CIRCULAR DUCT

SPIRAL DUCT

Spiral Duct System is manufactured to meet the most stringent specifications and quality standards using our vast experience and expertise in the field. This system is available in our range of products for various applications. Energy efficiency, indoor air quality and fine workmanship are the basis of our engineered products.

Spiral Duct System is produced on original Spiro 'Tube former', Spiro 'Gore Locker' and Spiro 'Stitch Welder' machinery's from 'SPIRO INTERNATIONAL S.A'., Switzerland.

The System is made on from sheet metal consisting of lock seamed round spiral tubes
with an extra deformation on lock in the seam (The 'Bubblan' patent).



Product Features :

- Superior strength, low leakage rate & low pressure drop.
- Reduces low frequency noise.
- Sizes available are 100Ø, 150Ø, 200Ø, 250Ø, 315Ø,400 Ø,500 Ø,630 Ø,710 Ø,800 Ø,1000 Ø,1250 Ø

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CIRCULAR DUCT

EXCLUSIVE FEATURES

- Covers all pressure applications from low/medium to high pressure systems.
- Lower installation and operating cost.
- Aesthetic design for visible duct installation.
- Savings on sheet metal material due to reduced Surface area as well as savings on associated items such as insulation, adhesives, canvas cloth, supports etc.
- The patented "Bubblan" reel makes sure to produce a fixed lock seam and assured duct quality.
- Meets all the duct construction standards like DW-144 SMACNA, Euro vent, etc.
- Spiral tubes can be supplied in 6 meters length. Hence, Less number of joints with reduced cost and low leakage in the system.
- Top quality of airtight seam and Diameter tolerance.
- Superior Performance through standard galvanized steel.



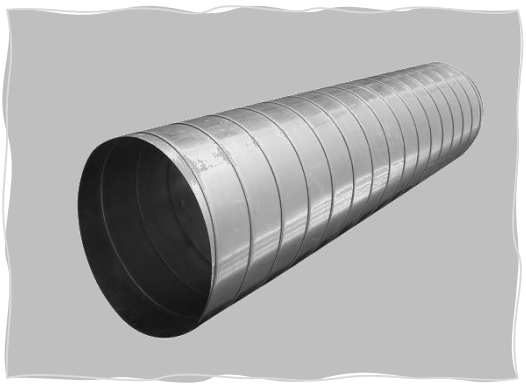
Benefits of SASCO Spiral Duct

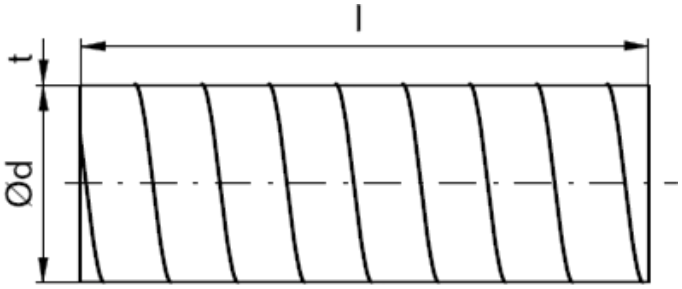
- Energy efficient
- Cost Efficient to install
- Needs less hanger
- Operation cost less
- More noise free
- Installation simplified
- Cleaning less complicated
- Airflow measurement easier
- Lighter in weight



