

智勇 仁强
和合 恩泽



江苏仁泽通风设备制造有限公司

JIANGSU RISEN VENTILATION MANUFACTURING CO.,LTD

集设计 制作 安装 调试为一体
提供专业 优质 高效的通风管道系统

Design Production Installation Commissioning
Provide Professional High Quality and Efficiency of Air Duct Systems





























About Us

Jiangsu risen ventilation equipment manufacturing co., LTD. Is a professional enterprise integrating ventilation system design, production, installation and commissioning. In the field of metal ventilation duct manufacturing, risen ventilation has been in the industry leading level. At present, risen ventilation can produce 1 million square meters, 1 million square meters and 1 million duct fittings per year. Risen ventilation has the industry's most advanced production equipment and technology. Welding equipment is verified annually by a third party; The welding personnel and welding process were assessed by WPS according to ASME IX pressure vessel standard and AWS D9.1 ventilation sheet welding gauge, and approved by DNV and CCS of the third party. Welding with welding material of AWS standard; Conduct appearance inspection after welding in accordance with AWS/ASME/ENISO and other standards; Control before and after welding to ensure product quality. The company has established a perfect quality management system and obtained ISO9001 international quality system certification. Using IT means, scientific information system to manage and track the product, and guarantee the product quality comprehensively. The company's core product spiral air duct system is far beyond the national standard, and the quality and process meet the requirements of European <DW144>. Under the European <DW143> testing standard, the leakage performance of the system exceeds the highest standard D class. Professional, reliable, risen with excellent products to win customers, with a full range of services to customer satisfaction.
































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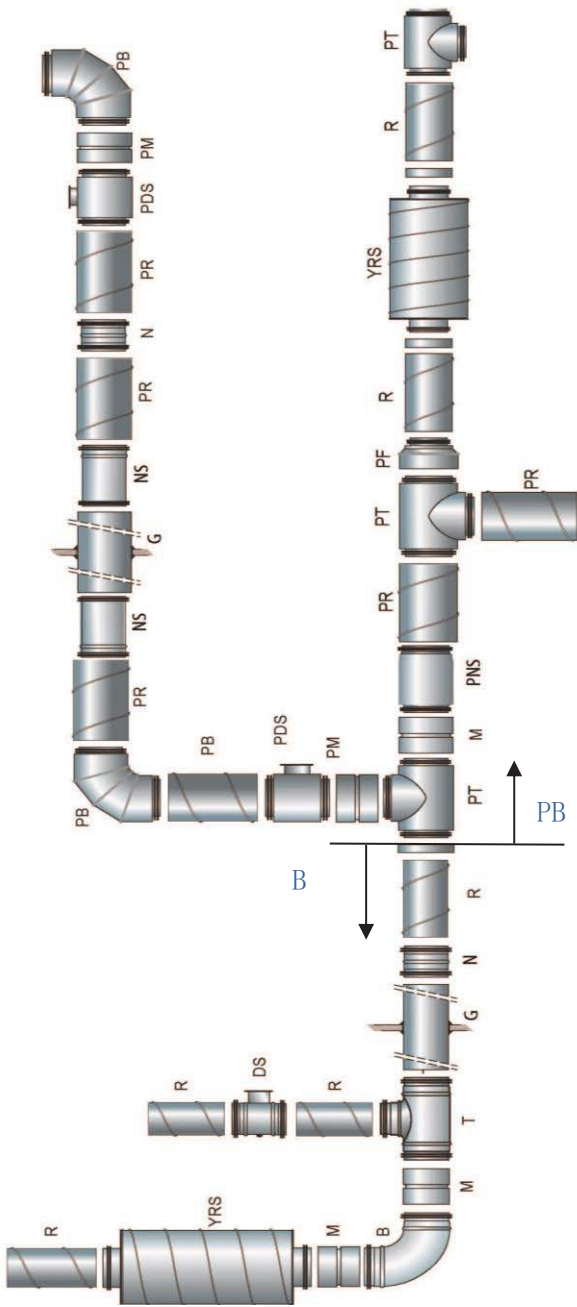


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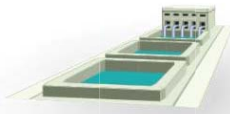
Company profile



Pipeline System Example



buildings, fresh air, dust removal, powder transport



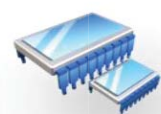
Environmental Technology



Biopharmaceutical



Ship Cruise Navy



Semi-conductor

Company profile

Jiangsu risen ventilation equipment manufacturing co., LTD. Is a professional engaged in land, ship, dust ventilation system, design, manufacture, installation as one of the new EPCI general contractor!The company formulates the production technology according to the international industry highest standard, owns the industry many kinds of advanced production equipment, has many patent products.

The spiral air duct accessories provided by the company are all punching process, and it is the national leading position in galvanized dust removal and stainless steel secondary stamping elbow.

The company's products are widely used in various ventilation fields, such as ship luxury cruise ship, military industry, Marine drilling platform, electronic chip plant, dust removal workshop, etc., to provide all-round quality service for the smooth progress of the project.

Environmental protection, energy saving, innovation and efficient system solutions have been our relentless pursuit of renze ventilation goals, and we are already on the road!

The feature of spiral duct system

- Working pressure: -3000 Pa to 5000Pa;
- Diameter can be up to 2500mm, wall thickness 2.5mm; The ventilation system composed of spiral pipe and duct fittings can meet European standard <DW144>, and the tightness exceeds <DW143>D level.
- Choose 275g galvanized steel plate, corrosion and rust resistance performance good, also available Stainless steel plate, aluminum plate, aluminum zinc plate and other materials;
- Pipe stamping molding, standardized and large-scale production, size of precision Sure, beautiful appearance, minimal wind resistance, good sealing effect;
- Using seam welding process, the production of pipe sealing performance is good, do not damage Zinc layer, neat and beautiful welding seam;
- "F" type EPDM sealing gasket edge fixed, not slippery when installed
- It has good sealing effect and long service life. Adopts advanced professional machinery equipment, produced pipe parts, screw pipe no
- Scratch, internal embossing uniform, enhance corrosion and rust resistance;
- Installation is convenient, simple and efficient, and can save a lot of installation costs.

- The thermal insulation system in the spiral duct system is used to transmit cold and hot air.
- The insulation system is certified by GL or DNV or ABS. As a thermal insulation layer, glass floss has light weight, good heat preservation effect and life cycle. The period is long.
- Double inserting of inner and outer pipes improves installation strength.

Product design science, pipe and pipe fittings are closely linked, efficient system, beautiful appearance View

Note:

most products listed in this sample are less than or equal to 400mm in diameter.

Products, more sizes and other requirements can be customized according to customer requirements.

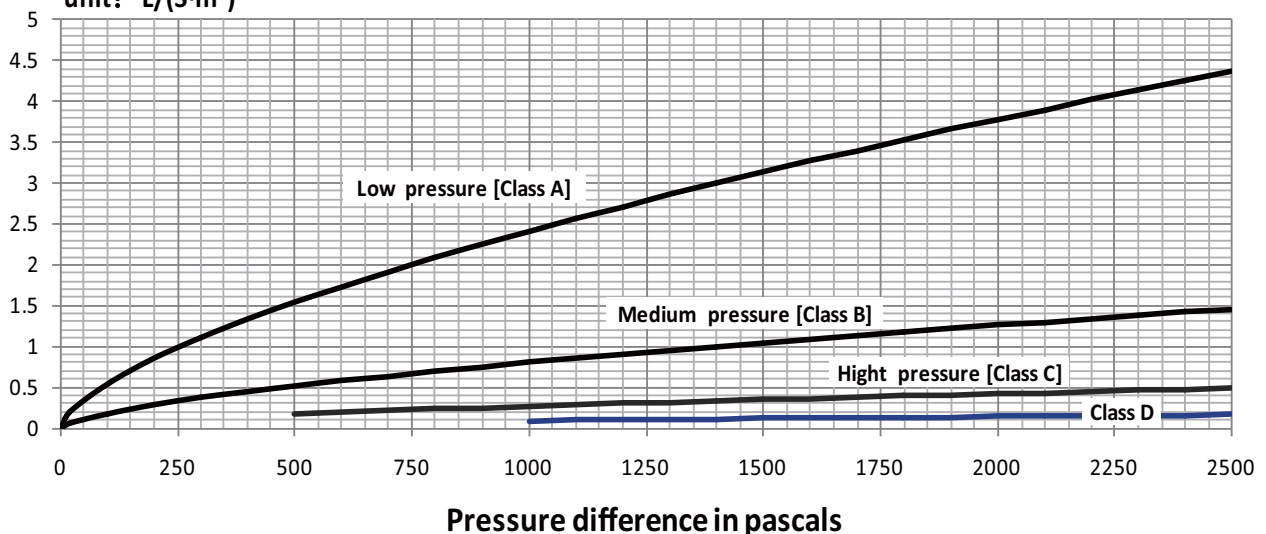
For example, the outer tube is made of aluminum alloy or stainless steel material, or the heat insulation thickness is increased. Degree and so on. Non stamping products such as hand fittings and pipes can be customized according to customer requirements. The system is not limited to the specifications listed in this sample, and the sample is not described in detail.



Risen spiral duct system has been tested according to <DW143>, the result of the Air Leakage limit level is over Class D.

Ductwork Classification and Air Leakage Limits(DW143)

unit: L/(S·m²)



Pressure Curves -- Ducts

Basic calculation data for ducts and fittings given by European standard.

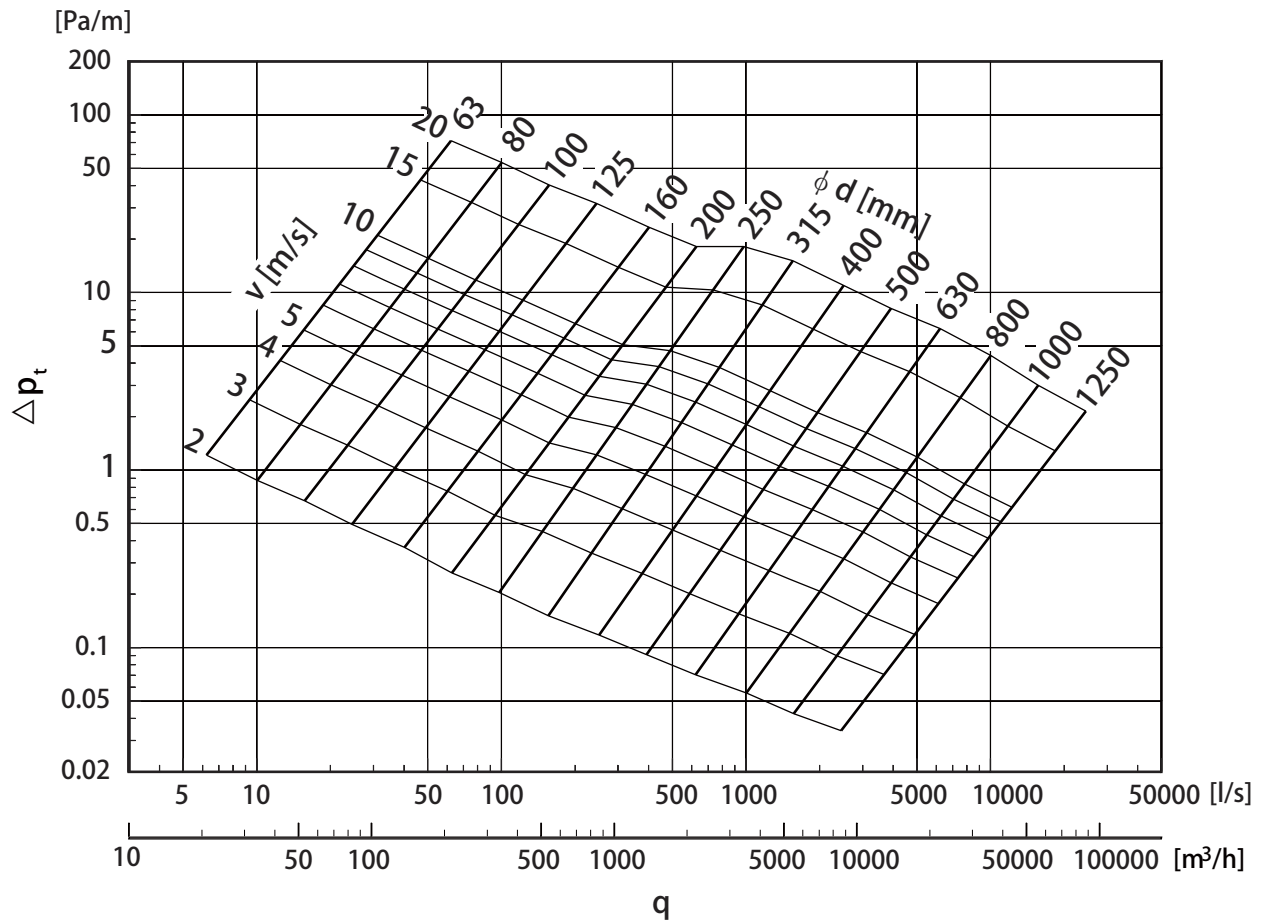
The rated nominal air flow resistance (P nom) should be corrected with regard to leakage and fan connection:

$\Sigma \Delta p_t = \Delta p_{nom} + \Delta p_{leakage} + \Delta p_{fan}$. the air flow resistances are charted directly in Pa.

- The data in the charts refer to total pressure drop and the direct measurements of the energy loss caused by the air flow resistances. (Pa=1J/m)
- The influence of the choice of velocity on the pressure drop can be judged directly.
- The differences in pressure drop between the first and the nth branches can be read directly.
- The effect of a transition in 1,2 or 3 size steps can be read directly.



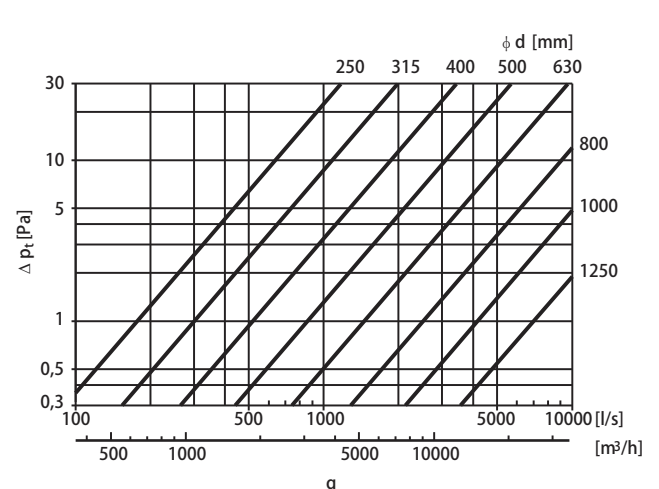
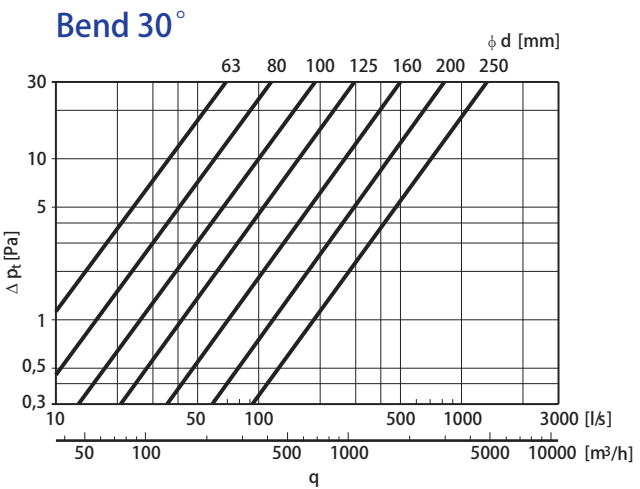
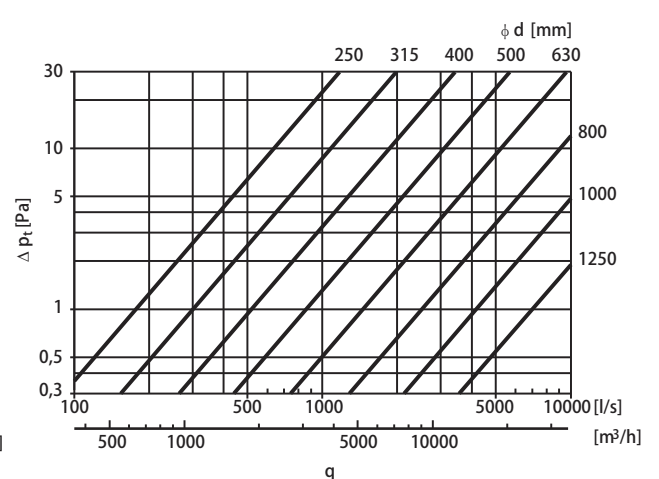
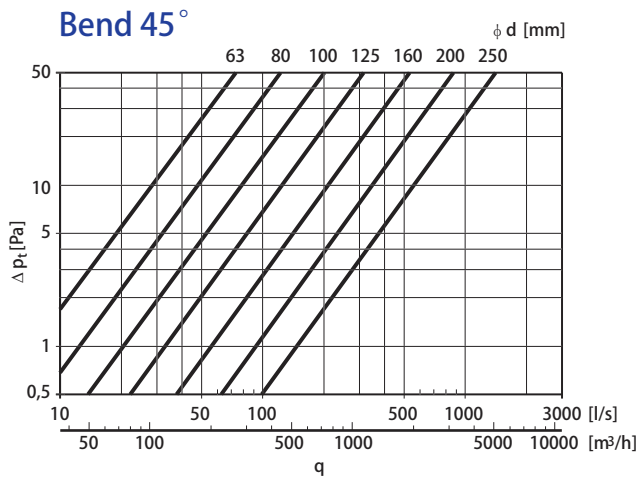
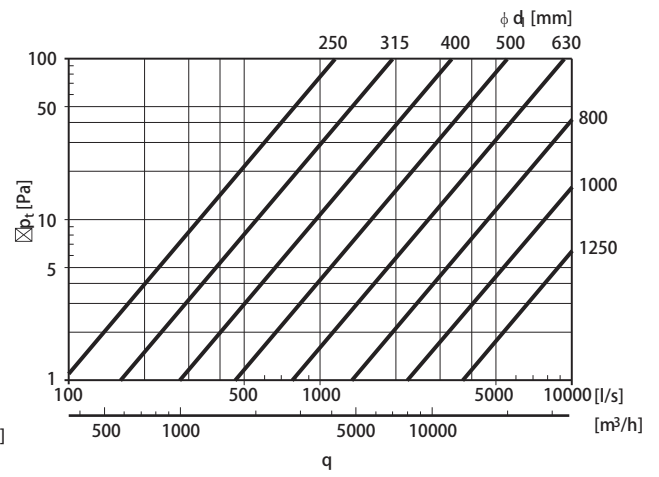
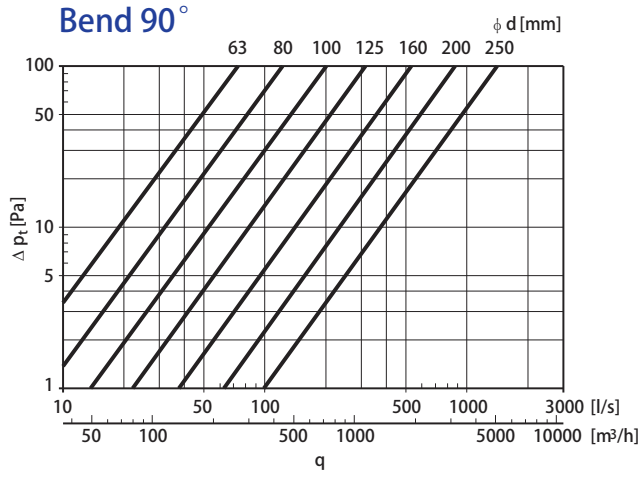
• Duct



