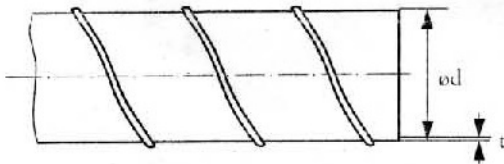


## Specifications and tolerances for spiral ducts and duct fittings

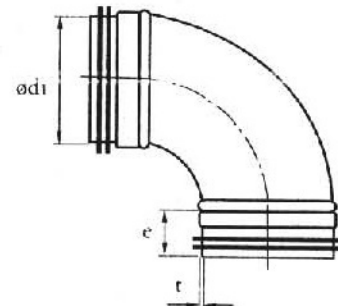
### Duct

Dimension drawing



### Duct fittings (take bend as example)

Dimension drawing



Dimension table

$\phi d$ mm	$\phi d$ mm Tolerance (mm) min-max	t mm
100	100.0-100.5	0.5
125	125.0-125.5	0.5
160	160.0-160.6	0.5
200	200.0-200.7	0.5
250	250.0-250.8	0.5
315	315.0-315.9	0.5
400	400.0-401.0	0.6
500	500.0-501.1	0.75
630	630.0-631.2	0.75
800	800.0-801.6	0.75
1000	1000.0-1002.0	0.75
1250	1250.0-1252.5	1.00

Dimension table

$\phi d1$ mm	$\phi d1$ mm Tolerance (mm) min-max	t mm	e mm
100	98.8-99.3	0.5	40
125	123.8-124.3	0.5	40
160	158.7-159.3	0.5	40
200	198.6-199.3	0.5	40
250	248.5-249.3	0.5	40
315	313.4-314.3	0.5	40
400	398.3-399.3	0.6	50
500	498.2-499.3	0.75	50
630	628.1-629.3	0.75	50
800	798.0-799.3	0.75	60
1000	997.9-999.3	0.75	80
1250	1247.8-1249.3	1.00	80

- Note. 1. Galvanized and stainless steel sheet materials can be selected for duct.  
 2. Material thickness is according to GB 50243-2002 or determined by customers.



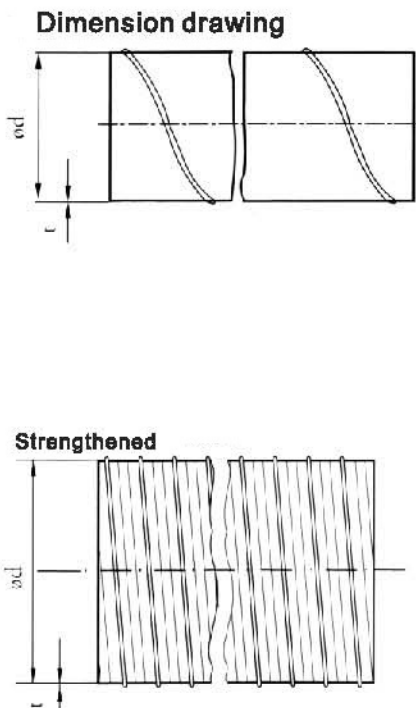
### Spiral duct

**Type identification method: Duct Rd × L**  
 For example: the duct with the 500mm diameter and the 6m lengths is identified as R500 × 6.

**Pre-heat insulation duct: PRd × L**

- Note.**
1. Normal: L=(max) 400/each
  2. Insulation materials: mineral wool, rubber and plastic or glass fiber
  3. Thickness of insulation:  $\delta=12.5\text{mm}$ ,  $\delta=15\text{mm}$  or 25mm, unless otherwise stated, then  $\delta=12.5\text{mm}$ .

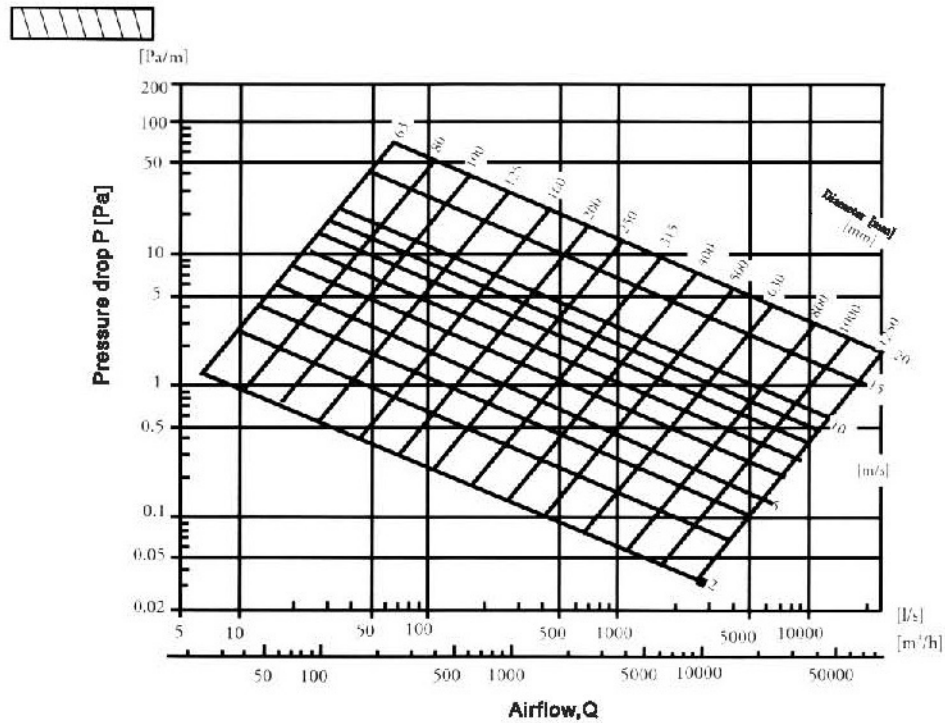
### Dimension table



$\phi d$ mm	t mm	Perimeter m	Cross sectional area m <sup>2</sup>	Wgt. kg/m
100	0.5	0.314	0.008	1.5
125	0.5	0.393	0.012	1.9
160	0.5	0.502	0.020	2.4
200	0.5	0.628	0.031	3.0
250	0.5	0.785	0.049	3.8
315	0.5	0.989	0.078	4.8
400	0.6	1.256	0.126	7.2
500	0.75	1.570	0.196	11.3
630	0.75	1.978	0.312	14.2
800	0.75	2.512	0.503	18.0
1000	0.75	3.140	0.785	22.5
1250	1.00	3.925	1.227	37.5

**Note.** Single duct or fitting weights are only for reference in this catalogue.

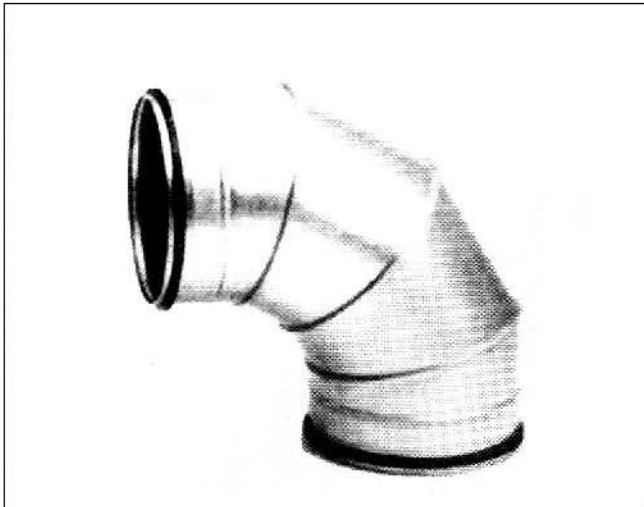
### Pressure drop chart



Allowed maximum pressure under the standard atmosphere pressure [pa]

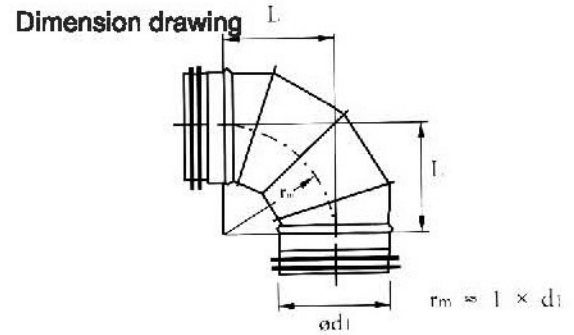
L m	Ød mm	t=0.5		t=0.6		t=0.7		t=0.9	
		Standard mm	Strengthen	Standard mm	Strengthen	Standard mm	Strengthen	Standard mm	Strengthen
6	100	21000		36300		38000		42000	
	125	15000		25900		31000		35000	
	160	8300		18000		23000		27000	
	200	5000		14500		17500		20000	
	250	2300	5000	7000	16000	10000	21000	15300	23000
	315			2000	10500	6000	14000	10200	21000
	400				4500		9000		12100
	500				3000		5500		7200
3	630						3900		6000
	800						1500		2600
	1000								1000
	1250								800

Note. Pressure drop chart are only for reference in this catalogue.

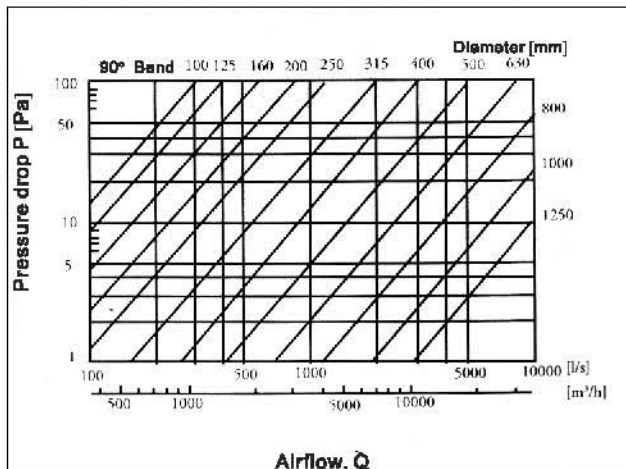


### 90° Bend

Type identification method:  
 Bend Bd1/90°



### 90° Bend pressure drop chart



### Dimension table

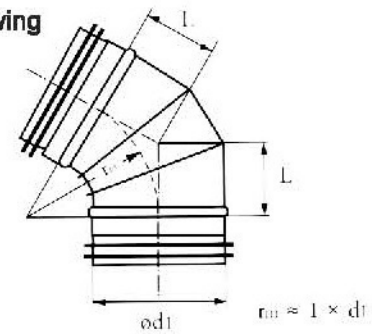
ød1 mm	L mm	kg
100	100	0.6
125	125	0.8
160	160	1.4
200	200	2.1
250	250	2.2
315	315	3.1
400	400	5.1
500	500	10.4
630	630	18.7
800	800	30.1
1000	1000	50.9
1250	1250	87.9



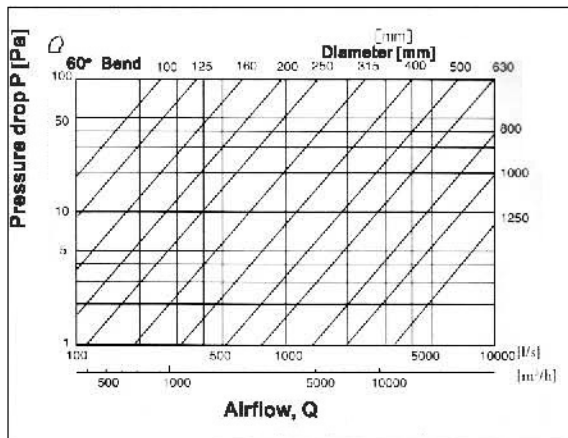
**60° Bend**

Type identification method:  
 Bend Bd1/60°

Dimension drawing



**60° Bend pressure drop chart**



**Dimension table**

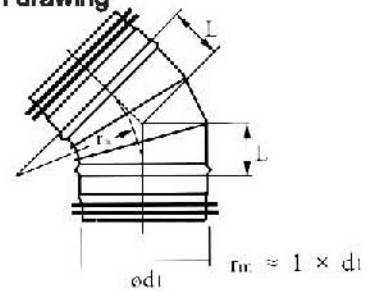
$\varnothing d_1$ mm	L mm	kg
100	58	0.4
125	72	0.5
160	92	1.0
200	115	1.3
250	144	1.5
315	182	2.1
400	231	3.3
500	289	7.6
630	364	13.4
800	462	21.6
1000	577	36.1
1250	722	62.2



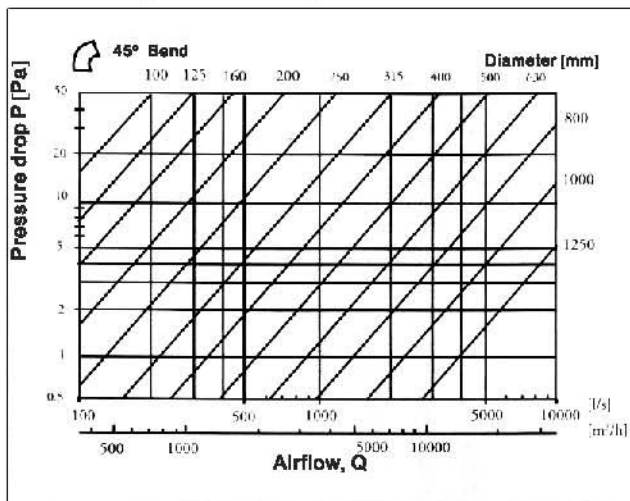
### 45° Bend

Type identification method:  
 Bend Bd1/45°

Dimension drawing



### 45° Bend pressure drop chart



### Dimension table

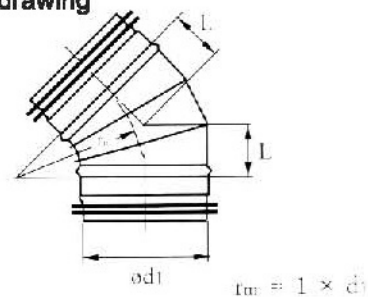
ødi mm	L mm	kg
100	43	0.3
125	52	0.4
160	66	0.6
200	83	0.9
250	104	1.3
315	130	1.8
400	166	3.1
500	207	4.3
630	261	7.9
800	331	13.9
1000	414	29.9
1250	518	42.1



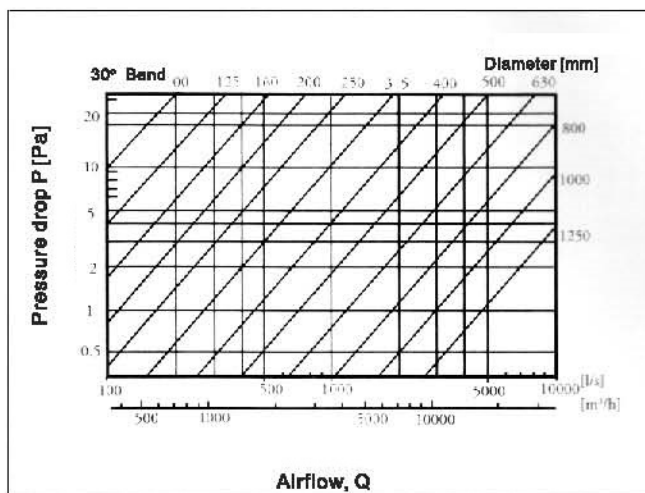
### 30° Bend

Type identification method:  
 Bend Bd1/30°

Dimension drawing

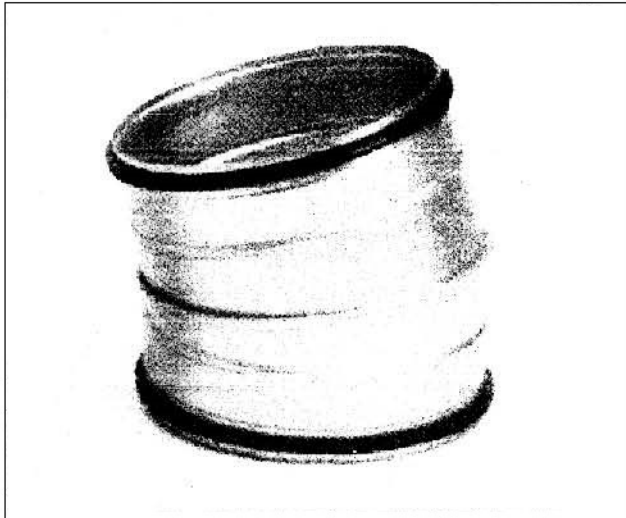


### 30° Bend pressure drop chart



### Dimension table

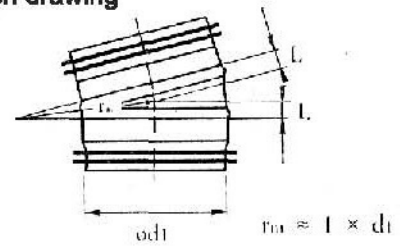
ød <sub>1</sub> mm	L mm	kg
100	28	0.3
125	33	0.3
160	43	0.5
200	54	0.7
250	67	1.0
315	84	1.3
400	107	2.0
500	134	4.8
630	169	8.2
800	214	13.2
1000	268	21.4
1250	335	36.5



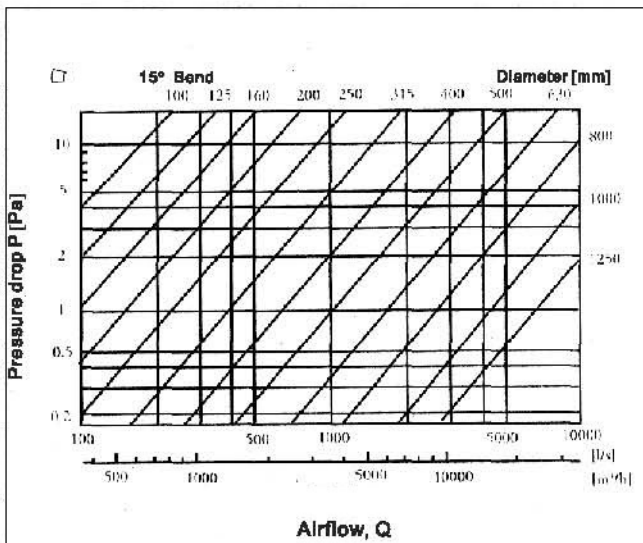
**15° Bend**

Type Identification method:  
 Bend Bd1/15°

Dimension drawing



**15° Bend pressure drop chart**



**Dimension table**

ød1 mm	L mm	kg
100	14	0.3
125	16	0.3
160	21	0.5
200	26	0.6
250	33	0.8
315	41	1.1
400	53	1.7
500	66	2.2
630	83	3.4
800	105	7.5
1000	132	9.3
1250	165	19.0





### Reduced joint

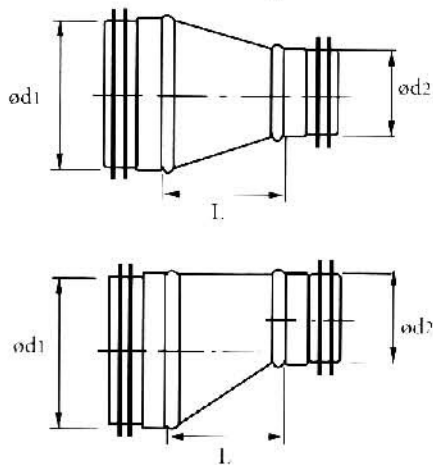
Type Identification method: Reduced type Fd1/d2  
 Slanting reduced type Fd1/d2



### Dimension table

$\varnothing d1$ mm	$\varnothing d2$ mm	L mm	kg
125	100	64	0.3
160	100	112	0.5
200	100	167	0.6
	160	85	0.5
250	100	236	1.0
	160	154	0.9
	200	99	0.8
315	160	243	1.3
	200	188	1.2
	250	119	1.1
400	160	365	2.3
	200	310	2.2
	250	241	2.1
	315	152	1.8
500	200	447	3.4
	250	376	3.2
	315	289	3.0
	400	177	2.6
630	250	557	5.6
	315	468	5.3
	400	356	4.9
800	500	219	4.0
	400	594	9.0
	500	457	8.0
1000	630	279	6.5
	500	732	15.9
	630	553	13.8
1250	800	325	11.1
	630	897	25.5
	800	668	22.8
	1000	393	17.7

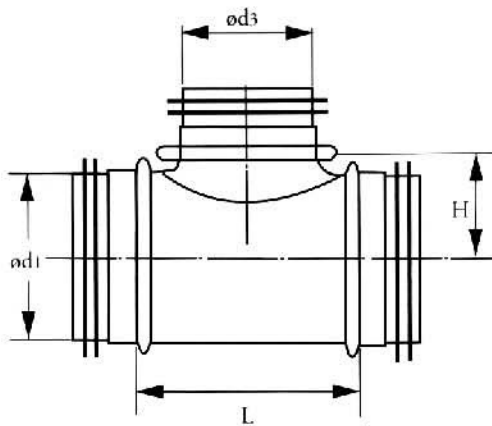
### Dimension drawing





### T-piece

Type identification method: T-piece Td1/d3



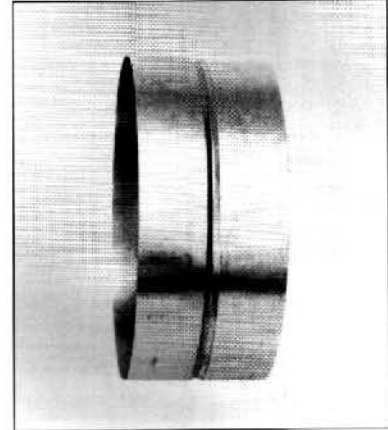
ød1 mm	ød3 mm	L mm	H mm	kg
100	100	151	65	0.5
125	100	184	78	0.6
	125	184	83	0.7
160	100	175	95	0.7
	125	229	100	0.8
	160	229	105	1.2
200	100	175	115	1.0
	125	215	115	1.0
	160	260	125	1.2
	200	281	125	1.4
250	100	175	140	1.2
	125	220	145	1.3
	160	256	150	1.5
	200	306	150	1.7
	250	307	150	2.2

ød1 mm	ød3 mm	L mm	H mm	kg
315	100	175	173	1.4
	125	220	178	1.5
	160	256	182	1.7
	200	306	182	2.1
	250	350	182	2.6
	315	390	182	3.2
400	100	175	215	2.1
	125	225	220	2.2
	160	266	225	2.5
	200	300	225	2.8
	250	350	225	3.3
	315	415	225	3.8
	400	477	225	5.1
	500	100	175	265
125		225	270	3.2
160		266	275	3.5
200		300	275	4.0
250		350	275	4.6
315		415	275	5.4
630	400	477	275	6.4
	500	552	250	7.1
	100	175	330	2.6
	125	225	335	2.8
	160	266	340	4.0
	200	300	340	4.5
	250	350	340	5.5
	315	415	340	6.4
	400	477	340	7.8
	500	552	315	8.2
630	680	315	10.3	

**Insertion joint and socket joint**

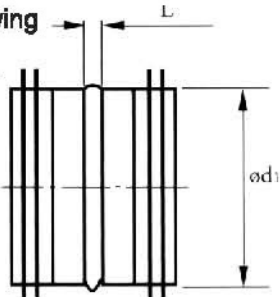


Type identification method: Insertion joint Nd1

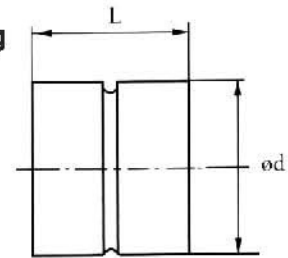


Type identification method: Socket joint Md1

Dimension drawing



Dimension drawing



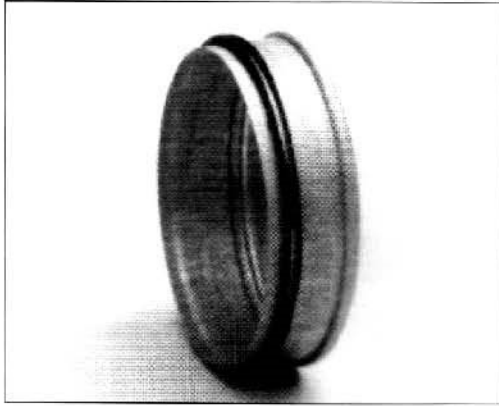
Dimension table

ød1 mm	L mm	kg
100	8	0.1
125	8	0.2
160	8	0.2
200	10	0.3
250	10	0.5
315	10	0.6
400	10	1.3
500	10	1.6
630	12	2.0
800	15	3.9
1000	15	4.9
1250	15	10.0

Dimension table

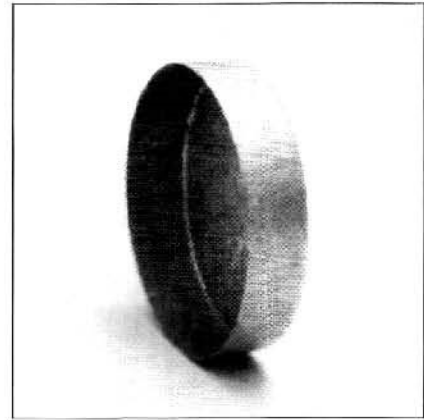
ød mm	L mm	kg
100	90	0.1
125	90	0.2
160	90	0.2
200	90	0.3
250	130	0.5
315	130	0.6
400	170	1.0
500	170	1.4
630	170	1.7
800	210	2.2
1000	210	4.4
1250	250	6.5

**Insertion lid**

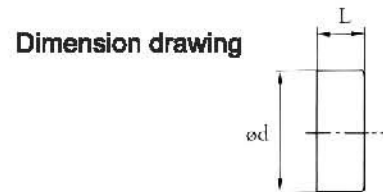
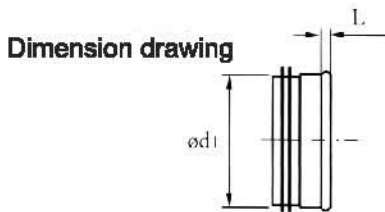


Type identification method: Insertion lid  $\varnothing d1$

**Socket lid**



Type identification method: Socket lid  $\varnothing d$



**Dimension table**

$\varnothing d1$ mm	L mm	kg
100	15	0.1
125	15	0.1
160	15	0.2
200	15	0.3
250	15	0.6
315	15	0.9
400	15	1.2
500	15	1.7
630	3	2.8
800	3	5.4
1000	3	7.9
1250	3	12.2

**Dimension table**

$\varnothing d$ mm	L mm	kg
100	40	0.1
125	40	0.1
160	40	0.2
200	40	0.3
250	60	0.5
315	60	0.7
400	80	1.1
500	80	2.1
630	80	2.7
800	100	5.4
1000	100	7.9
1250	120	12.2

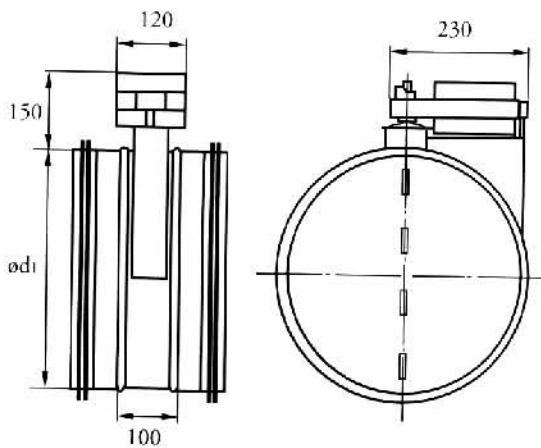


### Electric damper

Type identification method: Electric damper  $\varnothing d1$

Note: The type and size are same as general dampers.

