360	7	10	28	34	48	49	29	19	20,0
200	300	400	4	3	6	9	13	16	10	8	9,3
200	600	400	5	5	10	15	22	26	18	13	14,0
200	900	400	5	8	19	24	35	33	19	15	19,0
200	1200	400	7	9	24	33	44	42	23	16	22,0
250	300	450	2	3	4	7	13	16	10	7	13,0
250	600	450	4	4	11	15	21	21	12	11	15,0
250	900	450	3	5	16	22	31	24	14	12	22,0
250	1200	450	5	7	21	28	40	34	17	15	28,0
315	300	315	2	3	3	6	12	14	8	6	14,0
315	600	510	1	4	8	11	17	14	9	9	18,0
315	900	510	2	5	12	16	25	19	12	11	25,0
315	1200	510	3	6	17	23	34	25	15	14	32,0
400	300	600	2	2	3	5	9	12	7	5	20,0
400	600	600	1	4	6	7	10	9	7	6	25,0
400	900	600	2	5	12	15	20	15	12	9	32,0
400	1200	600	4	6	15	20	27	21	13	13	42,0
500	600	710	1	2	5	7	11	10	7	5	38,0
500	900	710	2	5	9	12	14	11	9	9	41,0
500	1200	710	3	5	11	17	19	14	12	11	51,0
630	900	840	2	4	7	12	14	11	9	7	50,0
630	1200	840	3	5	11	16	14	13	9	7	64,0
800	900	1000	2	4	8	12	11	9	8	6	76,0
800	1200	1000	2	4	9	13	12	10	9	7	81,0
1000	900	1200	0	1	7	7	4	3	3	3	84,0
1000	1200	1200	1	3	9	9	6	4	4	4	106,0
1250	1200	1450	1	3	9	6	5	4	3	2	129,0

**NRP 100 (absorption material synthetic sound insulation)**

Nominal size Ød (mm)	L (mm)	Ød <sub>1</sub> (mm)	Sound attenuation (dB)								Weight (kg)
			Mean frequency of octave band (Hz)								
			63	125	250	500	1000	2000	4000	8000	
100	300	305	3	6	13	14	27	23	19	11	5,3
100	600	305	7	11	17	17	32	34	31	19	8,6
100	900	305	9	15	24	32	50	48	42	28	12,5
100	1200	305	11	15	27	31	55	51	46	33	14,8
125	300	325	4	6	8	12	21	20	17	12	5,7
125	600	325	5	11	16	14	32	28	23	18	8,7
125	900	325	8	12	22	21	43	40	35	22	12,0
125	1200	325	11	15	29	26	52	48	45	30	16,0
160	300	360	4	4	8	9	18	17	12	10	6,6
160	600	360	5	9	13	11	31	28	18	15	11,0
160	900	360	6	11	21	18	38	35	26	18	15,4
160	1200	360	8	12	29	21	49	39	31	22	19,0
200	300	400	6	4	7	8	21	18	11	12	9,0
200	600	400	5	6	10	7	24	22	19	14	13,2
200	900	400	6	9	18	10	31	26	19	16	18,0
200	1200	400	8	11	23	20	40	34	24	18	21,0
250	300	450	2	3	4	7	13	16	10	7	13,0
250	600	450	5	6	9	6	22	18	13	11	14,0
250	900	450	3	6	14	9	27	19	14	13	21,0
250	1200	450	6	8	19	14	33	27	18	17	27,0
315	300	315	2	3	3	6	12	14	8	6	14,0
315	600	510	1	5	6	5	16	13	9	9	18,0
315	900	510	2	6	9	9	23	18	12	13	24,0
315	1200	510	4	8	14	12	27	23	17	17	32,0
400	300	600	2	2	3	5	9	12	7	5	19,0
400	600	600	2	5	3	3	8	9	7	6	23,0
400	900	600	2	5	9	9	17	15	12	10	31,0
400	1200	600	4	8	12	10	21	20	14	14	39,0
500	600	710	1	2	3	5	10	9	6	5	37,0
500	900	710	2	6	6	9	12	9	8	10	40,0
500	1200	710	2	5	8	12	16	13	12	11	49,0
630	900	840	2	5	4	11	13	10	11	7	47,0
630	1200	840	3	5	8	14	13	12	12	7	60,0
800	900	1000	2	4	8	12	11	9	8	7	71,0
800	1200	1000	2	4	8	12	12	9	9	8	76,0
1000	900	1200	0	2	5	7	4	3	3	4	63,0
1000	1200	1200	1	3	8	10	6	5	5	7	79,0
1250	1200	1450	1	3	8	7	5	4	3	3	96,0