Pressure Curves -- Bends

Bend $d \leq 200$

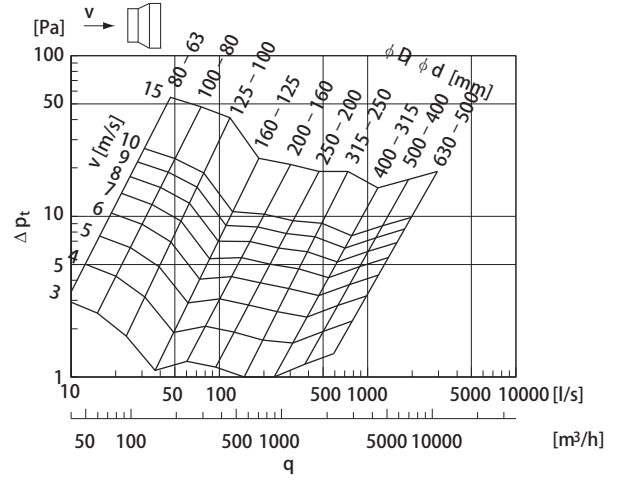
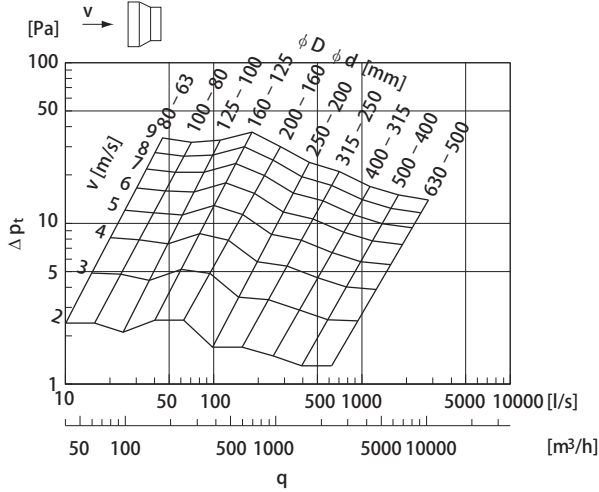
Bend $d > 250$



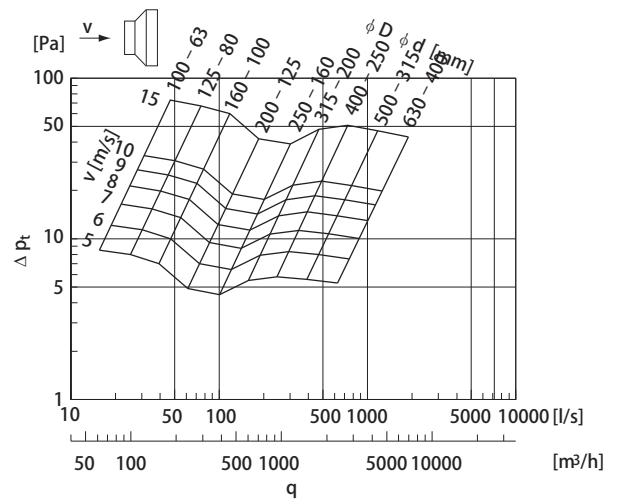
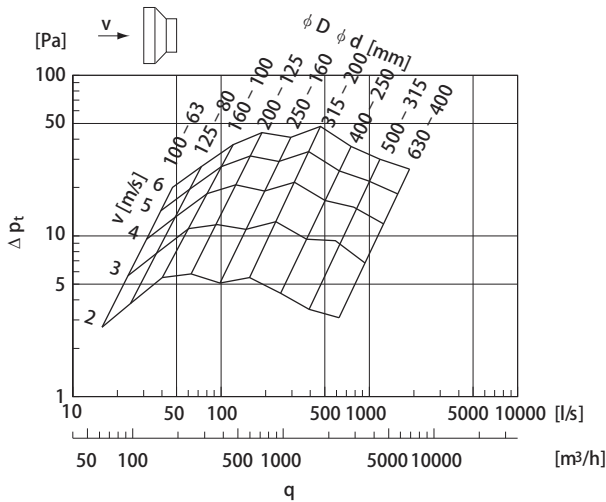
Pressure Curves -- Reducers

- Reducer Type-1 $D/d=1.25$ Example : F200/160= Size -1 F200/120=2 F200/100=3

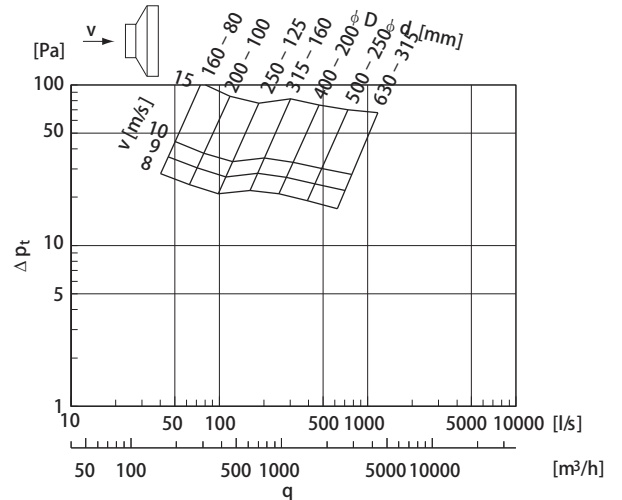
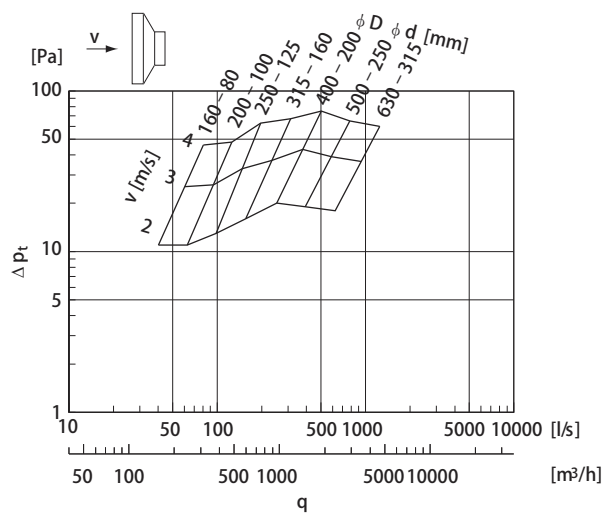
1 Size 1



2 Size 2



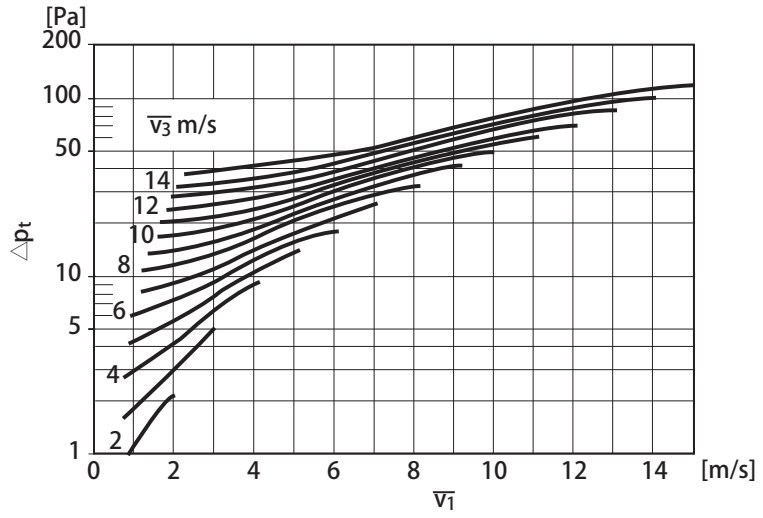
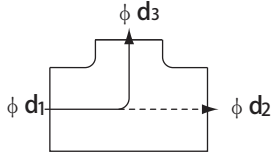
3 Size3



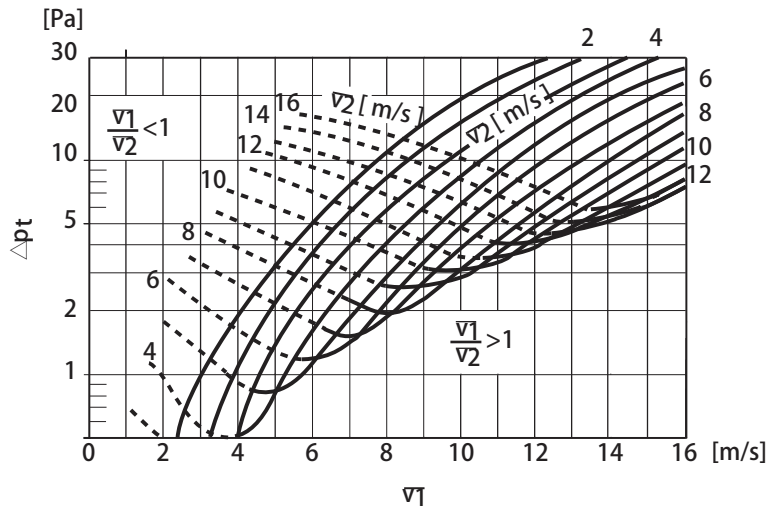
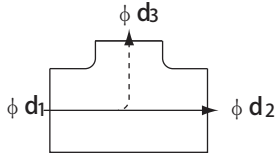
Pressure Curves -- Take-offs / T-pieces

• Take-offs / T-pieces

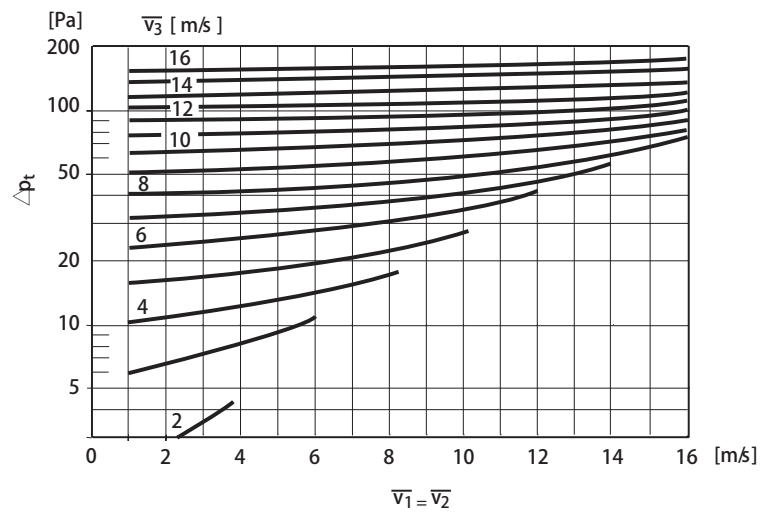
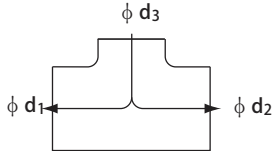
Diverging flow



Diverging flow

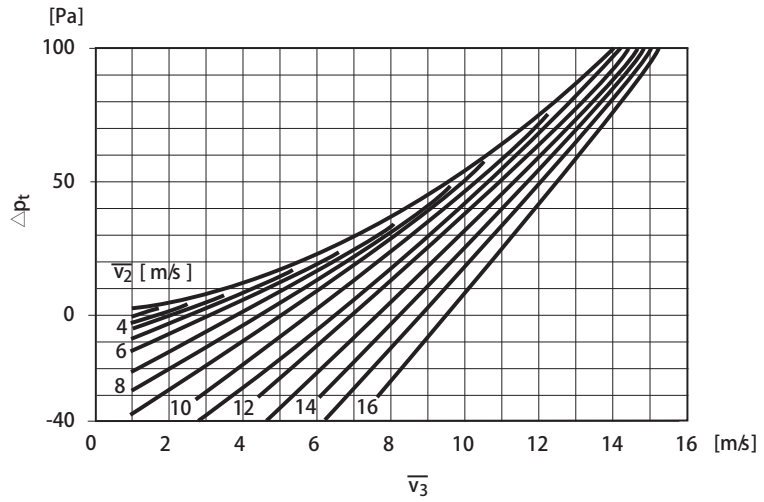
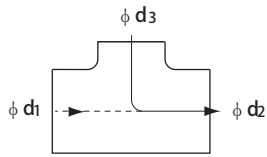


Diverging flow

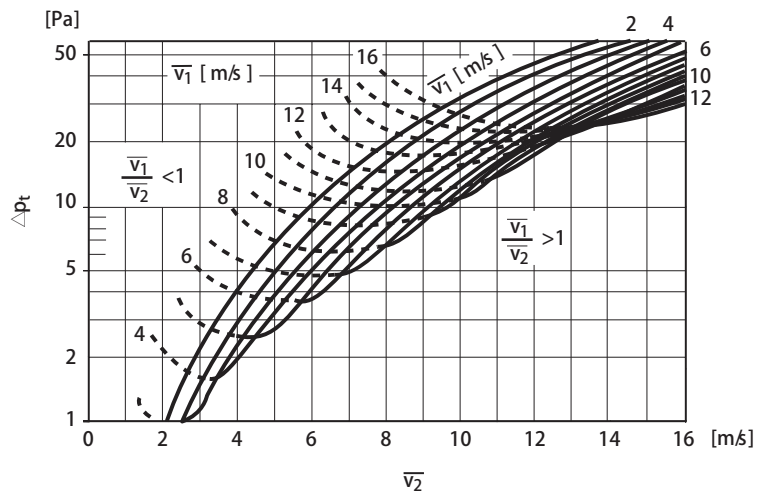
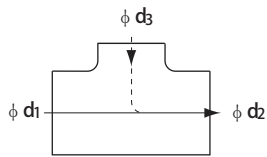


Pressure Curves -- Take-offs / T-pieces

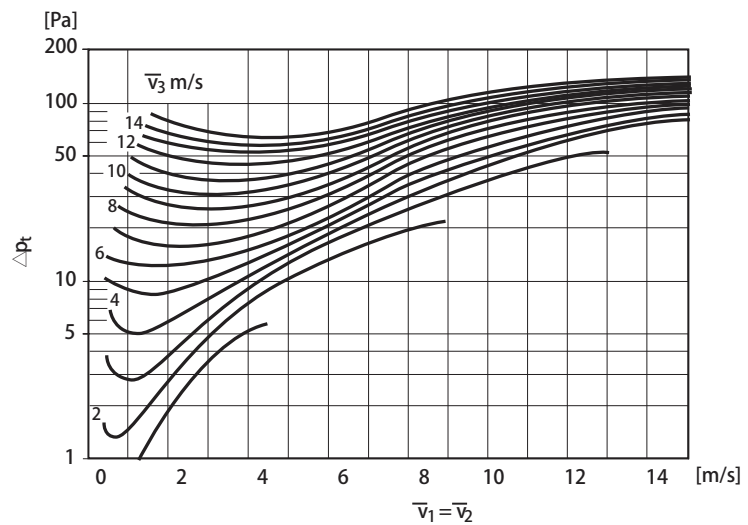
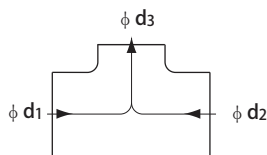
Diverging flow



Diverging flow

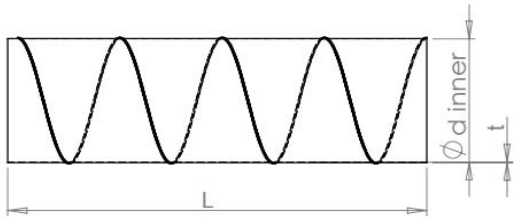


Diverging flow



Tolerances and Specifications

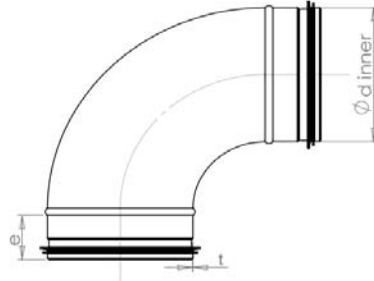
Ducts



d	Min	Max	t
80	80.0	- 80.5	0.50
100	100.0	- 100.5	0.50
112*	112.0	- 112.5	0.50
125	125.0	- 125.5	0.50
130	130.0	- 130.6	0.50
132*	132.0	- 132.6	0.50
140	140.0	- 140.6	0.50
150	150.0	- 150.6	0.50
155	155.0	- 155.6	0.50
157*	157.0	- 157.6	0.50
160	160.0	- 160.7	0.60
170	170.0	- 170.7	0.60
175	175.0	- 175.7	0.60
180	180.0	- 180.7	0.60
182*	182.0	- 182.7	0.60
190	190.0	- 190.7	0.60
192*	192.0	- 192.7	0.60
200	200.0	- 200.7	0.60
207*	207.0	- 207.7	0.60
210	210.0	- 210.8	0.60
212	212.0	- 212.8	0.60
224	224.0	- 224.8	0.60
225	225.0	- 225.8	0.60
232*	232.0	- 232.8	0.60
250	250.0	- 250.8	0.60
257*	257.0	- 257.8	0.60
260	260.0	- 260.8	0.60
270	270.0	- 270.8	0.60
280	280.0	- 280.8	0.60
282*	282.0	- 282.8	0.60
290	290.0	- 290.8	0.60
300	300.0	- 300.9	0.60
315	315.0	- 315.9	0.60

* Outside diameter of insulated duct

Fittings

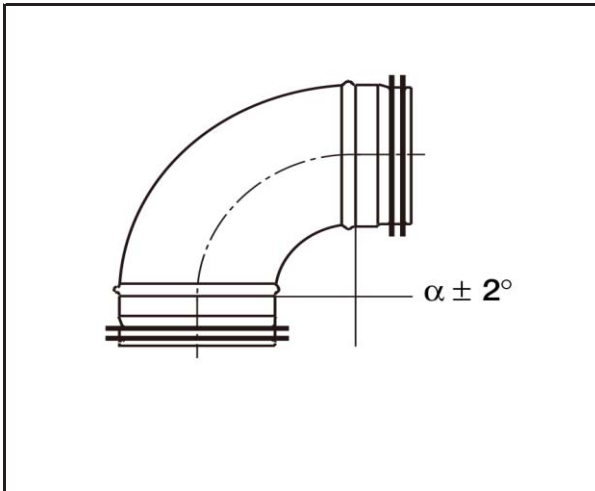


d	Min	Max	t
80	78.8	- 79.3	0.50
100	98.8	- 99.3	0.50
112*	110.8	- 111.3	0.50
125	123.8	- 124.3	0.50
130	128.8	- 129.3	0.50
132*	130.8	- 131.4	0.50
140	138.8	- 139.4	0.50
150	148.7	- 149.3	0.50
155	153.7	- 154.3	0.50
157*	155.7	- 156.4	0.50
160	158.6	- 159.3	0.60
170	168.6	- 169.3	0.60
175	173.6	- 174.3	0.60
180	178.6	- 179.3	0.60
182*	180.6	- 181.3	0.60
190	188.6	- 189.3	0.60
192*	190.6	- 191.3	0.60
200	198.6	- 199.3	0.60
207*	205.6	- 206.3	0.60
210	208.6	- 209.4	0.60
212	210.6	- 211.4	0.60
224	222.6	- 223.4	0.60
225	223.6	- 224.4	0.60
232*	230.6	- 231.4	0.60
250	248.5	- 249.3	0.60
257*	255.5	- 256.3	0.60
260	258.5	- 259.3	0.60
270	268.5	- 269.3	0.60
280	278.5	- 279.3	0.60
282*	280.5	- 281.3	0.60
290	288.5	- 289.3	0.60
300	298.4	- 299.3	0.60
315	313.4	- 314.3	0.60

* Outside diameter of insulated duct without sealing

Tolerances and Specifications

Angle Tolerances



Length Tolerances

Length L, r,rm,e	Tolerances (mm)
0-15	±3
(15) -100	±7
>100	+10 -15
L Duct	±0.5%

Material Specification

Material

Galvanized steel sheet, DX51D, Z275
 Other materials can be customized.
 Other zinc thickness steel plate
 Aluminium zinc plate
 304/304 304/304 I/I stainless steel
 Aluminum alloy
 Plastic-coated steel plate

Sealings

Ethylene propylene rubber (EPDM) production,
 pipe diameter over 400mm for "L" type of rubber,
 the rest is "F" type of rubber. EPDM rubber has
 the function of anti-ozone and ultraviolet ray.