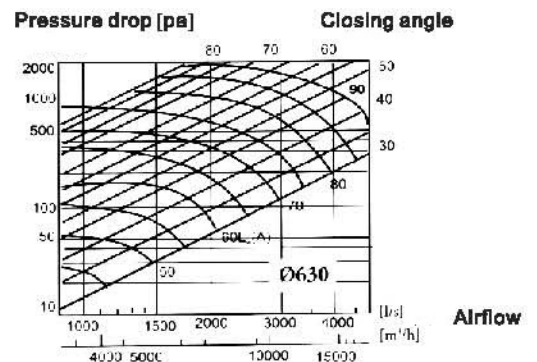
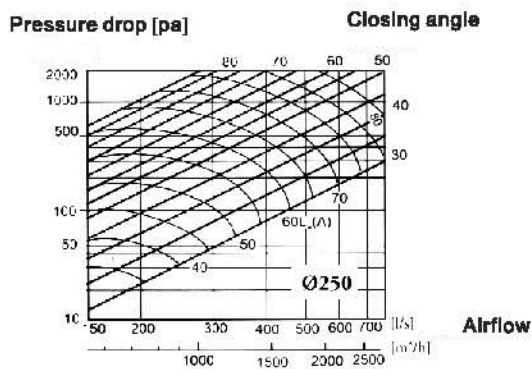
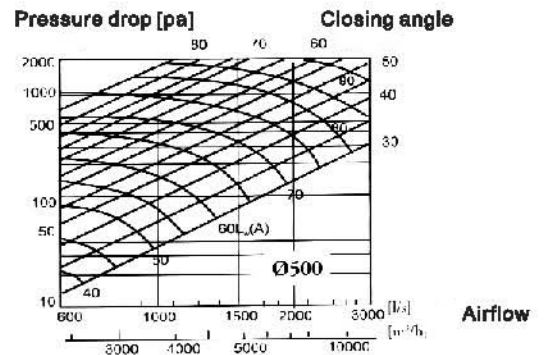
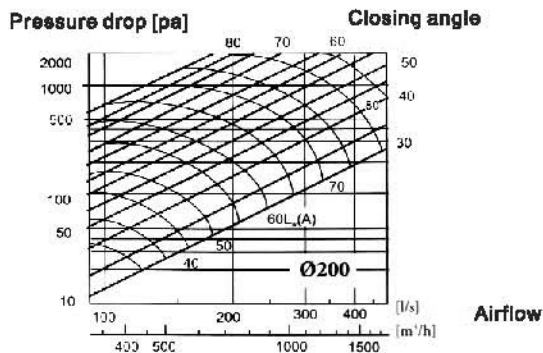
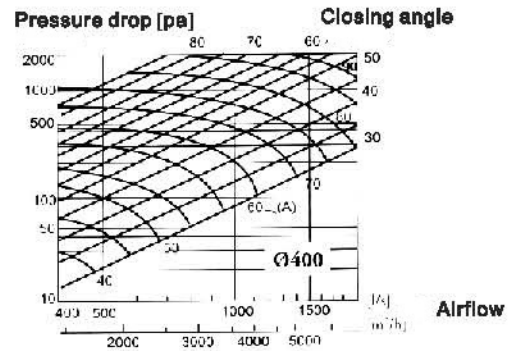
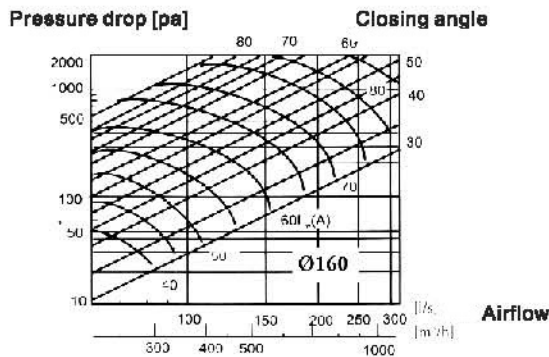
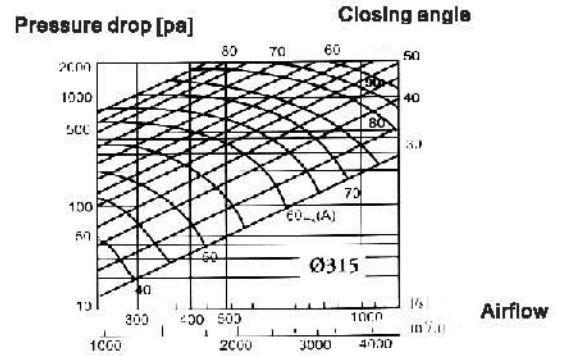
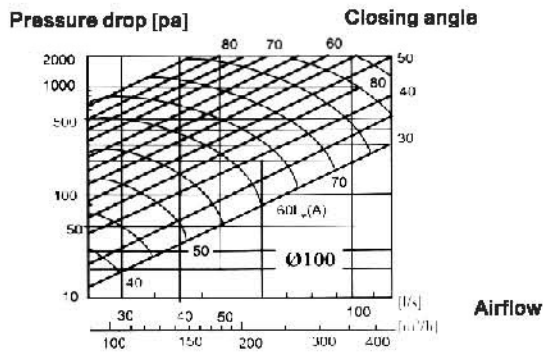
### Dimension drawing



### Damper performance

Each size of dampers can be obtained from the damper performance charts, for example, a damper with  $\Phi 100$  diameter, the air flow is 60 L/s, and air pressure drop is 200 pa, when closing angle of the damper is  $40^\circ$ , the sound power level is 62dB(A) according to the chart for a damper with  $\Phi 100$  diameter.

### Damper performance chart





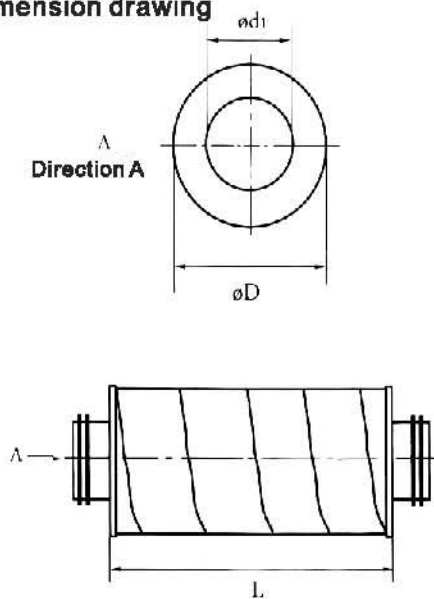
### Sound absorber

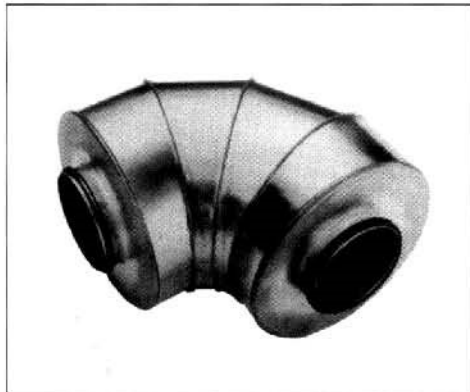
Type identification method: Sound absorber XRd1-L

### Dimension table

Specifications	ød1 mm	øD mm	L mm	Kg	Frequency octave attenuation dB					
					125	250	500	1000	2000	4000
100-300	100	200	300	2	5	9	12	20	25	17
100-600	100	200	600	3	7	15	25	33	29	24
100-900	100	200	900	5	9	22	32	36	35	31
100-1200	100	200	1200	6	11	25	36	39	37	38
125-300	125	224	300	3	3	7	14	19	16	19
125-600	125	224	600	4	5	13	21	37	37	31
125-900	125	224	900	7	7	16	28	38	38	35
125-1200	125	224	1200	9	9	20	24	39	39	36
160-300	160	280	300	3	2	8	12	15	15	14
160-600	160	280	600	6	3	11	22	33	42	29
160-900	160	280	900	8	8	14	23	39	37	25
160-1200	160	280	1200	10	11	19	35	38	47	41
200-300	200	315	300	4	2	4	8	15	18	15
200-600	200	315	600	7	4	8	15	31	28	20
200-900	200	315	900	10	8	9	20	32	35	23
200-1200	200	315	1200	12	11	17	26	34	40	26
250-600	250	355	600	9	6	9	13	24	15	15
250-900	250	355	900	12	8	11	20	33	24	18
250-1200	250	355	1200	15	10	13	25	38	29	24
315-600	315	500	600	12	5	5	11	19	12	10
315-900	315	500	900	18	7	9	16	30	18	14
315-1200	315	500	1200	24	9	12	21	36	18	17
400-600	400	600	600	16	5	6	9	13	10	7
400-900	400	600	900	22	7	7	14	22	15	13
400-1200	400	600	1200	32	7	10	14	22	18	13
500-900	500	710	900	26	6	8	14	16	13	13
500-1200	500	710	1200	39	8	11	22	24	17	16
630-900	630	800	900	42	4	7	12	12	12	10
630-1200	630	800	1200	56	5	10	16	15	13	11
800-1200	800	1000	1200	69	4	5	10	9	15	12
800-1500	800	1000	1500	86	4	7	13	12	15	12

### Dimension drawing





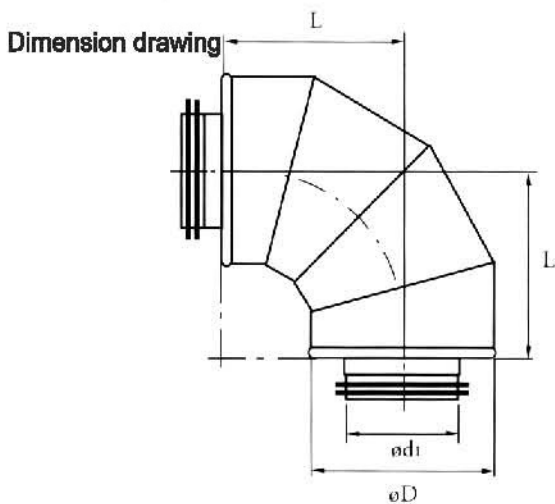
**Muffer elbow** Type identification method: Muffer elbow  $\phi d1-50$  or XRd1/90°

**Dimension table** (Thickness of cavity 50mm)

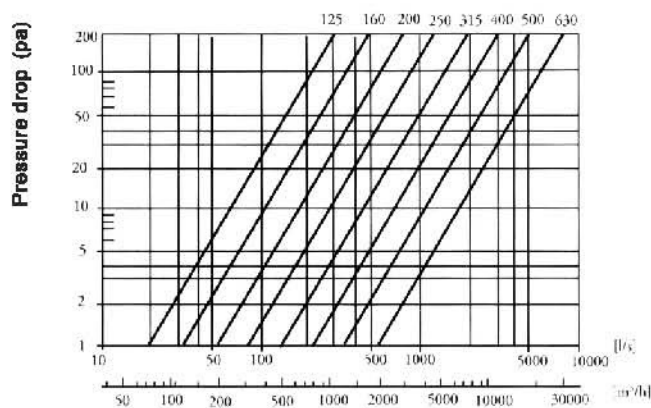
$\phi d1$ mm	L mm	$\phi D$ mm	Frequency octave attenuation dB							
			125	250	500	1000	2000	4000	8000	Kg
125	200	224	2	6	14	29	30	31	24	4
160	240	260	3	6	14	26	34	30	25	6
200	305	315	3	8	20	26	32	30	25	10
250	370	355	2	6	17	29	28	24	22	11
315	370	450	3	7	13	15	15	14	12	18

(Thickness of cavity 100mm)

$\phi d1$ mm	L mm	$\phi D$ mm	Frequency octave attenuation dB							
			125	250	500	1000	2000	4000	8000	Kg
125	260	315	6	13	22	25	35	39	33	9
160	280	355	7	14	18	26	38	33	25	11
200	325	400	6	15	22	29	34	32	27	15
250	370	450	4	11	16	27	28	26	22	20
315	375	500	4	11	15	18	17	15	14	21
400	420	600	5	9	14	14	15	14	12	30
500	485	710	5	13	19	14	13	12	10	42
630	610	850	6	14	17	13	12	12	11	62



**Pressure drop curve**

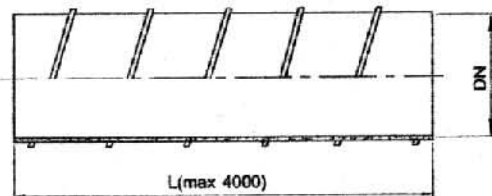
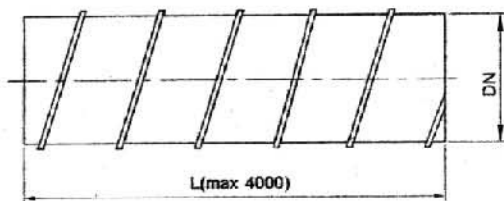
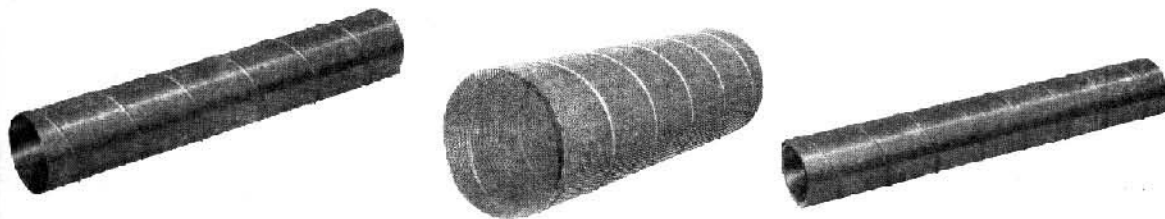


Airflow Q



### Specifications and dimensions for spiral ducts and duct fittings

#### Non-heat insulation spiral duct (R) and pre-heat insulation spiral duct (PR)



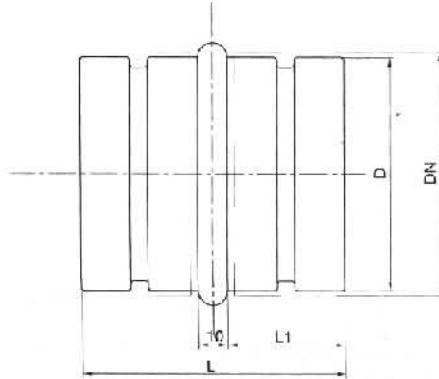
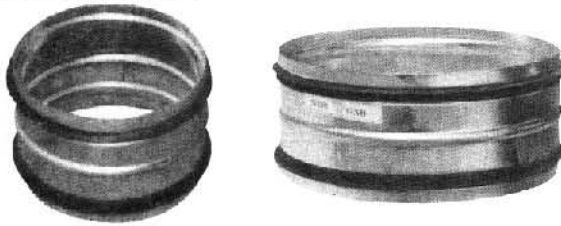
Specifications	Internal dia.DN	Wgt.kg/m
R80	80	1.35
R100	100	1.69
R125	125	2.11
R150	150	2.53
R160	160	2.69
R175	175	3.36
R200	200	4.20
R250	250	5.03
R300	300	6.72
R400	400	11.20
R500	500	14.12
R600	600	17.74

Note. 1. Cold rolled plate, galvanized and stainless steel sheet materials can be selected for duct.  
 2. Material thickness is according to GB 50243 or determined by customers.

Specifications	Internal dia.DN	Wgt.kg/m
PR80	80	3.34
PR100	100	4.16
PR125	125	5.081
PR150	150	5.99
PR160	160	6.35
PR175	175	6.90
PR200	200	7.82
PR250	250	9.66
PR300	300	11.27
PR400	400	16.27
PR500	500	25.67
PR600	600	36.37

Note. 1. 12.5mm, 15mm or 25mm insulation thickness can be selected  
 2. Insulation materials: mineral wool, rubber and plastic or glass fiber  
 3. The inner perforated plate can be selected to make silence duct.

**Insertion joint (N)**



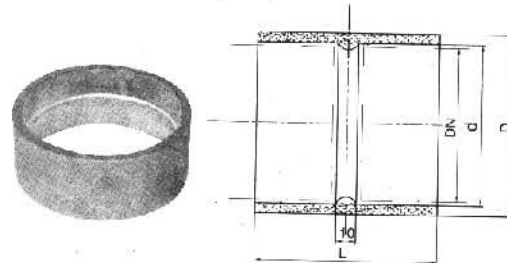
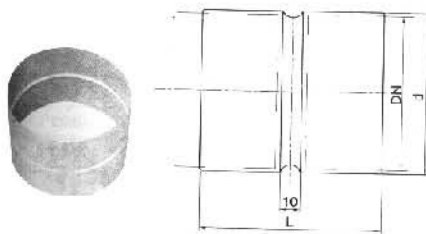
DN < 400

Specifications	Ext.dia. D	L	Length L1	Wgt. ≈ kg
N80	78	90	40	0.14
N100	98	90	40	0.18
N125	123	90	40	0.22
N150	148	90	40	0.26
N160	158	90	40	0.28
N175	173	90	40	0.31
N200	198	90	40	0.35
N250	248	90	40	0.44
N300	298	90	40	0.77

Note: For Insertion joints with DN ≥ 400, seals are not applied.

Two side surfaces of the joints are inward flanged, intermediate raised ribs on middle of joints. Length of the joint, L is equal to 50.

**Non-heat insulation sleeve (M) and pre-heat insulation sleeve (PM)**

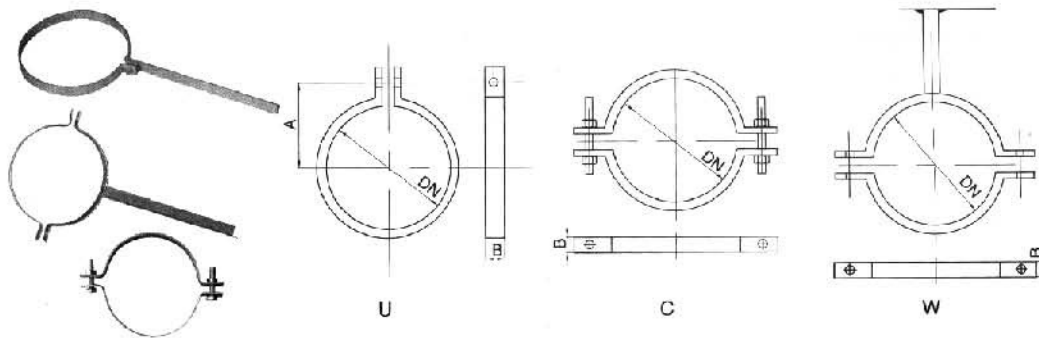


Specifications	Internal duct d	L	Wgt. ≈ kg/piece
M80	80	90	0.14
M100	100	90	0.18
M125	125	90	0.22
M150	150	90	0.27
M160	160	90	0.29
M175	175	90	0.31
M200	200	90	0.36
M250	250	90	0.74
M300	300	90	0.89

Specifications	Internal duct d	External duct d	L	Wgt. ≈ kg/piece
PM80	80	100	90	0.33
PM100	100	125	90	0.40
PM125	125	150	90	0.49
PM150	150	175	90	0.58
PM160	160	185	90	0.61
PM175	175	200	90	0.67
PM200	200	225	90	0.76
PM250	250	275	90	1.50
PM300	300	325	90	1.79

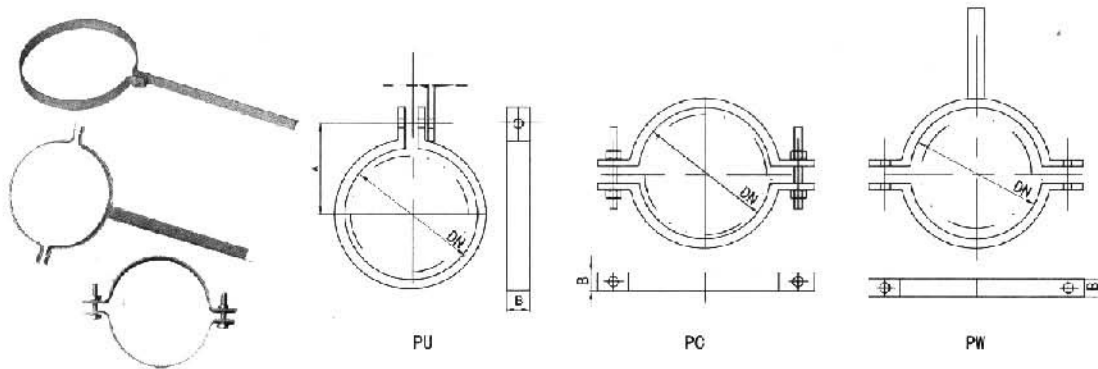
Note. Thickness of insulation: δ = 12.5mm

### Non-heat insulation pendent (U, W, C)



Specifications	Inside dia. DN	Matched duct	A	B	Wgt. ≈ kg/piece
U80, W80, C80	80	R80	56	25	0.12
U100, W100, C100	100	R100	66	25	0.14
U125, W125, C125	125	R125	79	25	0.18
U150, W150, C150	150	R150	91	25	0.21
U160, W160, C160	160	R160	96	25	0.22
U175, W175, C175	175	R175	104	25	0.24
U200, W250, C250	200	R200	116	25	0.27
U250, W250, C250	250	R250	141	25	0.33
U300, W300, C300	300	R300	166	25	0.37
U400, W400, C400	400	R400	216	30	0.61
U500, W500, C500	500	R500	266	30	1.52
U630, W630, C630	630	R630	331	30	2.23
U700, W700, C700	700	R700	367	30	2.12
U800, W800, C800	800	R800	417	30	2.40
C900	900	R900	467	40	2.48
C1000	1000	R1000	517	40	2.99
C1120	1120	R1120	577	40	3.35
C1250	1250	R1250	640	40	3.74
C1300	1300	R1300	670	60	4.79
C1400	1400	R1400	720	60	5.15
C1500	1500	R1500	770	60	8.26
C1600	1600	R1600	820	60	8.78
C1800	1800	R1800	920	60	9.03
C1900	1900	R1900	970	60	9.52
C2000	2000	R2000	1020	60	10.01
C2500	2500	R2500	1270	60	13.58

Note. 1. Length of pendent rod is decided according to customers. 300mm length of pendent rod is supplied unless otherwise stated.  
2. Materials for pendent rod are decided according to customers.

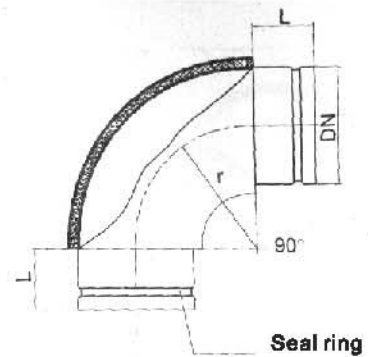
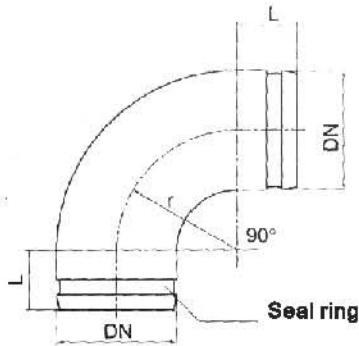
**Pre-heat insulation pendent (PU, PW, PC)**


Specifications	Ext. dia. DN		Matched duct	A		B	Wgt. ≈ kg/piece
	ø 12.5	ø 15		ø 12.5	ø 15		
PU80, PW80, PC80	100	110	PR80	69	71	25	0.16
PU100, PW100, PC100	125	130	PR100	79	81	25	0.19
PU125, PW125, PC125	150	155	PR125	92	94	25	0.22
PU150, PW150, PC150	175	180	PR150	104	106	25	0.25
PU160, PW160, PC160	185	190	PR160	109	111	25	0.26
PU175, PW175, PC175	200	205	PR175	117	119	25	0.28
PU200, PW200, PC200	225	230	PR200	129	131	25	0.37
PU250, PW250, PC250	275	280	PR250	154	156	25	0.68
PU300, PW300, PC300	325	330	PR300	179	181	25	0.82
PU400, PW400, PC400	425	430	PR400	229	231	30	1.01
PU500, PW500, PC500	525	530	PR500	279	281	30	2.16
PU630, PW630, PC630	655	660	PR630	344	346	30	3.22
PU700, PW700, PC700	725	730	PR700	380	387	40	2.95
PU800, PW800, PC800	825	830	PR800	430	432	40	3.34
PC900	925	930	PR900	480	482	40	3.37
PC1000	1025	1030	PR1000	530	532	40	4.13
PC1120	1145	1150	PR1120	590	593	40	5.75
PC1250	1275	1280	PR1250	653	655	40	6.31
PC1300	1325	1300	PR1300	683	685	60	11.29
PC1400	1425	1430	PR1400	733	735	60	13.03
PC1500	1525	1531	PR1500	783	785	60	16.76
PC1600	1625	1631	PR1600	833	835	60	17.73
PC1800	1825	1831	PR1800	933	935	60	18.21
PC1900	1925	1931	PR1900	883	885	60	19.19
PC2000	2025	2030	PR2000	1033	1035	60	20.17
PC2500	2525	2530	PR2500	1283	1285	60	26.18

Note. 1. Length of pendent rod is decided according to customers. 300mm length of pendent rod is supplied unless otherwise stated.

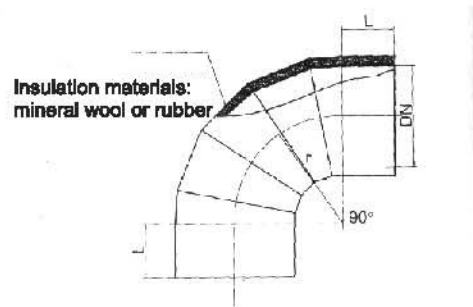
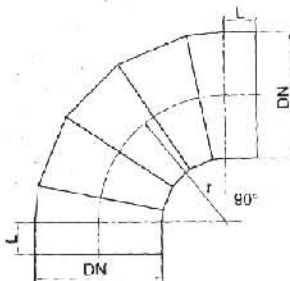
2. Materials for pendent rod are decided according to customers.

**90°non-heat insulation bend (B) and 90°pre-heat insulation bend (PB)**



Specifications	DN	r	L
B80/90°	80	100	40
B100/90°	100	1D	40
B125/90°	125	1D	40
B150/90°	150	1D	40
B160/90°	160	1D	40
B175/90°	175	1D	40
B200/90°	200	1D	40
B300/90°	300	1D	40
B400/90°	400	1D	50
B500/90°	500	1D	50

Specifications	DN	r	L
PB80/90°	80	100	40
PB100/90°	100	1D	40
PB125/90°	125	1D	40
PB150/90°	150	1D	40
PB160/90°	160	1D	40
PB175/90°	175	1D	40
PB200/90°	200	1D	40
PB300/90°	300	1D	40
PB400/90°	400	1D	50
PB500/90°	500	1D	50

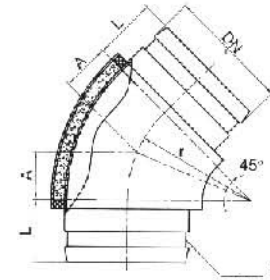
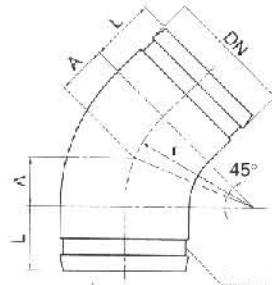
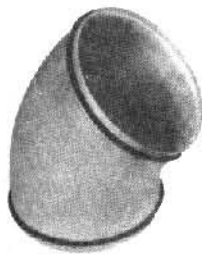


Specifications	DN	r	L
B630/90°	630	1D	80
B700/90°	700	1D	80
B800/90°	800	1D	80
B900/90°	900	1D	140
B1000/90°	1000	1D	140
B1200/90°	1200	1D	140
B1300/90°	1300	1D	140
B1400/90°	1400	1D	140
B1500/90°	1500	1D	140
B1600/90°	1600	1D	140
B1700/90°	1700	1D	140
B1800/90°	1800	1D	140
B2000/90°	2000	1D	140
B2500/90°	2500	1D	140

Specifications	DN	r	L
PB630/90°	630	1D	80
PB700/90°	700	1D	80
PB800/90°	800	1D	80
PB900/90°	900	1D	140
PB1000/90°	1000	1D	140
PB1200/90°	1200	1D	140
PB1300/90°	1300	1D	140
PB1400/90°	1400	1D	140
PB1500/90°	1500	1D	140
PB1600/90°	1600	1D	140
PB1700/90°	1700	1D	140
PB1800/90°	1800	1D	140
PB2000/90°	2000	1D	140
PB2500/90°	2500	1D	140

Note. Particular dimension type is supplied according to customers.