**Product codes**

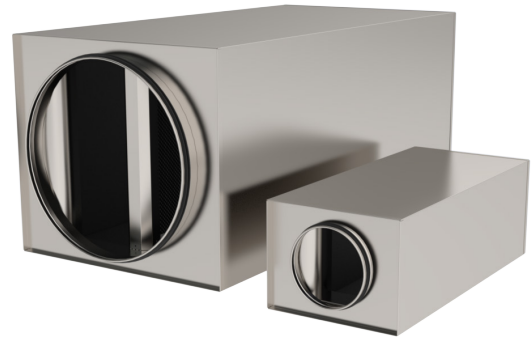
**NRF 100 - H d - L**



**Example: NRF-H 100 315-900**

**NTF/NTP Silencer**

NTF/NTP - rectangular silencer with round duct connections and without perforated sheet inside. Suitable for general ventilation system silencer, especially in situations where the silencer dimensions should be smaller and the absorption values should be good.

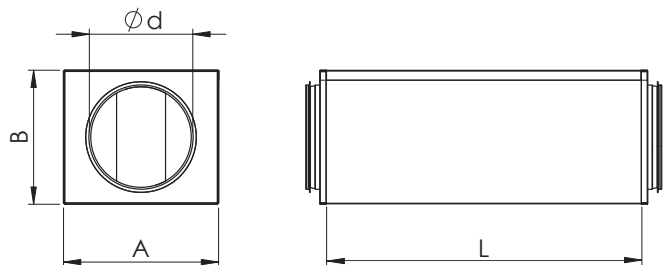


**Advantages:**

- Silencer's dimensions are minimized while maintaining excellent noise reduction characteristics.
- Low pressure drop due to streamlined geometry.
- Insulation material is resistant to cleaning (nylon brush).
- Insulation material coating does not absorb moisture.
- Fulfills tightness class D according to standard EN 15727:2010.

**Design and dimensions**

NTF/NTP silencer's outer shell is made of sheet steel. Connections are with rubber gaskets. Silencers with Ø 400-600 includes also separate absorption element. Sound absorption duct element with good attenuation characteristics is made from mineral wool (Cleantec coated) or synthetic material. Used synthetic insulation is classified as M1. Standard lengths 300, 600 and 1000 mm.



**Sound attenuation**

Sound attenuation is specified to ISO 7235, i.e. static integral attenuation for duct products.

NTF (absorption material mineral wool)