Insulation material

1) flame retardant glass wool, with a density of
 32kg/m³, and insulation thickness of thermal
 insulation duct and duct fittings: the insulation
 thickness of 80-350 pipe diameter is 15mm;The
 insulation thickness of 25mm is acceptable
 Custom;Other thickness can be customized as
 required.

Surface

Product is made of galvanized sheet, and the
 surface treatment grade is Z275, that is, the weight
 of double-sided galvanizing is 275g/m², and the
 average thickness of zinc coating is 20 sheets, so
 it has strong corrosion resistance.

Default length unit: mm

Angle units: Degree °

Weight unit (W) : kg

Diameter.....d,D

Angle.....α

The actual length of the installation.....L

Center distanceR

Plug length.....e

Material thickness.....t

Installation Instruction

Spiral ducts must be assembled according to these instructions to ensure quality and safety :

Preparator • y Work

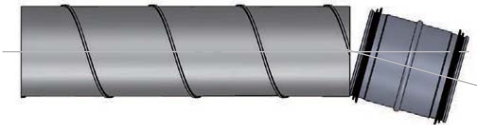
Warning!

Spiral ducts are made of thin sheet metal, sometimes have razor-sharp edges.

Be esp ecially carefully with the cut edges of spiral ducts and straight sheet metal edges of fittings.

Please wear protective gloves when installing

Before installation, ducts must be free from dirt.



Shortening Ducts

Ducts must be cut at right angles to get a proper installation length and carefully deburred.

Assembly of Fittings

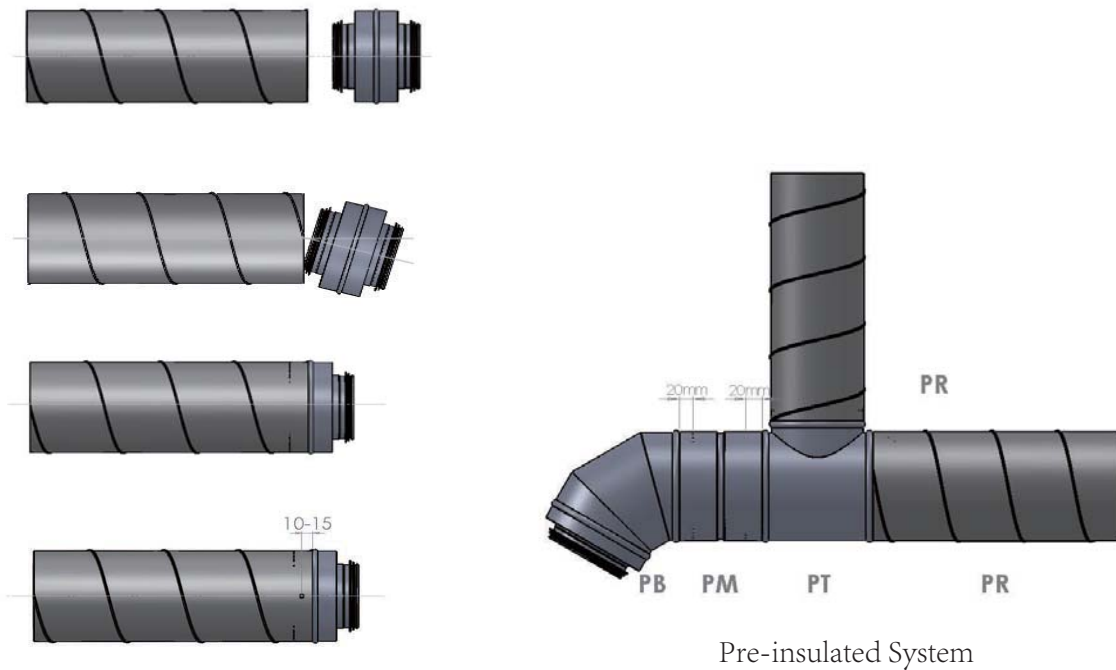
- Ensure the ducts and fittings are undamaged. This is especially important with regard to the rubber gaskets
- Push the fittings into the duct right to the stop. Turning the fittings a little makes insertion easier.
- Fasten the fittings to duct with self-tapping screws or pop rivets.

Diameter	Dimension of screws	Quantity
80 - 100	4.2	3
125 - 200	4.2	4
225 - 400	4.2	6

Table 1

The quantity and dimension of steel screws and pop rivets are recommended in table 1.

Distribute the screws or pop rivets evenly around the circumference, ensuring that the rubber gaskets are not damaged. For example, placing them approx.10 mm from the top to the end, but the holes caused by screws or pop rivets must be sealed.



Assembly Instruction of Preinsulation Series

Centre the insides duct on the connection nipple or slide it in over the inner pipe of the fittings. This process is simple, as the straight end of the inner duct is about 20mm longer than the outer jacket. Then join and fasten the outer jackets with steel screws or rivets. In outdoor assembly the joints in the outer jacket must be completely sealed-use silicone or the like.

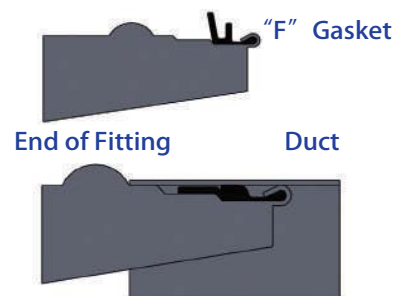
The joints should be compressed as much as possible to avoid air pockets. Ducts should be shortened at right angles and deburred before assembly.

Suspension clamps should be placed on the ducts at maximum intervals of 2m.

Sealing System

Sealing system adopts F-profile EPDM rubber gasket. The material is very resistant to ozone and UV rays, and at the same time unaffected by temperature fluctuations. With regard to tensile strength, elongation at break and anti-aging index, it has a better performance than normal gasket.

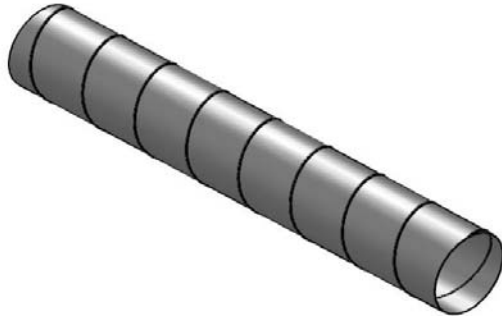
Two ways can be used to fasten EPDM rubber gasket: one is by hemming, the other is by fixing the gasket on the groove at the end of fittings, then use galvanized steel strip to fasten. Both ways can ensure EPDM rubber gasket to be always held in its correct position without sliding, shedding or shifting.



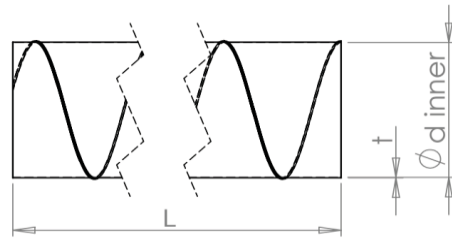
Spiral Duct

R

R



Dimension



w \ d	0.40	0.50	0.60	0.75	1.00	1.20
80	0.9	1.1	1.4	1.7		
100	1.1	1.4	1.7	2.1		
125	1.4	1.8	2.1	2.6	3.5	
150	1.7	2.1	2.6	3.2	4.2	
160	1.8	2.2	2.7	3.4	4.5	
175		2.5	3.0	3.7	4.9	
180		2.5	3.1	3.8	5.1	
200		2.8	3.4	4.3	5.6	
225		3.2	3.9	4.9	6.3	
250		3.5	4.3	5.4	7.0	8.4
280		4.0	4.8	6.1	7.9	8.7
300		4.3	5.1	6.5	8.5	10.1
315		4.5	5.4	6.8	8.9	10.6
355		5.0	6.1	7.7	10.1	12.0
400		5.6	6.9	8.7	11.3	13.5
450		6.3	7.7	9.7	12.8	15.2
500		7.0	8.6	10.8	14.2	17.0
550		7.7	9.4	11.9	15.6	18.7
600		8.4	10.3	13.0	17.0	20.4
630			10.8	13.6	17.9	21.4
650			11.2	14.1	18.4	22.1
700			12.0	15.1	19.8	23.8
750				16.2	21.3	25.5
800				17.3	22.7	27.2
850				18.4	24.1	28.9
900				19.5	25.5	30.6
950				20.5	26.9	32.3
1000				21.6	28.3	34.0
1100				23.8	31.2	37.4
1250				27.0	35.4	42.5
1400					39.7	47.6
1500					42.5	51.0
...						

Description

Spiral R is made of galvanized sheet steel. The standard length L is 3,4,5 m; Special length and plate thickness can be customized as required.400

Ordering

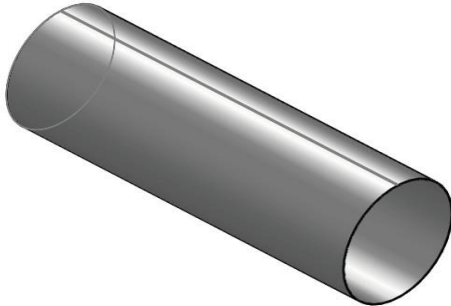


Unit: kg/m

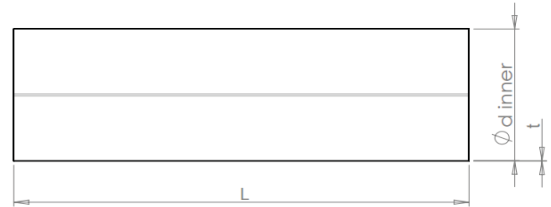
Weding Duct

RW

RW



Dimension

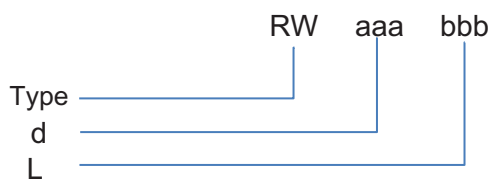


Description

Welding straight pipe RW USES galvanized sheet, stainless steel, carbon steel is made;The standard length L is 1250mm. Special length and plate thickness can be customized as required.

d	t	W
100	0.60	1.4
125	0.60	1.7
150	0.60	2.0
160	0.60	2.1
175	0.75	2.3
180	0.75	2.3
200	0.75	2.6
225	0.75	2.9
250	0.75	3.2
280	0.75	3.6
300	0.75	3.8
315	0.75	4.0
350	0.75	5.3
355	1.00	5.4
400	1.00	6.1
450	1.00	6.8
500	1.00	9.4
550	1.00	10.4
600	1.00	11.3
650	1.00	12.2
700	1.00	13.1
800	1.00	15.0
900	1.00	16.8
1000	1.00	18.7
1100	1.20	27.4
1250	1.20	31.1
...

Ordering



单位: kg/m

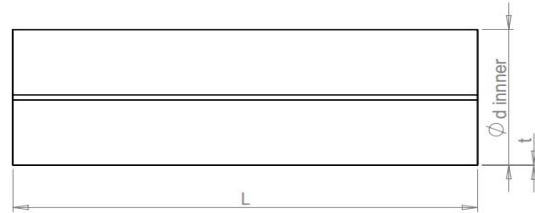
Segmented Duct

RH

RH



Dimension



Description

The straight duct RH is made of galvanized sheet steel.
The standard length is 1250/1500;
Special length can be customized as required

d	t	W
80	0.5	1.1
100	0.5	1.4
125	0.5	1.7
150	0.5	2.0
160	0.5	2.1
175	0.5	2.3
180	0.5	2.3
200	0.5	2.6
225	0.5	2.9
250	0.5	3.2
280	0.5	3.6
300	0.5	3.8
315	0.5	4.0
350	0.6	5.3
355	0.6	5.4
400	0.6	6.1
450	0.6	6.8
500	0.8	9.4
550	0.8	10.4
600	0.8	11.3
650	0.8	12.2
700	0.8	13.1
800	0.8	15.0
900	0.8	16.8
1000	0.8	18.7
1100	1.0	27.4
1250	1.0	31.1
...

Ordering



单位: kg/m

Pressed Bend

B 90°/45°

B90°



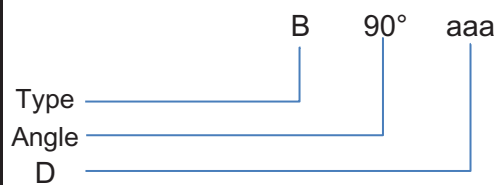
B45°



Description

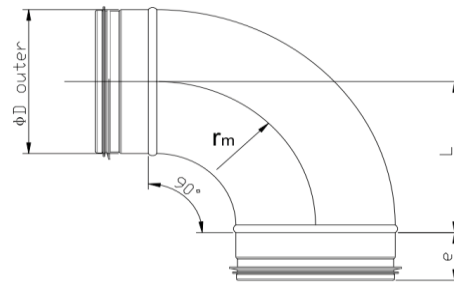
Pressed and seam welded bend.
 $r_m = 1 \times \text{ØD}$

Ordering



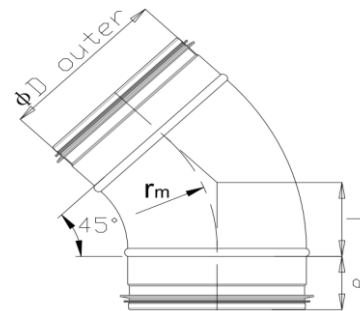
Dimension

B 90°



D	L	r_m	e	W	t
80	100	100	33.5	0.3	0.5
100	100	100	33.5	0.4	0.5
125	125	125	33.5	0.6	0.5
140	140	140	33.5	0.8	0.5
150	150	150	33.5	0.9	0.5
160	160	160	33.5	1.0	0.5
180	180	180	37.5	1.2	0.6
200	200	200	37.5	1.5	0.6
225	225	225	37.5	1.8	0.6
250	250	250	37.5	2.0	0.6

B 45°



D	L	r_m	e	W	t
80	41	100	33.5	0.2	0.5
100	41	100	33.5	0.2	0.5
125	52	125	33.5	0.3	0.5
140	58	140	33.5	0.3	0.5
150	62	150	33.5	0.4	0.5
160	66	160	33.5	0.5	0.5
180	75	180	37.5	0.7	0.6
200	83	200	37.5	0.9	0.6
225	93	225	37.5	1.1	0.6
250	104	250	37.5	1.3	0.6

Pressed Bend

B 30°/15°

B30°



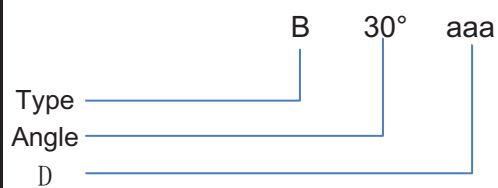
B15°



Description

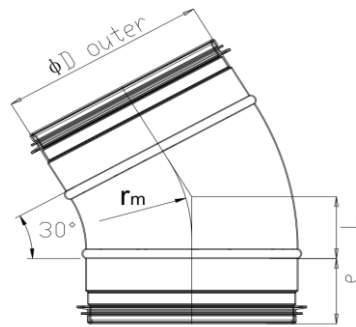
Pressed and seam welded bend.
 $r_m = 1 \times \phi D$

Ordering



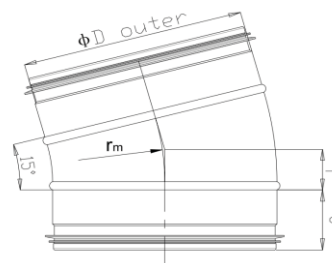
Dimension

B 30°



D	L	r_m	e	W	t
80	27	100	33.5	0.2	0.5
100	27	100	33.5	0.2	0.5
125	33	125	37.5	0.3	0.5
150	40	150	37.5	0.35	0.5
160	43	160	33.5	0.4	0.5
180	48	180	37.5	0.5	0.6
200	54	200	37.5	0.6	0.6

B 15°



D	L	r_m	e	W	t
80	13	100	33.5	0.15	0.5
100	13	100	33.5	0.16	0.5
125	16	125	37.5	0.2	0.5
150	20	150	37.5	0.25	0.5
160	21	160	33.5	0.3	0.5
180	24	180	37.5	0.3	0.6
200	26	200	37.5	0.4	0.6

Pressed Bend

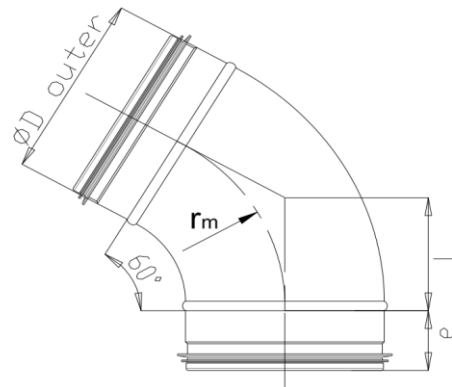
B 60°

B60°



Dimension

B 60°

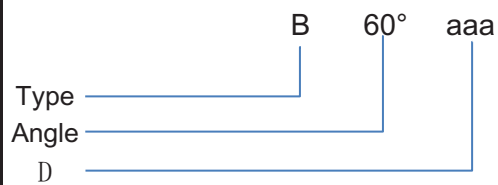


Description

Pressed and seam welded bend.
 $r_m = 1 \times \text{ØD}$

D	L	r_m	e	W	t
80	58	100	33.5	0.3	0.5
100	58	100	33.5	0.4	0.5
125	72	125	33.5	0.5	0.5
150	87	150	33.5	0.9	0.5
160	92	160	33.5	1.0	0.6
180	104	180	37.5	1.2	0.6
200	115	200	37.5	1.5	0.6

Ordering



Pressed Bend-Small Dia. 0.8D 0.6D

B

B90°



B45°



Description

Pressed and seam welded bend.
 $r_m = 0.8 \times \phi D$
 $r_m = 0.6 \times \phi D$
 When the R is not 1D, the r dimension must be marked

Ordering

B 30° aaa 0.6

Type _____

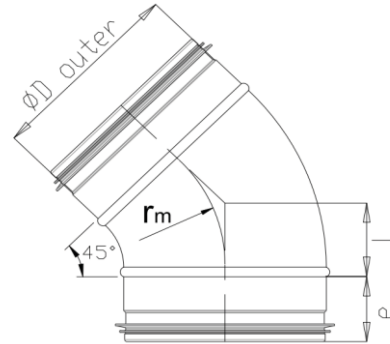
Angle _____

D _____

r_m _____

Dimension

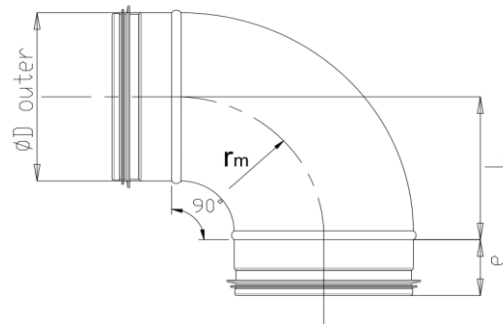
B



D	L	r_m	e	t	angle
125	105	105	27.5	0.5	90°
160	125	125	33.5	0.5	90°
180	160	160	33.5	0.5	90°
224	200	200	37.5	0.5	90°
125	105	100	27.5	0.5	45°
160	125	128	33.5	0.5	45°
180	160	144	37.5	0.5	45°
224	200	179.2	37.5	0.5	45°

$r_m = 0.8 \times \phi D$

B



D	L	r_m	e	t	angle
80	48	48	40	0.5	90°
100	60	60	40	0.5	90°
125	73	73	40	0.5	90°
160	95	95	40	0.5	90°
200	120	120	40	0.5	90°

$r_m = 0.6 \times \phi D$

Segmented Bend

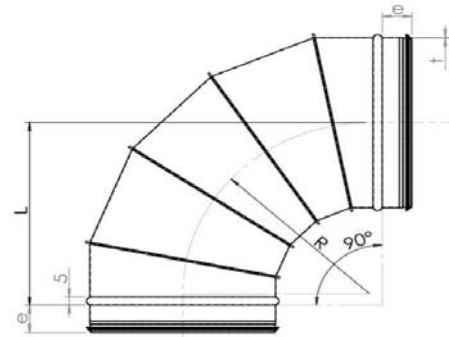
BH

BH



Dimension

BH



Description

Angle available: 15° 30° 45° 60° 90°.

Standard size CLD R=D.