**45°non-heat insulation bend (B) and 45°pre-heat insulation bend (PB)**

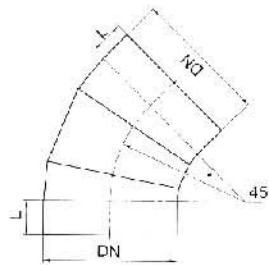


Seal ring

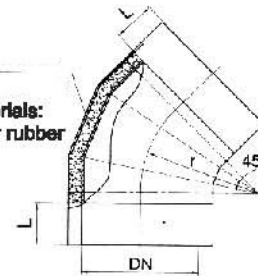
Seal ring

Specification	DN	r	L
B80/45°	80	100	40
B100/45°	100	1D	40
B125/45°	125	1D	40
B150/45°	150	1D	40
B160/45°	160	1D	40
B175/45°	175	1D	40
B200/45°	200	1D	40
B300/45°	300	1D	40
B400/45°	400	1D	50
B500/45°	500	1D	50

Specification	DN	r	L
PB80/45°	80	100	40
PB100/45°	100	1D	40
PB125/45°	125	1D	40
PB150/45°	150	1D	40
PB160/45°	160	1D	40
PB175/45°	175	1D	40
PB200/45°	200	1D	40
PB300/45°	300	1D	40
PB400/45°	400	1D	50
PB500/45°	500	1D	50



Insulation materials:  
 mineral wool or rubber



Specification	DN	r	L
B630/45°	630	1D	60
B700/45°	700	1D	80
B800/45°	800	1D	80
B900/45°	900	1D	140
B1000/45°	1000	1D	140
B1200/45°	1200	1D	140
B1300/45°	1300	1D	140
B1400/45°	1400	1D	140
B1500/45°	1500	1D	140
B1600/45°	1600	1D	140
B1700/45°	1700	1D	140
B1800/45°	1800	1D	140
B2000/45°	2000	1D	140
B2500/45°	2500	1D	140

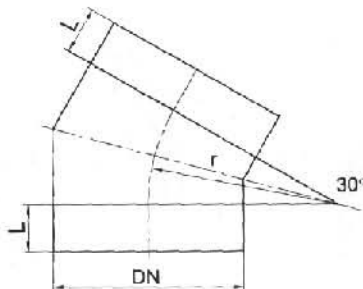
Specification	DN	r	L
PB630/45°	630	1D	60
PB700/45°	700	1D	80
PB800/45°	800	1D	80
PB900/45°	900	1D	140
PB1000/45°	1000	1D	140
PB1200/45°	1200	1D	140
PB1300/45°	1300	1D	140
PB1400/45°	1400	1D	140
PB1500/45°	1500	1D	140
PB1600/45°	1600	1D	140
PB1700/45°	1700	1D	140
PB1800/45°	1800	1D	140
PB2000/45°	2000	1D	140
PB2500/45°	2500	1D	140

**30°non-heat insulation bend (B) and 30°pre-heat insulation bend (PB)**

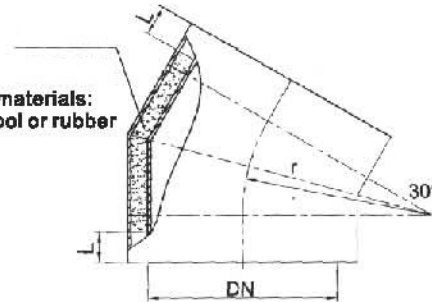


Specification	DN	r	L
B80/30°	80	100	40
B100/30°	100	1D	40
B125/30°	125	1D	40
B150/30°	150	1D	40
B160/30°	160	1D	40
B175/30°	175	1D	40
B200/30°	200	1D	40
B300/30°	300	1D	40
B400/30°	400	1D	50
B500/30°	500	1D	50

Specification	DN	r	L
PB80/30°	80	100	40
PB100/30°	100	1D	40
PB125/30°	125	1D	40
PB150/30°	150	1D	40
PB160/30°	160	1D	40
PB175/30°	175	1D	40
PB200/30°	200	1D	40
PB300/30°	300	1D	40
PB400/30°	400	1D	50
PB500/30°	500	1D	50



Insulation materials:  
 mineral wool or rubber



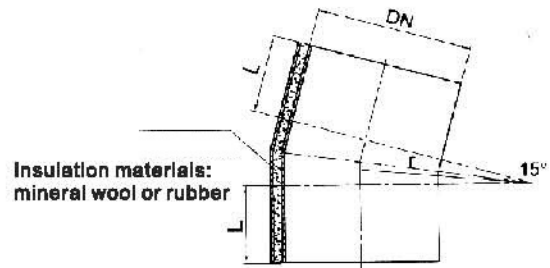
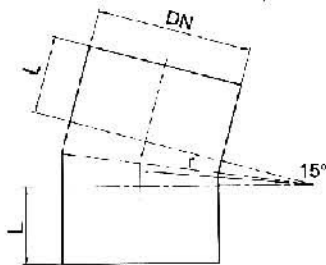
Specification	DN	r	L
B630/45°	630	1D	60
B700/45°	700	1D	80
B800/45°	800	1D	80
B900/45°	900	1D	140
B1000/45°	1000	1D	140
B1200/45°	1200	1D	140
B1300/45°	1300	1D	140
B1400/45°	1400	1D	140
B1500/45°	1500	1D	140
B1600/45°	1600	1D	140
B1700/45°	1700	1D	140
B1800/45°	1800	1D	140
B2000/45°	2000	1D	140
B2500/45°	2500	1D	140

Specification	DN	r	L
PB630/45°	630	1D	60
PB700/45°	700	1D	80
PB800/45°	800	1D	80
PB900/45°	900	1D	140
PB1000/45°	1000	1D	140
PB1200/45°	1200	1D	140
PB1300/45°	1300	1D	140
PB1400/45°	1400	1D	140
PB1500/45°	1500	1D	140
PB1600/45°	1600	1D	140
PB1700/45°	1700	1D	140
PB1800/45°	1800	1D	140
PB2000/45°	2000	1D	140
PB2500/45°	2500	1D	140

**15° non-heat insulation bend (B) and 15° pre-heat insulation bend (PB)**


Specification	DN	r	L
B80/15°	80	100	40
B100/15°	100	1D	40
B125/15°	125	1D	40
B150/15°	150	1D	40
B160/15°	160	1D	40
B175/15°	175	1D	40
B200/15°	200	1D	40
B300/15°	300	1D	40
B400/15°	400	1D	50
B500/15°	500	1D	50

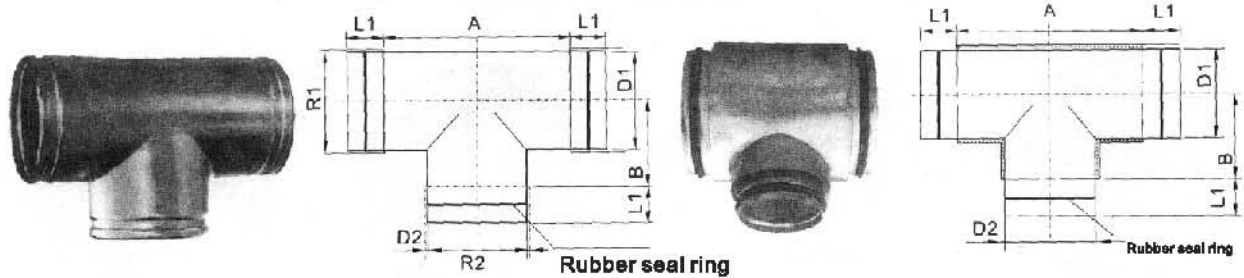
Specification	DN	r	L
PB80/15°	80	100	40
PB100/15°	100	1D	40
PB125/15°	125	1D	40
PB150/15°	150	1D	40
PB160/15°	160	1D	40
PB175/15°	175	1D	40
PB200/15°	200	1D	40
PB300/15°	300	1D	40
PB400/15°	400	1D	50
PB500/15°	500	1D	50



Specification	DN	r	L
B630/15°	630	1D	60
B700/15°	700	1D	80
B800/15°	800	1D	80
B900/15°	900	1D	140
B1000/15°	1000	1D	140
B1200/15°	1200	1D	140
B1300/15°	1300	1D	140
B1400/15°	1400	1D	140
B1500/15°	1500	1D	140
B1600/15°	1600	1D	140
B1700/15°	1700	1D	140
B1800/15°	1800	1D	140
B2000/15°	2000	1D	140
B2500/15°	2500	1D	140

Specification	DN	r	L
PB630/15°	630	1D	60
PB700/15°	700	1D	80
PB800/15°	800	1D	80
PB900/15°	900	1D	140
PB1000/15°	1000	1D	140
PB1200/15°	1200	1D	140
PB1300/15°	1300	1D	140
PB1400/15°	1400	1D	140
PB1500/15°	1500	1D	140
PB1600/15°	1600	1D	140
PB1700/15°	1700	1D	140
PB1800/15°	1800	1D	140
PB2000/15°	2000	1D	140
PB2500/15°	2500	1D	140



**Non-heat insulation T-piece (T) and pre-heat insulation T-piece (PT)**


Specification	A	D1	D2	B	Wgt. ~ kg/piece
T80/80	150	80	80	70	0.52
T100/80	150	100	80	80	0.63
T100/100	165	100	100	80	0.64
T125/80	150	125	80	90	0.69
T125/100	165	125	100	90	0.75
T125/125	200	125	125	90	0.81
T150/80	150	150	80	105	0.84
T150/100	165	150	100	105	0.90
T150/125	200	150	125	105	0.97
T150/150	220	150	150	105	1.40
T160/80	150	160	80	109	0.92
T160/100	165	160	100	109	1.06
T160/125	200	160	125	109	1.37
T160/160	250	160	160	109	1.49
T175/80	150	175	80	115	0.96
T175/100	165	175	100	115	1.08
T175/125	200	175	125	115	1.55
T175/150	250	175	150	115	1.65
T175/175	250	175	175	115	1.78
T200/80	150	200	80	140	1.05
T200/100	165	200	100	140	1.17
T200/125	200	200	125	140	1.23
T200/150	250	200	150	140	1.45
T200/160	250	200	160	140	1.51
T200/175	250	200	175	140	2.04
T200/200	300	200	200	140	2.15
T250/80	180	250	80	165	1.31
T250/100	200	250	100	165	1.46
T250/125	225	250	125	165	1.53
T250/160	250	250	160	165	1.88
T250/200	300	250	200	165	2.55
T250/250	350	250	250	165	2.88
T300/100	200	300	100	200	1.75
T300/125	225	300	125	200	1.83
T300/160	250	300	160	200	2.26
T300/200	300	300	200	200	3.06
T300/250	350	300	250	200	3.21
T300/300	400	300	300	200	3.68

Specification	A	D1	D2	B	Wgt. ~ kg/piece
PT80/80	150	80	80	70	1.26
PT100/80	150	100	80	80	1.32
PT100/100	165	100	100	80	1.44
PT125/80	150	125	80	90	1.48
PT125/100	165	125	100	90	1.60
PT125/125	200	125	125	90	1.84
PT150/80	150	150	80	105	1.80
PT150/100	165	150	100	105	1.86
PT150/125	200	150	125	105	1.98
PT150/150	220	150	150	105	2.05
PT160/80	150	160	80	109	1.83
PT160/100	165	160	100	109	1.84
PT160/125	200	160	125	109	1.98
PT160/160	250	160	160	109	2.20
PT175/80	150	175	80	115	1.98
PT175/100	165	175	100	115	2.04
PT175/125	200	175	125	115	2.35
PT175/150	250	175	150	115	2.54
PT175/175	250	175	175	115	2.60
PT200/80	150	200	80	140	2.04
PT200/100	165	200	100	140	2.6
PT200/125	200	200	125	140	2.48
PT200/150	250	200	150	140	2.68
PT200/160	250	200	160	140	3.03
PT200/175	250	200	175	140	3.28
PT200/200	300	200	200	140	3.57
PT250/80	180	250	80	165	1.81
PT250/100	200	250	100	165	2.13
PT250/125	225	250	125	165	2.36
PT250/160	250	250	160	165	2.81
PT250/200	300	250	200	165	3.28
PT250/250	350	250	250	165	3.97
PT300/100	200	300	100	200	2.50
PT300/125	225	300	125	200	3.00
PT300/160	250	300	160	200	3.50
PT300/200	300	300	200	200	4.10
PT300/250	350	300	250	200	4.76
PT300/300	400	300	300	200	5.81

Note. Specification T, PT or CT, CPT can be selected for ducts with diameters of  $\phi 300$  or greater.

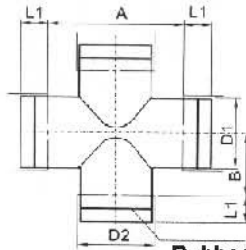
**Non-heat insulation reduced joint (F) and pre-heat insulation reduced joint (PF)**



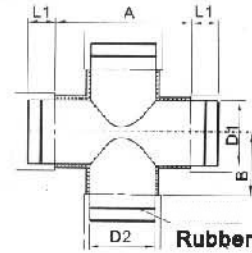
Specification	A	L	L1	L2	Wgt. =kg/piece
F100/80	69	130	40	40	0.22
F125/80	65	130	40	40	0.26
F125/100	72	130	40	40	0.28
F150/80	65	130	40	40	0.30
F150/100	69	130	40	40	0.33
F150/125	75	130	40	40	0.37
F160/80	64	130	40	40	0.32
F160/100	68	130	40	40	0.35
F160/125	72	130	40	40	0.39
F175/80	65	130	40	40	0.33
F175/100	68	130	40	40	0.37
F175/125	70	130	40	40	0.41
F175/150	73	130	40	40	0.46
F200/80	65	130	40	40	0.35
F200/100	67	130	40	40	0.42
F200/125	70	130	40	40	0.46
F200/150	73	130	40	40	0.51
F200/160	74	130	40	40	0.52
F200/175	75	130	40	40	0.55
F250/175	75	140	40	40	1.13
F250/200	75	140	40	40	1.20
F300/200	75	140	40	40	1.33
F300/250	75	140	40	40	1.47

Specification	A	L	L1	L2	Wgt. =kg/piece
PF100/80	69	130	40	40	0.55
PF125/80	65	130	40	40	0.61
PF125/100	72	130	40	40	0.65
PF150/80	65	130	40	40	0.68
PF150/100	69	130	40	40	0.78
PF150/125	75	130	40	40	0.83
PF160/80	64	130	40	40	0.70
PF160/100	68	130	40	40	0.74
PF160/125	72	130	40	40	0.85
PF175/80	65	130	40	40	0.74
PF175/100	68	130	40	40	0.91
PF175/125	70	130	40	40	1.02
PF175/150	73	130	40	40	1.21
PF200/80	65	130	40	40	0.82
PF200/100	67	130	40	40	0.90
PF200/125	70	130	40	40	0.98
PF200/150	73	130	40	40	1.18
PF200/160	74	130	40	40	1.29
PF200/175	75	130	40	40	1.33
PF250/175	75	140	40	40	2.60
PF250/200	75	140	40	40	2.78
PF300/200	75	140	40	40	3.08
PF300/250	75	140	40	40	3.40

Note. Reduced joints greater than Specification F400, PF400 are supplied according to customers.

**Non-heat insulation cross (X) and pre-heat insulation cross (PX)**


Rubber seal ring

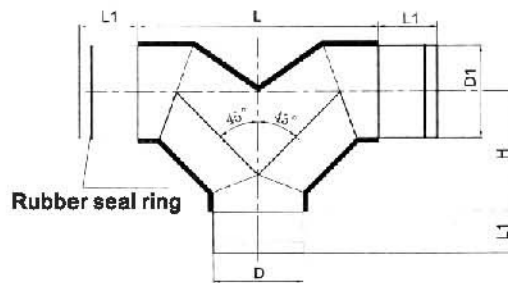
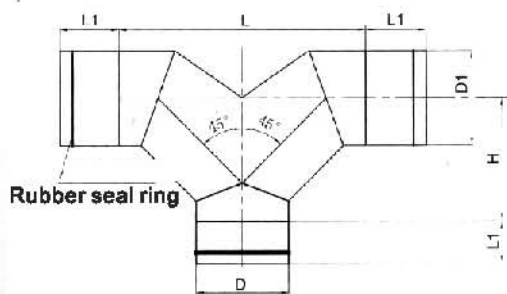


Rubber seal ring

Specification	A	D1	D2	B	Wgt. ~ kg/piece
X80/80	150	80	80	70	0.63
X100/80	150	100	80	80	0.74
X100/100	165	100	100	80	0.88
X125/80	150	125	80	90	0.94
X125/100	165	125	100	90	1.01
X125/125	200	125	125	90	1.08
X150/80	150	150	80	105	1.10
X150/100	165	150	100	105	1.14
X150/125	200	150	125	105	1.26
X152/150	220	150	150	105	1.68
X160/80	150	160	80	109	0.98
X160/100	165	160	100	106	1.20
X160/125	200	160	125	109	1.68
X160/160	210	160	160	109	2.10
X175/80	150	175	80	115	1.30
X175/100	165	175	100	115	1.48
X175/125	200	175	125	115	1.75
X175/150	250	175	150	115	1.98
X175/175	250	175	175	115	2.05
X200/80	150	200	80	140	1.55
X200/100	165	200	100	140	1.78
X200/125	200	200	125	140	1.96
X200/160	250	200	160	140	2.06
X200/200	300	200	200	140	2.48
X250/80	165	250	80	185	1.61
X250/100	200	250	100	185	1.90
X250/125	225	250	125	185	2.10
X250/160	275	250	160	185	2.49
X250/200	300	250	200	185	2.92
X250/250	350	250	250	200	3.55
X300/100	250	300	100	200	2.19
X300/125	250	300	125	195	2.63
X300/160	260	300	160	195	3.06
X300/200	300	300	200	210	3.45
X300/250	350	300	250	210	4.23
X300/300	370	300	300	210	5.16

Specification	A	D1	D2	B	Wgt. ~ kg/piece
PX80/80	150	80	80	70	0.63
PX100/80	150	100	80	80	0.74
PX100/100	165	100	100	80	0.88
PX125/80	150	125	80	90	0.94
PX125/100	165	125	100	90	1.01
PX125/125	200	125	125	90	1.08
P X150/80	150	150	80	105	1.74
PX150/100	165	150	100	105	1.80
PX150/125	200	150	125	105	2.84
PX152/150	220	150	150	105	2.30
PX160/80	150	160	80	109	0.98
PX160/100	165	160	100	106	1.20
PX160/125	200	160	125	109	1.68
PX160/160	210	160	160	109	2.10
PX175/80	150	175	80	115	1.98
PX175/100	165	175	100	115	2.18
PX175/125	200	175	125	115	2.50
PX175/150	250	175	150	115	2.78
PX175/175	250	175	175	115	3.04
PX200/80	150	200	80	140	1.55
PX200/100	165	200	100	140	2.52
PX200/125	200	200	125	140	3.08
PX200/160	250	200	160	140	3.54
PX200/200	300	200	200	140	4.45
PX250/80	165	250	80	185	2.45
PX250/100	200	250	100	185	2.88
PX250/125	225	250	125	185	6.01
PX250/160	275	250	160	185	4.46
PX250/200	300	250	200	185	4.82
PX250/250	350	250	250	200	5.25
PX300/100	250	300	100	200	3.35
PX300/125	250	300	125	195	4.05
PX300/160	260	300	160	195	4.66
PX300/200	300	300	200	210	6.35
PX300/250	350	300	250	210	6.25
X300/300	370	300	300	210	7.88

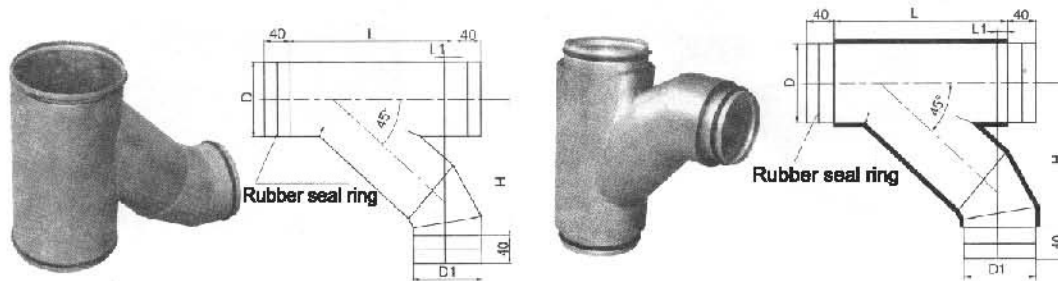
**Non-heat insulation T-piece (Y) and pre-heat insulation T-piece (PY)**



Specification	D	D1	L	H	L1
Y80/80	78	78	205	100	40
Y100/80	98	78	255	125	40
Y100/100	98	98	255	125	40
Y125/80	123	78	320	160	40
Y125/100	123	98	320	160	40
Y125/125	123	123	320	160	40
Y150/80	148	78	380	190	40
Y150/100	148	98	380	190	40
Y150/125	148	123	380	190	40
Y150/150	148	148	380	190	40
Y160/80	158	78	405	205	40
Y160/100	158	98	405	205	40
Y160/125	158	123	405	205	40
Y160/160	158	158	405	205	40
Y175/80	173	78	445	220	40
Y175/100	173	98	445	220	40
Y175/125	173	123	445	220	40
Y175/150	173	148	445	220	40
Y175/160	173	158	445	220	40
Y175/175	173	173	510	220	40
Y200/80	198	78	510	255	40
Y200/100	198	98	510	255	40
Y200/125	198	123	510	255	40
Y200/160	198	158	510	255	40
Y200/200	198	198	510	255	40

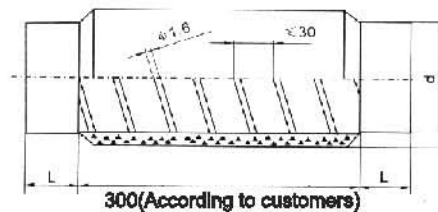
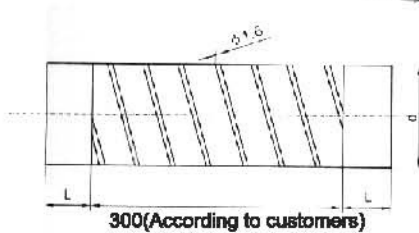
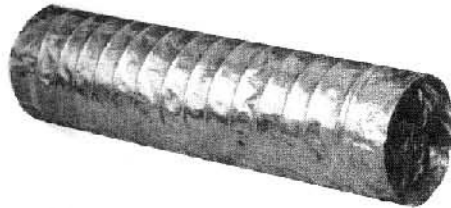
Specification	D	D1	L	H	L1
PY80/80	78	78	205	100	40
PY100/80	98	78	255	125	40
PY100/100	98	98	255	125	40
PY125/80	123	78	320	160	40
PY125/100	123	98	320	160	40
PY125/125	123	123	320	160	40
PY150/80	148	78	380	190	40
PY150/100	148	98	380	190	40
PY150/125	148	123	380	190	40
PY150/150	148	148	380	190	40
PY160/80	158	78	405	205	40
PY160/100	158	98	405	205	40
PY160/125	158	123	405	205	40
PY160/160	158	158	405	205	40
PY175/80	173	78	445	220	40
PY175/100	173	98	445	220	40
PY175/125	173	123	445	220	40
PY175/150	173	148	445	220	40
PY175/160	173	158	445	220	40
PY175/175	173	173	510	220	40
PY200/80	198	78	510	255	40
PY200/100	198	98	510	255	40
PY200/125	198	123	510	255	40
PY200/160	198	158	510	255	40
PY200/200	198	198	510	255	40

**45°non-heat insulation oblique T-piece (V) and 45°pre-heat insulation oblique T-piece (PV)**



Specification	D	D1	L	H	L1
V80/80	78	78	320	210	40
V100/80	98	78	320	220	40
V100/100	98	98	350	240	40
V125/80	123	78	320	230	40
V125/100	123	98	350	250	40
V125/125	123	123	390	280	45
V150/80	148	78	320	245	40
V150/100	148	98	350	265	40
V150/125	148	123	390	295	45
V150/150	148	148	425	320	50
V160/80	158	78	320	250	40
V160/100	158	98	350	270	40
V160/125	158	123	390	300	45
V160/160	158	158	440	335	50
V175/80	173	78	320	255	40
V175/100	173	98	350	280	40
V175/125	173	123	390	305	45
V175/150	173	148	425	335	50
V175/160	173	158	440	345	50
V175/175	173	173	465	360	50
V200/80	198	78	320	270	40
V200/100	198	98	350	290	40
V200/125	198	123	390	320	45
V200/160	198	158	440	355	50
V200/200	198	198	500	400	55

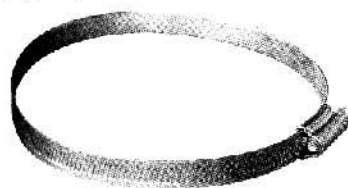
Specification	D	D1	L	H	L1
PV80/80	78	78	320	210	40
PV100/80	98	78	320	220	40
PV100/100	98	98	350	240	40
PV125/80	123	78	320	230	40
P V125/100	123	98	350	250	40
PV125/125	123	123	390	280	45
PV150/80	148	78	320	245	40
PV150/100	148	98	350	265	40
PV150/125	148	123	390	295	45
PV150/150	148	148	425	320	50
PV160/80	158	78	320	250	40
PV160/100	158	98	350	270	40
PV160/125	158	123	390	300	45
PV160/160	158	158	440	335	50
PV175/80	173	78	320	255	40
PV175/100	173	98	350	280	40
PV175/125	173	123	390	305	45
PV175/150	173	148	425	335	50
PV175/160	173	158	440	345	50
PV175/175	173	173	465	360	50
PV200/80	198	78	320	270	40
PV200/100	198	98	350	290	40
PV200/125	198	123	390	320	45
PV200/160	198	158	440	355	50
PV200/200	198	198	500	400	55

**Non-heat flexible tube (S) and pre-heat insulation flexible tube (PS)**


Specification	Internal tube d	L	Wgt. ~ kg/piece
S80	80	40	0.80
S100	100	40	0.95
S125	125	40	1.20
S150	150	40	1.50
S160	160	40	1.75
S175	175	40	1.95
S200	200	40	2.10
S250	250	40	2.30
S300	300	40	2.80

Specification	Internal tube d	L	Wgt. ~ kg/piece
PS80	80	40	1.06
PS100	100	40	1.31
PS125	125	40	1.71
PS150	150	40	2.11
PS160	160	40	2.27
PS175	175	40	2.51
PS200	200	40	2.91
PS250	250	40	3.71
PS300	300	40	3.96

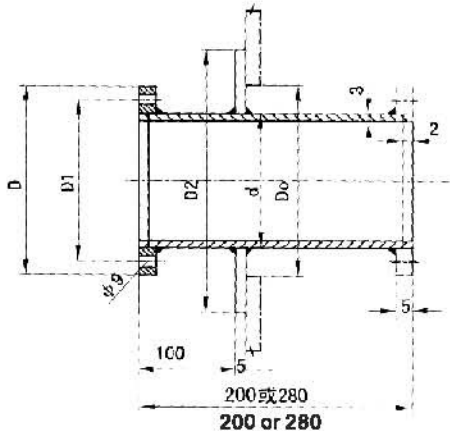
Note. Flexible tubes greater than Type S300 are supplied according to customers.

**Clip (SK)**


Specification	Internal dia.D	Matched duct	Wgt. ~ kg/piece
SK80	80-100	P(PR)80	0.125
SK100	100-120	P(PR)100	0.131
SK125	125-145	P(PR)125	0.140
SK150	150-170	P(PR)150	0.145
SK160	160-180	P(PR)160	0.151
SK175	175-195	P(PR)175	0.161
SK200	200-220	P(PR)200	0.168
SK250	250-270	P(PR)250	0.175
SK300	300-320	P(PR)300	0.190

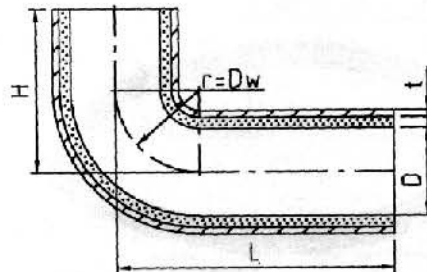
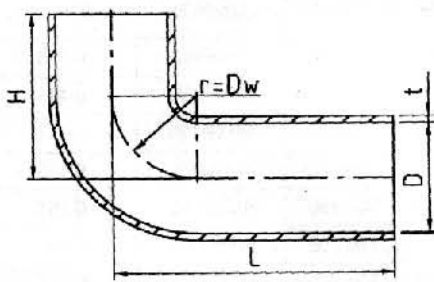
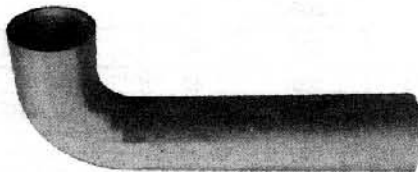
Note. Galvanized steel sheet materials Q235-A can be used for duct for general use. Stainless steel sheet plate with  $t = 0.8\text{mm}$  also can be selected if required from customers.