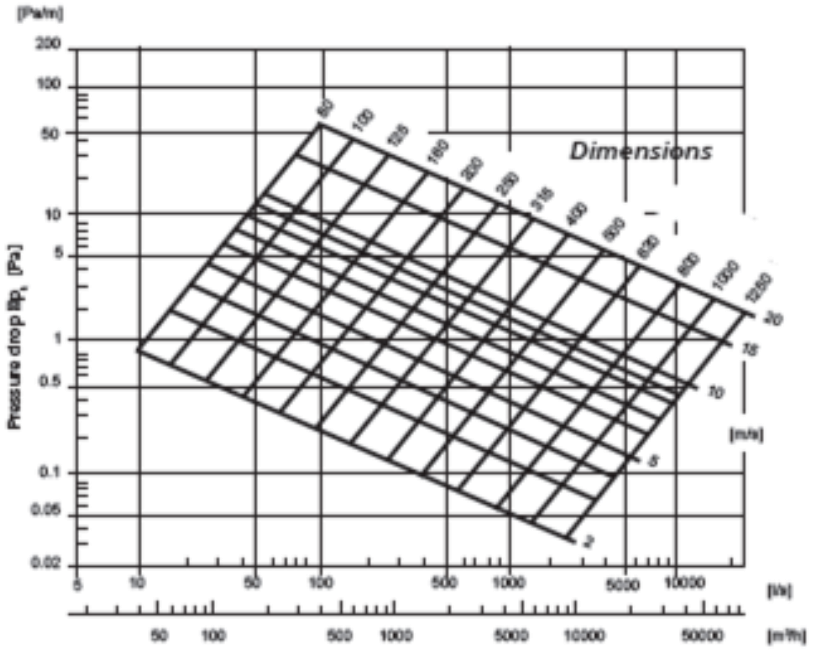
CIRCULAR DUCT

GI SPIRAL DUCT





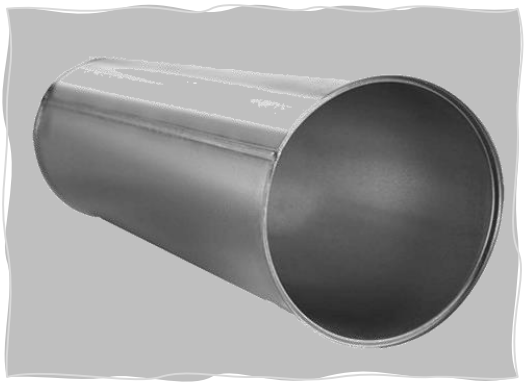
Dia (ø) mm	Thickness (mm)	Length (mm)
100	0.55	4000
150	0.55	4000
200	0.55	4000
250	0.55	4000
315	0.55	4000
400	0.55	4000
500	0.7	4000
630	0.7	4000
710	0.7	4000
800	0.7	4000
1000	0.85	4000
1250	1	4000



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CIRCULAR DUCT

GI ROUND DUCT





Single wall circular duct can be fabricated and supplied with wide range of diameters.

The fabrication is in accordance with SMACNA HVAC duct construction standard

Circular duct can be fabricated with a maximum length of 1220 mm.

Material
Is supplied with various material

Thickness
offered in various thickness from 0.55 mm to 2 mm

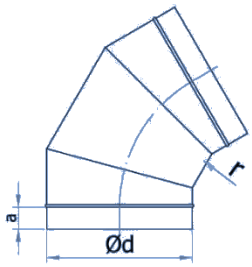
Seam
Offers with longitudinal seam represented in spot, seam lock or full weld depending on duct thickness and length

Dia (ø) mm	Thickness (mm)	Length (mm)
100	0.55	1220
150	0.55	1220
200	0.55	1220
250	0.55	1220
300	0.55	1220
400	0.55	1220
500	0.7	1220
600	0.7	1220
700	0.7	1220
800	0.7	1220
900	0.85	1220
1000	1	1220
1100	1.2	1220
1200	1.2	1220
1300	1.2	1220
1400	1.2	1220
1500	1.2	1220
1600	1.2	1220

SASCO

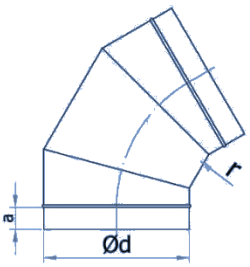
ELBOW 90°





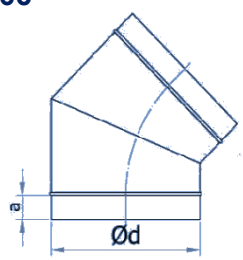
ELBOW 75°





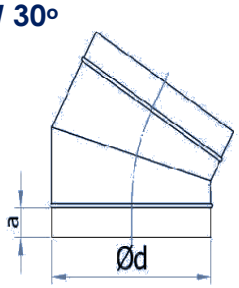
ELBOW 60°





ELBOW 30°





Dia(ø) mm	Thickness(mm)	a(mm)
100	0.70	50
150	0.70	50
200	0.70	50
250	0.70	50
315	0.70	50
400	0.70	50
500	0.85	50
630	0.85	50
710	0.85	50
800	0.85	50
900	1	50
1000	1	50
1100	1.2	50
1200	1.2	50
1250	1.2	50

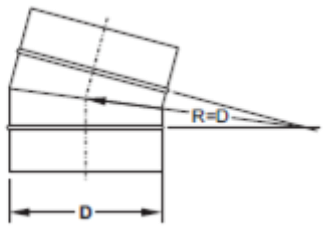
Note: SASCO standard radius is 150 mm

CIRCULAR DUCT

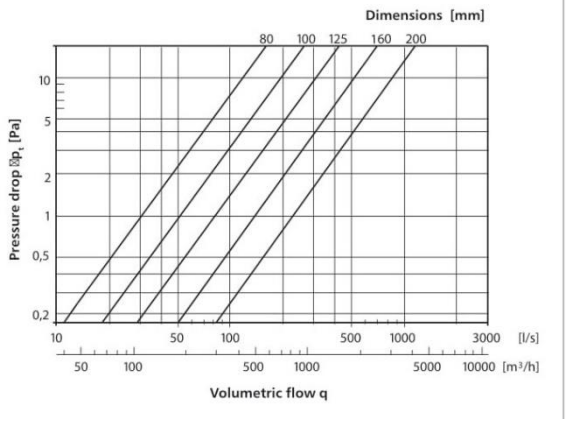
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CIRCULAR DUCT