L-profile EPDM rubber gasket (If gasket is not needed, please specify "X" after type, i.e. BHX90)

Use seaming process to fabricate bends only for dimensions not included in pressed bends and bends with diameter

over 200mm. Maximum diameter is 2500mm, and individual diameters and angles are available on request.

Ordering



D	e	W				
		90°	60°	45°	30°	15°
225	37.5	1.8	1.3	1.1	0.8	0.5
250	37.5	2	1.5	1.3	1	0.7
300	47.5	2.9	2.1	1.8	1.1	0.9
315	47.5	3.2	2.2	1.9	1.4	0.9
350	47.5	4.6	2.8	2.4	1.5	1.3
355	47.5	4.7	2.9	2.5	1.8	1.6
400	47.5	5.8	3.5	3	2.3	1.7
...

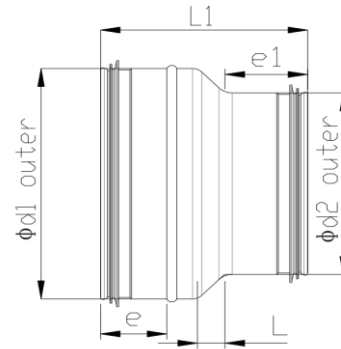
Pressed Female Reducer

FN

FN



Dimension



Description

F reducers are centric and female-male pressed.
 The D side connection fits externally on the fitting.
 If gasket is not needed, please specify "X" after type, i.e. FX

d1	d2	L	L1	e	e1	W
100	80	10.0	92.0	33.5	33.5	0.12
125	80	22.5	104.5	33.5	33.5	0.16
	100	12.5	99.5	33.5	33.5	0.15
160	80	40.0	122.0	33.5	33.5	0.20
	100	30.0	117.0	33.5	33.5	0.18
	125	17.5	104.5	33.5	33.5	0.22
180	80	50.0	131.0	37.5	33.5	0.20
	100	40.0	121.0	37.5	33.5	0.18
	125	27.5	108.5	37.5	33.5	0.24
	160	10.0	91.0	37.5	33.5	0.22
200	80	60.0	141.0	37.5	33.5	0.21
	100	50.0	131.0	37.5	33.5	0.34
	125	37.5	123.5	37.5	33.5	0.30
	160	20.0	106.0	37.5	33.5	0.27
	180	10.0	90.0	37.5	37.5	0.26
250	100	75.0	156.0	37.5	33.5	0.25
	125	62.5	148.5	37.5	33.5	0.42
	160	45.0	131.0	37.5	33.5	0.38
	180	35.0	115.0	37.5	37.5	0.40
	200	25.0	105.0	37.5	37.5	0.38

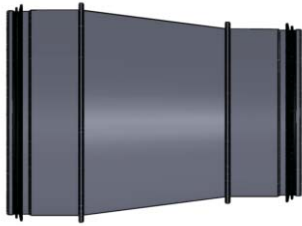
Ordering



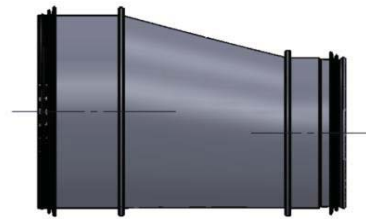
Seamed Female Reducer

FNS/FNSD

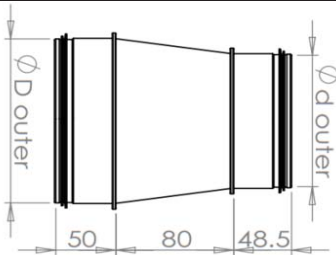
FNS



FNSD

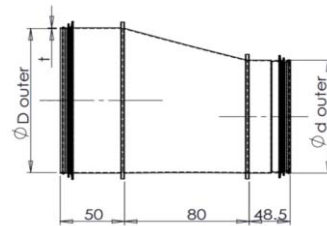


Dimension



D	d	W
150	80	0.38
180	80	0.44
200	150	0.54
250	100	0.62
300	100	0.75
315	100	0.92
350	125	1.07
355	125	1.07
400	125	1.26
400	150	1.28
450	150	1.38
500	150	1.48
550	150	1.58
600	150	1.68
650	150	1.78
700	150	1.88
750	150	1.98
800	150	2.08
850	150	2.18
900	150	2.28
950	150	2.38
1000	150	2.48

Dimension

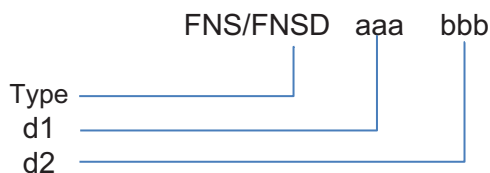


D	d	W
350	125	1.07
355	125	1.07
400	125	1.26
400	150	1.28
450	150	1.38
500	150	1.48
550	150	1.58
600	150	1.68
650	150	1.78
700	150	1.88
750	150	1.98
800	150	2.08
850	150	2.18
900	150	2.28
950	150	2.38
1000	150	2.48

Description

FS reducers are centric and FSD reducers are eccentric. The D side connection fits externally on the fitting. If gasket is not needed, please specify "X" after type, i.e. FSX. Seamed reducers contain all reasonable dimensions and specifications, and can be customized on request.

Ordering



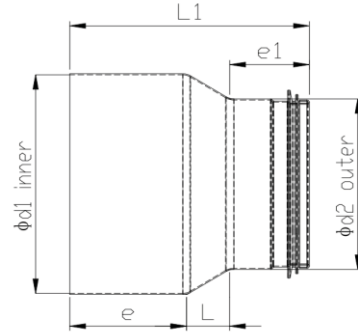
Pressed Male Reducer

F

F



Dimension



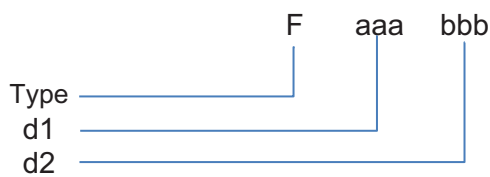
Description

FN reducers are centric and male-male pressed.

If gasket is not needed, please specify "X" aftertype, i.e. FNX

d1	d2	L	L1	e	e1	W
100	80	10	98.5	50	33.5	0.12
125	80	23	111.0	50	33.5	0.17
	100	13	101.0	50	33.5	0.16
160	80	40	128.5	50	33.5	0.22
	100	30	118.5	50	33.5	0.22
	125	18	106.0	50	33.5	0.22
180	80	50	138.5	50	33.5	0.26
	100	40	128.5	50	33.5	0.26
	125	28	116.0	50	33.5	0.28
	160	10	98.5	50	33.5	0.27
200	80	60	148.5	50	33.5	0.28
	100	50	138.5	50	33.5	0.31
	125	38	126.0	50	33.5	0.31
	160	20	108.5	50	33.5	0.27
	180	10	97.5	50	37.5	0.26
250	100	75	170.0	50	33.5	0.45
	125	63	151.0	50	33.5	0.5
	160	45	133.5	50	33.5	0.54
	180	35	122.5	50	37.5	0.57
	200	25	112.5	50	37.5	0.6

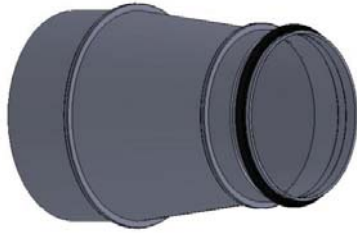
Ordering



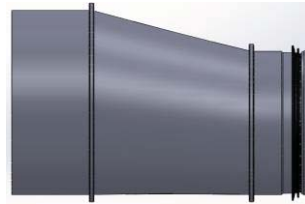
Seamed Female Reducer

FS/FSD

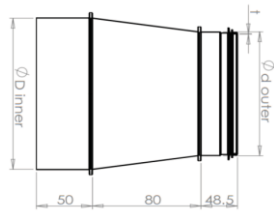
FS



FSD

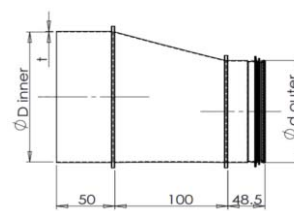


Dimension



D	d	W
150	80	0.38
180	80	0.44
200	150	0.54
250	100	0.62
300	100	0.75
315	100	0.92
350	125	1.07
355	125	1.07
400	125	1.26
450	150	1.38
500	200	1.50
550	250	1.62
600	300	1.74
650	350	1.86
700	400	1.98
750	450	2.10
800	500	2.22
850	550	2.34
900	600	2.46
950	650	2.58
1000	700	2.70

Dimension



D	d	W
150	80	0.38
180	80	0.44
200	150	0.54
250	100	0.62
300	100	0.75
315	100	0.92
350	125	1.07
355	125	1.07
400	125	1.26
450	150	1.38
500	200	1.50
550	250	1.62
600	300	1.74
650	350	1.86
700	400	1.98
750	450	2.10
800	500	2.22
850	550	2.34
900	600	2.46
950	650	2.58
1000	700	2.70

Description

FS reducers are centric and FSD reducers are eccentric. The D side connection fits externally on the fitting.

If gasket is not needed, please specify "X" after type, i.e. FSX Seamed reducers contain all reasonable dimensions and specifications, and can be customized on request.

Ordering



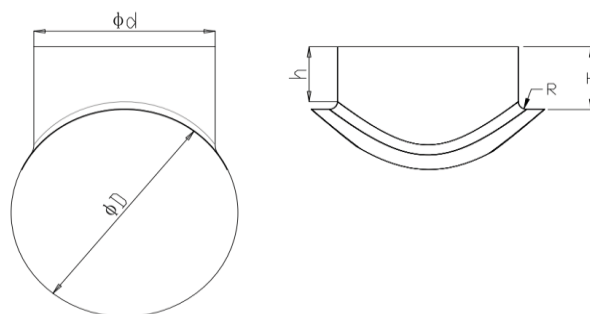
Collar Saddle

PS

PS



Dimension

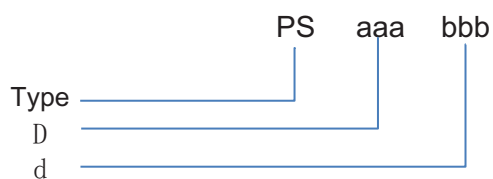


Description

TS collar saddles are fabricated by stamping process with aerodynamic flow radius, The table lists dimensions of TS collar saddles, and other dimensions and specifications can be customized on request.

D	d	R	H	h
80	80	12	62	50
100	80	12	62	50
	100	12	52	40
125	80	12	62	50
	100	12	52	40
	125	12	52	40
160	80	12	62	50
	100	12	52	40
	125	12	62	50
	160	16	66	50
180	80	12	62	50
	100	12	62	50
	125	12	62	50
	160	16	66	50
	180	16	71	55
200	80	12	62	50
	100	12	52	40
	125	12	52	40
	160	16	66	50
	180	16	71	55
	200	16	71	55
250	100	12	62	50
	125	12	62	50
	160	16	66	50
	180	16	71	55
	200	16	71	55
	250	16	71	55

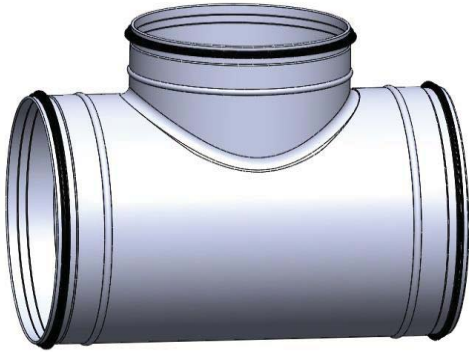
Ordering



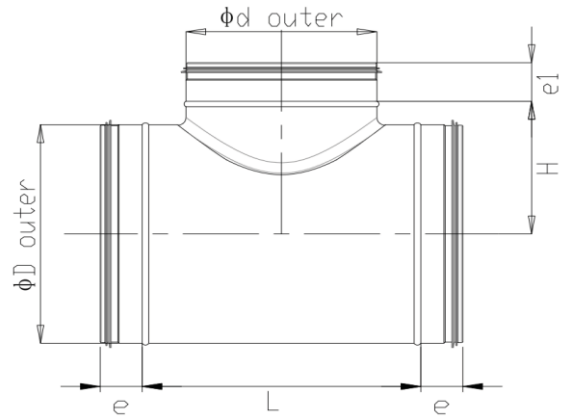
Pressed T-Piece

T

T



Dimension



Description

T-pieces are made up of pressed collar saddle and main pipe.
 TP type is made up of two pressed parts.
 If gasket is not needed, please specify "X" after type, i.e. TX

D	d	H	L	e	e1	W	
80	80	62	144	33.5	33.5	0.3	
100	80	72	144	33.5	33.5	0.4	
	100	62	164	33.5	33.5	0.5	
125	80	85	144	33.5	33.5	0.4	
	100	75	164	33.5	33.5	0.5	
	125	75	189	33.5	33.5	0.6	
160	80	102	144	33.5	33.5	0.5	
	100	92	164	33.5	33.5	0.5	
	125	102	189	33.5	33.5	0.6	
160	160	106	232	33.5	33.5	0.6	
	180	80	112	144	37.5	33.5	0.6
	100	112	164	37.5	33.5	0.6	
125	125	112	189	37.5	33.5	0.7	
	160	116	232	37.5	33.5	0.8	
	180	121	252	37.5	37.5	0.8	
200	80	122	144	37.5	33.5	0.6	
	100	112	164	37.5	33.5	0.6	
	125	112	189	37.5	33.5	0.7	
	160	126	232	37.5	33.5	0.8	
180	180	131	252	37.5	37.5	1.0	
	200	131	272	37.5	37.5	0.9	
	250	100	147	164	37.5	33.5	0.9
125	125	147	189	37.5	33.5	1.0	
	160	151	232	37.5	33.5	1.0	
	180	156	252	37.5	37.5	1.1	
200	200	156	272	37.5	37.5	1.2	
	250	156	322	37.5	37.5	1.3	

Ordering



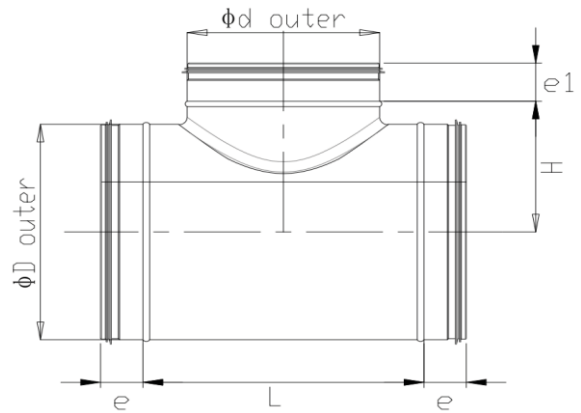
Pressed T-Piece

TP

TP



Dimension

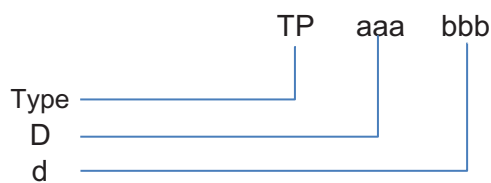


D	d	H	L	e	e1	W
100	80	50	112	33.5	33.5	0.3
125	80	50	112	33.5	33.5	0.4
	100	60	132	33.5	33.5	0.4
150	100	60	132	33.5	33.5	0.5
	125	74.5	161	33.5	33.5	0.5
160	100	60	132	33.5	33.5	0.6
	125	74.5	161	33.5	33.5	0.6
200	100	60	132	37.5	33.5	0.5
	125	74.5	161	37.5	33.5	0.6
	150	89	190	37.5	33.5	0.6
	160	94	200	37.5	33.5	0.7
250	100	60	132	37.5	33.5	0.7
	125	74.5	161	37.5	33.5	0.8
	150	89	190	37.5	33.5	0.6
	160	94	200	37.5	33.5	0.6
	200	118	248	37.5	33.5	0.7

Description

T-pieces are made up of pressed collar saddle and main pipe.
 TP type is made up of two pressed parts.
 If gasket is not needed, please specify "X" after type, i.e. TX

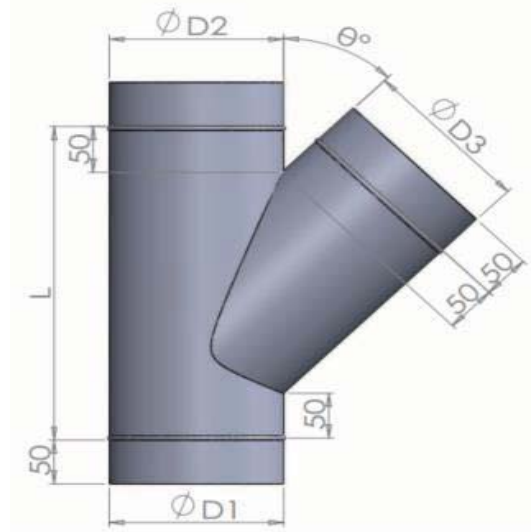
Ordering



TVX



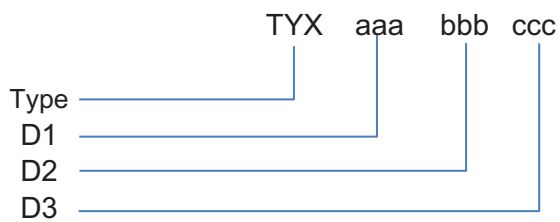
Dimension



Description

TVX type is tilted T-piece.
 If gasket is needed, please delete "X" after type, i.e. TV.
 If no special instruction, θ° is 45° , and other angles should be specified in advance

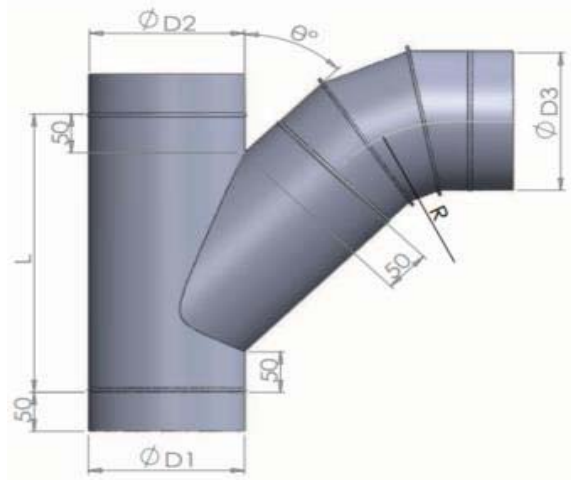
Ordering



TVBX



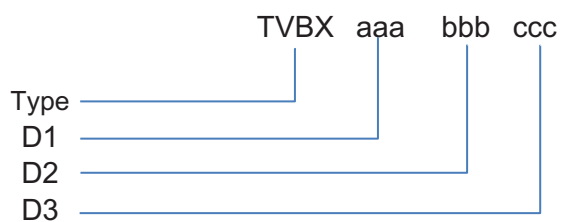
Dimension



Description

TVBX type is made up of TVX type and bend.
 Standard TVBX is without gasket, and if gasket is needed, please delete "X" after type, i.e. TV

Ordering



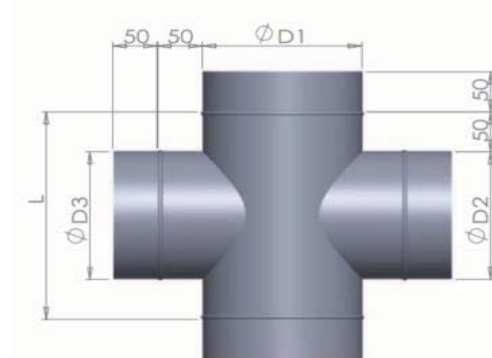
X-Cross

XAX/XVX

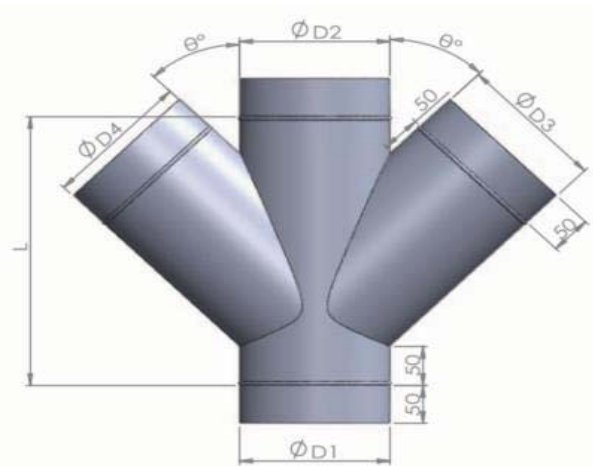
XAX



Dimension



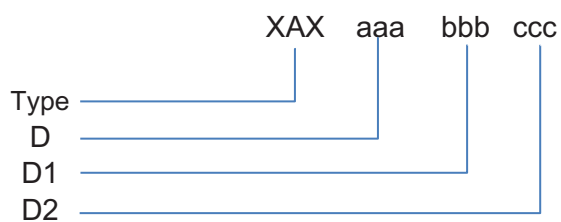
XVX



Description

If gasket is needed, please delete "X" after type, i.e. XA.
 If no special instruction, θ° is 45° , and other angles should be specified in advance.