**Circular penetration piece A**



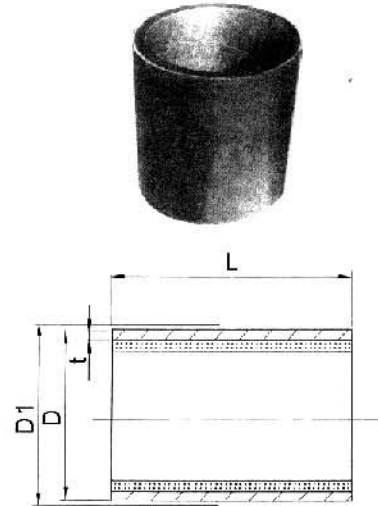
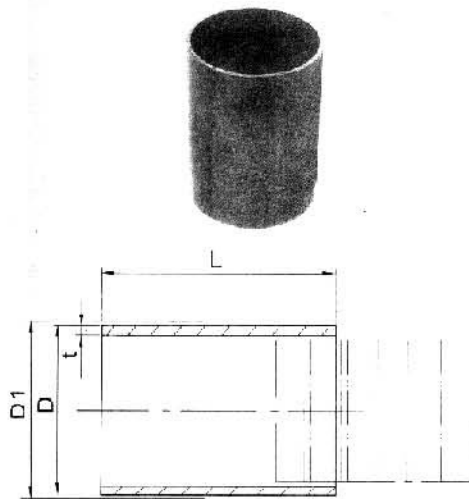
DN Nom. dia. DN	d	D	D1	D0	D2	No. of screw hole	Wgt. kg	
							L=200	L=280
80	86	135	116	140	190	4	2.7	3.2
100	106	155	136	160	210	6	3.1	3.8
125	131	180	161	185	235	6	3.9	4.6
150	156	205	186	210	260	6	4.3	5.2
175	181	230	211	235	285	8	4.9	6.3
200	206	255	236	260	310	8	5.5	6.5
250	256	305	286	310	360	12	7.5	9.4

**No-heat insulation special penetration piece (TG) and pre-heat insulation special penetration piece (PTG)**



Note. Dimension H, L, and Dw are determined by customers. For general use,  $r = D$

**No-heat insulation penetration piece (G) and pre-heat insulation penetration piece (PG)**



Specification	Ext.dia.D	Thickness T	L	Dia. of bulkhead hole D1	Wgt. ≈ kg/piece
G80/125	90	5	125	92	1.31
G80/200	90	5	200	92	2.10
G100/125	110	5	125	113	1.62
G100/200	110	5	200	113	2.59
G125/125	135	5	125	138	2.00
G125/200	135	5	200	138	3.20
G150/125	160	5	125	163	2.39
G150/200	160	5	200	163	3.82
G160/125	170	5	125	173	2.59
G160/200	170	5	200	173	4.15
G175/125	185	5	125	188	2.77
G175/200	185	5	200	188	4.44
G200/125	210	5	125	212	3.22
G200/200	210	5	200	213	5.15
G250/125	260	5	125	263	4.01
G250/200	260	5	200	263	6.40
G300/125	312	6	125	315	5.66
G300/200	312	6	200	315	9.06

Specification	Ext.dia.D	Thickness T	L	Dia. of bulkhead hole D1	Wgt. ≈ kg/piece
PG80/125	115	5	125	117	1.80
PG80/200	115	5	200	117	2.84
PG100/125	135	5	125	137	2.12
PG100/200	135	5	200	137	3.38
PG125/125	160	5	125	162	2.56
PG125/200	160	5	200	162	3.80
PG150/125	185	5	125	187	2.96
PG150/200	185	5	200	187	4.17
PG160/125	195	5	125	197	3.13
PG160/200	195	5	200	197	5.00
PG175/125	210	5	125	212	3.83
PG175/200	210	5	200	212	5.41
PG200/125	235	5	125	237	3.78
PG200/200	235	5	200	237	5.92
PG250/125	285	5	125	287	4.40
PG250/200	285	5	200	287	7.03
PG300/125	335	6	125	337	4.72
PG300/200	335	6	200	337	7.55

Note: Dimension L is determined by customers.



No-heat insulation penetration piece (H) and pre-heat insulation penetration piece (PH)

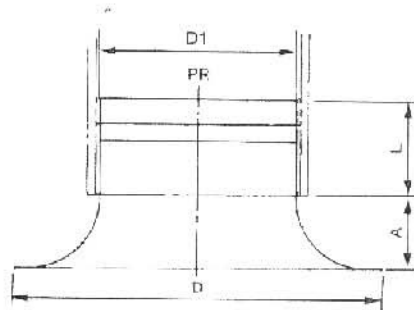


Specification DN	Int.dia. D	Thickness T	L	Dia. of bulkhead hole D1	Matched duct	Wgt. ~ kg/Piece
H80/125	105	5	125	117	R80	1.70
H80/200	105	5	200	117	R80	2.71
H100/125	125	5	125	137	R100	2.00
H100/200	125	5	200	137	R100	3.20
H125/125	150	5	125	162	R125	2.39
H125/200	150	5	200	162	R125	3.82
H150/125	175	5	125	187	R150	2.77
H150/200	175	5	200	187	R150	4.44
H160/125	185	5	125	198	R160	2.93
H160/200	185	5	200	198	R160	4.68
H175/125	200	5	125	213	R175	3.13
H175/200	200	5	200	213	R175	5.01
H200/125	225	5	125	238	R200	3.54
H200/200	225	5	200	238	R200	5.67
H250/125	275	5	125	288	R250	4.40
H250/200	275	5	200	288	R250	6.91
H300/125	325	5	125	338	R300	5.09
H300/200	325	5	200	338	R350	8.14
H400/125	425	6	125	438	R400	6.63
H400/200	425	6	200	438	R400	10.60
H500/200	525	8	200	538	R500	13.03
H700/200	725	8	200	738	R700	18.00

Specification DN	Int.dia. D	Thickness T	L	Dia. of bulkhead hole D1	Matched duct	Wgt. ~ kg/Piece
PH80/125	130	5	125	143	PR80	2.12
PH80/200	130	5	200	143	PR80	3.36
PH100/125	150	5	125	163	PR100	2.42
PH100/200	150	5	200	163	PR100	3.84
PH125/125	175	5	125	188	PR125	2.81
PH125/200	175	5	200	188	PR125	4.47
PH150/125	200	5	125	213	PR150	3.19
PH150/200	200	5	200	213	PR150	5.12
PH160/125	210	5	125	223	PR160	3.93
PH160/200	210	5	200	223	PR160	5.30
PH175/125	225	5	125	238	PR175	3.84
PH175/200	225	5	200	238	PR175	5.75
PH200/125	250	5	125	263	PR200	4.05
PH200/200	250	5	200	263	PR200	6.40
PH250/125	300	5	125	313	PR250	4.81
PH250/200	300	5	200	313	PR250	7.89
PH300/125	350	5	125	363	PR300	5.48
PH300/200	350	5	200	363	PR350	8.78
PH400/125	450	6	125	465	PR400	8.43
PH400/200	450	6	200	465	PR400	13.49
PH500/200	550	8	200	569	PR500	22.02
PH700/200	750	8	200	769	PR700	29.99

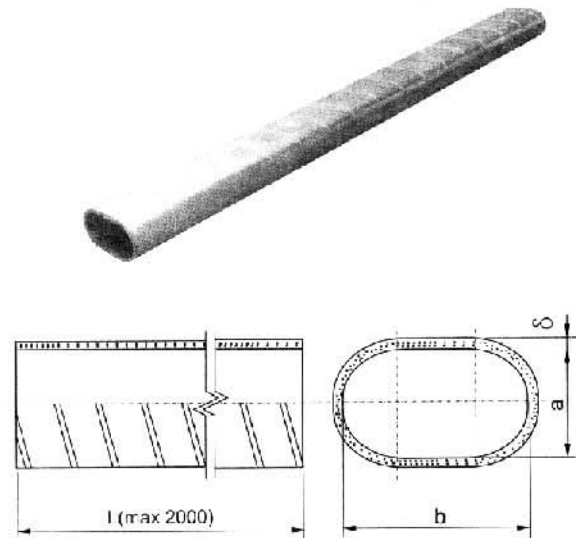
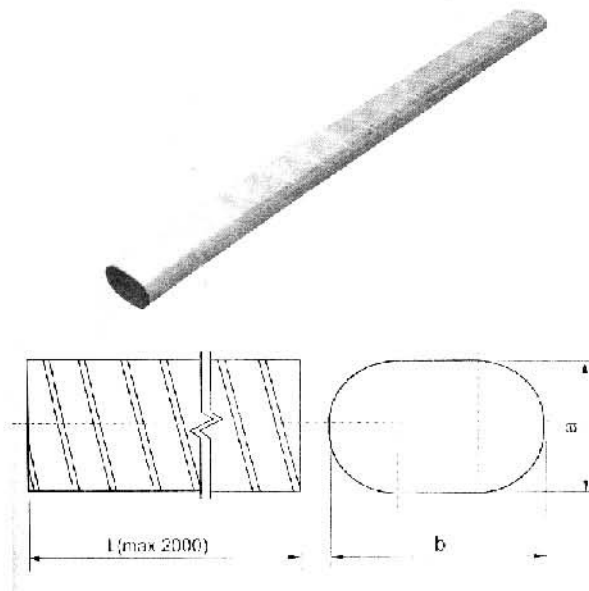
Note: Insulation thickness  $\delta = 12.5\text{mm}$  of matched duct is suitable for all specifications in table. The internal diameters correspondingly increase with 5mm and 25mm if insulation thickness  $\delta = 15\text{mm}$  or  $\delta = 25\text{mm}$  of matched duct are selected.

Branch (TC)



Specification	D	A	L	Wgt.kg
TC80	130	12	40	0.10
TC100	155	15	40	0.14
TC125	190	20	40	0.20
TC150	220	25	40	0.25
TC160	220	25	40	0.26
TC175	250	25	40	0.29
TC200	275	25	40	0.32

**Non-heat insulation oblate spiral duct (BR) and pre-heat insulation oblate spiral duct (AR)**

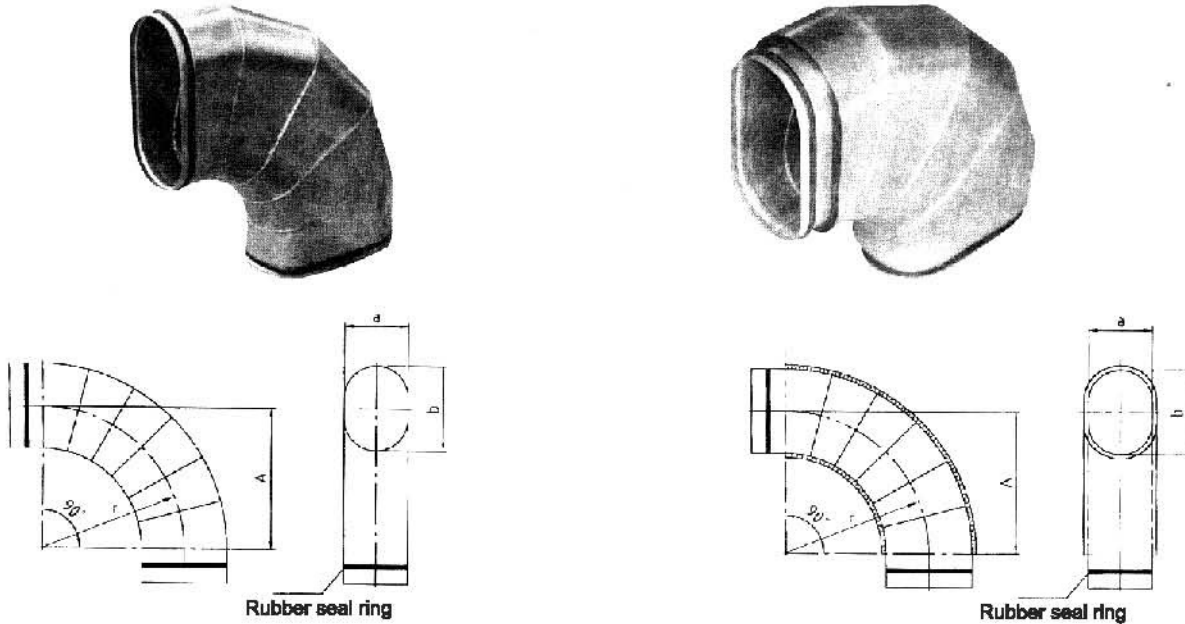


Specification	Process circle dia. D	a	b	Wgt. ≈ kg/m
BR125	150	90	184	2.52
BR150	175	100	218	3.07
BR160	190	115	233	3.30
BR175	215	125	266	3.55
BR200	250	140	312	4.18
BR230	250	150	307	4.19
BR240	275	150	346	5.03
BR250	300	150	386	5.26
BR270	325	150	425	5.69
BR300	360	200	452	6.31
BR345	400	200	514	6.70
BR360	420	250	517	9.81
BR430	500	250	643	9.86
BR455	500	300	614	9.86
BR485	560	300	708	11.00
BR510	560	350	680	11.00
BR535	560	400	650	11.00
BR625	660	450	780	13.20
BR635	660	500	751	13.20
BR675	700	500	814	13.80
BR710	760	500	908	17.06
BR900	1120	500	1473	31.38
BR945	1250	500	1677	31.45

Specification	Process circle dia.		a	b	Wgt. ≈ kg/m
	Int. dia.	Ext. dia.			
AR100	125	150	75	154	4.35
AR125	150	175	90	184	4.78
AR150	175	200	100	218	6.57
AR160	190	215	115	233	6.80
AR175	215	240	125	266	7.32
AR200	250	275	140	312	8.40
AR230	250	275	150	307	8.38
AR240	275	300	150	346	10.06
AR250	300	325	150	386	10.94
AR270	325	350	150	425	11.82
AR300	360	385	200	452	13.05
AR345	400	425	200	514	16.93
AR360	420	445	250	517	20.19
AR430	500	525	250	643	23.93
AR455	500	525	300	614	23.93
AR485	560	585	300	708	26.73
AR510	560	585	350	680	26.73
AR535	560	585	400	650	26.73
AR625	660	685	450	780	31.40
AR635	660	685	500	751	31.40
AR675	700	725	500	814	33.06
AR710	760	785	500	908	38.40
AR900	1120	1145	500	1473	66.08
AR945	1250	1275	500	1677	69.90

Note. Generally insulation thickness  $\delta = 12.5\text{mm}$  of duct is suitable for type  $AR \leq 240$ , and insulation thickness  $\delta = 15\text{mm}$  is suitable for type  $345 \leq AR \leq 945$ . Insulation thickness also can be decided by customers.

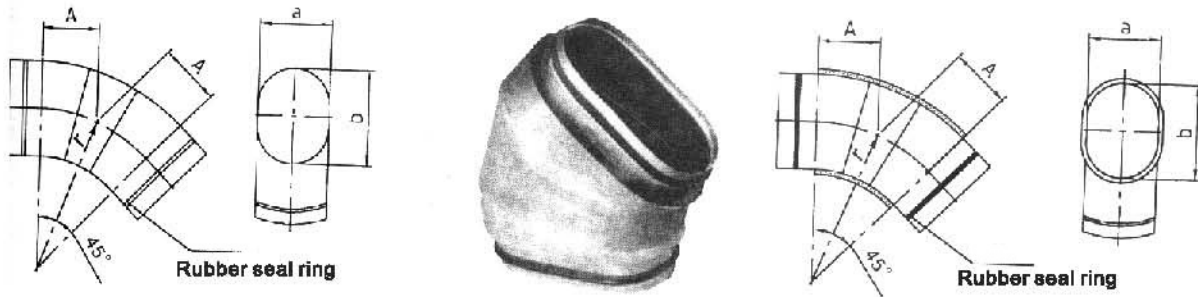
90°non-heat insulation oblate short axis bend (BB) and 90°pre-heat insulation oblate short axis bend (AB)



Specification	Process circle dia.	a	b	A	Wgt. ~ kg/piece
BB100/90°	125	75	154	154	0.76
BB125/90°	150	90	184	184	1.05
BB160/90°	190	115	233	233	1.58
BB175/90°	215	125	266	266	1.90
BB200/90°	250	140	312	312	2.02
BB230/90°	250	150	307	307	2.68
BB240/90°	275	150	346	346	3.32
BB345/90°	400	200	514	514	7.17
BB430/90°	500	250	643	643	14.95
BB455/90°	500	300	614	614	14.27
BB485/90°	560	300	708	708	18.43
BB510/90°	560	350	680	680	17.70
BB535/90°	560	400	651	651	16.95
BB625/90°	660	450	780	780	24.76
BB635/90°	660	500	751	751	23.89
BB675/90°	700	500	814	814	26.49
BB710/90°	760	500	908	908	30.14
BB900/90°	1120	500	1473	1473	66.18
BB945/90°	1250	500	1677	1677	79.36

Specification	Process circle dia.	a	b	A	Wgt. ~ kg/piece
BB100/90°	125	75	154	154	1.37
BB125/90°	150	90	184	184	1.82
BB160/90°	190	115	233	233	3.00
BB175/90°	215	125	266	266	3.80
BB200/90°	250	140	312	312	4.40
BB230/90°	250	150	307	307	5.40
BB240/90°	275	150	346	346	6.70
BB345/90°	400	200	514	514	14.70
BB430/90°	500	250	643	643	30.0
BB455/90°	500	300	614	614	28.80
BB485/90°	560	300	708	708	37.2
BB510/90°	560	350	680	680	36.4
BB535/90°	560	400	651	651	33.20
BB625/90°	660	450	780	780	50.00
BB635/90°	660	500	751	751	47.00
BB675/90°	700	500	814	814	53.00
BB710/90°	760	500	908	908	54.14
BB900/90°	1120	500	1473	1473	109.15
BB945/90°	1250	500	1677	1677	129.07

Note. r = b. Process circle diameter greater than 400mm, rubber seal ring not applied.

**45°non-heat insulation oblate short axis bend (BB) and 45°pre-heat insulation oblate short axis bend (AB)**


Specification	Process circle dia.	a	b	A	Wgt. ≈ kg/piece
BB100/45°	125	75	154	59	0.53
BB125/45°	150	90	184	70	0.68
BB160/45°	190	115	233	89	1.00
BB175/45°	215	125	266	102	1.20
BB200/45°	250	140	312	119	1.31
BB230/45°	250	150	307	117	1.34
BB240/45°	275	150	346	132	1.66
BB345/45°	400	200	514	197	3.59
BB430/45°	500	250	643	246	7.51
BB455/45°	500	300	614	235	7.14
BB485/45°	560	300	708	271	9.22
BB510/45°	560	350	680	260	8.85
BB535/45°	560	400	651	249	8.52
BB625/45°	660	450	780	304	12.38
BB635/45°	660	500	751	294	11.8
BB675/45°	700	500	814	312	13.25
BB710/45°	760	500	908	350	16.58
BB900/45°	1120	500	1473	566	44.03
BB945/45°	1250	500	1677	628	52.5

Specification	Process circle dia.	a	b	A	Wgt. ≈ kg/piece
AB100/45°	125	75	154	59	0.97
AB125/45°	150	90	184	70	1.21
AB160/45°	190	115	233	89	1.90
AB175/45°	215	125	266	102	2.08
AB200/45°	250	140	312	119	2.20
AB230/45°	250	150	307	117	2.68
AB240/45°	275	150	346	132	3.23
AB345/45°	400	200	514	197	7.17
AB430/45°	500	250	643	246	14.95
AB455/45°	500	300	614	235	14.27
AB485/45°	560	300	708	271	18.43
AB510/45°	560	350	680	260	17.70
AB535/45°	560	400	651	249	16.95
AB625/45°	660	450	780	304	24.76
AB635/45°	660	500	751	294	23.89
AB675/45°	700	500	814	312	26.49
AB710/45°	760	500	908	350	30.33
AB900/45°	1120	500	1473	566	52.27
AB945/45°	1250	500	1677	628	62.43

Note.  $r = b$ . Process circle diameter greater than 400mm, rubber seal ring not applied.

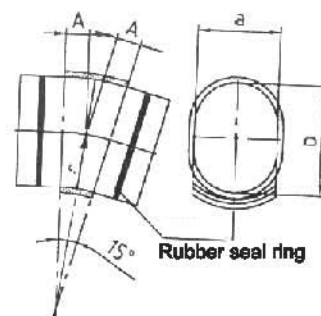
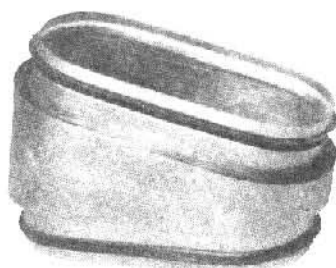
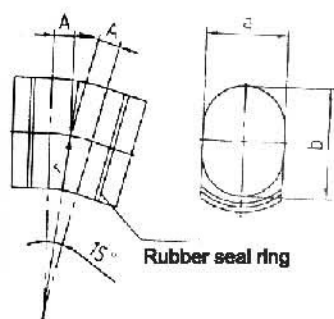
30°non-heat insulation oblate short axis bend (BB) and 30°pre-heat insulation oblate short axis bend (AB)



Specification	Process circle dia.	a	b	A	Wgt. ~ kg/piece
BB100/30°	125	75	154	40	0.53
BB125/30°	150	90	184	48	0.68
BB160/30°	190	115	233	60	1.00
BB175/30°	215	125	266	69	1.20
BB200/30°	250	140	312	81	1.31
BB230/30°	250	150	307	79	1.34
BB240/30°	275	150	346	90	1.66
BB345/30°	400	200	514	133	3.59
BB430/30°	500	250	643	166	7.51
BB455/30°	500	300	614	159	7.14
BB485/30°	560	300	708	183	9.22
BB510/30°	560	350	680	176	8.85
BB535/30°	560	400	651	168	8.52
BB625/30°	660	450	780	206	12.38
BB635/30°	660	500	751	199	11.8
BB675/30°	700	500	814	211	13.25
BB710/30°	760	500	908	237	16.58
BB900/30°	1120	500	1473	383	24.43
BB945/30°	1250	500	1677	424	27.26

Specification	Process circle dia.	a	b	A	Wgt. ~ kg/piece
AB100/30°	125	75	154	40	0.80
AB125/30°	150	90	184	48	1.01
AB160/30°	190	115	233	60	1.52
AB175/30°	215	125	266	69	1.62
AB200/30°	250	140	312	81	1.71
AB230/30°	250	150	307	79	2.50
AB240/30°	275	150	346	90	3.02
AB345/30°	400	200	514	133	6.30
AB430/30°	500	250	643	166	9.02
AB455/30°	500	300	614	159	9.62
AB485/30°	560	300	708	183	12.40
AB510/30°	560	350	680	176	11.96
AB535/30°	560	400	651	168	11.48
AB625/30°	660	450	780	206	16.80
AB635/30°	660	500	751	199	16.81
AB675/30°	700	500	814	211	17.80
AB710/30°	760	500	908	237	18.73
AB900/30°	1120	500	1473	383	27.60
AB945/30°	1250	500	1677	424	30.80

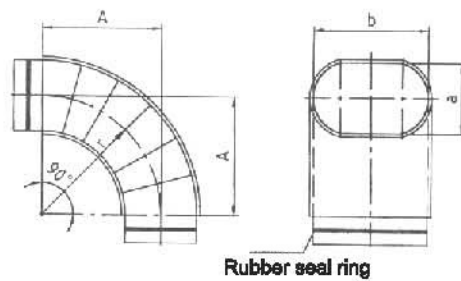
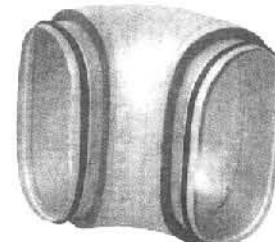
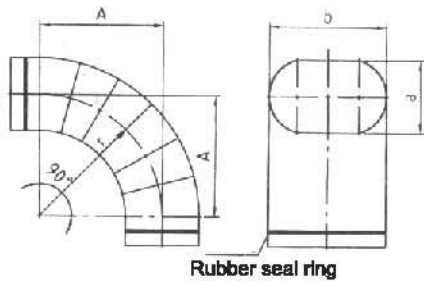
Note. r = b. Process circle diameter greater than 400mm, rubber seal ring not applied.

**15°non-heat insulation oblate short axis bend (BB) and 15°pre-heat insulation oblate short axis bend (AB)**


Specification	Process circle dia.	a	b	A	Wgt. ≈ kg/pece
BB100/15°	125	75	154	20	0.37
BB125/15°	150	90	184	24	0.46
BB160/15°	190	115	233	30	0.61
BB175/15°	215	125	266	35	0.72
BB200/15°	250	140	312	41	0.85
BB230/15°	250	150	307	10	0.65
BB240/15°	275	150	346	45	0.75
BB345/15°	400	200	514	67	1.60
BB430/15°	500	250	643	84	2.52
BB455/15°	500	300	614	80	2.42
BB485/15°	560	300	708	92	3.01
BB510/15°	560	350	680	89	2.98
BB535/15°	560	400	651	85	2.98
BB625/15°	660	450	780	104	4.20
BB635/15°	660	500	751	100	4.10
BB675/15°	700	500	814	106	4.50
BB710/15°	760	500	908	119	7.54
BB900/15°	1120	500	1473	193	18.23
BB945/15°	1250	500	1677	214	21.37

Specification	Process circle dia.	a	b	A	Wgt. ≈ kg/pece
AB100/15°	125	75	154	20	0.66
AB125/15°	150	90	184	24	0.81
AB160/15°	190	115	233	30	1.17
AB175/15°	215	125	266	35	1.28
AB200/15°	250	140	312	41	1.36
AB230/15°	250	150	307	10	1.20
AB240/15°	275	150	346	45	1.47
AB345/15°	400	200	514	67	3.19
AB430/15°	500	250	643	84	4.98
AB455/15°	500	300	614	80	4.76
AB485/15°	560	300	708	92	5.94
AB510/15°	560	350	680	89	5.90
AB535/15°	560	400	651	85	5.90
AB625/15°	660	450	780	104	8.23
AB635/15°	660	500	751	100	7.07
AB675/15°	700	500	814	106	8.83
AB710/15°	760	500	908	119	9.87
AB900/15°	1120	500	1473	193	23.72
AB945/15°	1250	500	1677	214	27.99

Note.  $r = b$ . Process circle diameter greater than 400mm, rubber seal ring not applied.

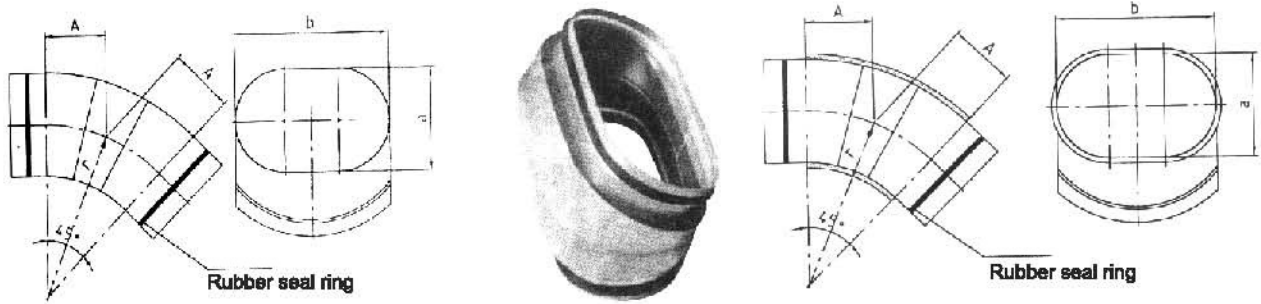
**90°non-heat insulation oblate short axis bend (BW) and 90°pre-heat insulation oblate short axis bend (AW)**


Specification	Process circle dia.	a	b	A	Wgt. ~ kg/piece
BW100/90°	125	75	154	75	0.63
BW125/90°	150	90	184	90	0.81
BW160/90°	190	115	233	115	1.19
BW175/90°	215	125	266	125	1.37
BW200/90°	250	140	312	140	1.48
BW230/90°	250	150	307	150	1.74
BW240/90°	275	150	346	150	1.92
BW345/90°	400	200	514	200	3.72
BW430/90°	500	250	643	250	5.81
BW455/90°	500	300	614	300	6.97
BW485/90°	560	300	708	300	7.81
BW510/90°	560	350	680	350	9.11
BW535/90°	560	400	651	400	10.41
BW625/90°	660	450	780	450	14.02
BW635/90°	660	500	751	500	15.57
BW675/90°	700	500	814	500	16.27
BW710/90°	760	500	908	500	17.88
BW900/90°	1120	500	1473	500	26.23
BW945/90°	1250	500	1677	500	28.56

Specification	Process circle dia.	a	b	A	Wgt. ~ kg/piece
AW100/90°	125	75	154	75	1.30
AW125/90°	150	90	184	90	1.56
AW160/90°	190	115	233	115	2.39
AW175/90°	215	125	266	125	2.54
AW200/90°	250	140	312	140	2.68
AW230/90°	250	150	307	150	3.54
AW240/90°	275	150	346	150	3.91
AW345/90°	400	200	514	200	8.38
AW430/90°	500	250	643	250	11.71
AW455/90°	500	300	614	300	14.17
AW485/90°	560	300	708	300	15.71
AW510/90°	560	350	680	350	18.31
AW535/90°	560	400	651	400	20.91
AW625/90°	660	450	780	450	28.12
AW635/90°	660	500	751	500	31.40
AW675/90°	700	500	814	500	33.27
AW710/90°	760	500	908	500	25.49
AW900/90°	1120	500	1473	500	37.13
AW945/90°	1250	500	1677	500	40.62

Note.  $r = a$ . Process circle diameter greater than 400mm, rubber seal ring not applied.