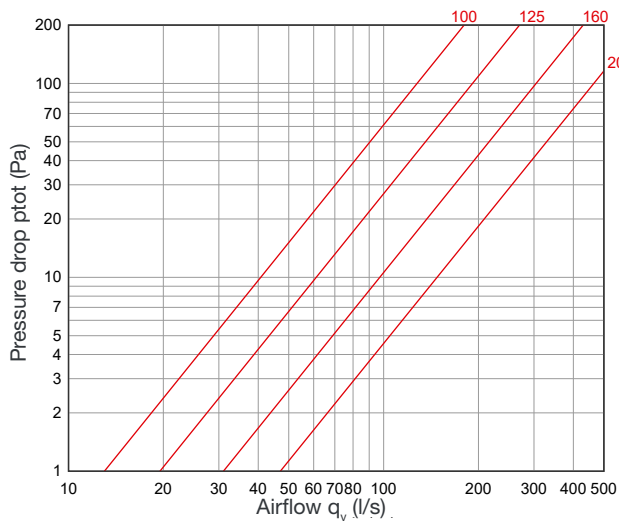
Nominal size Ød (mm)	L (mm)	A (mm)	B (mm)	Sound attenuation (dB)								Weight (kg)
				Mean frequency of octave band (Hz)								
				63	125	250	500	1000	2000	4000	8000	
100	300	210	155	7	8	11	20	22	20	20	15	3,0
100	600	210	155	9	16	19	32	41	43	40	26	4,7
100	1000	210	155	7	28	28	50	50	51	51	45	6,9
125	300	225	180	3	11	8	16	17	16	15	11	3,4
125	600	225	180	6	17	14	31	35	39	34	23	5,3
125	1000	225	180	6	24	20	49	50	50	47	31	7,8
160	300	280	215	3	5	8	13	13	16	15	11	4,4
160	600	280	215	6	9	15	23	28	31	26	19	6,8
160	1000	280	215	8	15	20	42	41	50	43	30	10,0
200	300	295	255	3	4	7	11	12	15	11	9	5,0
200	600	295	255	5	10	15	20	24	26	21	15	7,7
200	1000	295	255	7	16	25	40	48	49	40	27	11,3
250	600	325	305	7	7	13	17	22	22	17	12	9,1
250	1000	325	305	10	13	22	32	40	39	29	21	13,3
315	600	365	370	3	6	10	13	17	15	14	12	10,8
315	1000	365	370	6	9	16	22	28	25	21	17	15,8
400	600	510	455	6	8	10	14	23	30	24	16	17,5
400	1000	510	455	7	14	17	24	38	44	41	27	25,5
500	600	560	555	1	9	11	20	26	26	21	16	21,6
500	1000	560	555	4	12	20	30	40	40	34	25	31,6
630	600	720	685	8	9	13	19	23	25	19	16	30,4
630	1000	720	685	13	15	21	33	39	38	32	25	45,1

**NTP (absorption material synthetic sound insulation)**

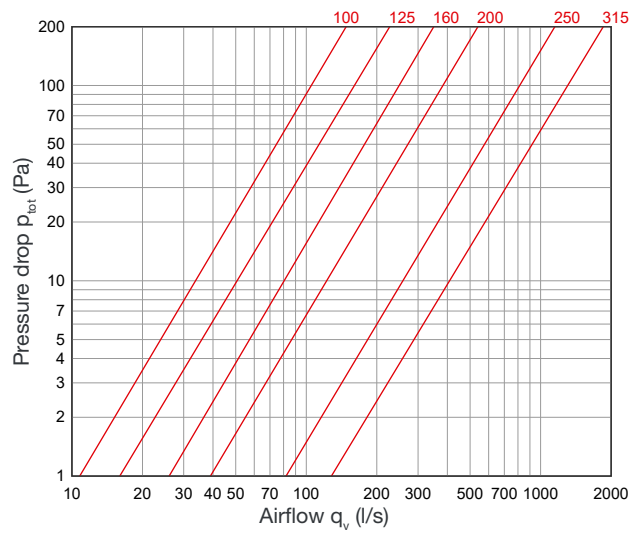
Nominal size Ød (mm)	L (mm)	A (mm)	B (mm)	Sound attenuation (dB)								Weight (kg)
				Mean frequency of octave band (Hz)								
				63	125	250	500	1000	2000	4000	8000	
100	300	210	155	8	10	8	10	16	24	20	15	2,9
100	600	210	155	16	15	14	17	29	35	37	31	4,5
100	1000	210	155	14	22	18	29	37	46	44	43	6,6
125	300	225	180	4	11	7	11	20	20	16	12	3,3
125	600	225	180	7	14	11	18	28	33	34	23	5,1
125	1000	225	180	14	18	16	25	36	44	44	37	7,5
160	300	280	215	5	8	7	13	21	19	17	13	4,3
160	600	280	215	13	9	10	19	29	33	30	22	6,6
160	1000	280	215	13	13	16	26	37	44	44	37	9,6
200	300	295	255	4	6	7	12	17	15	12	9	4,8
200	600	295	255	16	7	11	17	28	31	24	17	7,4
200	1000	295	255	17	11	16	24	37	43	42	30	10,8
250	600	325	305	11	4	9	16	27	24	18	13	8,7
250	1000	325	305	14	8	14	22	34	39	27	18	12,7
315	600	365	370	4	5	8	14	22	16	15	12	10,3
315	1000	365	370	8	8	12	20	30	29	22	17	15,0
400	600	510	455	7	7	11	17	21	25	22	18	16,4
400	1000	510	455	8	11	15	25	33	36	35	29	23,7
500	600	560	555	0	8	10	18	24	26	23	19	20,3
500	1000	560	555	3	11	15	25	36	37	38	35	29,4
630	600	720	685	8	8	11	18	24	26	22	19	28,2
630	1000	720	685	11	12	17	27	34	37	36	27	41,4