Ordering



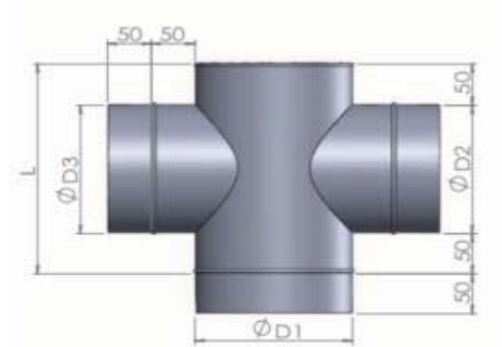
X-Cross

XAEX/XVEX

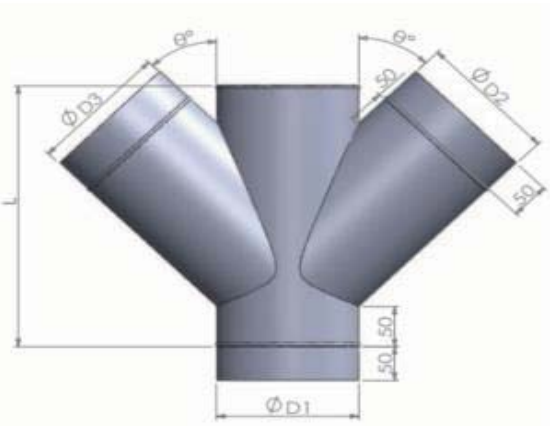
XAEX



Dimension



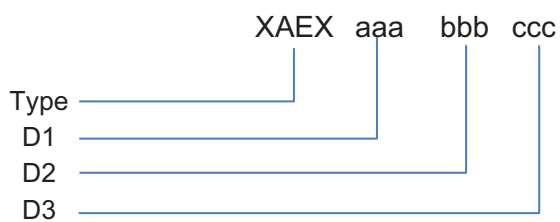
XVEX



Description

If gasket is needed, please delete "X" after type, i.e. XVE/XAE.
 If no special instruction, θ is 45° , and other angles should be specified in advance.

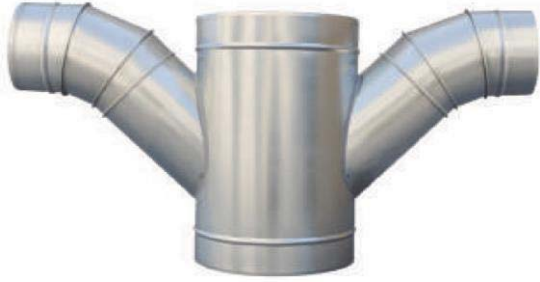
Ordering



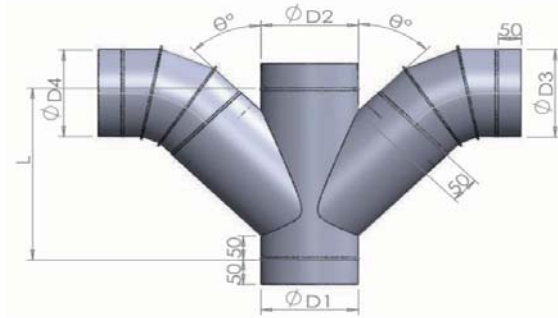
X-Cross

XVBX

XVBX



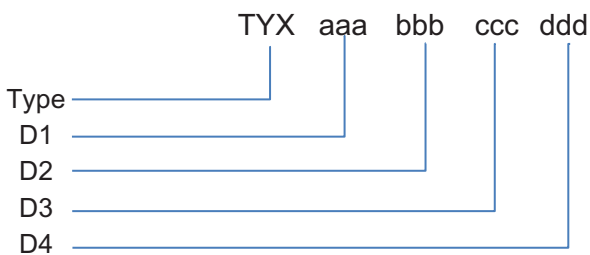
Dimension



Description

XVBX type is made up of XVX type and pressed bend.
 Standard XVBX is without gasket, and if gasket is needed, please delete "X" after type, i.e. XVB.
 If no special instruction, θ is 45° , and other angles should be specified in advance.

Ordering



Pressed Take-Off

TCR/TCL

TCR



TCL



Description

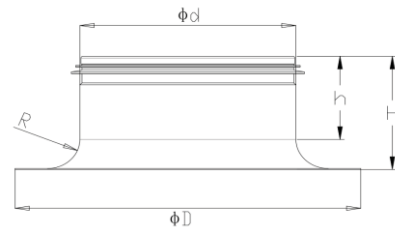
If gasket is not needed, please specify "X" after type, i.e. TCRX
 The tables list dimensions of pressed take-offs.
 Other dimensions can be customized on request .

Ordering



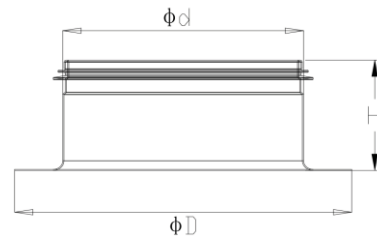
Dimension

TCR



d	D	R	h	H	W
80	135	12	50	62	0.08
100	160	15	50	65	0.14
125	195	20	50	70	0.18
150	230	25	50	75	0.21
160	240	25	50	75	0.22
175	255	25	50	75	0.28
180	260	25	50	75	0.27
200	280	25	50	75	0.3
250	330	25	50	75	0.41
315	395	25	50	75	0.5

TCL



d	D	H	W
80	125	55	0.09
100	130	55	0.14
125	160	55	0.17
150	185	55	0.17
160	195	55	0.18
175	210	55	0.24
200	235	55	0.28
250	285	55	0.28
315	350	55	0.52

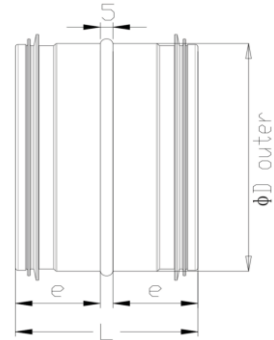
Nipple

N

N



Dimension



D	L	e	t	W
80	72	33.5	0.5	0.09
100	72	33.5	0.5	0.12
125	72	33.5	0.5	0.15
150	72	33.5	0.5	0.18
160	72	33.5	0.6	0.19
175	80	37.5	0.6	0.23
180	80	37.5	0.6	0.23
200	80	37.5	0.6	0.26
225	80	37.5	0.6	0.29
250	80	37.5	0.6	0.32
280	80	37.5	0.6	0.36
300	100	47.5	0.6	0.41
315	100	47.5	0.6	0.47
350	100	47.5	0.6	0.52
355	100	47.5	0.6	0.53
400	100	47.5	0.6	0.61

Description

N nipples are used for joining R ducts.
 If gasket is not needed, please specify "X"
 after type, i.e. NX
 Other dimensions can be customized on
 request.

Ordering



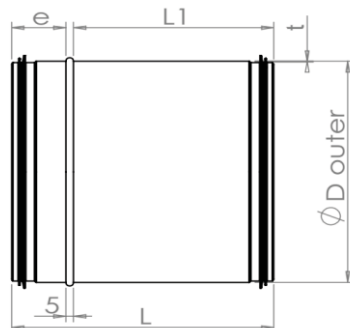
Slide-in Nipple

NS

NS



Dimension



D	L	L1	e	t	W
80	158	120	33.5	0.5	0.2
100	158	120	33.5	0.5	0.2
125	158	120	33.5	0.5	0.2
150	158	120	33.5	0.5	0.3
160	158	120	33.5	0.5	0.3
180	178	140	37.5	0.6	0.5
200	178	140	37.5	0.6	0.5
225	178	140	37.5	0.6	0.6
250	178	140	37.5	0.6	0.7
275	178	140	37.5	0.6	0.7
300	227	175	47.5	0.8	1.6
315	227	175	47.5	0.8	1.1
350	227	175	47.5	0.8	1.6
355	227	175	47.5	0.8	1.6
400	227	175	47.5	0.8	1.8
450	227	175	47.5	0.8	2.0
500	227	175	47.5	0.8	2.2

Description

NS nipples are intend for greater flexibility when joining ducts

订购

产品编码

NS aaa

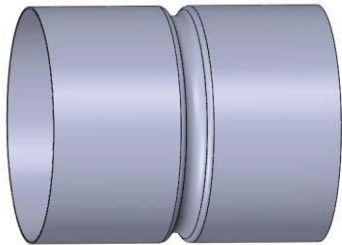
类型

D

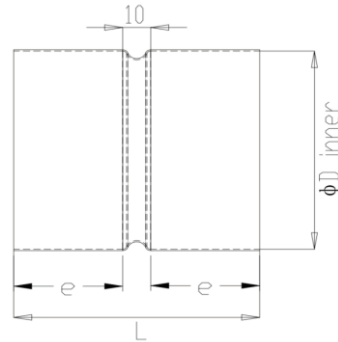
Coupling

M

M



Dimension



Description

M couplings are used for joining fittings. Other dimensions can be customized on request.

Ordering

Type M aaa

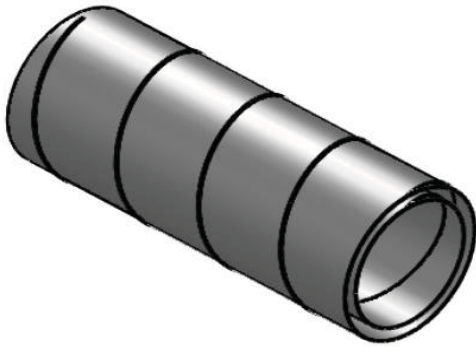
D _____ _____

D	L	e	t	W
80	90	40	0.5	0.09
100	90	40	0.5	0.11
125	90	40	0.5	0.14
150	90	40	0.5	0.17
160	90	40	0.6	0.18
175	90	40	0.6	0.19
180	90	40	0.6	0.2
200	90	40	0.6	0.22
225	90	40	0.6	0.25
250	135	62.5	0.6	0.42
280	135	62.5	0.6	0.47
300	135	62.5	0.6	0.6
315	135	62.5	0.6	0.63
350	135	62.5	0.6	0.7
355	135	62.5	0.6	0.72
400	135	62.5	0.6	0.8

Spiral Duct

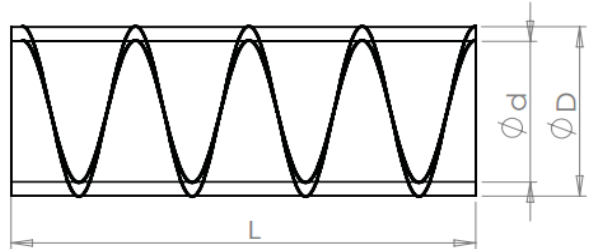
PR

PR



Dimension

PR

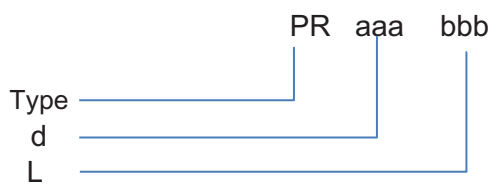


Description

PR duct is double-jacketed and insulated with glass wool or mineral wool. 15mm and 25mm insulation layer are both available. Standard length: 3m, 4m, 5m, 6m. Individual lengths can be customized on request.

d	Insulation 15mm		Insulation 25mm	
	D ₁	W	D ₂	W
80	112	2.98	130	3.30
100	132	3.60	150	4.00
125	157	4.36	175	4.80
150	182	5.13	200	5.60
160	192	5.44	210	5.90
175	207	5.95	225	6.40
180	212	6.05	232	6.50
200	232	6.66	250	7.20
225	257	7.43	280	7.90
250	282	7.90	300	8.70
280	315	8.84	332	10.70
300	332	9.94	350	11.40
315	347	10.76	365	12.00
350	380	12.02	400	13.20
355	400	13.30	400	13.30
400	440	14.55	450	14.90

Ordering



Pressed Bend

PB 90°/45°

PB90°



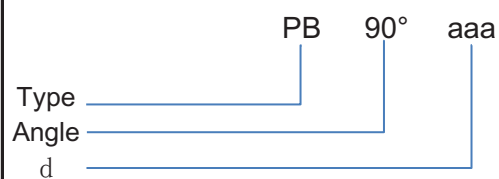
PB45°



Description

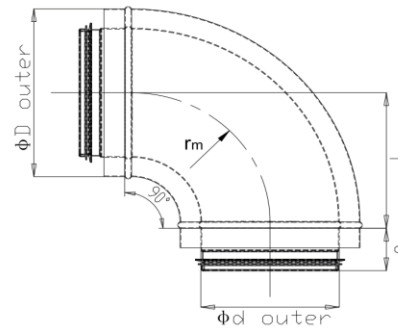
PB type is double-jacketed and insulated with glass wool.
 $r_m = 1 \times \phi d$

Ordering



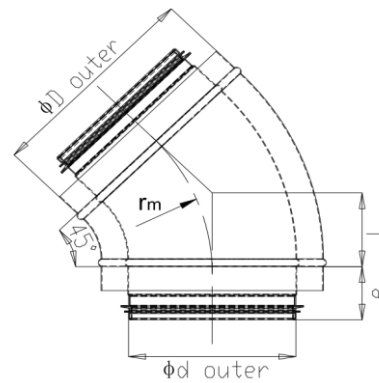
Dimension

PB 90°



d	D	L	r_m	e	t
80	110	100	100	33.5	0.5
100	130	100	100	33.5	0.5
125	155	125	125	33.5	0.5
160	190	160	160	33.5	0.5
180	210	180	180	37.5	0.6
200	230	200	200	37.5	0.6

PB 45°



d	D	L	r_m	e	t
80	41	100	100	33.5	0.5
100	41	100	100	33.5	0.5
125	52	125	125	33.5	0.5
160	66	160	160	33.5	0.5
180	75	180	180	37.5	0.6
200	83	200	200	37.5	0.6

Pressed Bend

PB 30°/15°

PB30°



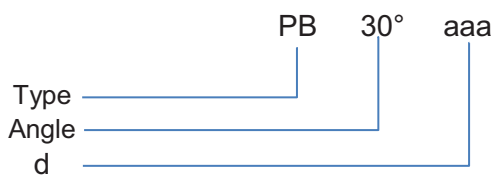
B15°



Description

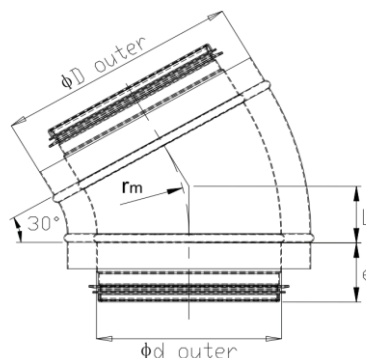
PB type is double-jacketed and insulated with glass wool.
 $r_m = 1 \times \phi d$

Ordering



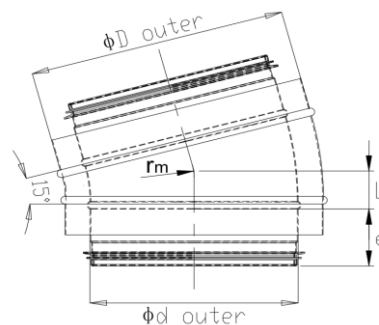
Dimension

PB 30°



d	D	L	r_m	e	t
80	27	27	100	33.5	0.5
100	27	27	100	33.5	0.5
125	33	33	125	33.5	0.5
160	43	43	160	33.5	0.5
180	48	48	180	37.5	0.6
200	54	54	200	37.5	0.6

PB 15°



d	D	L	r_m	e	t
80	13	13	100	33.5	0.5
100	13	13	100	33.5	0.5
125	16	16	125	33.5	0.5
160	21	21	160	33.5	0.5
180	24	24	180	37.5	0.6
200	26	26	200	37.5	0.6

Segment Bend

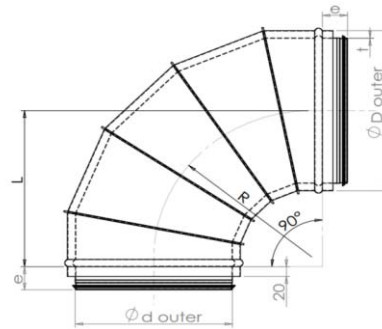
PBH

PBH



Dimension

PBH

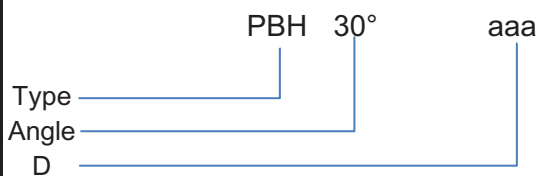


Description

PB bend is double-jacketed and insulated with glass wool.
 R=D. Special diameters and angles can be customized

d	D Insulation 15mm	D Insulation 25mm	e	90°	60°	45°	30°	15°
225	255	278	37.5	3.47	2.36	1.94	1.43	1.01
250	280	298	37.5	3.78	2.51	2.1	1.53	1.13
280	313	330	37.5	4.56	3.13	2.53	1.82	1.21
300	330	348	47.5	5.58	3.84	3.08	2.21	1.45
315	345	363	47.5	6.12	4.2	3.36	2.4	1.56
350	378	398	47.5	8.2	5.6	4.62	3.15	2.08
355	398	398	47.5	8.38	5.73	4.62	3.21	2.16
400	438	448	47.5	10.4	7.1	5.69	3.31	2.6
...

Ordering



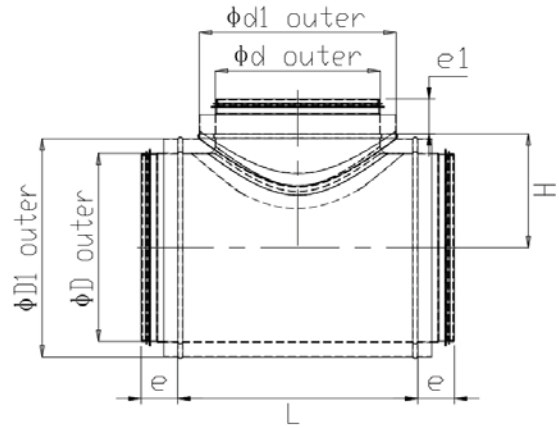
T-piece

PT

PT



Dimension



Description

PT type is double-jacketed and insulated with glass wool, and supplied with rubber seal in the inner diameter. Special sizes can be customized.