**45°non-heat insulation oblate short axis bend (BW) and 45°pre-heat insulation oblate short axis bend (AW)**



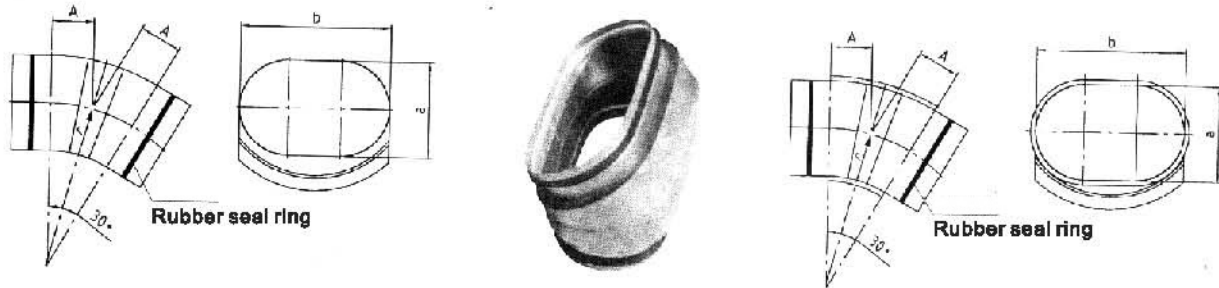
Specification	Process circle dia.	a	b	A	Wgt. ≈ kg/piece
BW100/45°	125	75	154	29	0.49
BW125/45°	150	90	184	34	0.58
BW160/45°	190	115	233	44	0.80
BW175/45°	215	125	266	48	0.92
BW200/45°	250	140	312	54	1.04
BW230/45°	250	150	307	57	0.91
BW240/45°	275	150	346	57	0.96
BW345/45°	400	200	514	77	1.86
BW430/45°	500	250	843	98	2.90
BW455/45°	500	300	614	115	2.49
BW485/45°	560	300	708	115	3.90
BW510/45°	560	350	680	134	4.60
BW535/45°	560	400	651	154	5.20
BW625/45°	660	450	780	172	7.01
BW635/45°	660	500	751	191	7.80
BW675/45°	700	500	814	191	8.20
BW710/45°	760	500	908	191	10.43
BW900/45°	1120	500	1473	191	18.40
BW945/45°	1250	500	1677	191	20.04

Specification	Process circle dia.	a	b	A	Wgt. ≈ kg/piece
AW100/90°	125	75	154	29	0.92
AW125/90°	150	90	184	34	1.10
AW160/90°	190	115	233	44	1.59
AW175/90°	215	125	266	48	1.72
AW200/90°	250	140	312	54	1.80
AW230/90°	250	150	307	57	1.74
AW240/90°	275	150	346	57	1.92
AW345/90°	400	200	514	77	3.72
AW430/90°	500	250	843	98	5.81
AW455/90°	500	300	614	115	6.97
AW485/90°	560	300	708	115	7.81
AW510/90°	560	350	680	134	9.1
AW535/90°	560	400	651	154	10.41
AW625/90°	660	450	780	172	14.02
AW635/90°	660	500	751	191	15.57
AW675/90°	700	500	814	191	16.27
AW710/90°	760	500	908	191	17.26
AW900/90°	1120	500	1473	191	26.97
AW945/90°	1250	500	1677	191	29.09

Note. r = a. Process circle diameter greater than 400mm, rubber seal ring not applied.



30°non-heat insulation oblate short axis bend (BW) and 30°pre-heat insulation oblate short axis bend (AW)

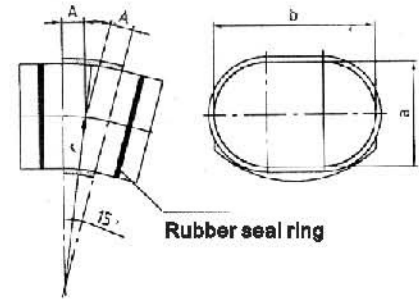
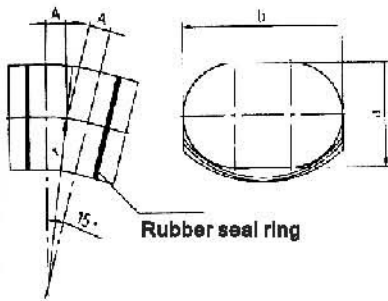


Specification	Process circle dia.	a	b	A	Wgt. ~ kg/piece
BW100/30°	125	75	154	19	0.42
BW125/30°	150	90	184	23	0.50
BW160/30°	190	115	233	30	0.68
BW175/30°	215	125	266	32	0.79
BW200/30°	250	140	312	36	0.86
BW230/30°	250	150	307	39	0.78
BW240/30°	275	150	346	39	0.84
BW345/30°	400	200	514	52	1.24
BW430/30°	500	250	643	65	1.94
BW455/30°	500	300	614	78	2.32
BW485/30°	560	300	708	78	2.60
BW510/30°	560	350	680	91	3.04
BW535/30°	560	400	651	104	3.47
BW625/30°	660	450	780	116	4.67
BW635/30°	660	500	751	129	5.19
BW675/30°	700	500	814	129	5.42
BW710/30°	760	500	908	129	7.96
BW900/30°	1120	500	1473	129	11.70
BW945/30°	1250	500	1677	129	12.74

Specification	Process circle dia.	a	b	A	Wgt. ~ kg/piece
AW100/90°	125	75	154	19	0.78
AW125/90°	150	90	184	23	0.93
AW160/90°	190	115	233	30	1.37
AW175/90°	215	125	266	32	1.46
AW200/90°	250	140	312	36	1.53
AW230/90°	250	150	307	39	1.16
AW240/90°	275	150	346	39	1.28
AW345/90°	400	200	514	52	2.48
AW430/90°	500	250	643	65	3.88
AW455/90°	500	300	614	78	4.64
AW485/90°	560	300	708	78	5.21
AW510/90°	560	350	680	91	6.08
AW535/90°	560	400	651	104	6.94
AW625/90°	660	450	780	116	9.34
AW635/90°	660	500	751	129	10.38
AW675/90°	700	500	814	129	10.84
AW710/90°	760	500	908	129	10.51
AW900/90°	1120	500	1473	129	15.41
AW945/90°	1250	500	1677	129	16.78

Note. r = a. Process circle diameter greater than 400mm, rubber seal ring not applied.

**15°non-heat insulation oblate short axis bend (BW) and 15°pre-heat insulation oblate short axis bend (AW)**

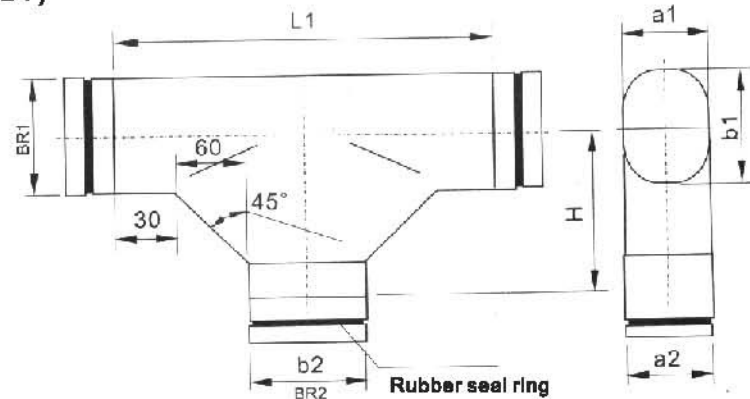


Specification	Process circle dia.	a	b	A	Wgt. ≈ kg/piece
BW100/15°	125	75	154	10	0.36
BW125/15°	150	90	184	12	0.43
BW160/15°	190	115	233	15	0.58
BW175/15°	215	125	266	16	0.65
BW200/15°	250	140	312	18	0.73
BW230/15°	250	150	307	20	0.72
BW240/15°	275	150	346	20	0.75
BW345/15°	400	200	514	26	0.82
BW430/15°	500	250	643	33	0.97
BW455/15°	500	300	614	39	0.93
BW485/15°	560	300	708	39	1.30
BW510/15°	560	350	680	46	1.53
BW535/15°	560	400	651	52	1.65
BW625/15°	660	450	780	59	2.34
BW635/15°	660	500	751	65	4.60
BW675/15°	700	500	814	65	4.73
BW710/15°	760	500	908	65	5.49
BW900/15°	1120	500	1473	65	8.07
BW945/15°	1250	500	1677	65	8.79

Specification	Process circle dia.	a	b	A	Wgt. ≈ kg/piece
AW100/15°	125	75	154	10	0.60
AW125/15°	150	90	184	12	0.78
AW160/15°	190	115	233	15	1.05
AW175/15°	215	125	266	16	1.20
AW200/15°	250	140	312	18	1.27
AW230/15°	250	150	307	20	1.41
AW240/15°	275	150	346	20	1.52
AW345/15°	400	200	514	26	1.62
AW430/15°	500	250	643	33	1.81
AW455/15°	500	300	614	39	1.80
AW485/15°	560	300	708	39	2.61
AW510/15°	560	350	680	46	3.06
AW535/15°	560	400	651	52	3.36
AW625/15°	660	450	780	59	4.68
AW635/15°	660	500	751	65	5.20
AW675/15°	700	500	814	65	5.46
AW710/15°	760	500	908	65	6.77
AW900/15°	1120	500	1473	65	9.93
AW945/15°	1250	500	1677	65	10.81

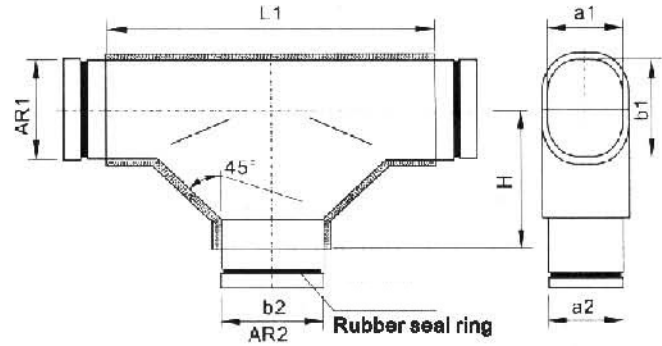
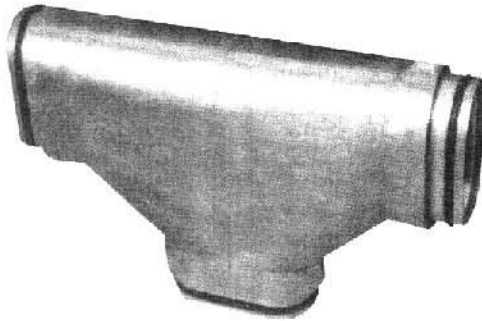
Note. r = a. Process circle diameter greater than 400mm, rubber seal ring not applied.

**Non-heat insulation oblate T-piece (BT)**

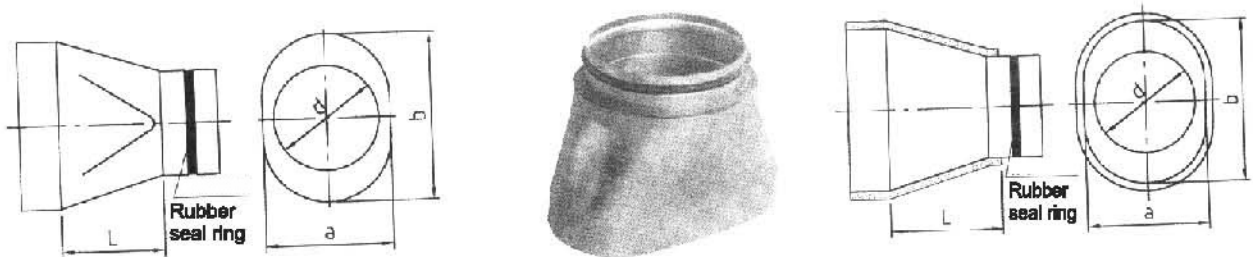


Specification	R1	R2	L1	H	a1	b1	a2	b2	Wgt. ~kg/piece
BT100/100	100	100	334	167	75	154	75	154	1.53
BT125/100	125	100	334	182	90	184	75	154	1.58
BT125/125	125	125	364	182	90	184	90	184	1.60
BT160/100	160	100	334	207	115	233	75	154	1.92
BT160/125	160	125	364	207	115	233	90	184	2.05
BT160/160	160	160	413	207	115	233	115	233	2.12
BT175/100	175	100	334	223	125	266	75	154	2.14
BT175/125	175	125	364	223	125	266	90	184	2.18
BT175/160	175	160	413	223	125	266	115	233	2.26
BT175/175	175	175	446	223	125	266	125	266	2.40
BT200/100	200	100	334	246	140	312	75	154	2.56
BT200/125	200	125	364	246	140	312	90	184	2.66
BT200/160	200	160	413	246	140	312	115	233	2.68
BT200/175	200	175	446	246	140	312	125	266	2.70
BT200/200	200	200	492	246	140	312	140	312	2.72
BT230/230	230	230	487	244	150	307	150	307	3.60
BT240/230	240	230	487	263	150	346	150	307	3.94
BT240/240	240	240	526	263	150	346	150	346	4.28
BT345/230	345	230	487	347	200	514	150	307	5.55
BT345/240	345	240	526	347	200	514	150	346	6.03
BT345/345	345	345	694	347	200	514	200	514	8.22

**Non-heat insulation oblate T-piece (AT)**



Specification	AR1	AR2	L1	H	a1	b1	a2	b2	Wgt. ≈kg/piece
AT100/100	100	100	334	167	75	154	75	154	2.99
AT125/100	125	100	334	182	90	184	75	154	3.02
AT125/125	125	125	364	182	90	184	90	184	3.16
AT160/100	160	100	334	207	115	233	75	154	3.78
AT160/125	160	125	364	207	115	233	90	184	3.96
AT160/160	160	160	413	207	115	233	115	233	4.02
AT175/100	175	100	334	223	125	266	75	154	4.20
AT175/125	175	125	364	223	125	266	90	184	4.36
AT175/160	175	160	413	223	125	266	115	233	4.40
AT175/175	175	175	446	223	125	266	125	266	4.75
AT200/100	200	100	334	246	140	312	75	154	4.96
AT200/125	200	125	364	246	140	312	90	184	5.12
AT200/160	200	160	413	246	140	312	115	233	5.18
AT200/175	200	175	446	246	140	312	125	266	5.23
AT200/200	200	200	492	246	140	312	140	312	5.37
AT230/230	230	230	487	244	150	307	150	307	7.20
AT240/230	240	230	487	263	150	346	150	307	7.88
AT240/240	240	240	526	263	150	346	150	346	8.56
AT345/230	345	230	487	347	200	514	150	307	11.10
AT345/240	345	240	526	347	200	514	150	346	12.06
AT345/345	345	345	694	347	200	514	200	514	16.44

**Non-heat insulation oblate reduced joint (BC) and pre-heat insulation oblate reduced joint (AC)**


Specification	Process circle dia.	d	a	b	L	Wgt. ~kg
BC125/80	150	80	90	184	90	0.29
BC125/100	150	100	90	184	90	0.32
BC125/125	150	125	90	184	90	0.36
BC160/80	190	80	115	233	110	0.39
BC160/100	190	100	115	233	110	0.40
BC160/125	190	125	115	233	110	0.43
BC160/150	190	150	115	233	110	0.45
BC160/160	190	160	115	233	110	0.47
BC175/125	215	125	125	266	110	0.49
BC175/150	215	150	125	266	110	0.50
BC175/160	215	180	125	266	110	0.54
BC175/175	215	175	125	266	110	0.58
BC200/150	250	150	140	312	110	0.63
BC200/160	250	160	140	312	110	0.66
BC200/175	250	175	140	312	110	0.69
BC200/200	250	200	140	312	110	0.72
BC230/80	250	80	150	307	200	0.97
BC230/100	250	100	150	307	200	1.07
BC230/125	250	125	150	307	200	1.20
BC240/80	275	80	150	346	200	1.16
BC240/100	275	100	150	346	200	1.17
BC240/125	275	125	150	346	200	1.32
BC345/80	400	80	200	514	200	1.55
BC345/100	400	100	200	514	200	1.71
BC345/125	400	125	200	514	200	1.92
BC345/150	400	150	200	514	200	1.98
BC345/160	400	100	200	514	200	2.12

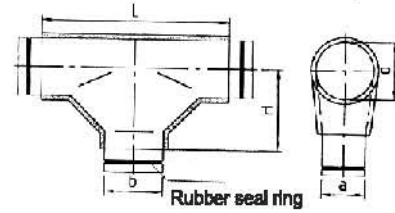
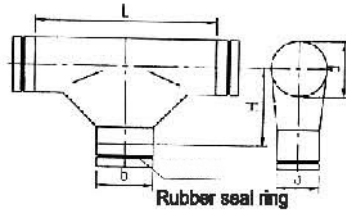
Specification	Process circle dia.	d	a	b	L	Wgt. ~kg
AC125/80	150	80	90	184	90	0.58
AC125/100	150	100	90	184	90	0.64
AC125/125	150	125	90	184	90	0.72
AC160/80	190	80	115	233	110	0.78
AC160/100	190	100	115	233	110	0.80
AC160/125	190	125	115	233	110	0.86
AC160/150	190	150	115	233	110	0.90
AC160/160	190	160	115	233	110	0.94
AC175/125	215	125	125	266	110	0.98
AC175/150	215	150	125	266	110	1.00
AC175/160	215	180	125	266	110	1.08
AC175/175	215	175	125	266	110	1.16
AC200/150	250	150	140	312	110	1.26
AC200/160	250	160	140	312	110	1.32
AC200/175	250	175	140	312	110	1.38
AC200/200	250	200	140	312	110	1.44
AC230/80	250	80	150	307	200	1.94
AC230/100	250	100	150	307	200	2.04
AC230/125	250	125	150	307	200	2.40
AC240/80	275	80	150	346	200	2.52
AC240/100	275	100	150	346	200	2.48
AC240/125	275	125	150	346	200	2.88
AC345/80	400	80	200	514	200	3.23
AC345/100	400	100	200	514	200	3.59
AC345/125	400	125	200	514	200	4.03
AC345/150	400	150	200	514	200	4.16
AC345/160	400	100	200	514	200	4.45

**Non-heat insulation oblate reduced joint (BF) and pre-heat insulation oblate reduced joint (AF)**



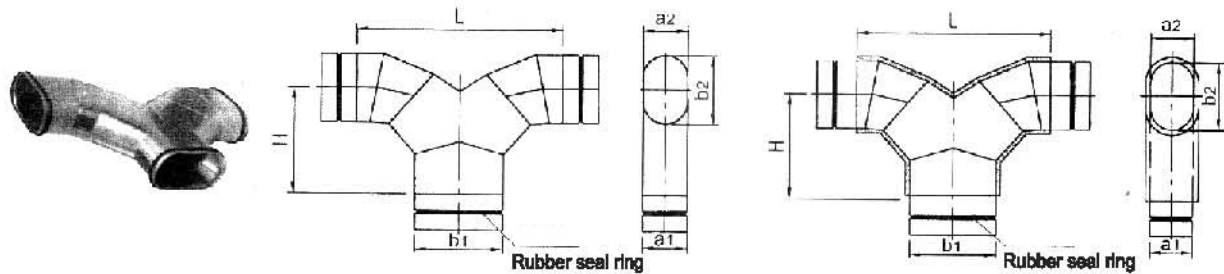
Specification	Process circle dia.	a2	b2	a1	b1	L	Wgt. ~kg
BF125/100	150/125	90	184	75	154	100	0.35
BF160/100	190/125	115	233	75	154	100	0.44
BF160/125	190/150	115	233	90	184	100	0.47
BF175/100	215/125	125	266	75	154	100	0.58
BF175/125	215/150	125	266	90	184	100	0.59
BF175/160	215/190	125	266	115	233	100	0.65
BF200/100	250/125	140	312	75	154	100	0.62
BF200/125	250/150	140	312	90	184	100	0.63
BF200/160	250/190	140	312	115	233	100	0.66
BF200/175	250/215	140	312	125	266	100	0.68
BF240/230	275/250	150	346	150	307	200	1.45
BF345/230	400/250	200	514	150	307	200	1.78
BF345/240	400/275	200	514	150	346	200	1.88

Specification	Process circle dia.	a2	b2	a1	b1	L	Wgt. ~kg
AF125/100	150/125	90	184	75	154	100	0.74
AF160/100	190/125	115	233	75	154	100	0.96
AF160/125	190/150	115	233	90	184	100	1.02
AF175/100	215/125	125	266	75	154	100	1.02
AF175/125	215/150	125	266	90	184	100	1.07
AF175/160	215/190	125	266	115	233	100	1.11
AF200/100	250/125	140	312	75	154	100	1.14
AF200/125	250/150	140	312	90	184	100	1.17
AF200/160	250/190	140	312	115	233	100	1.20
AF200/175	250/215	140	312	125	266	100	1.24
AF240/230	275/250	150	346	150	307	200	2.90
AF345/230	400/250	200	514	150	307	200	3.52
AF345/240	400/275	200	514	150	346	200	3.76

**Non-heat insulation oblate T-piece (main duct round, branch oblate) (B3) and pre-heat insulation oblate T-piece (main duct round, branch oblate) (A3)**


Specification	Process circle dia.	a	b	d	L	H	Wgt. ~kg
B3 100/100	125	75	154	100	334	140	1.42
B3 125/100	125	75	154	125	334	153	1.46
B3 125/125	150	90	184	125	364	153	1.52
B3 150/100	125	75	154	150	334	167	1.80
B3 150/125	150	90	184	150	364	165	1.91
B3 160/100	125	75	154	160	334	170	2.03
B3 160/125	150	90	184	160	364	170	2.06
B3 160/160	190	115	233	160	413	170	2.10
B3 175/100	125	75	154	175	334	178	1.17
B3 175/125	150	90	184	175	364	178	2.30
B3 175/160	190	115	233	175	413	178	2.41
B3 175/175	215	125	266	175	446	178	2.56
B3 200/100	125	75	154	200	334	191	2.61
B3 200/125	150	90	184	200	364	191	2.62
B3 200/160	190	115	233	200	413	191	2.88
B3 200/175	215	125	266	200	466	191	2.70
B3 200/200	250	140	312	200	492	191	2.71
B3 150/230	250	150	307	150	487	165	2.52
B3 160/230	250	150	307	160	487	170	2.62
B3 150/240	275	150	346	150	526	165	2.74
B3 160/240	275	150	346	160	526	170	2.86
B3 150/345	400	200	514	150	694	165	4.25
B3 160/345	400	200	514	160	694	170	4.43
B3 200/345	400	200	514	200	694	190	4.75

Specification	Process circle dia.	a	b	d	L	H	Wgt. ~kg
A3 100/100	125	75	154	100	334	140	1.80
A3 125/100	125	75	154	125	334	153	2.86
A3 125/125	150	90	184	125	364	153	3.20
A3 150/100	125	75	154	150	334	167	3.05
A3 150/125	150	90	184	150	364	165	2.85
A3 160/100	125	75	154	160	334	170	2.70
A3 160/125	150	90	184	160	364	170	2.85
A3 160/160	190	115	233	160	413	170	3.85
A3 175/100	125	75	154	175	334	178	2.95
A3 175/125	150	90	184	175	364	178	2.88
A3 175/160	190	115	233	175	413	178	2.68
A3 175/175	215	125	266	175	446	178	3.08
A3 200/100	125	75	154	200	334	191	3.30
A3 200/125	150	90	184	200	364	191	3.50
A3 200/160	190	115	233	200	413	191	3.75
A3 200/175	215	125	266	200	466	191	4.05
A3 200/200	250	140	312	200	492	191	4.15
A3 150/230	250	150	307	150	487	165	5.04
A3 160/230	250	150	307	160	487	170	5.24
A3 150/240	275	150	346	150	526	165	5.48
A3 160/240	275	150	346	160	526	170	5.72
A3 150/345	400	200	514	150	694	165	8.50
A3 160/345	400	200	514	160	694	170	8.86
A3 200/345	400	200	514	200	691	190	2.50

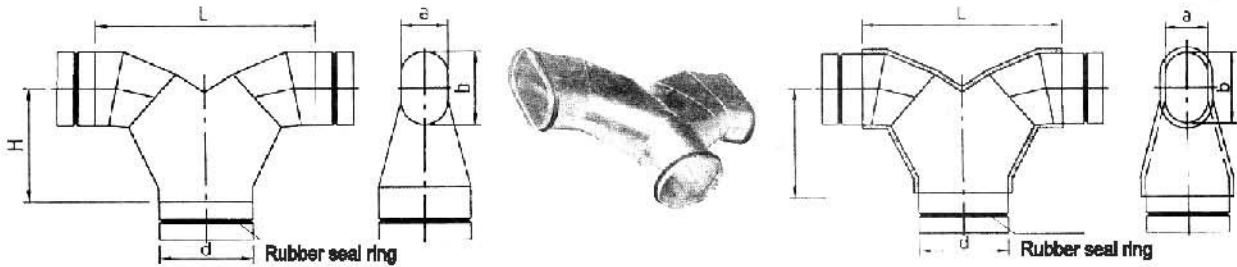
**Non-heat insulation oblate T-piece (BY) and pre-heat insulation oblate T-piece (AY)**


Specification	a1	b1	a2	b2	L	H	Wgt. ~kg
BY100/100	75	154	75	154	410	205	1.31
BY125/100	90	184	75	154	410	205	1.35
BY125/125	90	184	90	184	470	225	1.86
BY160/100	115	233	75	154	490	240	2.06
BY160/125	115	233	90	184	490	240	2.20
BY160/160	115	233	115	233	520	250	3.50
BY175/100	125	266	75	154	520	250	3.58
BY175/125	125	266	90	184	550	260	3.66
BY175/160	125	266	115	233	580	300	3.80
BY175/175	125	266	125	266	580	300	3.92
BY200/100	140	312	75	154	540	305	3.80
BY200/125	140	312	90	184	540	305	3.90
BY200/160	140	312	115	233	560	305	3.98
BY200/175	140	312	125	266	560	305	4.05
BY200/200	140	312	140	312	560	305	4.15
BY230/230	150	307	150	307	1040	305	5.13
BY240/230	150	346	150	307	1080	510	5.86
BY240/240	150	346	150	346	1160	540	6.29
BY345/230	200	514	150	307	1250	600	9.86
BY345/240	200	514	150	346	1330	630	10.50
BY345/345	200	514	200	514	1690	860	13.34

Specification	a1	b1	a2	b2	L	H	Wgt. ~kg
AY100/100	75	154	75	154	410	205	2.25
AY125/100	90	184	75	154	410	205	2.28
AY125/125	90	184	90	184	470	225	2.30
AY160/100	115	233	75	154	490	240	3.85
AY160/125	115	233	90	184	490	240	3.87
AY160/160	115	233	115	233	520	250	4.25
AY175/100	125	266	75	154	520	250	4.30
AY175/125	125	266	90	184	550	260	4.51
AY175/160	125	266	115	233	580	300	4.80
AY175/175	125	266	125	266	580	300	4.92
AY200/100	140	312	75	154	540	305	4.78
AY200/125	140	312	90	184	540	305	4.90
AY200/160	140	312	115	233	560	305	4.92
AY200/175	140	312	125	266	560	305	5.02
AY200/200	140	312	140	312	560	305	5.04
AY230/230	150	307	150	307	1040	350	10.26
AY240/230	150	346	150	307	1080	510	11.72
AY240/240	150	346	150	346	1160	540	12.98
AY345/230	200	514	150	307	1250	600	19.72
AY345/240	200	514	150	346	1330	630	21.00
AY345/345	200	514	200	514	1690	860	26.68