**Pressure drop for dimensions 100-315**

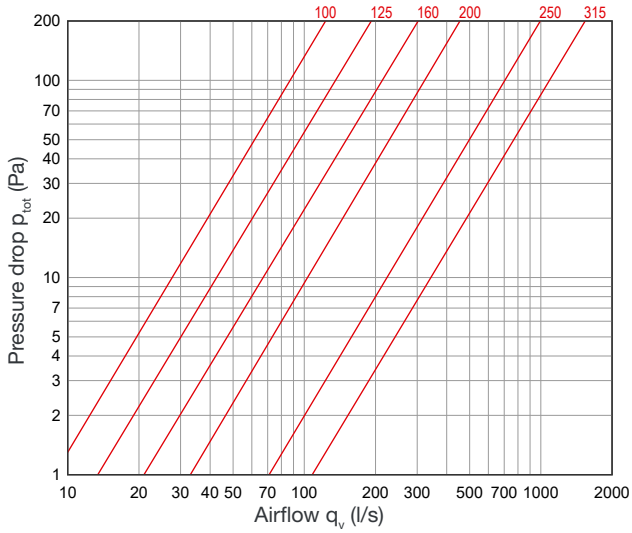
**NTF/NTP 300**



**NTF/NTP 600**

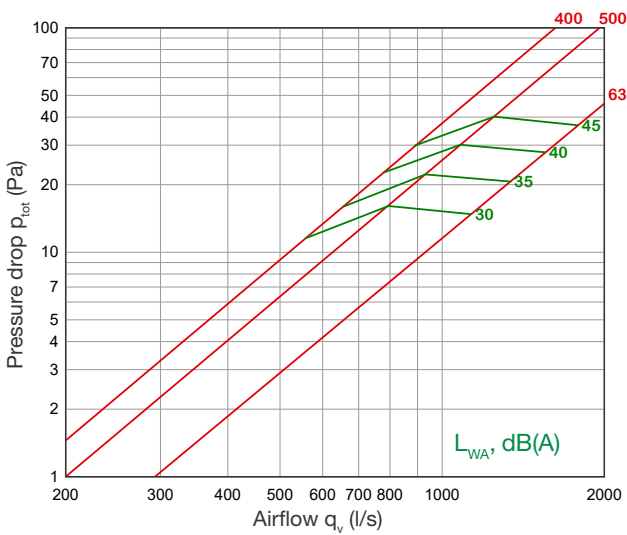


**NTF/NTP 1000**

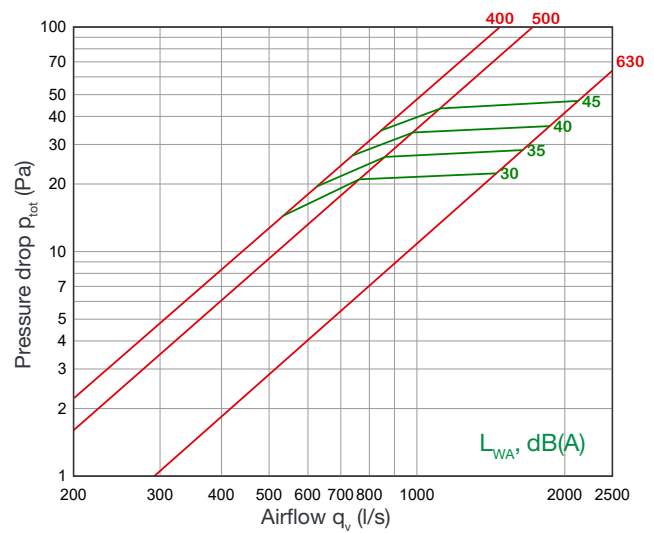


**Pressure drop for dimensions 400-630**

**NTF/NTP 600**



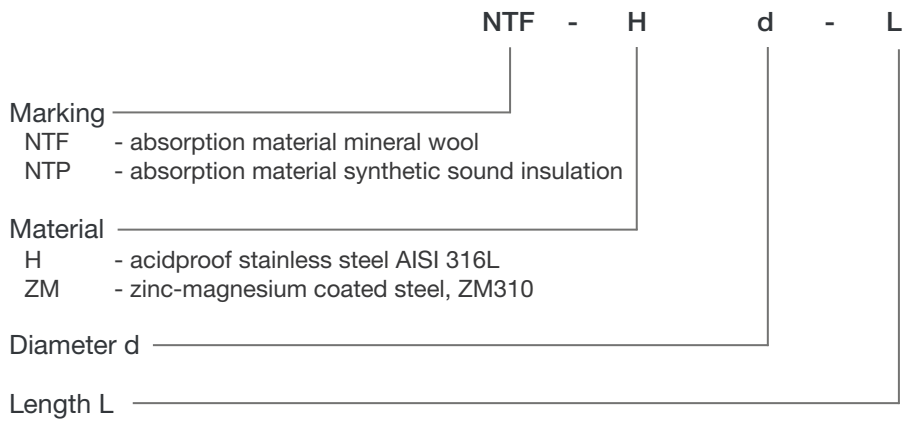
**NTF/NTP 1000**



$$L_{w,okt} = L_{WA} + K_{okt}$$

NTF/NTP	Sound level correction factor $K_{okt}$ (dB)							
	63	125	250	500	1k	2k	4k	8k
NTF/NTP 400-600	17	7	-1	-4	-5	-9	-15	-21
NTF/NTP 400-1000	14	5	0	-4	-5	-8	-15	-22
NTF/NTP 500-600	7	5	0	-3	-5	-8	-14	-21
NTF/NTP 500-1000	8	5	1	-3	-5	-9	-15	-22
NTF/NTP 600-600	10	4	-3	-4	-4	-7	-15	-20
NTF/NTP 600-1000	8	3	-4	-4	-5	-6	-14	-22

Product codes













Example: NTF-H 200-1000

**Accessories**

When installing duct made of special materials in a C4 environment, we recommend using fixing accessories made of the same material, if possible.

Aluminum rivets and screws are suitable for zinc-magnesium (ZM) coated products. For hanging are suitable powder-coated galvanized steel products. The surfaces of the painted products damaged as a result of cutting on site or in any other way