D	d	D1	d1	H	L	e	e1	W
80	80	110	110	62	144	33.5	33.5	0.7
100	80	130	110	72	144	33.5	33.5	0.9
	100		130	62	164	33.5	33.5	1.0
125	80	155	110	85	144	33.5	33.5	1.1
	100		130	75	164	33.5	33.5	1.2
	125		155	75	189	33.5	33.5	1.3
160	80	190	110	102	144	33.5	33.5	1.2
	100		130	92	164	33.5	33.5	1.3
	125		155	102	189	33.5	33.5	1.6
	160		190	106	232	33.5	33.5	1.8
180	80	210	110	112	144	37.5	33.5	1.3
	100		130	112	164	37.5	33.5	1.5
	125		155	112	189	33.5	33.5	1.8
	160		190	116	232	33.5	33.5	2.1
	180		210	116	252	33.5	37.5	2.3
200	80	230	110	122	144	33.5	33.5	1.5
	100		130	112	164	33.5	33.5	1.7
	125		155	112	189	33.5	33.5	2.0
	160		190	126	232	33.5	33.5	2.4
	180		210	126	252	33.5	37.5	2.7
	200		230	126	272	33.5	37.5	3.0
250	100	280	130	147	164	33.5	33.5	1.7
	125		155	147	189	33.5	33.5	2.0
	160		190	151	232	33.5	33.5	2.4
	180		210	151	252	33.5	37.5	2.7
	200		230	151	272	33.5	37.5	3.0
	250		280	151	322	33.5	37.5	3.3

Ordering



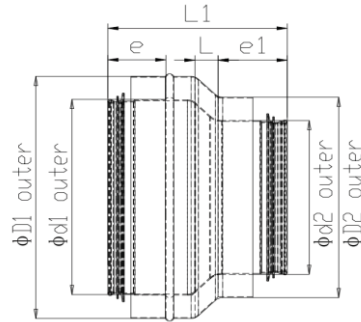
Pressed Male Reducer

PFN

PFN



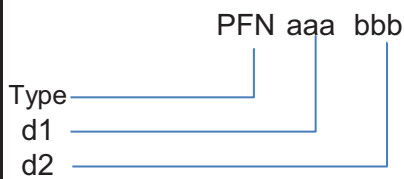
Dimension



Description

PF reducer is double-jacketed, insulated with glass wool, and supplied with rubber seal in the inner dimension.

Ordering

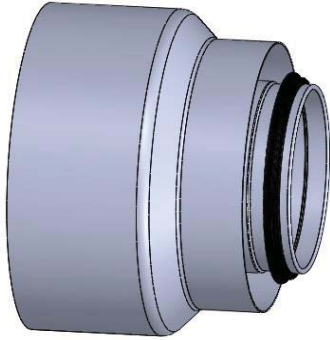


d1	d2	D1	D2	L	L1	e	e1	W
100	80	130	110	10.0	92.0	33.5	33.5	0.28
125	80	155	110	22.5	104.5	33.5	33.5	0.39
	100		130	12.5	99.5	33.5	33.5	0.36
160	80	190	110	40.0	122.0	33.5	33.5	0.56
	100		130	30.0	117.0	33.5	33.5	0.54
	125		155	17.5	104.5	33.5	33.5	0.52
180	80	210	110	50.0	131.0	37.5	33.5	0.44
	100		130	40.0	121.0	37.5	33.5	0.67
	125		155	27.5	108.5	37.5	33.5	0.70
	160		190	10.0	91.0	37.5	33.5	0.60
200	80	230	110	60.0	141.0	37.5	33.5	0.48
	100		130	50.0	131.0	37.5	33.5	0.75
	125		155	37.5	123.5	37.5	33.5	0.67
	160		190	20.0	106.0	37.5	33.5	0.62
	180		210	10.0	90.0	37.5	37.5	0.58
250	100	280	130	75.0	156.0	37.5	33.5	0.60
	125		155	62.5	148.5	37.5	33.5	0.65
	160		190	45.0	131.0	37.5	33.5	0.68
	180		210	35.0	115.0	37.5	37.5	0.72
	200		230	25.0	105.0	37.5	37.5	0.74

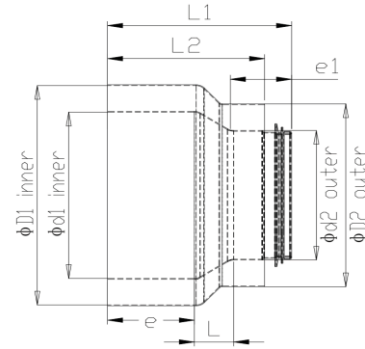
Pressed Female Reducer

PF

PF



Dimension



Description

PF reducer is double-jacketed, insulated with glass wool, and supplied with rubber seal in the inner dimension.

Ordering



d1	d2	D1	D2	L	L1	e	e1	W
100	80	130	110	10	94	50	33.5	0.28
125	80	155	110	23	106	50	33.5	0.39
	100		130	13	96	50	33.5	0.36
160	80	190	110	40	124	50	33.5	0.56
	100		130	30	114	50	33.5	0.54
	125		155	18	101	50	33.5	0.52
180	80	210	110	50	134	50	33.5	0.44
	100		130	40	124	50	33.5	0.67
	125		155	28	111	50	33.5	0.70
	160		190	10	93.5	50	33.5	0.60
200	80	230	110	60	144	50	33.5	0.48
	100		130	50	134	50	33.5	0.75
	125		155	38	121	50	33.5	0.67
	160		190	20	104	50	33.5	0.62
	180		210	10	98	50	37.5	0.58
250	100	280	130	75	159	50	33.5	0.60
	125		155	63	146	50	33.5	0.65
	160		190	45	129	50	33.5	0.68
	180		210	35	123	50	37.5	0.72
	200		230	25	113	50	37.5	0.74

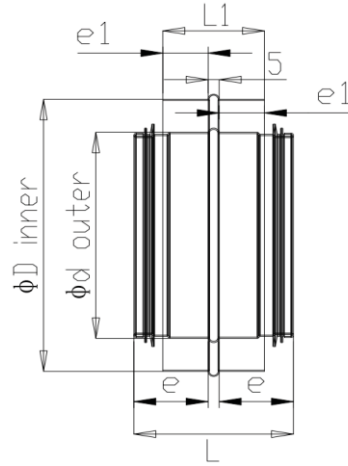
Nipple

PN

PN



Dimension



Description

PN nipples are used for joining pre-insulated fittings, made up of nipple and outer jacket, and the outer jacket can be ordered solely. Special sizes can be customized.

d	D	L	L1	e	e1	t
80	110	72	45	33.5	20	0.5
100	130	72	45	33.5	20	0.5
125	155	72	45	33.5	20	0.5
150	180	72	45	33.5	20	0.5
160	190	72	45	33.5	20	0.6
175	205	80	53	37.5	24	0.6
180	210	80	53	37.5	24	0.6
200	230	80	53	37.5	24	0.6
225	255	80	53	37.5	24	0.6
250	280	80	53	37.5	24	0.6
280	310	80	53	37.5	24	0.6
300	330	100	73	47.5	34	0.6
315	345	100	73	47.5	34	0.6
350	380	100	73	47.5	34	0.6
355	385	100	73	47.5	34	0.6
400	430	100	73	47.5	34	0.6

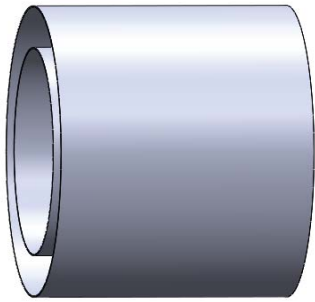
Ordering



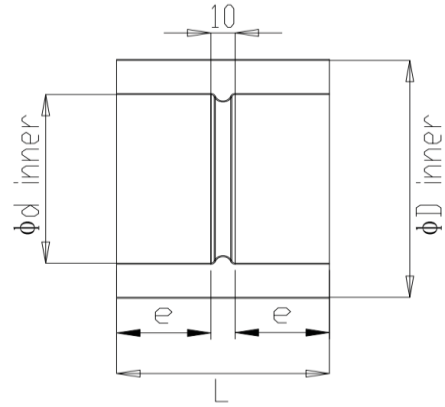
Coupling

PM

PM



Dimension



Description

PM couplings are used for joining fittings. It is double-jacketed and insulated with glass wool. Special sizes can be customized.

d	D	L	e	t
80	110	90	40	0.5
100	130	90	40	0.5
125	155	90	40	0.5
150	180	90	40	0.5
160	190	90	40	0.6
175	205	90	40	0.6
180	210	90	40	0.6
200	230	90	40	0.6
225	255	90	40	0.6
250	280	135	62.5	0.6
280	310	135	62.5	0.6
300	330	135	62.5	0.6
315	345	135	62.5	0.6
350	380	135	62.5	0.6
355	385	135	62.5	0.6
400	430	135	62.5	0.6

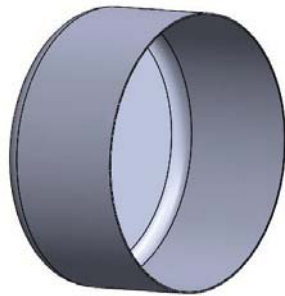
Ordering



Pressed Female End Cap

E

E



Dimension



Description

The table lists dimensions of pressed end caps.
Others can be customized on request.

d	e	t	W
80	40	0.5	0.123
100	40	0.5	0.11
125	40	0.5	0.158
160	40	0.5	0.153
180	40	0.5	0.206
200	40	0.5	0.162
225	40	0.5	0.21
250	40	0.5	0.159
315	40	0.5	0.205

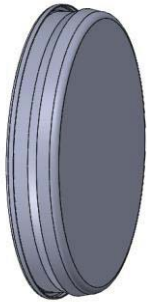
Ordering



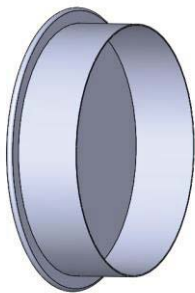
冲压多用途/手工负尺端盖

CP/CS

CP



CS



Description

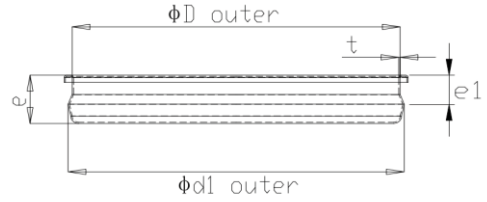
EP type usually fits into ducts.
Use to prevent ducts from dirt contaminating during storage and transportation, as well as keeping the duct ends from deformation.

Ordering



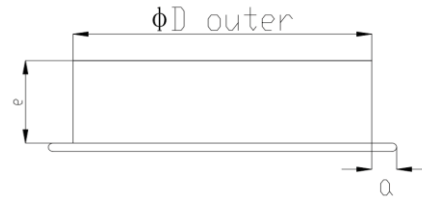
Dimension

CP



型号	D	d1	e	e1	t	W
80	79	80	20	10	0.5	0.04
100	99	100	20	10	0.5	0.06
125	124	125	20	10	0.5	0.08
160	159	160	20	10	0.5	0.12
180	179	180	20	10	0.5	0.14
200	199	200	20	10	0.5	0.17
225	224	225	20	10	0.5	0.21
250	249	250	20	10	0.5	0.25
280	274	280	20	10	0.5	0.31
300	299	300	20	10	0.5	0.35
315	324	315	20	10	0.5	0.38
...

CS



D	e	a	t	W
80	40	5	0.5	0.07
100	40	5	0.5	0.09
125	40	5	0.5	0.12
160	40	5	0.5	0.17
180	40	5	0.5	0.21
200	40	5	0.5	0.24
225	40	5	0.5	0.29
250	40	5	0.5	0.34
280	40	5	0.5	0.40
300	40	5	0.6	0.54
315	40	5	0.6	0.59
355	40	5	0.6	0.71
400	40	5	0.6	0.87
...

End-Caps with Net

EMN/EM

EMN



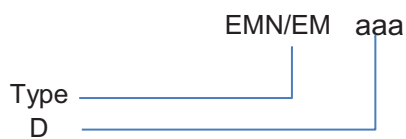
EN



Description

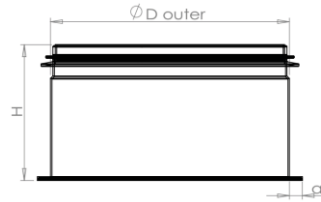
PEMX type fits into fittings, such as pre-insulated T-pieces, bends, female end caps.
 PEMNX type fits into pre-insulated spiral ducts, male end cap. Mesh size 6*6mm
 Special sizes can be customized.

Ordering



Dimension

EMN



D	H	a	t	W
80	55	5	0.5	0.1
100	55	5	0.5	0.1
125	55	5	0.5	0.1
150	55	5	0.5	0.1
160	55	5	0.5	0.1
180	55	7	0.6	0.2
200	55	7	0.6	0.2
225	55	7	0.6	0.2
250	55	7	0.6	0.3
275	55	10	0.6	0.3
300	55	10	0.6	0.4
315	55	10	0.6	0.4
...

EM



D	H	a	t	W
80	40	5	0.5	0.1
100	40	5	0.5	0.1
125	40	5	0.5	0.1
150	40	5	0.5	0.1
160	40	5	0.5	0.1
180	40	7	0.6	0.2
200	40	7	0.6	0.2
225	40	7	0.6	0.2
250	40	7	0.6	0.3
275	50	10	0.6	0.3
300	50	10	0.6	0.4
315	50	10	0.6	0.4
...

Damper

DS

DS

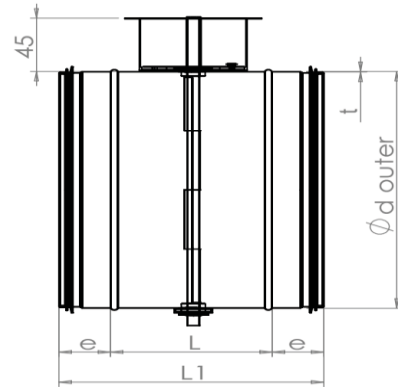


DSB

DSC



Dimension



Description

Ds dampers have been marked to show the position of the damper blade from 0° to 90°. The blade can be locked in position with screws to ensure specific air volume. Other dimensions can be customized.

D	L	L1	e	t	W
80	128	195	33.5	0.5	0.4
100	128	195	33.5	0.5	0.5
125	128	195	33.5	0.5	0.5
150	128	195	33.5	0.5	0.6
160	128	195	33.5	0.5	0.7
175	119	194	37.5	0.6	0.8
180	119	194	37.5	0.6	0.8
200	119	194	37.5	0.6	0.9
225	136	211	37.5	0.6	1.1
250	161	236	37.5	0.6	1.3
275	205	280	37.5	0.6	1.6
280	205	280	37.5	0.6	1.6
300	205	300	47.5	0.8	1.8
315	205	300	47.5	0.8	1.9
350	242	337	47.5	0.8	3
355	242	337	47.5	0.8	3.3
400	292	387	47.5	0.8	3.9
...

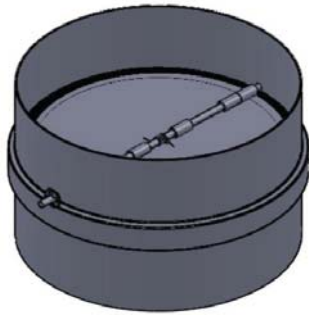
Ordering



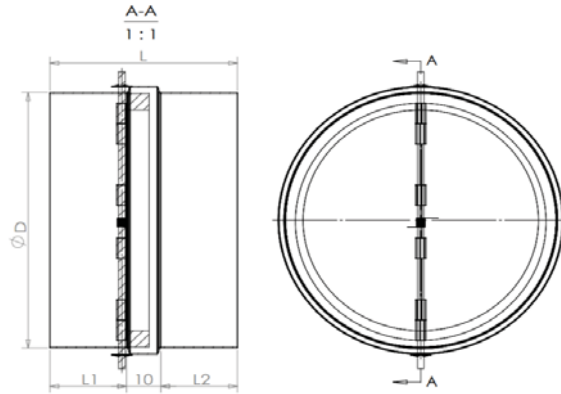
Back Draft Damper

BDA

BDA



Dimension

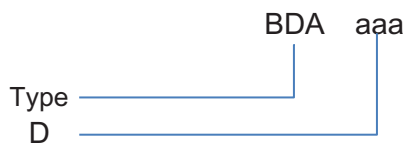


Description

The blades are equipped with a closing spring, which allow any position. Single direct air flow is allowed.

D	L	L1	L2	t	W
100	88	39	39	0.5	0.4
125	88	39	39	0.5	0.5
150	88	39	39	0.5	0.5
160	88	39	39	0.5	0.6
200	88	39	39	0.5	0.7
250	128	59	59	0.6	0.8
315	128	59	59	0.6	0.8
355	198	94	94	0.6	0.9
400	198	94	94	0.6	1.1
...

Ordering



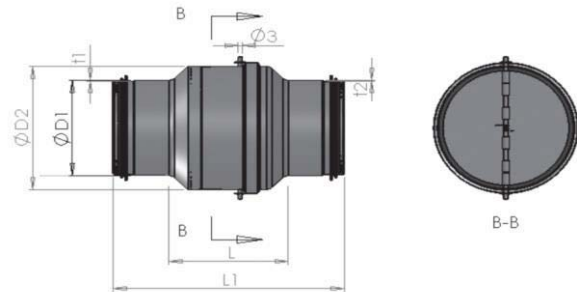
Back Draft Damper

RK

RK



Dimension

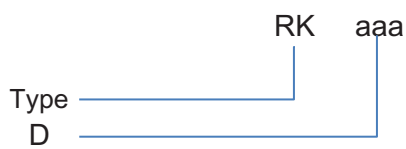


Description

Other dimensions can be customized on request.

D1	D2	D3	L	L1	h	W
80	101	55	85	169	5	0.28
100	126	65	85	188	7	0.38
125	161	85	100	188	9	0.52
150	201	110	110	190	12	0.69
160	201	100	100	176	16	0.66
180	251	120	125	211	17	0.91
200	251	130	110	200	12	0.88
250	316	165	120	206	16	1.2
...

Ordering



Flexible Connector

RCN

RCN



PVC

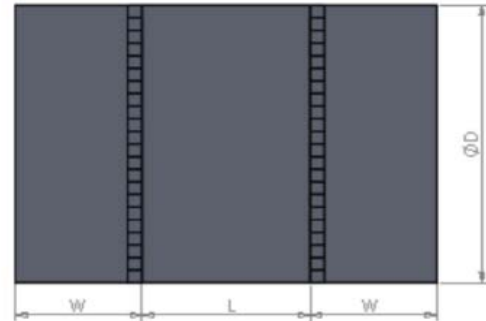


Canva



Glass Fiber

Dimension



Description

RCN flexible connectors are made of standard galvanized steel sheet and shock-proof materials.

Shock-proof materials can be PVC Fiber、Canvas、Glass Fiber.

W/L/W: 35/60/35, 45/70/45, 45/75/45, 70/100/70.

Dimensions can be customized on request and also please specify the shock-proof material.

Ordering



Flexible Hose

HS/PHS

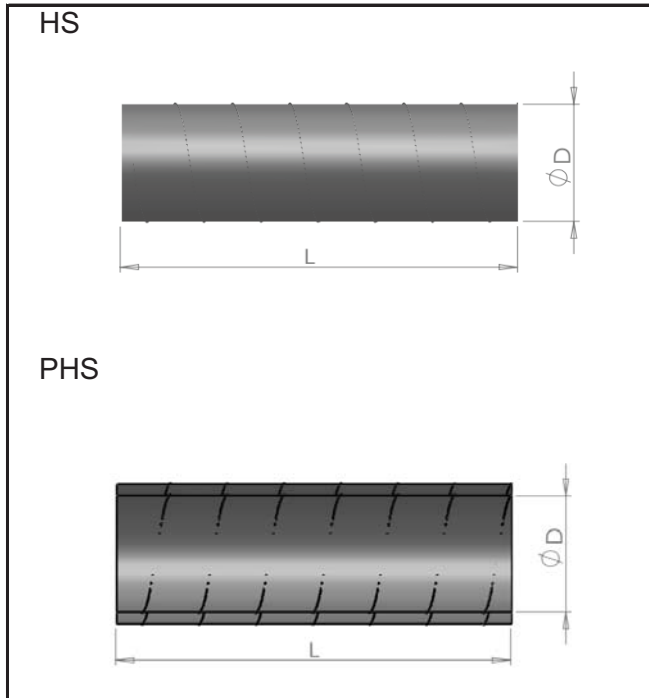
HS



PHS



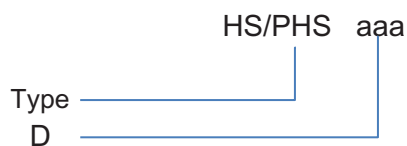
Dimension



Description

HS type is made of aluminum foil complex polyester film welded into the steel wires.
 PHS type is made of double-jacketed HS hoses and insulated with glass wool.
 Standard length is 10 meters. Other requirements such as fire-proof and dimensions can be customized on request.