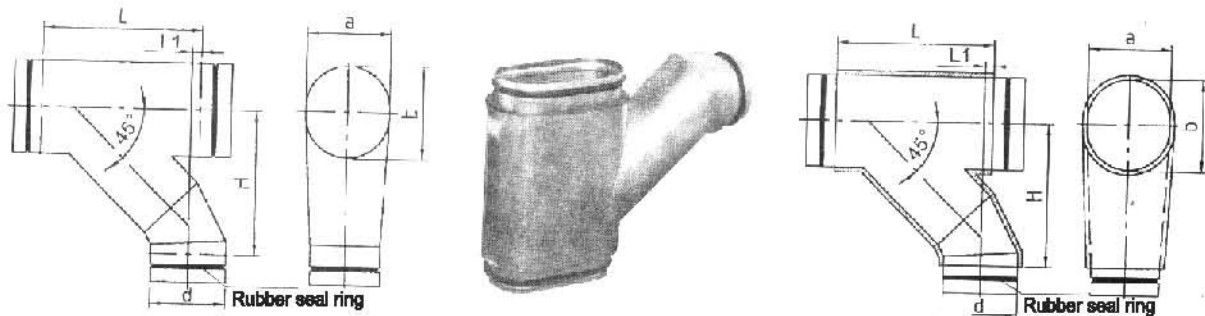
**Non-heat insulation oblate T-piece (main duct round, branch oblate) (BP) and pre-heat insulation oblate T-piece (main duct round, branch oblate) (AP)**



Specification	a	b	d	L	H	Wgt. ≈kg
BP100/100	75	154	100	360	180	1.33
BP125/100	75	154	125	350	180	1.38
BP125/125	90	184	125	410	200	1.90
BP150/100	75	154	150	330	165	2.10
BP150/125	90	184	150	330	165	2.25
BP160/100	75	154	160	380	190	3.20
BP160/125	90	184	160	465	230	3.35
BP160/160	115	233	160	480	240	3.58
BP175/100	75	154	175	490	240	3.70
BP175/125	90	184	175	430	210	3.50
BP175/160	115	233	175	430	210	3.48
BP175/175	125	266	175	450	220	3.56
BP200/100	75	154	200	450	220	3.80
BP200/125	90	184	200	450	220	3.82
BP200/160	115	233	200	450	220	3.90
BP200/175	125	266	200	450	220	3.95
BP200/200	140	312	200	450	220	4.05
BP250/230	150	307	250	990	480	4.88
BP275/230	150	207	275	1010	460	5.48
BP275/240	150	246	275	1090	480	5.91
BP300/230	150	307	300	1040	480	6.16
BP300/240	150	346	300	1120	500	6.63
BP400/230	150	307	400	1140	600	9.01
BP400/240	150	346	400	1220	580	9.63
BP400/345	200	514	400	1570	690	12.39

Specification	a	b	d	L	H	Wgt. ≈kg
AP100/100	75	154	100	360	180	2.20
AP125/100	75	154	125	350	180	2.69
AP125/125	90	184	125	410	200	2.81
AP150/100	75	154	150	330	165	3.05
AP150/125	90	184	150	330	165	3.08
AP160/100	75	154	160	380	190	4.01
AP160/125	90	184	160	465	230	4.20
AP160/160	115	233	160	480	240	4.26
AP175/100	75	154	175	490	240	4.30
AP175/125	90	184	175	430	210	4.05
AP175/160	115	233	175	430	210	4.03
AP175/175	125	266	175	450	220	4.01
AP200/100	75	154	200	450	220	4.10
AP200/125	90	184	200	450	220	4.12
AP200/160	115	233	200	450	220	4.15
AP200/175	125	266	200	450	220	4.19
AP200/200	140	312	200	450	220	4.23
AP250/230	150	307	250	990	480	9.76
AP275/230	150	207	275	1010	460	10.96
AP275/240	150	246	275	1090	480	11.82
AP300/230	150	307	300	1040	480	12.32
AP300/240	150	346	300	1120	500	13.32
AP400/230	150	307	400	1140	600	18.02
AP400/240	150	346	400	1220	580	18.26
AP400/345	200	514	400	1570	690	24.78

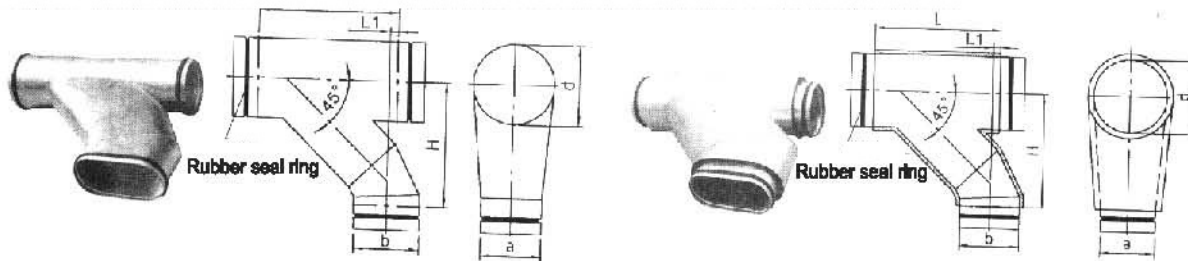
45°non-heat insulation oblate T-piece (main duct round, branch oblate) (BV) and  
 45°pre-heat insulation oblate T-piece (main duct round, branch oblate) (AV)



Specification	a	b	d	L	H	L1	Wgt. ≈kg
BV100/100	75	154	100	220	210	10	2.19
BV125/100	90	184	100	220	225	10	2.60
BV125/125	90	184	125	250	250	10	2.78
BV160/100	115	233	100	220	250	10	3.80
BV160/125	115	233	125	250	295	20	4.08
BV160/150	115	233	150	290	300	10	4.25
BV160/160	115	266	160	300	310	10	4.30
BV175/100	125	266	100	220	265	10	4.42
BV175/125	125	266	125	250	295	10	4.45
BV175/150	125	266	150	290	320	10	4.41
BV175/160	125	266	160	300	325	10	4.57
BV175/175	125	266	175	325	345	15	4.59
BV200/100	140	312	100	220	290	20	4.65
BV200/125	140	312	125	250	315	20	4.78
BV200/150	140	312	150	290	340	25	4.92
BV200/160	140	312	160	300	350	25	5.06
BV200/175	140	312	175	325	370	25	5.12
BV200/200	140	312	200	360	400	25	5.06
BV230/80	150	307	80	390	280	140	3.81
BV230/100	150	307	100	420	300	140	3.99
BV230/125	150	307	125	450	330	140	4.16
BV240/80	150	346	80	390	300	140	4.04
BV240/100	150	346	100	420	320	140	4.33
BV240/125	150	346	125	450	350	140	4.43
BV345/80	200	514	80	390	380	140	5.09
BV345/100	200	514	100	420	410	140	5.48
BV345/125	200	514	125	450	430	140	5.76
BV345/150	200	514	150	480	460	140	6.05
BV345/160	200	514	160	500	470	140	6.24

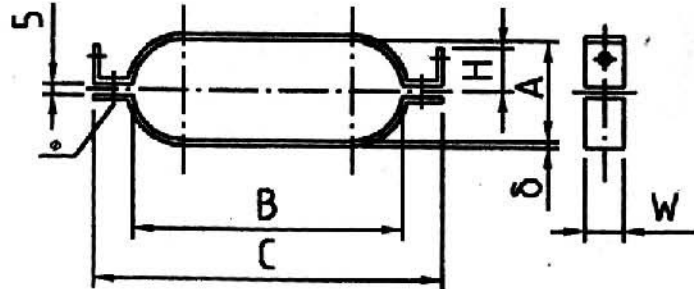
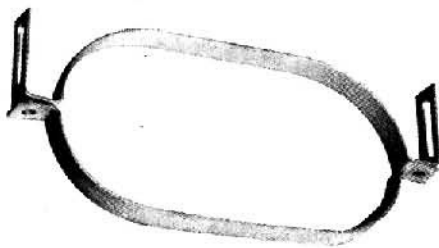
Specification	a	b	d	L	H	L1	Wgt. ≈kg
AV100/100	75	154	100	220	210	10	4.59
AV125/100	90	184	100	220	225	10	5.46
AV125/125	90	184	125	250	250	10	5.83
AV160/100	115	233	100	220	250	10	7.90
AV160/125	115	233	125	250	295	20	8.51
AV160/150	115	233	150	290	300	10	8.81
AV160/160	115	266	160	300	310	10	9.03
AV175/100	125	266	100	220	265	10	9.24
AV175/125	125	266	125	250	295	10	9.31
AV175/150	125	266	150	290	320	10	9.41
AV175/160	125	266	160	300	325	10	9.64
AV175/175	125	266	175	325	345	15	9.66
AV200/100	140	312	100	220	290	20	9.72
AV200/125	140	312	125	250	315	20	9.80
AV200/150	140	312	150	290	340	25	9.97
AV200/160	140	312	160	300	350	25	10.12
AV200/175	140	312	175	325	370	25	10.15
AV200/200	140	312	200	360	400	25	10.18
AV230/80	150	307	80	390	280	140	6.62
AV230/100	150	307	100	420	300	140	6.98
AV230/125	150	307	125	450	330	140	7.23
AV240/80	150	346	80	390	300	140	7.08
AV240/100	150	346	100	420	320	140	7.46
AV240/125	150	346	125	450	350	140	7.86
AV345/80	200	514	80	390	380	140	9.38
AV345/100	200	514	100	420	410	140	9.98
AV345/125	200	514	125	450	430	140	10.52
AV345/150	200	514	150	480	460	140	11.10
AV345/160	200	514	160	500	470	140	11.48

**45°non-heat insulation oblate T-piece(main duct round, branch oblate) (BX) and  
45°pre-heat insulation oblate T-piece (main duct round, branch oblate) (AX)**



Specification	a	b	d	L	H	L1	Wgt. ~kg
BX100/100	75	154	100	300	240	10	2.81
BX125/100	75	154	125	300	255	10	2.99
BX125/125	90	184	125	340	287	10	3.09
BX150/100	75	154	150	300	270	10	3.75
BX150/125	90	184	150	340	300	10	3.87
BX160/100	75	154	130	300	275	10	3.85
BX160/125	90	184	130	340	300	10	3.91
BX160/160	115	233	130	410	355	10	4.88
BX175/100	75	154	175	300	280	10	4.89
BX175/125	90	184	175	340	310	10	5.08
BX175/160	110	233	175	410	360	10	5.15
BX175/175	125	268	175	460	400	15	5.20
BX200/100	75	154	200	300	295	20	5.23
BX200/125	90	184	200	340	320	20	5.28
BX200/160	115	233	200	410	375	25	5.41
BX200/175	125	268	200	460	400	25	5.45
BX200/200	140	312	200	520	460	25	5.75
BX230/230	150	307	230	700	480	140	5.45
BX250/230	150	307	250	700	490	140	5.83
BX250/240	150	348	250	750	530	140	6.18
BX275/230	150	307	275	700	500	140	6..32
BX275/240	150	346	275	750	550	140	6.70
BX300/230	150	307	300	700	520	140	6.80
BX300/240	150	346	300	750	560	140	7.21
BX355/230	150	307	355	700	550	140	7.86
BX355/240	150	346	355	750	590	140	8.35
BX255/345	200	514	355	980	760	140	10.61
BX360/230	150	307	360	700	550	140	7.96
BX360/240	150	346	360	750	590	140	8.46

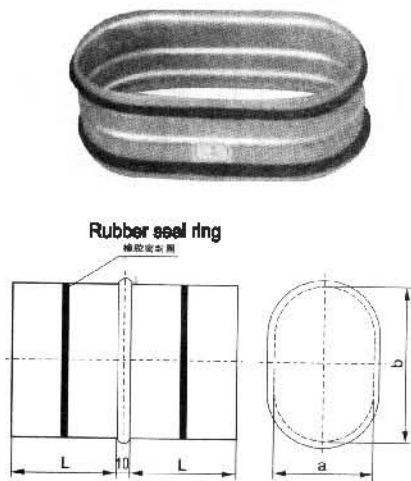
Specification	a	b	d	L	H	L1	Wgt. ~kg
AX100/100	75	154	100	300	240	10	5.88
AX125/100	75	154	125	300	255	10	6.27
AX125/125	90	184	125	340	287	10	6.45
AX150/100	75	154	150	300	270	10	7.75
AX150/125	90	184	150	340	300	10	8.05
AX160/100	75	154	130	300	275	10	7.95
AX160/125	90	184	130	340	300	10	8.12
AX160/160	115	233	130	410	355	10	9.98
AX175/100	75	154	175	300	280	10	9.98
AX175/125	90	184	175	340	310	10	10.05
AX175/160	110	233	175	410	360	10	10.21
AX175/175	125	266	175	460	400	15	10.42
AX200/100	75	154	200	300	295	20	10.51
AX200/125	90	184	200	340	320	20	10.61
AX200/160	115	233	200	410	375	25	10.65
AX200/175	125	266	200	460	400	25	10.81
AX200/200	140	312	200	520	460	25	10.88
AX230/230	150	307	230	700	480	140	9.90
AX250/230	150	307	250	700	490	140	10.66
AX250/240	150	346	250	750	530	140	11.36
AX275/230	150	307	275	700	500	140	11.64
AX275/240	150	346	275	750	550	140	12.40
AX300/230	150	307	300	700	520	140	12.60
AX300/240	150	346	300	750	560	140	12.42
AX355/230	150	307	355	700	550	140	13.72
AX355/240	150	346	355	750	590	140	14.70
AX255/345	200	514	355	980	760	140	19.22
AX360/230	150	307	360	700	550	140	15.92
AX360/240	150	346	360	750	590	140	16.95

**Non-heat insulation oblate pendant (BU) and pre-heat insulation oblate pendant (AU)**


Specification	Process circle dia.	A	B	C	H	W	δ	φ	Wgt. ~kg
BU100	125	75	156	216	70	25	3	9	0.35
BU125	150	90	187	247	70	25	3	9	0.38
BU160	190	115	236	296	70	25	3	9	0.50
BU175	215	125	269	329	70	25	3	9	0.78
BU200	250	140	315	375	70	25	3	9	0.81
BU230	250	150	310	370	70	25	3	9	0.81
BU240	275	150	349	409	70	25	3	9	0.70
BU345	400	200	547	577	70	25	3	9	1.62
BU430	500	250	646	706	70	30	3	9	1.83
Bu455	500	300	617	677	70	30	3	9	1.83
BU485	560	300	711	771	70	30	3	9	1.87
BU510	560	350	683	743	70	30	3	9	1.87
BU535	560	400	654	714	70	30	3	9	1.87
BU625	660	450	783	843	70	30	3	9	1.99
BU635	660	500	784	814	70	30	3	9	1.99
BU675	700	500	817	877	70	40	4	11	2.03
BU710	760	500	911	971	100	40	4	11	4.04
BU900	1120	500	1476	1536	100	40	4	11	6.18
BU945	1250	500	1680	1740	100	40	4	11	7.54

Specification	Process circle dia.	A	B	C	H	W	δ	φ	Wgt. ~kg
AU100	125	75	156	216	70	25	3	9	0.41
AU125	150	90	187	247	70	25	3	9	0.45
AU160	190	115	236	296	70	25	3	9	0.77
AU175	215	125	269	329	70	25	3	9	0.84
AU200	250	140	315	375	70	25	3	9	0.88
AU230	250	150	310	370	70	25	3	9	0.88
AU240	275	150	349	409	70	25	3	9	0.90
AU345	400	200	547	577	70	25	3	9	1.95
AU430	500	250	646	706	70	30	3	9	2.19
AU455	500	300	617	677	70	30	3	9	2.19
AU485	560	300	711	771	70	30	3	9	2.26
AU510	560	350	683	743	70	30	3	9	2.26
AU535	560	400	654	714	70	30	3	9	2.26
AU625	660	450	783	843	70	30	3	9	2.76
AU635	660	500	784	814	70	30	3	9	2.79
AU675	700	500	817	877	70	40	4	11	3.63
AU710	760	500	911	971	100	40	4	11	4.98
AU900	1120	500	1476	1536	100	40	4	11	7.08
AU945	1250	500	1680	1740	100	40	4	11	7.71

Note. Generally Insulation thickness  $\delta = 12.5\text{mm}$  of duct is suitable for Specification <AU240, and insulation thickness  $\delta = 15\text{mm}$  is suitable for Specification >AU345.

**Oblate insertion joint (BN)**


Specification	Process circle dia.	a	b	L	Wgt. ≈ kg/Piece
BN100	125	75	154	40	0.23
BN125	150	90	184	40	0.26
BN160	190	115	233	40	0.34
BN175	215	125	266	40	0.38
BN200	250	140	312	40	0.44
BN230	250	150	307	40	0.44
BN240	275	150	346	40	0.46
BN345	400	200	514	50	0.67
BN430	500	250	643	50	0.83
BN455	500	300	614	50	0.83
BN485	560	300	708	50	0.93
BN510	560	350	680	50	0.93
BN535	560	400	651	50	0.93
BN625	660	450	780	50	1.12
BN635	660	500	751	50	1.12
BN675	700	500	814	50	1.17
BN710	760	500	908	80	3.20
BN900	1120	500	1473	100	5.65
BN945	1250	500	1677	100	6.15

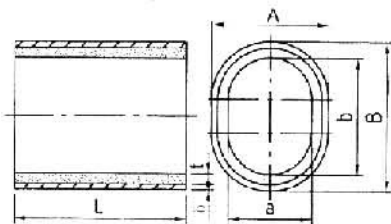
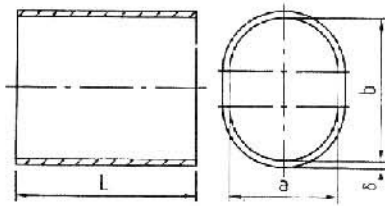
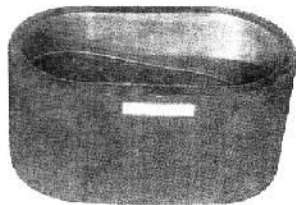
Note: For Insertion joints with process circle diameter greater than 400mm, angle steel flanges are applicable.

**Non-heat insulation oblate sleeve (BM) and pre-heat insulation oblate sleeve (AM)**


Specification	Process circle dia.	a	b	Wgt. ≈ kg/Piece
BM100	125	75	154	0.26
BM125	150	90	184	0.36
BM160	190	115	233	0.39
BM175	215	125	266	0.46
BM200	250	140	312	0.50
BM230	250	150	307	0.50
BM240	275	150	346	0.54

Specification	Process circle dia.	a	b	Wgt.
AM100	125	75	154	0.52
AM125	150	90	184	0.72
AM160	190	115	233	0.80
AM175	215	125	266	0.94
AM200	250	140	312	1.02
AM230	250	150	307	1.02
AM240	275	150	346	1.10

No-heat insulation oblate penetration piece (BG) and pre-heat insulation oblate penetration piece (AG)



No-heat insulation oblate penetration piece (BG)

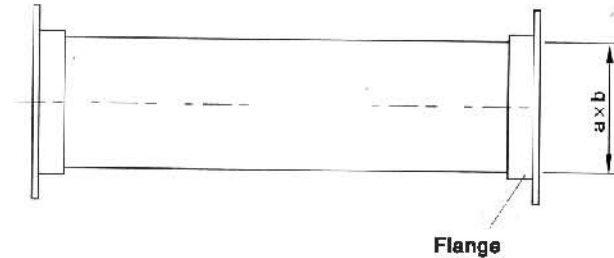
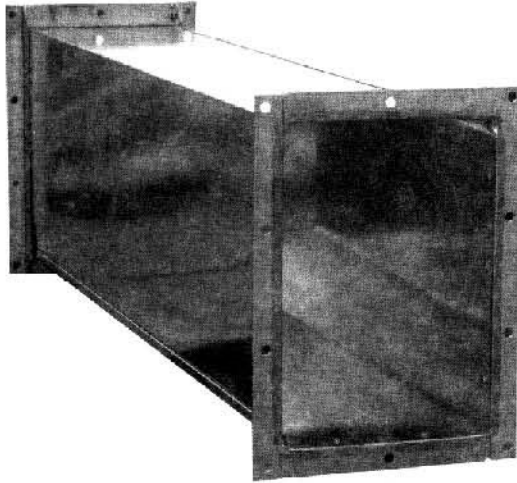
Specification	Process circle dia.	a	b	L	δ	Wgt. ≈kg
BG100/125	125	75	154	125	3	1.18
BG125/125	150	90	184	125	3	1.41
BG160/125	190	115	233	125	3	2.38
BG175/125	215	125	266	125	3	3.80
BG200/125	250	140	312	125	3	4.30
BG100/200	125	75	154	200	3	2.35
BG125/200	150	90	184	200	3	2.81
BG160/200	190	115	233	200	3	5.31
BG175/200	215	125	266	200	3	7.03
BG200/200	250	140	312	200	3	7.60
BG230/200	250	150	307	200	5	7.60
BG240/200	275	150	346	200	5	8.36

Pre-heat insulation oblate penetration piece (AG)

Specification	Process circle dia.	a	b	A		B		L	δ	Wgt. ≈kg
				t=12.5	t=15	t=12.5	t=15			
AG100/125	125	75	154	106	111	185	190	125	3	1.83
AG125/125	150	90	184	121	126	215	220	125	3	2.14
AG160/125	190	115	233	146	151	264	269	125	3	2.42
AG175/125	215	125	266	156	161	297	302	125	3	4.58
AG200/125	250	140	312	171	176	343	349	125	3	5.42
AG100/200	125	75	154	106	111	185	190	200	3	3.78
AG125/200	150	90	184	101	126	215	220	200	3	4.41
AG160/200	190	115	233	146	151	264	269	200	3	6.56
AG175/200	215	125	266	158	161	297	302	200	3	7.76
AG200/200	250	140	312	171	176	343	348	200	3	8.90
AG230/200	250	150	307	181	186	338	348	200	3	9.12
AG240/200	275	150	346	181	186	378	383	200	3	10.03

Note: For oblate penetration piece with process circle diameter greater than 400mm, angle steel flanges are applicable.

### Specifications and dimensions for rectangular ducts



#### Rectangular ducts specifications

Duct side length			
120	320	800	2000
160	400	1000	2500
200	500	1250	3000
250	630	1600	3500

Note. Galvanized or stainless steel sheet materials can be selected for ducts.

#### Thickness of duct sheets

Dimensions of long sides	Rectangular ducts		Dust removal system
	Medium and low pressure systems	High pressure system	
80–320	0.5	0.75	1.5
320–450	0.6	0.75	1.5
450–630	0.6	0.75	2.0
630–1000	0.75	1.0	2.0
100–1250	1.0	1.0	2.0
1250–2000	1.0	1.2	According to design
2000–4000	1.2	According to design	

1. Steel sheet thickness of duct for smoke exhaust systems is selected according to high-pressure systems.
2. Steel sheet thickness of duct for special dust removal systems should meet with design requirements.
3. Steel sheet thickness of duct for marine mechanical ventilating systems should meet with customer requirements

### Rectangular duct flange and bolt

Dimensions of long sides	Flange material specifications (angle steel)	Bolt specifications
80-630	25 x 3	M8
630-1500	30 x 3	M8
1500-2500	40 x 4	M10
2500-4000	50 x 5	M12

### Duct pendent (BD, BS)

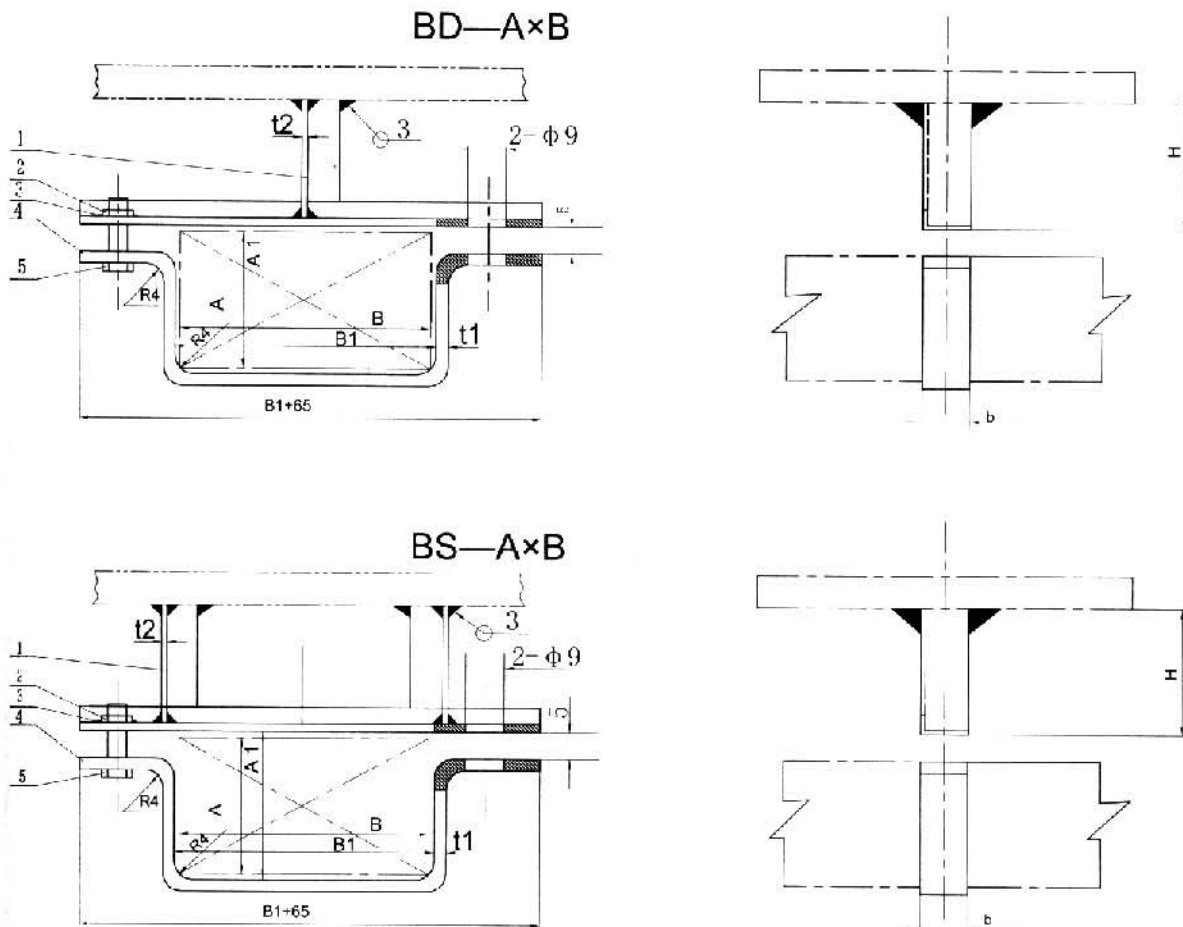


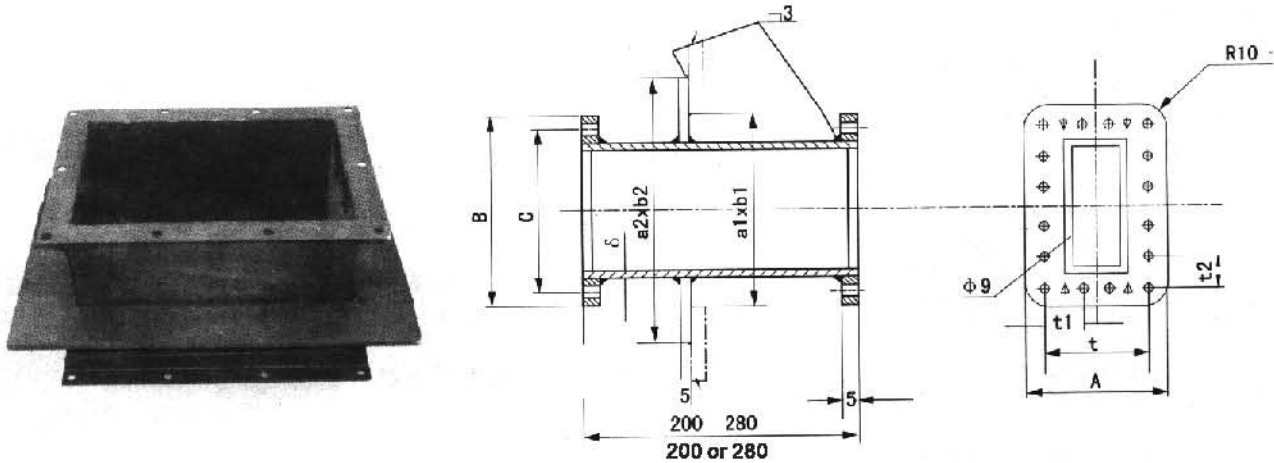
Fig.1

1-Pendent; 2-Nut; 3-Spring washer; 4-Clip; 5-Bolt



Duct sizes			Max outer dimension of rectangular ducts		Clip sizes	Pendant sizes	wtg. kg		
Nom. dia. Dg	Nom. dimensions		A1	B1					
	A	B							
80	60	90	65	95	-25X3	L25X25X3	0.92		
100	60	140	65	145			0.97		
	80	120	85	125			0.96		
125	60	220	65	225			1.13		
	80	160	85	165			1.06		
	100	130	105	135			1.03		
150	80	250	85	255			1.21		
	100	200	105	205			1.14		
	120	150	125	155			1.08		
175	80	350	85	355			1.38		
	100	250	105	255			1.23		
	120	210	125	215			1.18		
200	100	350	105	355			1.40		
	120	280	125	285			1.30		
	150	220	156	225			1.24		
250	120	470	125	475	1.62				
	150	350	156	355	1.46				
	190	280	196	285	1.38				
300	150	530	156	535	1.76				
	190	390	196	395	1.57				
	240	300	247	305	1.47				
350	190	550	196	555	-30X4	L30X30X4	2.21		
	240	420	247	425			2.01		
	290	360	300	365			1.96		
400	190	760	196	765			2.63		
	240	550	247	555			2.27		
	290	460	300	465			2.16		
450	240	730	196	735			-40X4	L40X40X4	2.64
	290	580	247	585					2.41
	350	480	300	485					2.29
500	240	930	196	935					4.05
	290	730	247	735					3.60
	350	600	300	605					3.35
600	290	1100	196	1105					4.61
	350	880	247	885					4.12
	420	710	300	715					3.79
700	350	1240	196	1245	5.07				
	420	990	247	995	4.55				
	500	810	300	815	4.21				