must be covered again with the protective layer intended for this purpose. We recommend using a special RUST STOP acrylic varnish with active corrosion protection. In situations where different metals are used together, such as acid-resistant and galvanized steel, they must be separated from each other by an anti-aging material such as an EPDM gasket to prevent electrolytic corrosion.

Find more information about the compatibility of powder coating and fastening materials with the base material in the information sheet of the materials used by ETS NORD.

<p><b>TK Clamp</b></p> <p>Ø 100-1250 AISI316 Z275 RAL</p> 	<p><b>TKM M8</b> Clamp with rubber seal</p> <p>Ø 100-400</p> 	<p><b>TKV Bracket</b></p> <p>Ø 100-630</p> 
<p><b>TKR Wall clamp</b></p> <p>Ø 100-630</p> 	<p><b>TKF Wall clamp strap</b></p> <p>Ø 100-630</p> 	<p><b>TKP Adjust clamp</b></p> <p>Ø 100-630</p> 
<p><b>TKT Wall clamp/console</b></p> <p>Ø 100-630</p> 		
<p><b>Rivet</b></p> <p>AISI316 (A4) 3,2x8 3,2x10</p> 	<p><b>Rivet ALU</b></p> <p>3,2x8 3,2x10</p> 	<p><b>Self-drilling screw</b></p> <p>AISI316 (A4) SUS302HQ (Bi-metal) 4,2x16</p> 



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