Ordering

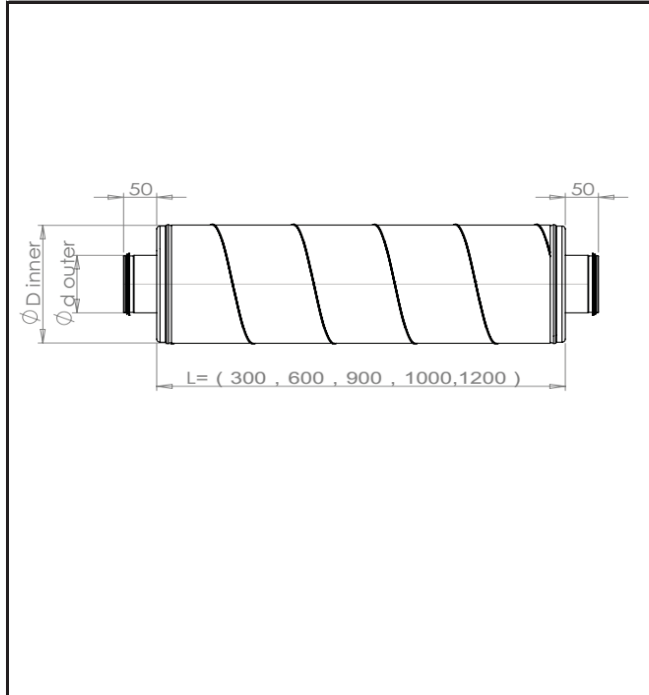


Silencer

YRS

YRS

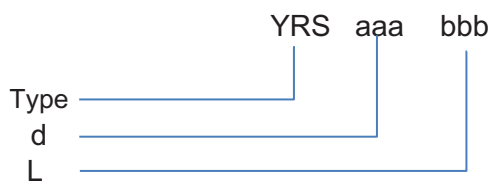
Dimension



Description

YRS type use glass wool as sound-proof material. Other dimensions can be customized on request.

Ordering



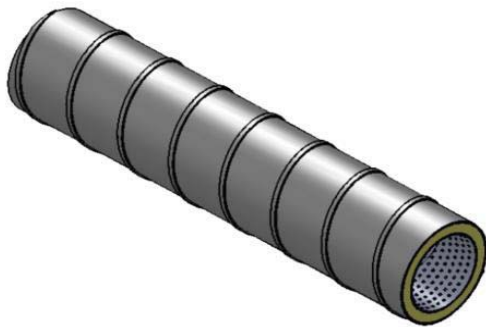
Silencer

YRS

YRS Noise Elimination On Different Multiple Ratios (db)

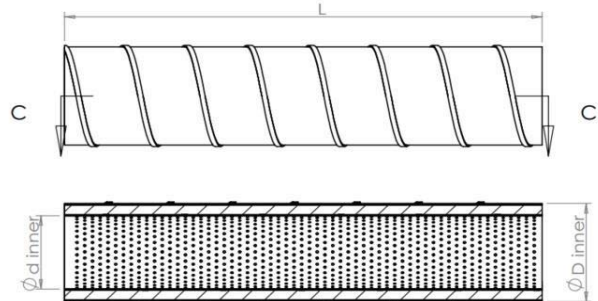
d	D	L	W	63	125	250	500	1000	2000	4000	8000
80	180	300	1.64	1	5	8	15	25	25	21	15
		600	2.86	2	8	14	28	49	50	47	24
		900	4.08	3	10	21	40	50	50	50	34
		1200	5.31	4	13	27	50	50	50	50	43
100	200	300	1.96	1	5	7	15	25	25	21	13
		600	3.36	1	7	12	25	43	48	35	20
		900	4.76	2	10	17	34	50	50	49	28
		1200	6.16	3	12	22	44	50	50	50	35
150	250	300	2.32	0	4	5	13	23	20	16	11
		600	3.94	1	5	10	22	39	37	26	16
		900	5.56	1	7	14	30	50	50	37	21
		1200	7.18	2	9	18	39	50	50	47	26
125	225	300	2.64	0	3	5 8	11	22	16	11	7
		600	4.48	1	4	12	19	37	28	17	11
		900	6.32	1	5	15	27	50	39	24	14
		1200	8.16	2	6		35	50	50	30	17
175	300	300	3.0	0	3	5 8	11	22	16	11	7
		600	6.0	1	4	12	19	37	28	17	11
		900	8.0	1	5	15	27	50	39	24	14
		1200	10.0	2	6		35	50	50	30	17
200	280	300	3.6	0	3	4 8	10	21	14	9	6
		600	6.5	1	3	12	16	34	24	15	9
		900	9.0	2	5	14	25	42	33	20	12
		1200	11.0	2	6		31	48	44	25	15
225	315	300	3.7	0	3	4 8	10	21	14	9	6
		600	6.7	1	3	12	16	34	24	15	9
		900	9.3	2	5	14	25	42	33	20	12
		1200	11.4	2	6		31	48	44	25	15
250	350	300	4.0	0	2	4 8	9	11	11	7	5
		600	7.0	1	3	11	15	19	19	12	8
		900	10.0	2	4	14	21	28	28	16	10
		1200	12.0	2	5		27	36	36	21	13
280	355	600	8.0	1	2	7	14	27	16	10	9
		900	11.0	1	3	10	20	38	24	15	9
		1200	13.5	2	4	12	26	48	30	18	12
300	400	600	9.0	1	2	6 9	14	26	14	8	7
350	400	600	10.5	1	2	8	14	18	8	6	5
		900	15.0	2	4	11	19	25	16	9	8
		1200	15.0	3	6	14	25	36	18	11	10
160	500	600	8.98	2	5	9	14	12	6	4	5
315	550	600	12.0	2	5	9	14	12	6	4	5
180	300	600	14.0	3	5	9	14	13	6	5	5
400	600	600	16.0	4	5	8	10	7	4	4	6
...

PRS



Dimension

PRS

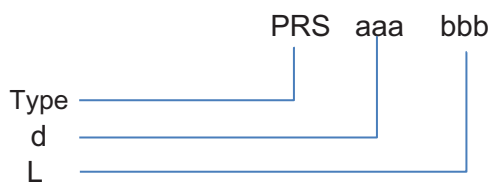


Description

PRS ducts are double-jacketed, insulated with glass wool.
 Internal ducts are perforated with hole $\Phi 3 \times 5$.
 The ratio of hole is 32.65%.
 PRS duct has functions of insulation and sound-proof. 15mm or 25mm insulation layer are both available.
 Standard length: 3m, 4m, 5m, 6m.
 Individual dimensions available on request.

d	Insualtion 15mm		Insualtion 25mm	
	D ₁	W	D ₂	W
80	112	2.8	130	3.0
100	132	3.3	150	3.6
125	157	4.0	175	4.3
150	182	4.6	200	5.0
160	192	4.9	210	5.2
175	207	5.3	225	5.7
180	212	5.4	232	5.8
200	232	5.9	250	6.4
225	257	6.6	280	7.1
250	282	7.2	300	7.7
280	315	9.0	332	9.6
300	332	9.5	350	10.2
315	347	10.0	365	11.3
350	380	10.9	400	12.4
355	400	12.5	400	12.5
400	440	13.5	450	14.1

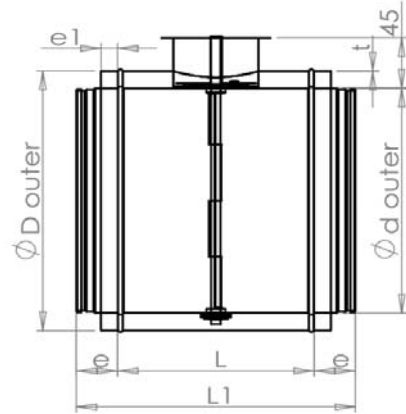
Ordering



PDS



Dimension



Description

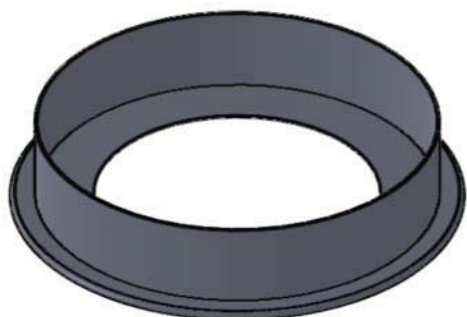
PDS regulating damper is double-jacketed and insulated with glass wool, and is supplied with rubber seal in the inner diameter. Special sizes can be customized.

d	D ₁ <small>Insulation 15mm</small>	D ₂ <small>Insulation 25mm</small>	L	e	e1	t	W
80	110	128	128	34	19	0.5	0.7
100	130	148	128	34	19	0.5	0.8
125	155	173	128	34	19	0.5	0.9
150	180	198	128	34	19	0.5	1.1
160	190	208	128	34	19	0.5	1.1
175	205	223	119	38	23	0.6	1.3
180	210	230	119	38	23	0.6	1.4
200	230	248	119	38	23	0.6	1.6
225	255	278	136	38	23	0.6	1.9
250	280	298	161	38	23	0.6	2.3
280	313	330	192	38	23	0.6	2.9
300	330	348	204	48	23	0.6	3.1
...

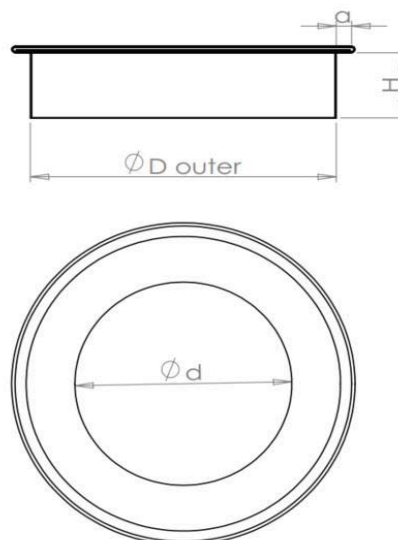
Ordering



PRCW



Dimension



Description

PRCW type uses for terminating pre-insulated spiral ducts while ducts still can connected with un-insulated fittings. Special sizes can be customized.

d	D ₁ <small>insulation 15mm</small>	D ₂ <small>insulation 25mm</small>	H	a	t
80	110	128	25	5	0.5
100	130	148	25	5	0.5
125	155	173	25	5	0.5
150	180	198	25	5	0.5
160	190	208	25	5	0.6
180	210	230	25	5	0.6
200	230	248	25	5	0.6
250	280	298	25	5	0.6
...

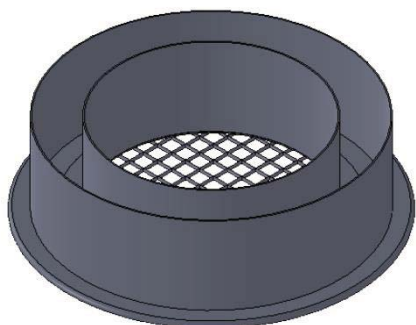
Ordering



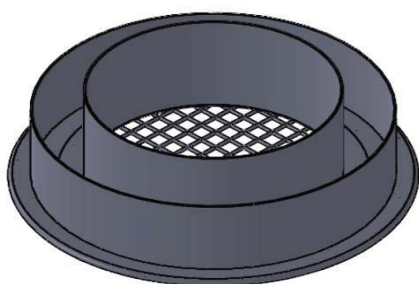
End-Caps with Net

PEMNX/PEMX

PEMNX



PEMX



Description

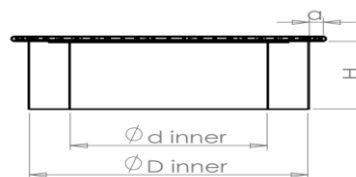
PEMX type fits into fittings, such as pre-insulated T-pieces, bends, female end caps. PEMNX type fits into pre-insulated spiral ducts, male end cap. Mesh size 6*6mm. Special sizes can be customized.

Ordering



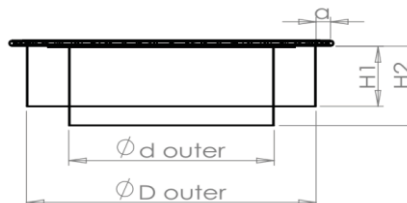
Dimension

PEMNX



d	D ₁ insulation 15mm	D ₂ insulation 25mm	H	a	t
80	112	130	38	5	0.5
100	132	150	38	5	0.5
125	157	175	38	5	0.5
150	182	200	38	5	0.5
160	192	210	38	5	0.6
180	212	232	40	5	0.6
200	232	250	40	5	0.6
250	282	300	40	5	0.6
280	315	332	40	5	0.6
300	332	350	50	5	0.6
315	347	365	50	5	0.6
350	380	400	50	5	0.6
355	400	400	50	5	0.6
400	440	450	50	5	0.6
...

PEMX



d	D ₁ insulation 15mm	D ₂ insulation 25mm	H ₁	H ₂	a	t
80	110	128	25	33	5	0.5
100	130	148	25	33	5	0.5
125	155	173	25	33	5	0.5
150	180	198	25	33	5	0.5
160	190	208	25	33	5	0.5
180	210	230	25	33	5	0.6
200	230	248	25	33	5	0.6
250	280	298	25	33	5	0.6
280	313	330	25	33	5	0.6
300	330	348	25	33	5	0.6
315	345	363	25	33	5	0.6
350	378	398	25	33	5	0.6
355	398	398	25	33	5	0.6
400	438	448	25	33	5	0.6
...

Penetrations Piece

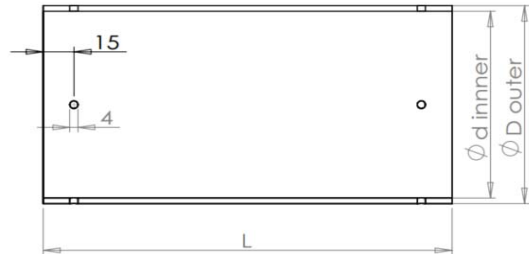
G

G



Dimension

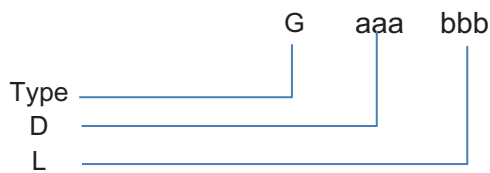
G



Description

G penetration piece is made of carbon steel which is used to penetrate walls for ducts. Its surface is painted with anti-rust paint or hot galvanizing. Special sizes can be customized.

Ordering



d	D	t	W	
			L=200	L=900
80	89	4	1.7	7.5
100	108	4	2.1	9.2
125	133	4	2.5	11.5
* 150	157	3	2.2	10.0
* 160	167	3	2.4	10.6
* 180	187	3	2.7	12.0
* 200	207	3	3	13.6
* 225	232	3	3.4	15.2
* 250	257	3	3.8	16.9
* 280	287	3	4.2	18.9
* 300	307	3	4.5	20.2
* 315	322	3	4.7	21.2
...

*Welded steel pipe

Penetration Piece “Pre-insulated”

PG

PG



Dimension

PG



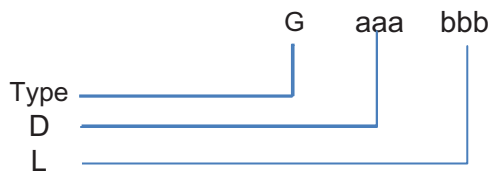
Description

PG penetrating piece is double-jacketed, and insulated with glass wool. Its surface is painted with anti-rust paint or hotgalvanize. Both ends are sealed with thin galvanized steel. Special sizes can be customized.

d	D	t1	t2	W	
				L=200	L=900
80	121	0.5	5	3.2	14.1
100	140	0.5	5	3.8	16.4
* 125	163	0.5	3	2.3	10.4
* 150	188	0.5	3	2.7	12.1
* 160	198	0.5	3	2.8	12.8
* 180	218	0.5	3	3.1	14.1
* 200	238	0.5	3	3.4	15.4
* 225	263	0.5	3	3.8	17.1
* 250	288	0.5	3	4.2	18.8
* 280	318	0.5	3	4.6	20.8
* 300	338	0.5	3	4.9	22.1
* 315	353	0.5	3	5.1	23.1
...

*Welded steel pipe

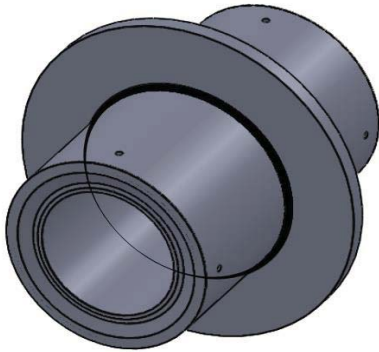
Ordering



Penetration Piece “Pre-insulated”

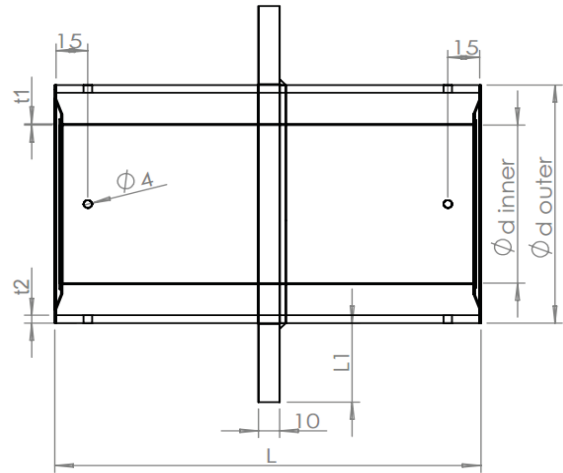
PGF-A

PGF-A



Dimension

PGF



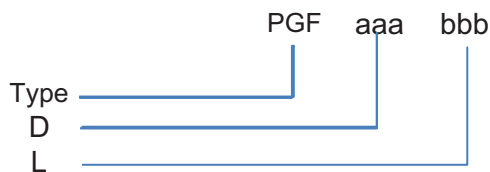
Description

PG penetrating piece is double-jacketed, and insulated with glass wool. Its surface is painted with anti-rust paint or hotgalvanize.. Both ends are sealed with thin galvanized steel. Special sizes can be customized

D	D1	t1	t2	w	
				L=200	L=900
80	121	0.5	5	3.2	14.1
100	140	0.5	5	3.8	16.4
* 125	163	0.5	3	2.3	10.4
* 150	188	0.5	3	2.7	12.1
* 160	198	0.5	3	2.8	12.8
* 180	218	0.5	3	3.1	14.1
* 200	238	0.5	3	3.4	15.4
* 225	263	0.5	3	3.8	17.1
* 250	288	0.5	3	4.2	18.8
* 280	318	0.5	3	4.6	20.8
* 300	338	0.5	3	4.9	22.1
* 315	353	0.5	3	5.1	23.1
...

*Welded steel pipe

Ordering



Penetration Piece “Pre-insulated”

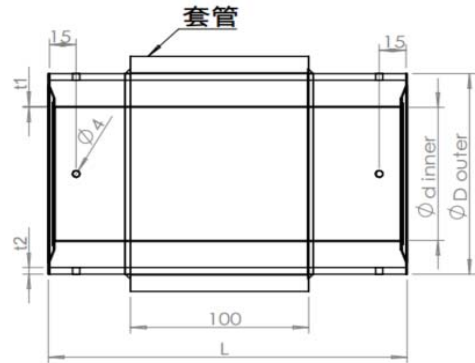
PGF-B

PGF-B



Dimension

PGF



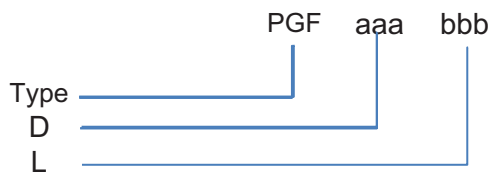
Description

PG penetrating piece is double-jacketed, and insulated with glass wool. Its surface is painted with anti-rust paint or hotgalvanize.. Both ends are sealed with thin galvanized steel. Special sizes can be customized

D	D1	t1	t2	w	
				L=200	L=900
80	121	0.5	5	3.2	14.1
100	140	0.5	5	3.8	16.4
* 125	163	0.5	3	2.3	10.4
* 150	188	0.5	3	2.7	12.1
* 160	198	0.5	3	2.8	12.8
* 180	218	0.5	3	3.1	14.1
* 200	238	0.5	3	3.4	15.4
* 225	263	0.5	3	3.8	17.1
* 250	288	0.5	3	4.2	18.8
* 280	318	0.5	3	4.6	20.8
* 300	338	0.5	3	4.9	22.1
* 315	353	0.5	3	5.1	23.1
...