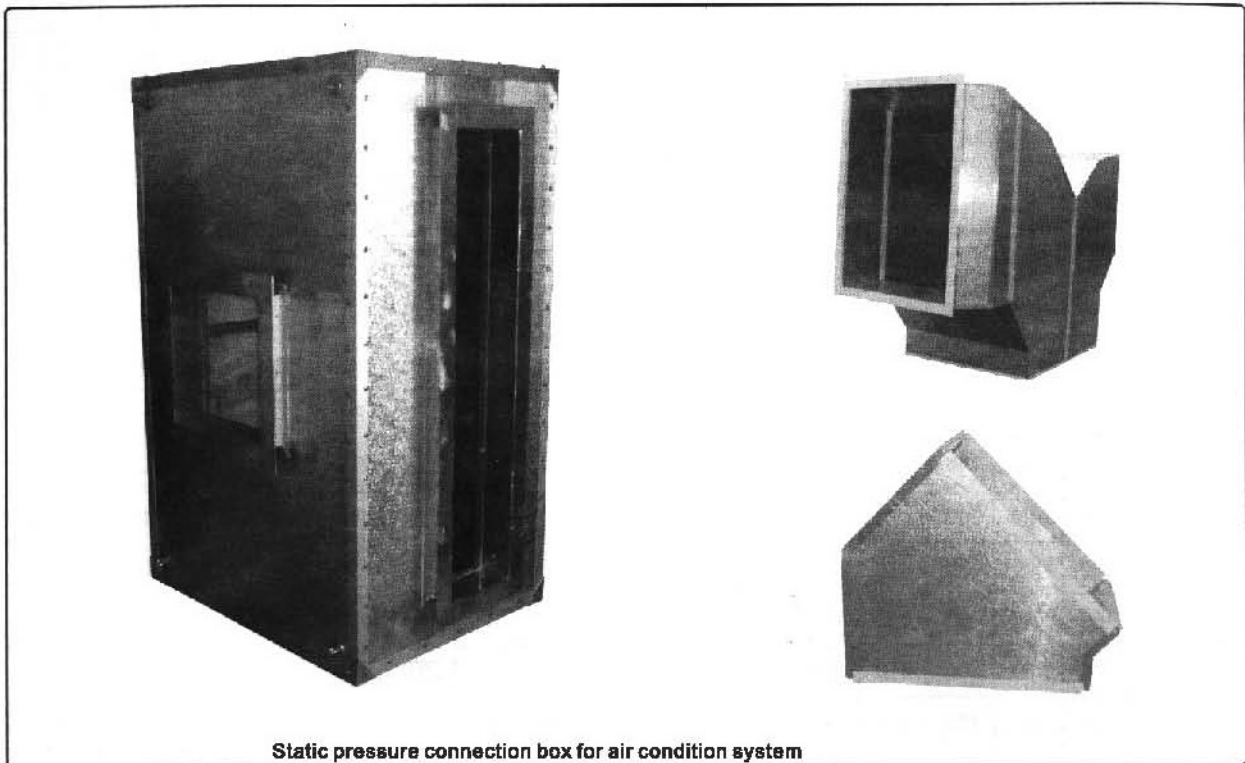
Note. 1. Pendant height, H is determined according to customers.  
 2. Weights are not included for pendants in specification tables.

**Rectangular penetration piece (B)**


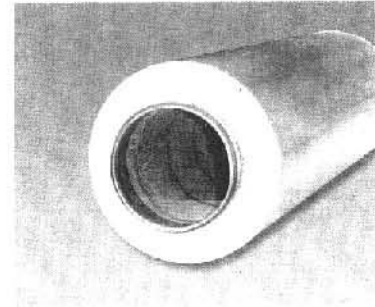
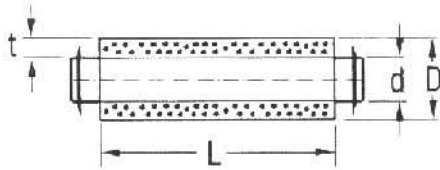
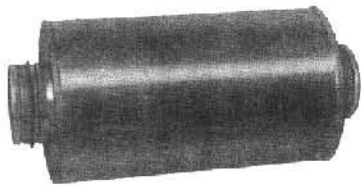
Nom. dia. Dg	Nom. dimension for rectangular passage		Duct flange			Opening dimension		Medium flange		Thickness	Pitch for bolt hole			Num. of bolt holes	Wgt.kg		
	a	b	A	B	C	a1	b1	a2	b2		t	t1	t2		L=200	L=280	
150	100	200	156	256	236	160	260	210	310	3	136	68	118	8	4.4	5.5	
	120	150	176	206	186	180	210	230	260	3	156	78	93		5.4	6.5	
175	100	250	156	306	285	180	310	210	360	3	136	68	95	10	6.7	8.0	
	120	210	176	266	246	180	270	230	320	3	156	78	82		6.1	7.3	
200	100	350	156	406	388	180	410	210	460	3	136	68	97	12	8.3	10.1	
	120	280	176	336	315	180	340	230	390	3	156	78	105		10	7.5	9.0
	150	220	206	276	258	210	280	260	330	3	186	93	86			7.0	8.3
250	120	470	176	526	505	180	530	230	580	3	156	78	101	14	10.3	12.4	
	150	350	206	406	388	210	410	260	460	3	186	93	97	12	9.2	11.1	
	190	280	246	336	318	250	340	310	390	3	226	113	106	10	8.7	10.5	
300	150	530	206	586	570	210	590	260	640	3	186	93	114	14	12.3	14.9	
	190	390	246	446	428	250	450	310	500	3	226	113	107	12	10.6	12.8	
	240	300	296	356	339	300	360	350	410	3	276	93	113		9.9	12.0	
350	190	550	246	606	588	250	610	300	660	3	226	113	98	16	13.4	16.2	
	240	420	296	476	460	300	480	350	530	3	276	93	115		14	11.9	14.5
	290	360	350	420	400	355	425	405	475	5	330	110	100			16.0	20.1
400	190	760	246	816	798	250	820	300	870	3	226	113	114	18	16.3	19.9	
	240	550	300	610	588	305	615	355	665	5	280	93	98		16	19.2	24.2
	290	460	350	520	500	355	525	405	575	5	330	110	100			18.3	23.1

### Specifications and dimensions for duct fittings

**Static pressure connection box:** Products including sizes and dimensions, inlet and outlet sizes, positions and others are produced according to design drawings supplied by customers or design drawings on site.



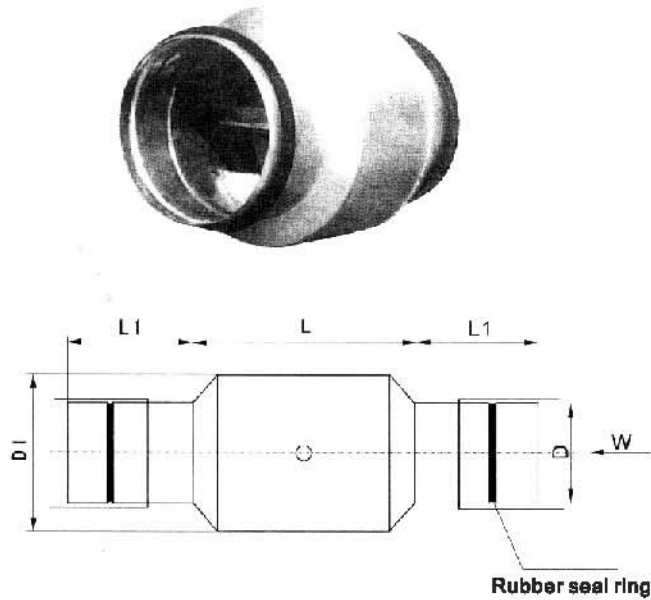
Static pressure connection box for air condition system

**Sound absorber (XR)**


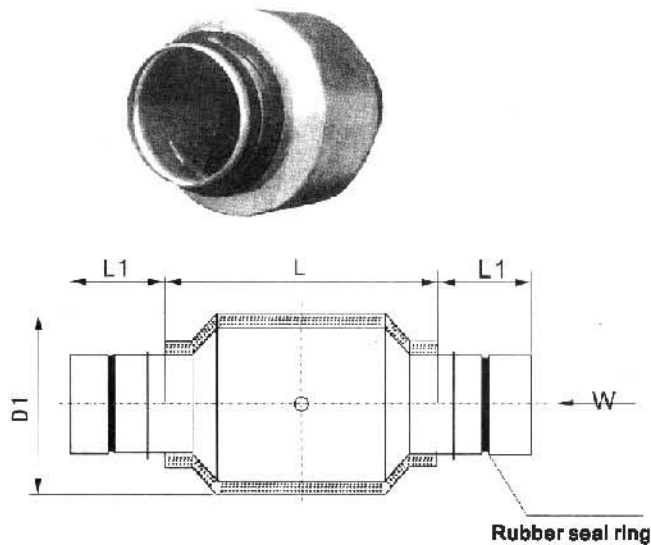
Specifications	Attenuation								d	D	L	Wgt.kg
	Frequency											
	63	125	250	500	1K	2K	4K	8K				
DN80/600/50	4.0	9	15	26	40	41	42	23	80	180	600	4.0
DN100/600/100	7.5	11	17	21.5	22	38	43	21	100	300	600	10
DN100/900/100	11.8	18	25	30.5	40	43	48	27	100	300	900	11.8
DN125/300/50	0.8	5	7	9.5	12	19	24	14	125	225	300	3.5
DN125/900/100	9.6	13.5	20	26	34	42	36	20	125	325	900	12.5
DN160/300/50	0	3	5	7	8	15	17	10	160	260	300	7.0
DN160/900/50	3.0	8.0	10.0	22.0	40.0	39.0	31.5	22.0	160	260	900	14.0
DN200/600/50	1	3.9	7	14	22	26	23	19	200	300	600	7.6
DN200/900/100	6.3	10	16	19.5	29.5	38	27	18	200	400	900	15.5
DN250/600/50	0	3.6	7	13	19.5	20.5	18	16	250	350	600	9.5
DN250/900/100	5.8	7.6	12.5	15	23	35	22	19	250	450	900	21.0
DN300/600/50	0	2.6	6	12	18	19	15	14	300	400	600	11.9
DN300/1000/100	6	8	15	16	25.6	35.5	21	15	300	500	1000	26.0
DN400/900/100	2.8	4.5	7	9	20	16	15.5	18	400	600	900	43.0
DN500/900/100	2.8	4	6	8	15	15.5	14	12	500	700	900	45.0
DN630/1200/100	3.9	4.5	8	12	16	19	12	10	630	830	1200	58

Note. In addition to tables, special sized products are supplied according to customer requirements

**Non-heat insulation check valve (RK) and pre-heat insulation check valve (PRK)**



Specification	D1	L	L	Wgt. ≈ kg/piece
RK80	126	160	60	0.78
RK100	126	160	60	0.87
RK125	161	160	60	1.10
RK150	200	160	60	1.21
RK160	200	180	60	1.40
RK175	200	180	60	1.60
RK200	225	180	60	1.88
RK250	300	350	60	2.32
RK300	350	350	60	2.78



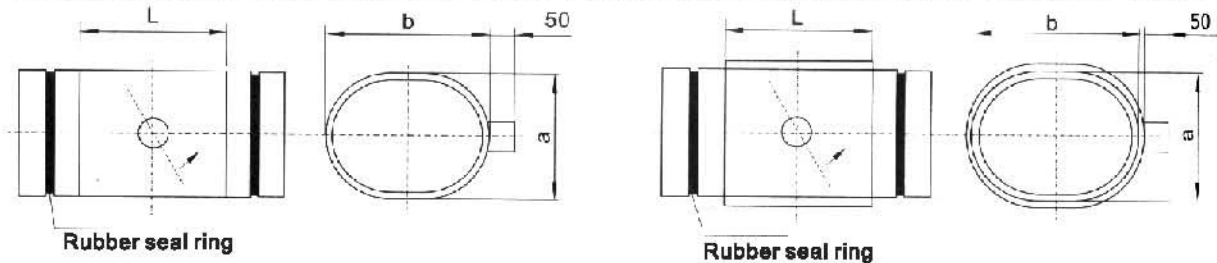
Specification	D1	L	Wgt. ≈ kg/piece
PRK80	150	200	0.82
PRK100	150	200	0.96
PRK125	185	200	1.21
PRK150	225	200	1.33
PRK160	225	220	1.54
PRK175	225	220	1.78
PRK200	250	220	2.11
PRK250	325	390	2.68
PRK300	380	390	3.21

**Note.** 1. Insulation thickness  $\delta = 12.5\text{mm}$  of matched duct is suitable for all D1 in Table specification PRK. The sizes for D1 correspondingly increase with 5mm and 25mm if insulation thickness  $\delta = 15\text{mm}$  or  $\delta = 25\text{mm}$  of matched duct are selected.  
 2. Special sized products are supplied according to customers.

**Non-heat insulation adjustment damper (DS) and pre-heat insulation adjustment damper (PDS)**


Specification	Int. dia. D	L	Wgt. ~ kg/piece
DS80	80	100	0.50
DS100	100	100	0.63
DS125	125	100	0.74
DS150	150	100	0.88
DS160	160	100	0.95
DS175	175	100	1.10
DS200	200	100	1.20
DS250	250	100	2.23
DS300	300	160	2.72

Specification	Int. dia. D	L	Wgt. ~ kg/piece
PDS80	80	100	0.50
PDS100	100	100	0.63
PDS125	125	100	0.74
PDS150	150	100	0.88
PDS160	160	100	0.95
PDS175	175	100	1.10
PDS200	200	100	1.20
PDS250	250	100	2.23
PDS300	300	160	2.72

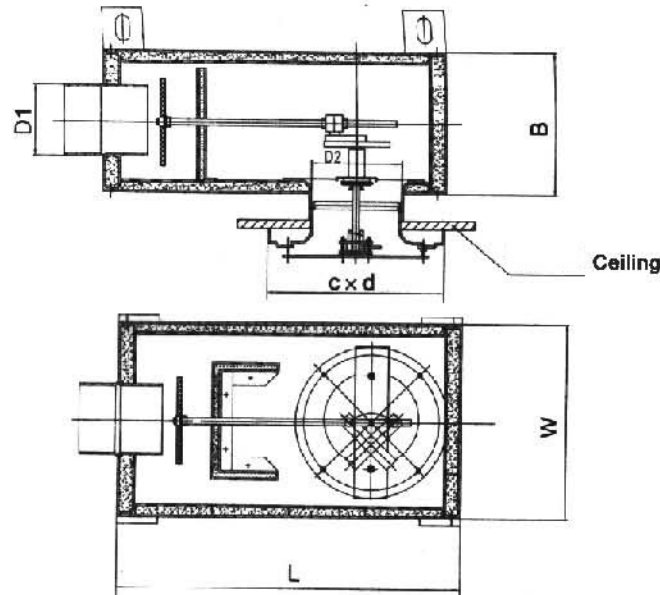
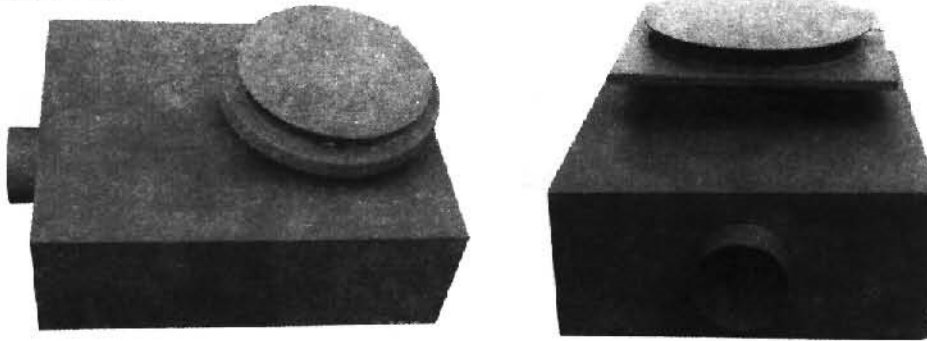
**Non-heat insulation oblate adjustment damper (BD) and pre-heat insulation oblate adjustment damper (AD)**


Specification	Process circle dia.	a	b	L	Wgt. ~ kg/piece
BD100	125	75	154	100	0.28
BD125	150	90	184	100	0.36
BD160	190	115	233	100	0.39
BD175	215	125	266	100	0.46
BD200	250	140	312	100	0.50
BD230	250	150	307	100	0.50
BD240	275	150	346	100	0.54

Specification	Process circle dia.	a	b	L	Wgt. ~ kg/piece
AD100	125	75	154	140	1.41
AD125	150	90	184	140	1.62
AD160	190	115	233	140	2.28
AD175	215	125	266	140	2.95
AD200	250	140	312	140	3.41
AD230	250	150	307	140	3.52
AD240	275	150	346	140	3.90

### Specifications and dimensions for air diffuser and fittings

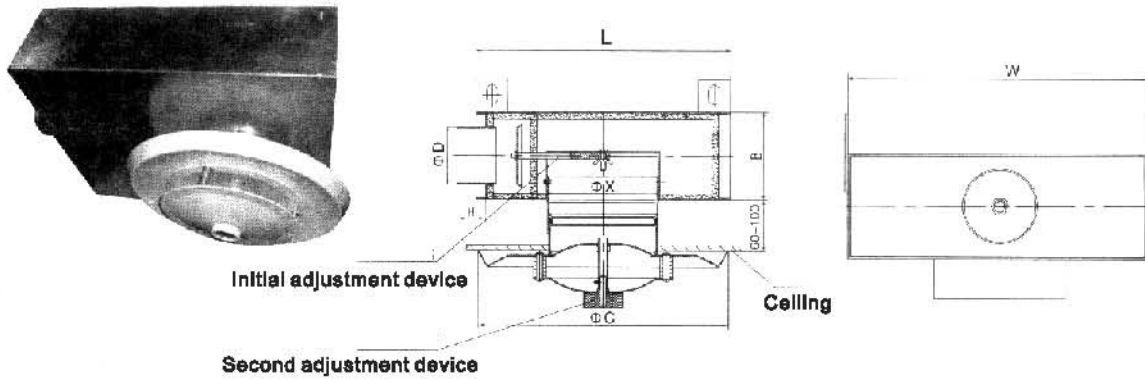
#### Ceiling air diffuser TJB



Specification	Inlet DN (D1)	Outlet $\Phi$ D2	L	W	B	Square air diffuser c x d	Flow-rate m <sup>3</sup> /h
TJB30C	DN100	$\Phi$ 170	500	400	170	275 x 275	0-300
TJB40C	DN125	$\Phi$ 200	500	400	170	335 x 335	0-400
TJB50C	DN125	$\Phi$ 250	500	400	170	390 x 390	0-500
TJB30	DN100	$\Phi$ 170	500	400	170	Round diffuser $\Phi$ 270	0-300
TJB40	DN125	$\Phi$ 200	500	400	170	$\Phi$ 335	0-400
TJB50	DN125	$\Phi$ 250	500	400	170	$\Phi$ 390	0-500

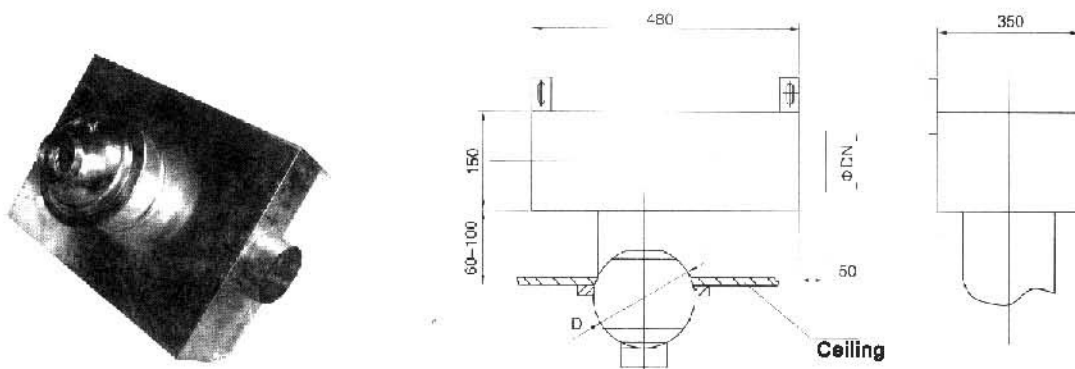
**Note.** Products without the suffix c mean cannot connect to ceilings, and can directly install to box bottoms.

### Ceiling air diffuser TPB



Specification	Inlet DN(D)	Outlet ΦX	L	W	B	Round diffuser Φc	Flow-rate m <sup>3</sup> /h	Ceiling opening
TPB-15	DN100	Φ150	550	450	160	Φ395	0-250	Φ170
TPB-17	DN100	Φ170	550	450	160	Φ395	0-300	Φ190
TPB-20	DN125	Φ200	550	450	180	Φ395	0-380	Φ220
TPB-25	DN125	Φ250	600	500	200	Φ475	0-500	Φ270

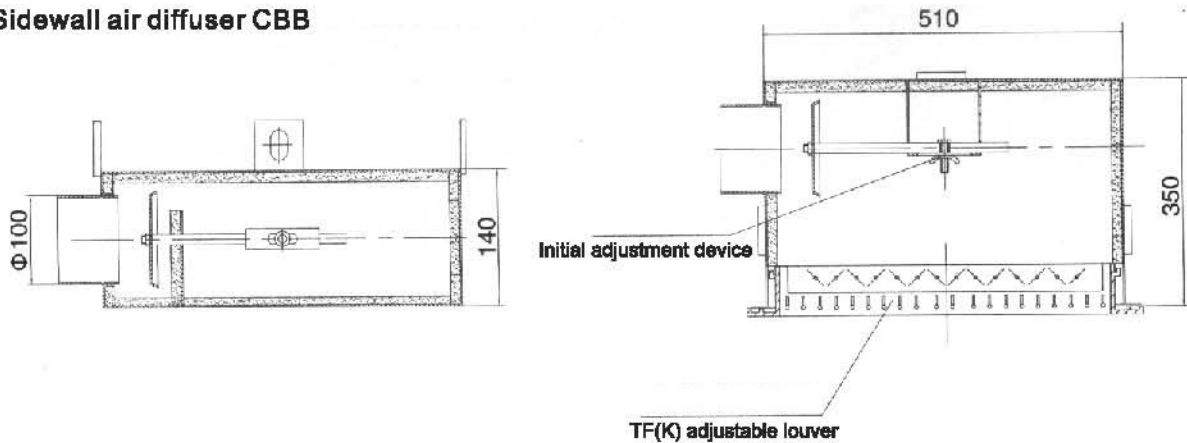
### Ball air diffuser TQB



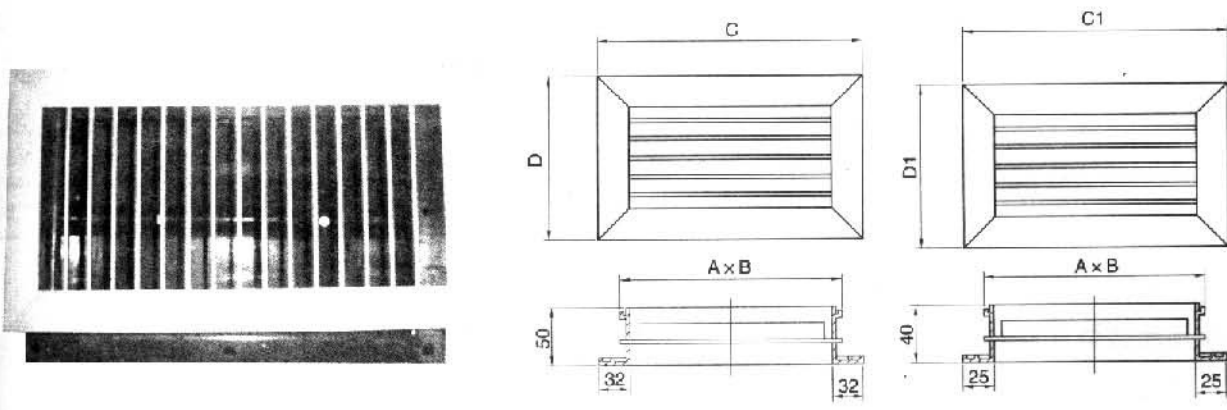
Specification	Inlet DN(D)	Ball ext. dia. ΦD
TQB-100	Φ98	Φ100
TQB-150	Φ98	Φ150
TQB-200	Φ98	Φ200



### Sidewall air diffuser CBB



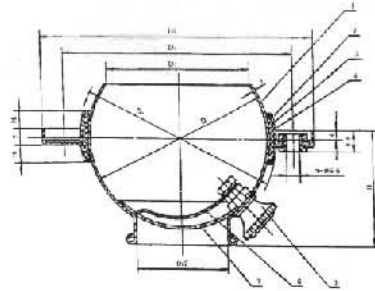
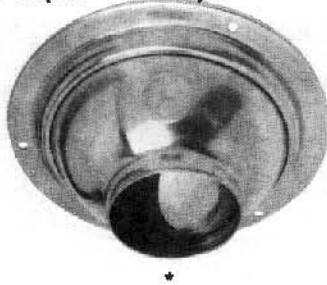
### Single layer louver DB



A x B	C x D	C1 x D1	A x B	C x D	C1 x D1
100 x 100	152 x 152	138 x 138	250 x 250	312 x 302	288 x 288
200 x 100	252 x 152	238 x 138	350 x 200	402 x 252	388 x 238
300 x 100	352 x 152	338 x 138	450 x 350	502 x 402	488 x 388
400 x 100	452 x 152	438 x 138	450 x 400	502 x 452	488 x 438
500 x 100	552 x 152	538 x 138	500 x 350	552 x 402	538 x 388
600 x 100	652 x 152	638 x 138	500 x 450	552 x 502	538 x 488
300 x 200	352 x 252	338 x 238	600 x 450	652 x 452	638 x 438
400 x 200	452 x 252	438 x 238	600 x 500	652 x 552	638 x 528
500 x 200	552 x 252	538 x 238	600 x 600	652 x 652	638 x 638
600 x 200	652 x 252	638 x 238	700 x 500	752 x 552	738 x 538
700 x 200	752 x 252	738 x 238	700 x 600	752 x 652	738 x 638

Note. 1. In addition to tables, special sized products are supplied according to customer requirements  
 2. Generally, louver blades parallel to long sides of louver, special sized products are supplied according to customer requirements, if any.

### Ball air diffuser (CB\*447-87)

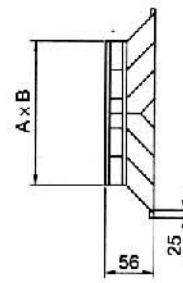
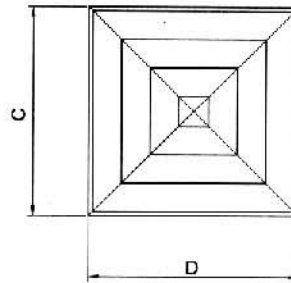
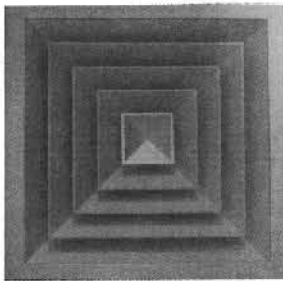


1-Ball body, 2-Washer, 3- Inner ball seat, 4-Outer ball seat, 5-Adjustable bolt, 6-Spring gasket, 7-Tongue plate

Nom. dia. DN	Ext. dia. of ball D	Ext. dia. of ball seat D1	Ext. dia. of flange D2	Ext. dia. of segment D3	Bolt hole center circle dia.D4	H	H1	No. of bolt hole	Wgt. kg	
									Rust-proof Aluminum	Brass
85	85	92	125	65	107	57	10	3	0.2	0.6
100	100	107	140	75	122	62	11	4	0.2	0.7
115	115	122	155	85	137	70	12	4	0.3	0.9
130	130	137	170	100	152	75	15	6	0.4	1.1
150	150	157	190	115	172	90	17	6	0.4	1.4
200	200	207	240	150	222	120	21	8	0.5	1.5

Note. Product materials are carbon steels or stainless steels.

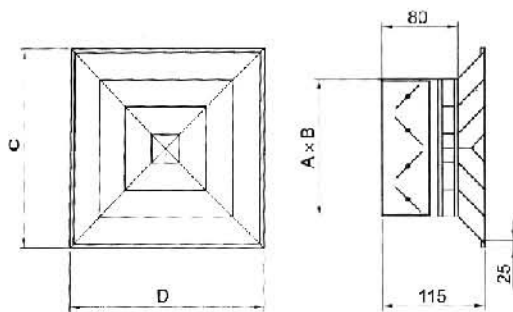
### Square air diffuser FS



A x B	C x D	Ceiling opening
240 x 240	356 x 356	306 x 306
300 x 300	416 x 416	366 x 366
360 x 360	476 x 476	426 x 426
420 x 420	536 x 536	486 x 486
480 x 480	596 x 596	546 x 546

Note. 1. In addition to tables, special sized products are supplied according to customer requirements  
 2. Rectangular products are supplied according to customers.

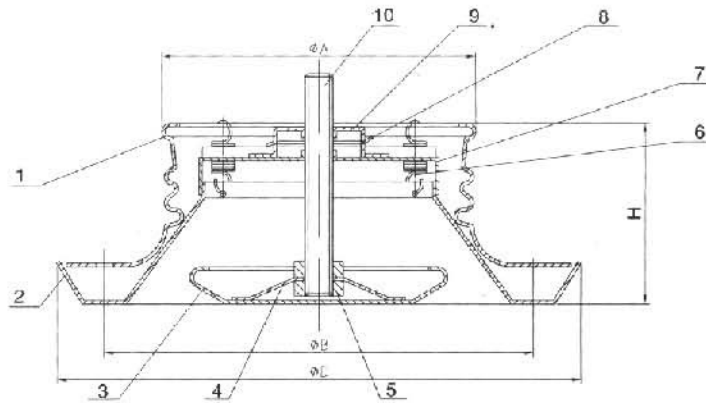
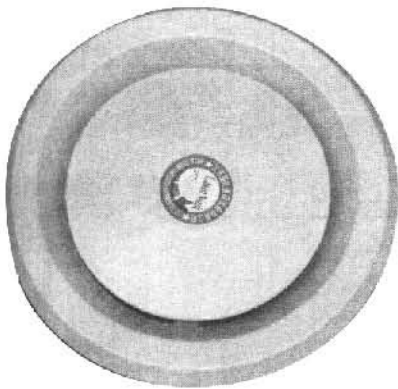
### Adjustable square air diffuser FS (K)



A x B	C x D	Ceiling opening
240 x 240	356 x 356	306 x 306
300 x 300	416 x 416	366 x 366
360 x 360	476 x 476	426 x 426
420 x 420	536 x 536	486 x 486
480 x 480	596 x 596	546 x 546

Note. 1. In addition to tables, special sized products are supplied according to customer requirements  
2. Rectangular products are supplied according to customers.

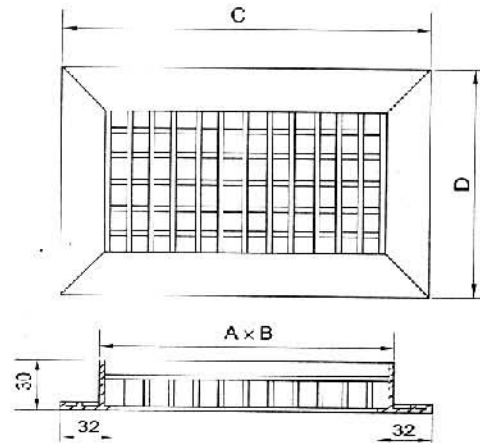
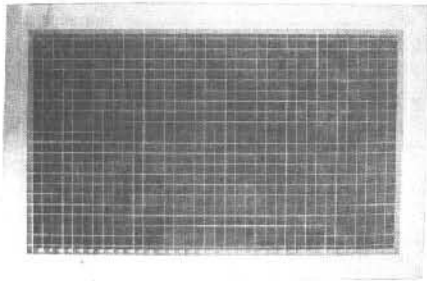
### Exhaust register DFT-A



1. Exhauster flange 2. Exhauster disk 3. Adjusting plate  
4. Adjusting plate fixed seat 5. Nut 6. Spring steel wire 1  
7. Exhausting cross lever 8. Spring steel wire 2 9. Fixed support 10. Screw stem

Specifications	$\phi A$	$\phi B$	$\phi D$
DFT-A-100	$\phi 97.5$	$\phi 130$	$\phi 148$
DFT-A-125	$\phi 122.5$	$\phi 155$	$\phi 175$
DFT-A-160	$\phi 157$	$\phi 190$	$\phi 216$
DFT-A-200	$\phi 197$	$\phi 230$	$\phi 254$

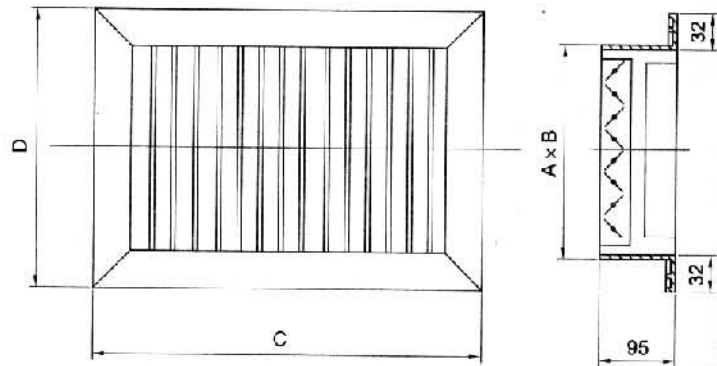
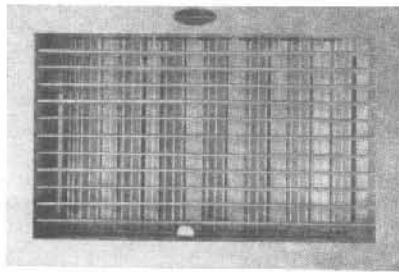
### Egg grid air diffuser DK



A x B	C x D	A x B	C x D
300 x 200	358 x 258	300 x 250	358 x 308
400 x 300	458 x 358	400 x 350	458 x 408
250 x 150	308 x 208	400 x 400	458 x 408
250 x 200	308 x 258	450 x 250	508 x 308
250 x 250	352 x 258	450 x 350	508 x 408

Note. In addition to tables, special sized products are supplied according to customer requirements

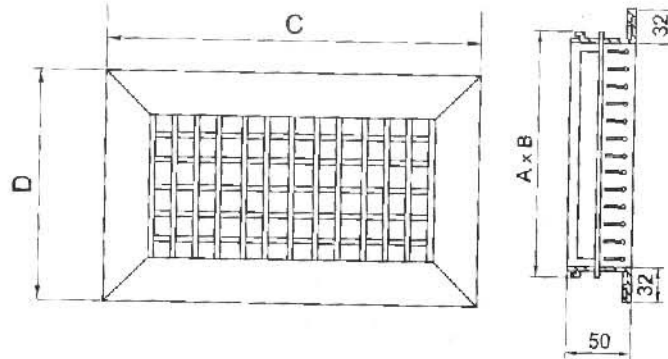
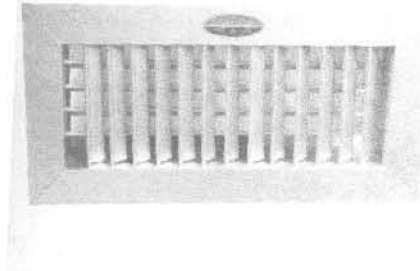
### Adjustable louver TF (K)



A x B	C x D	A x B	C x D
450 x 300	496 x 346	550 x 190	596 x 236
450 x 120	496 x 166	500 x 250	546 x 283
300 x 200	346 x 246	630 x 630	676 x 676
370 x 290	416 x 336	600 x 500	646 x 546
500 x 300	546 x 346	650 x 550	696 x 596

Note. In addition to tables, special sized products are supplied according to customer requirements

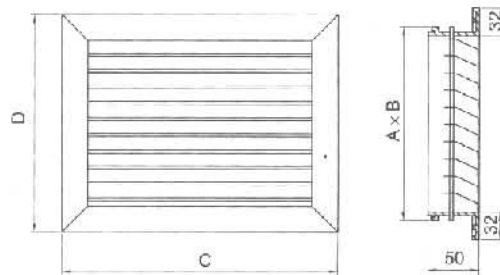
### Double layer louver SB



A x B	C x D	A x B	C x D
200 x 100	252 x 152	250 x 250	302 x 302
300 x 100	352 x 152	350 x 300	402 x 352
400 x 100	452 x 152	450 x 450	502 x 502
200 x 200	252 x 152	550 x 500	602 x 552
300 x 200	352 x 252	600 x 350	652 x 402
400 x 200	452 x 252	600 x 450	652 x 502
500 x 200	552 x 252	600 x 500	652 x 552
600 x 200	652 x 252	600 x 600	652 x 652
700 x 200	752 x 252	700 x 500	752 x 552
700 x 300	752 x 352	700 x 600	752 x 652
700 x 400	752 x 452	700 x 700	752 x 752

Note. In addition to tables, special sized products are supplied according to customer requirements

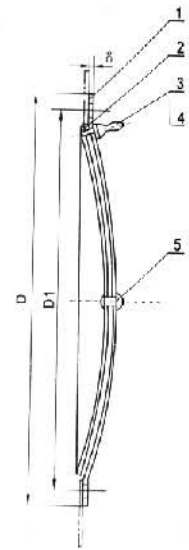
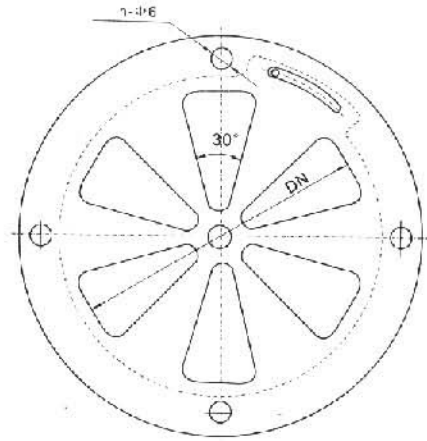
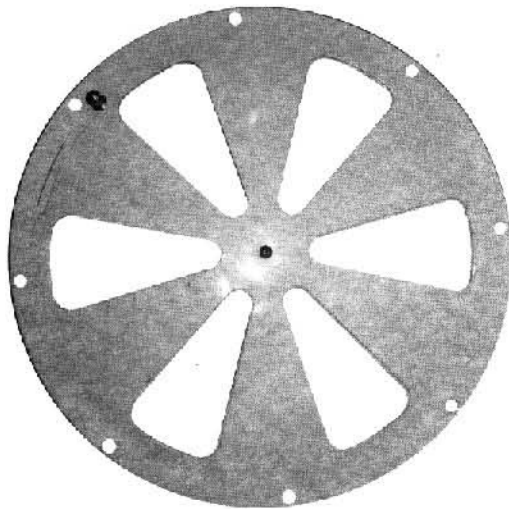
### Side wall grille louver CKS



A x B	C x D	A x B	C x D
200 x 200	252 x 252	600 x 300	652 x 352
300 x 200	352 x 252	400 x 400	452 x 452
400 x 200	452 x 252	500 x 400	552 x 452
500 x 200	552 x 252	600 x 400	652 x 452
300 x 300	352 x 352	500 x 500	552 x 552
400 x 300	452 x 252	600 x 400	652 x 552
500 x 300	552 x 352	700 x 500	752 x 552

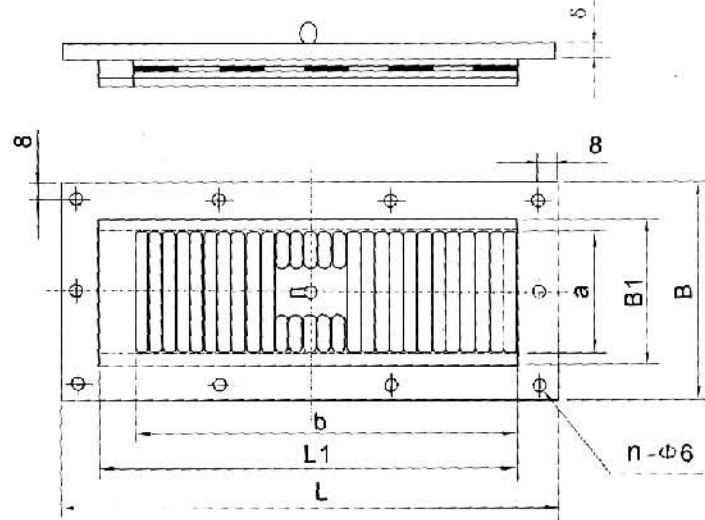
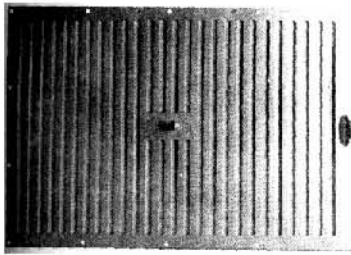
- Note. 1. Special sized products are supplied according to customer requirements.  
 2. Generally, louver blades parallel to long sides of louver, special sized products are supplied according to customer requirements, if any.

**Ventilation grill A(CB/T462-1996)**

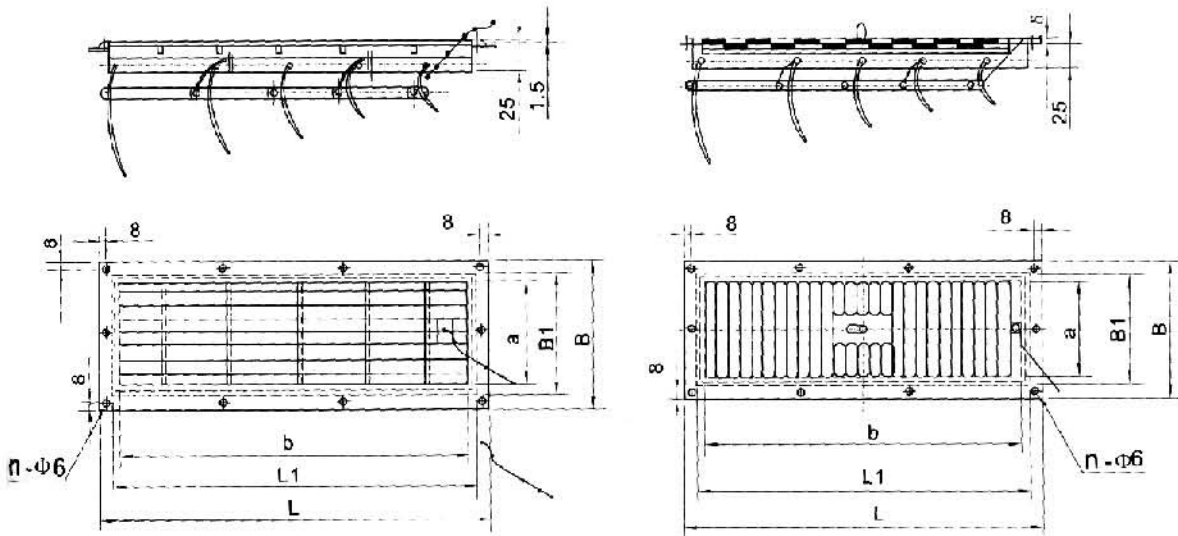


Main dimensions				n ( ↑ ) No. of bolt holes	Wgt. ≈ kg
Nom. dia.	D	D1	δ		
100	160	144	1.5	4	0.03
125	185	169			0.07
150	210	194			0.12
175	235	219			0.16
200	260	244	2	6	0.21
250	310	294			0.41
300	360	344			0.59.
350	410	394			0.77
400	460	444		8	0.96

Ventilation grill B, C, D(CB/T462-1996)



Grill B

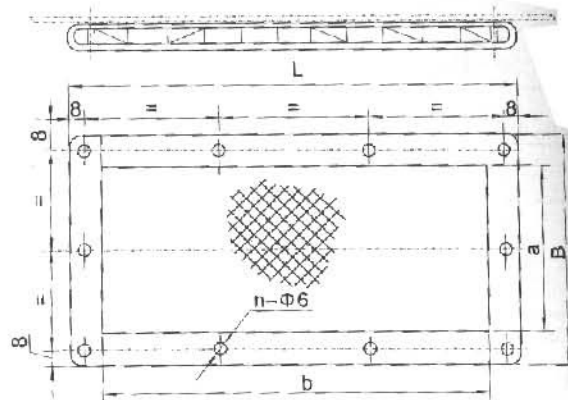
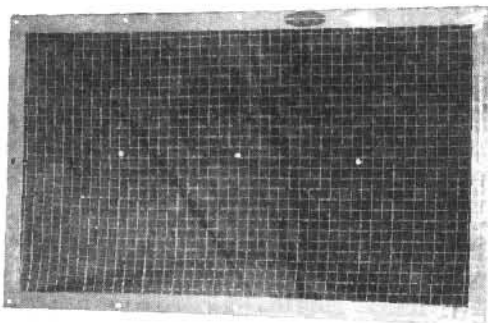


Grill C

Grill D

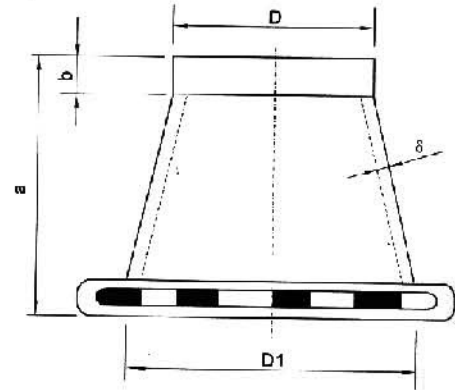
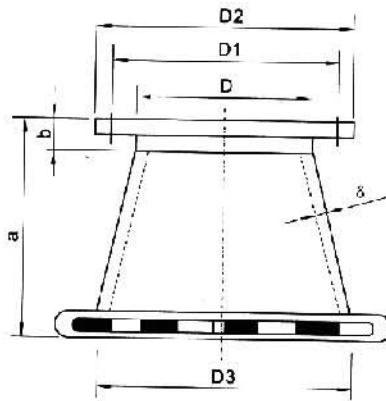
Main dimensions					No. of bolt holes	Wgt. ~kg		
Nom. dia. DN	Nom. dimension a x b	B1 x L1	B x L	δ		Grill B	Grill C	Grill D
100	60 x 150	66 x 165	100 x 210	2	6	0.15	0.64	0.72
		86 x 145	120 x 190					
125	60 x 230	66 x 245	100 x 290					
	80 x 170	86 x 185	120 x 230					
	100 x 130	106 x 145	140 x 190					
150	80 x 250	86 x 265	120 x 310					
	100 x 210	106 x 225	140 x 270					
	120 x 150	126 x 165	160 x 210					
175	80 x 350	86 x 365	120 x 410		8	0.29	1.19	1.59
	100 x 250	106 x 265	140 x 310					
	120 x 210	126 x 225	160 x 270					
200	100 x 350	106 x 365	140 x 410			0.36	1.32	1.93
	120 x 290	126 x 305	160 x 50					
	150 x 230	156 x 245	190 x 290					
250	120 x 470	126 x 485	160 x 530	10	0.52	1.89	2.81	
	150 x 350	156 x 365	190 x 410					
	190 x 290	196 x 305	230 x 350					
300	150 x 530	156 x 545	190 x 590	2.5	0.68	2.51	3.88	
	190 x 390	196 x 405	230 x 450					
	240 x 310	246 x 325	280 x 370					
350	190 x 550	196 x 565	230 x 610		12	0.74	3.11	4.94
	240 x 430	246 x 445	280 x 490					
	290 x 370	296 x 375	330 x 430					
400	190 x 70	196 x 785	230 x 830	14	0.81	3.76	6.01	
	240 x 550	246 x 565	280 x 610					
	290 x 470	296 x 485	330 x 530					

Ventilation grill E, F (CBT/462-1996)





Main dimensions					No. of bolt holes	Wgt. =kg		
Nom. dia.DN	Nom. dimension a x b	B1 x L1	e	f		Grill E	Grill F	
100	60 x 140	100 x 180	66	100	6	0.16	0.24	
	80 x 120	120 x 160	86	90				
125	60 x 220	100 x 260	66	140		6	0.18	0.29
	80 x 160	120 x 200	86	110				
	100 x 130	140 x 170	106	95				
150	80 x 250	120 x 290	86	155		6	0.22	0.36
	100 x 200	150 x 240	106	130				
	120 x 150	160 x 190	126	105				
175	80 x 350	120 x 390	86	205	8	0.27	0.44	
	100 x 250	140 x 290	106	155				
	120 x 210	160 x 250	126	135				
200	100 x 350	140 x 390	106	205	8	0.31	0.52	
	120 x 280	160 x 320	126	170				
	150 x 220	190 x 260	156	140				
250	120 x 470	160 x 510	126	265	10	0.42	0.73	
	150 x 350	190 x 390	156	205				
	190 x 280	240 x 320	196	170				
300	150 x 530	190 x 570	156	295	12	0.51	0.91	
	190 x 390	230 x 430	196	225				
	240 x 300	280 x 340	246	180				
350	190 x 550	230 x 590	196	305	12	0.65	1.16	
	240 x 420	280 x 460	246	240				
	290 x 360	330 x 400	296	210				
400	190 x 760	230 x 800	196	410	14	0.78	1.45	
	240 x 550	280 x 590	246	305				
	290 x 460	330 x 500	296	260				

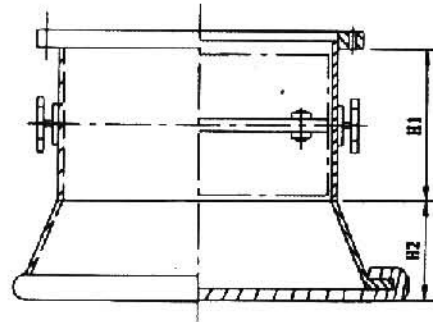
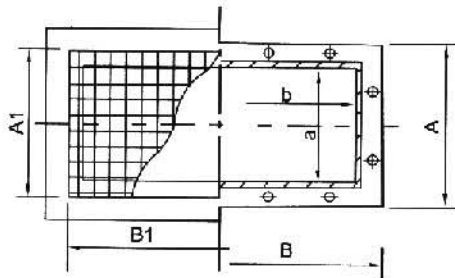
**Round fixed outlet(CB715-68)**

**Round fixed outlet A with flange**

Nom. dia.DN	a	b	D	D1	D2	D3	n	δ		Wgt.kg	
								Carbon steel(AG)	Aluminium(AL)	Carbon steel(AG)	Aluminium(AL)
100	100	10.0	106	136	156	140	8	1.0	1	0.73	0.35
125	125	12.5	131	161	181	175	12	1.0	1	0.99	0.49
150	150	15.0	156	186	206	210	12	1.0	2	1.30	0.64
175	175	17.5	181	211	231	245	16	1.0	2	1.61	0.84
200	200	20.0	206	236	256	280	16	1.5	3	2.66	1.47
250	250	25.0	256	286	306	350	20	1.5	3	3.85	2.18
300	300	30.0	306	336	356	420	24	1.5	3	5.27	3.03

**Round fixed flange outlet B with round flange**

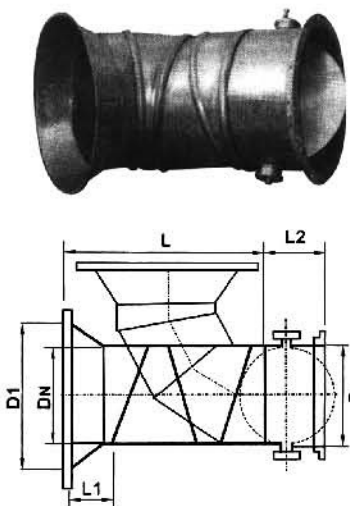
Nom. dia.DN	a	b	D	D1	δ		重量 kg Wgt.kg	
					Carbon steel(AG)	Aluminium(AL)	Carbon steel(AG)	Aluminium(AL)
100	97	7.0	106	136	1.0	1	0.35	0.22
125	122	9.5	131	161	1.0	1	0.54	0.34
150	147	12.0	156	188	1.0	2	1.77	0.48
175	172	14.5	181	211	1.0	2	1.02	0.64
200	197	17.0	206	236	1.5	3	1.99	1.24
250	247	22.0	256	286	1.5	3	3.05	1.90
300	297	27.0	306	336	1.5	3	4.32	2.70

### Rectangular fixed air diffuser



Nom. dia. DN	Nom. dimension for rectangular passage		H1	Diffuser dimension			Flange ext. dimension		Wgt.kg
	a	b		A1	B1	H2	A	B	
150	100	200	120	130	230	60	155	205	1.87
	120	150	140	150	188	70	175	205	2.27
200	120	280	140	158	318	70	175	335	2.67
	150	220	180	200	270	90	206	276	2.95
250	150	350	180	200	400	90	206	406	3.83
	190	280	220	250	340	110	246	336	4.10
300	190	390	220	250	450	110	246	446	5.80
	240	300	280	315	375	140	297	357	5.52
350	190	550	220	250	610	110	246	606	6.34
	240	420	280	315	495	140	297	447	6.97
400	240	550	280	315	625	140	297	607	7.92
	290	460	340	380	550	170	350	520	8.64

### Rotary bell mouth outlet(CB459-66)



DN Nom. dia. DN	Section area m <sup>2</sup>	D	D1	L	L1	L2	Wgt.kg	
							Aluminium(LZ)	Steel sheet(GZ)
150	0.0176	154	192	272	58	110	1.530	3.045
200	0.0314	203	254	323	70	110	2.950	6.054
250	0.0492	253	316	376	83	150	4.003	8.498
300	0.0707	303	379	428	95	150	5.013	10.822
350	0.0960	352	440	481	110	200	7.554	17.470
400	0.1250	402	503	533	120	200	9.038	21.101
450	0.1589	456	570	590	134	200	11.005	25.944

Note. Adjusting plates matched according to customer requirements.