*Welded steel pipe

Ordering



Reducers (Use for penetration pieces)

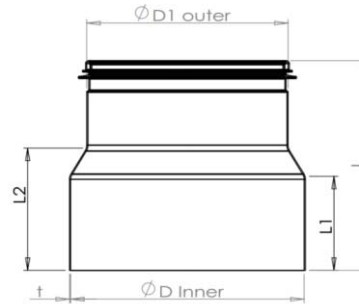
SJ

SJ



Dimension

SJ

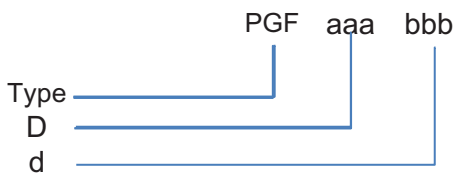


Description

SJ type is made from galvanized steel, which has two manufacture ways: hand-made and pressed process. Special sizes can be customized.

规格	D	d	L1	L2	L	t	W
SJ100	116	98	59	67	120	0.5	0.16
SJ125	141	123	51	62	107	0.5	0.19
SJ160	167	158	50	57	95	0.5	0.21
SJ180	218	178	50	70	113	0.5	0.36
SJ200	218	198	51	64	107	0.6	0.29
...

Ordering

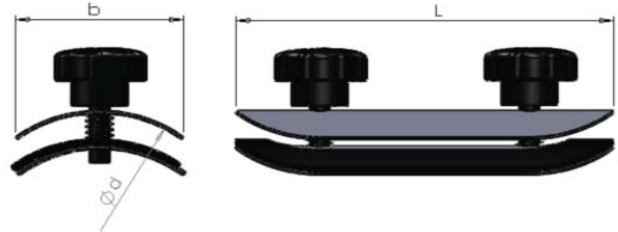


SPN/PSPN



Dimension

SPN/PSPN

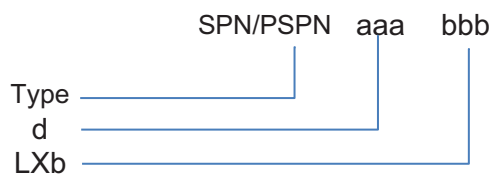


Description

SPN type fits into un-insulated spiral ducts so as to maintain and sweep ducts. PSPN type is used for insulated spiral ducts. Special sizes can be customized

d	LXb
100	180x80
125	180x80
150	250 x 150
160	250 x 150
180	250 x 150
200	250 x 150
225	250 x 150
250	250 x 150
280	250 x 150
300	250 x 150
315	250 x 150
....

Ordering



Access Door

SSPN/PSSPE/PSSPF

SSPN/PSSPE/PSSPF

SSPN



PSSPE



PSSPF



Dimension

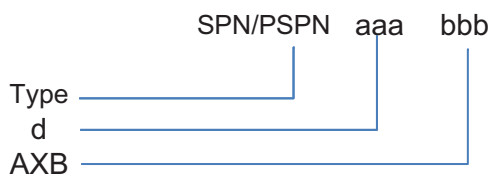
SSPN/PSSPE/PSSPF

SSPN AxB	PSSP AxB	PSSP AxB
200 x 100	100 x 100	250 x 150
300 x 150	150 x 150	380 x 250
300 x 200	200 x 200	510 x 380
400 x 300	250 x 250	660 x 510
500 x 300	300 x 150	200x125
500 x 400	300 x 200	300x150
600 x 450	400 x 400	460x250
	450 x 300	530x360
	450 x 450	635x430
	500 x 500	
	600 x 300	
	600 x 400	
	600 x 450	
	600 x 600	

Description

SSPN/PSSPE/PSSPF type fits into un-insulated square ducts so as to maintain and sweep ducts. Special sizes can be customized

Ordering



Clamp

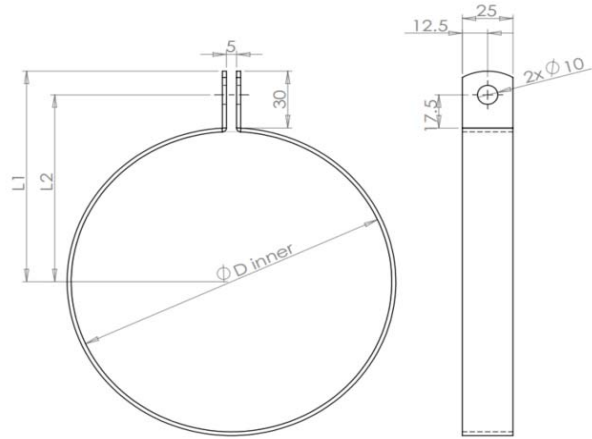
U/PU

U/PU



Dimension

U/PU



Description

U suspension clamps are used for suspending un-insulated ducts, while PU type for pre-insulated ducts. Thickness $t=2\text{mm}$.
The sizes of PU clamps will change while the thickness of pipes' insulation is 25mm. Special sizes can be customized.

U

Type	D	L1	L2	W
U80	82	73	60.5	0.12
U100	102	83	70.5	0.15
U125	127	95.5	83	0.18
U150	152	108	95.5	0.21
U160	162	113	100.5	0.22
U180	182	123	110.5	0.25
U200	202	133	120.5	0.27
U225	227	145.5	133	0.3
U250	252	158	145.5	0.33
U300	302	183	170.5	0.4
U315	317	190.5	178	0.42
...

PU

Type	D	L1	L2	W
PU80	114	89	76.5	0.16
PU100	134	99	86.5	0.19
PU125	159	111.5	99	0.22
PU150	184	124	111.5	0.25
PU160	194	129	116.5	0.26
PU180	214	139	126.5	0.29
PU200	234	149	136.5	0.31
PU225	259	161.5	149	0.34
PU250	284	174	161.5	0.37
PU300	334	199	186.5	0.44
PU315	349	206.5	194	0.45
...

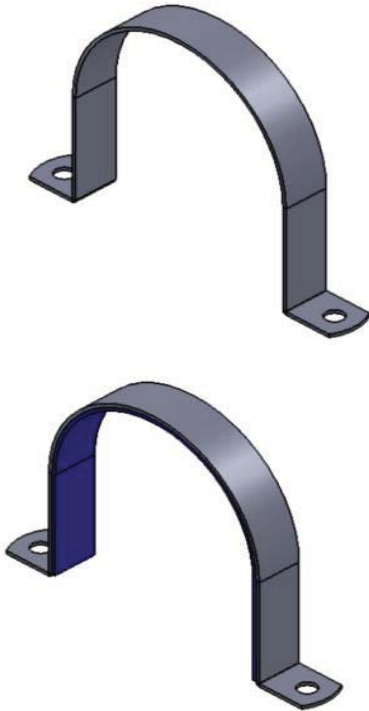
Ordering



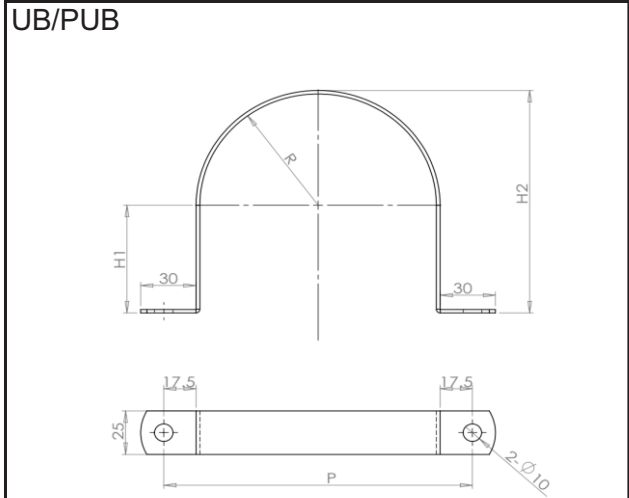
Clam

UB/PUB

UB/PUB



Dimension



Description

UB suspension clamps are used for suspending un-insulated ducts, while PUB type for pre-insulated ducts. Thickness $t=2\text{mm}$.
 The sizes of PUB clamps will change while the thickness of pipes' insulation is 25mm.
 Special sizes can be customized

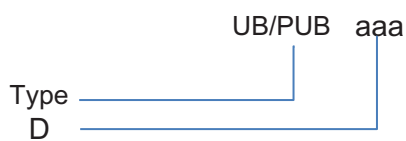
UB

Type	P	H1	H2	R	W
UB80	123	40	84	42	0.11
UB100	143	50	104	52	0.13
UB125	167	62	128	64	0.15
UB160	203	80	164	82	0.19
UB180	223	90	184	92	0.21
UB200	243	100	204	102	0.23
UB225	268	112	228	114	0.25
UB250	293	125	254	127	0.28
...

PUB

Type	P	H1	H2	R	W
PUB80	153	55	114	57	0.14
PUB100	173	65	134	67	0.16
PUB125	195	76	156	78	0.18
PUB160	233	95	194	97	0.22
PUB180	253	105	214	107	0.24
PUB200	273	115	234	117	0.26
PUB225	298	127	258	129	0.28
PUB250	323	140	284	142	0.33
...

Ordering



Clamp

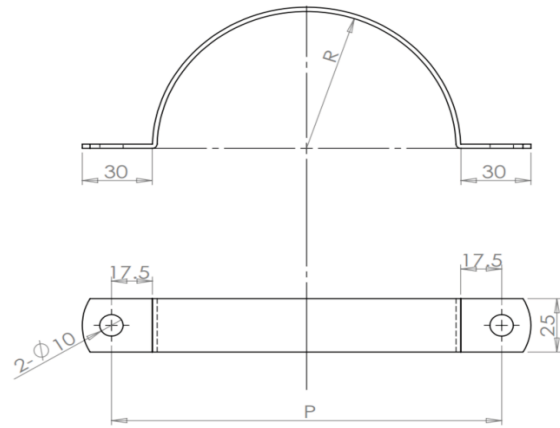
UC/PUC

UC/PUC



Dimension

UC/PUC



Description

UC suspension clamps are used for suspending un-insulated ducts, while PUC type for pre-insulated ducts. Thickness $t=2\text{mm}$. The sizes of PUC clamps will change while the thickness of pipes' insulation is 25mm. Special sizes can be customized.

UC

Type	P	R	W
UC 80	123	42	0.08
UC 100	143	52	0.09
UC 125	167	64	0.11
UC 160	203	82	0.13
UC 180	223	92	0.14
UC 200	243	102	0.15
UC 225	268	114	0.18
UC 250	293	127	0.18
...

PUC

Type	P	R	W
PUC 80	153	57	0.1
PUC 100	173	67	0.11
PUC 125	195	78	0.12
PUC 160	233	97	0.15
PUC 180	253	107	0.16
PUC 200	273	117	0.17
PUC 225	298	129	0.19
PUC 250	323	142	0.22
...

Ordering



Clamp

UD/UDX

UD

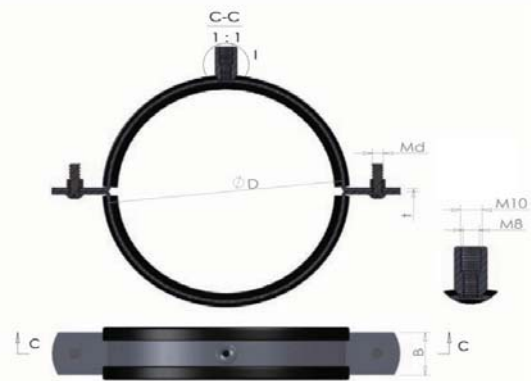


UDX



Dimension

UD/UDX

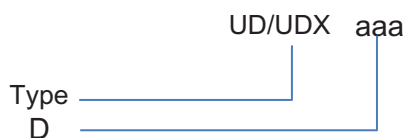


Description

UD is used for mounting pipes to walls (vertical/horizontal), ceilings and floors. Hanging type is M8/M10 combi nut; EPDM lining; Easy and safe assembly through philips combi side screws; Side screws are protected against loss during assembly with the help of plastic washers; Electro galvanized of corrosion resistance (plastic thickness 8-10 micron)

D	Installation range	Md	Bolt/Nut
80	82.4	M 6	M 8/M 10
100	103.6	M 6	M 8/M 10
125	128.6	M 6	M 8/M 10
140	143.6	M 6	M 8/M 10
150	153.6	M 6	M 8/M 10
160	163.6	M 6	M 8/M 10
180	183.6	M 6	M 8/M 10
200	203.6	M 6	M 8/M 10
224	227.6	M 6	M 8/M 10
250	253.6	M 6	M 8/M 10
280	284.8	M 6	M 8/M 10
300	304.6	M 6	M 8/M 10
315	319.8	M 6	M 8/M 10
355	359.8	M 6	M 8/M 10
400	404.8	M 6	M 8/M 10
...

Ordering



Clamp/Hose binder

UE/UF/SK

UE/UF/SK

UE



UF



UK



Dimension

UE/UF/SK

Type

80

100

120

125

140

150

160

180

200

220

225

250

275

300

315

.....

Description

UE is a rapid straps made of galvanized steel, PVC-rubber, compatible with 1mm galvanized piping
 UF is a rapid straps made of galvanized steel, UF with rubber is also available.
 Material: SUS 304
 SK hose binders are used for flexible hoses lock. Dimension: 80-400

Ordering



Sealant/Tape/Rubber

Sealant



Description

Multi purposes: marine adhesive/sealant and bedding compound.
 The picture is SIKA sealant which is certificated by DNV. Other Sealants are also available.

Tape



Description

1) Aluminum foil tape
 2) Aluminum foil fiber tape
 With fire certificate.

Rubber



Description

With fire certificate.

Volume Control Damper

VCD

VCD



Description

Air volume regulating handle with accurate control system.

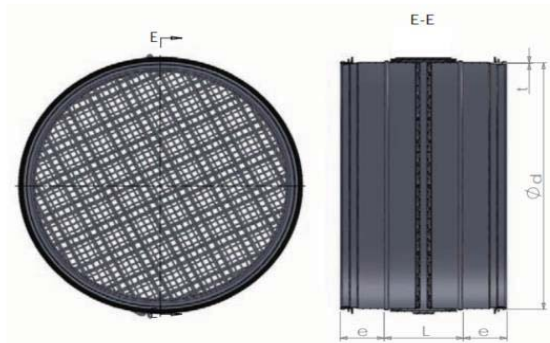
Round Duct Filter

RDF

RDF



Dimension



Description

RDF round duct filter is used for initial filtration of flowing air in round duct systems. Filtering element is a EU4 class inset secured with a galvanized net. Cover is made of galvanized steel with gaskets on both ends. Constriction secures easy and fast assembly.

Size	d1	L	e
100	100	70	33.5
125	125	70	33.5
160	160	70	33.5
180	180	70	37.5
200	200	70	37.5
250	250	70	37.5
315	315	70	47.5
...

Louver

SLV

SLV

Description

The SLV is a ventilation grille with fixed, inclined bars, and is designed specially for exhaust air.



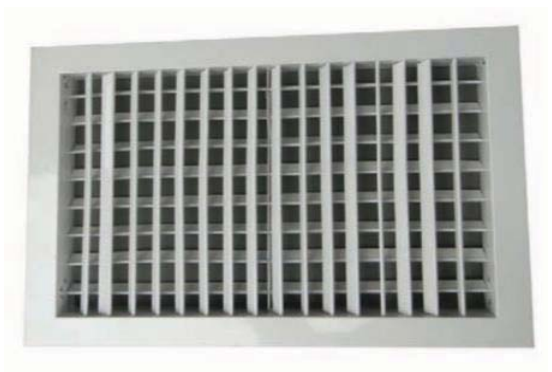
Louver

SDF

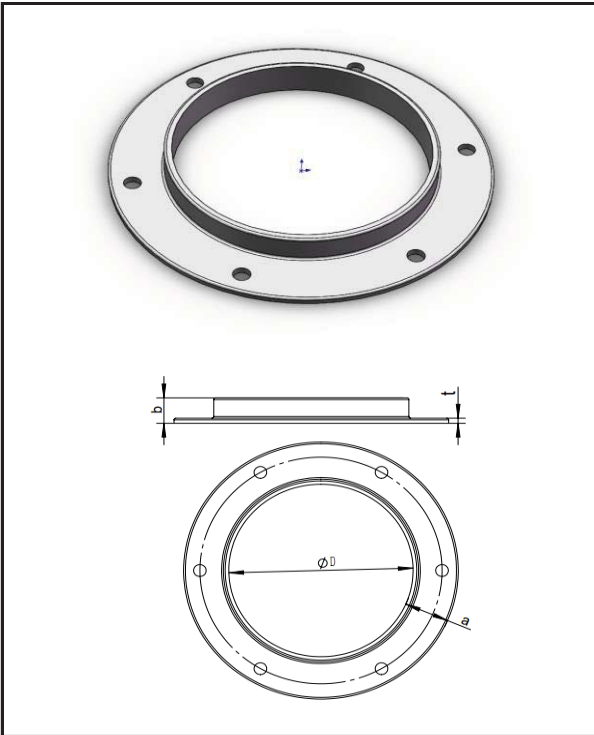
SDF

Description

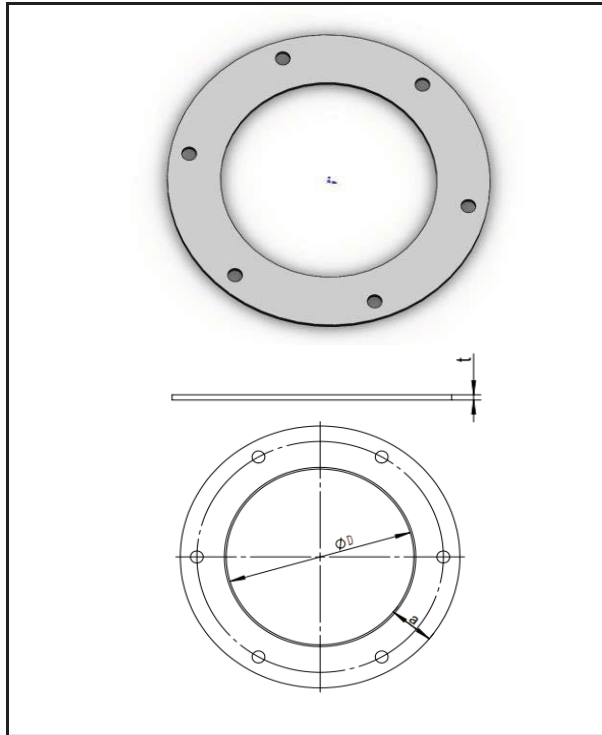
The SDF is suitable for supplying and exhausting air, with horizontal, adjustable bars for mounting on walls or directly in rectangular ducts.



FLA



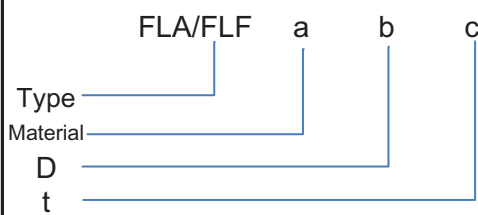
FLF



Description

FLA Flanges are made from steel angle which is hot dip galvanized or painted. The size is suitable for the duct or fitting.
 Standard length of sides: $a=b=20, 25, 30, 36, 40, 45, 50$;
 Standard thickness: $t=3, 4, 5, 6$.
 Special sizes can be customized.

Ordering





江苏仁泽通风设备制造有限公司
JIANGSU RISEN VENTILATION MANUFACTURING CO.,LTD

Add: Nantong City Tongzhou District Shizong Town Aimin Village
Post Code:226343
Fax: (+86)-0573-67838527
Tel : (Mr.Gao)(+86)-15896272993;(Mr.Chen)(+86)-15190851100; (+86)-0573-67838527
E-Mail: gls_risengroup@sina.com ;cg_risengroup@sina.com ;
Http: www.risengroup.cn