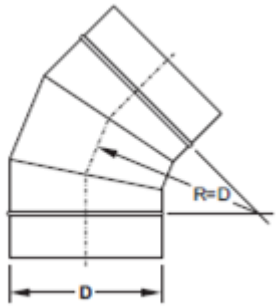
ELBOW 15 °



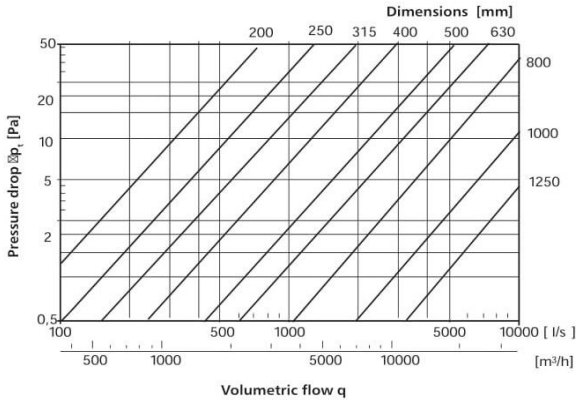
Technical Data



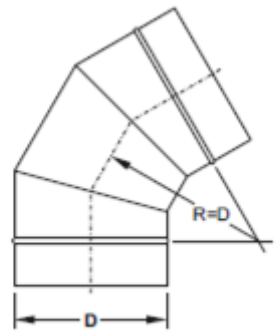
ELBOW 45 °



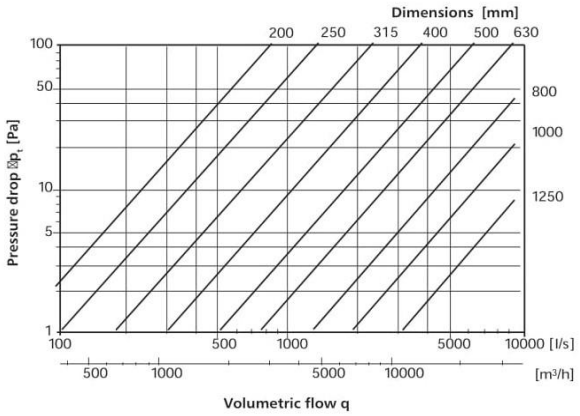
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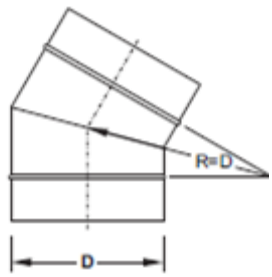
ELBOW 60°



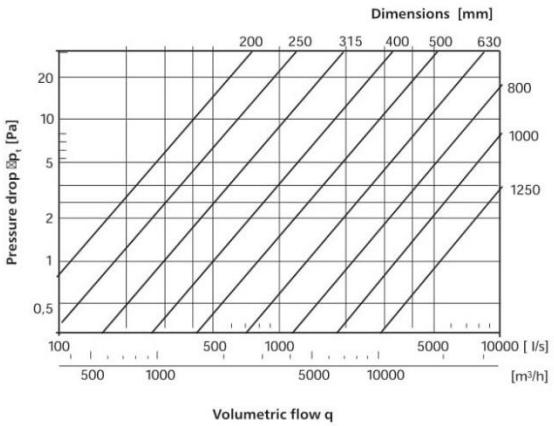
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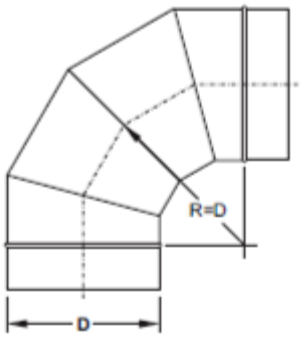
ELBOW 30 °



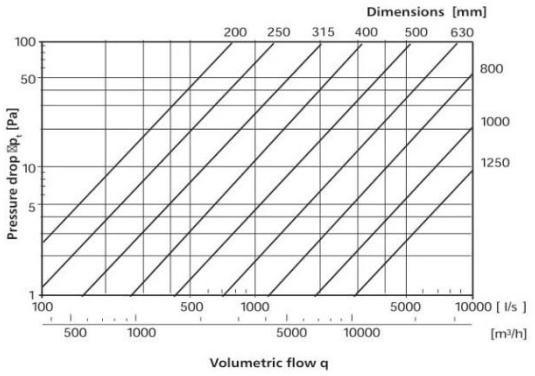
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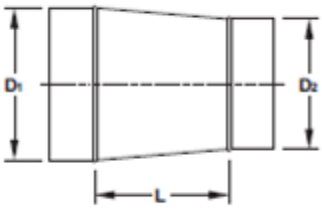
ELBOW 90 °

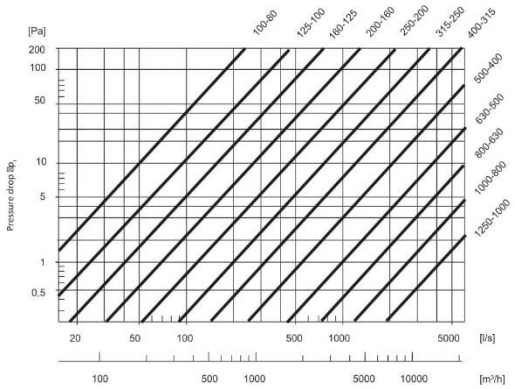


Technical Data



CONCENTRIC REDUCER





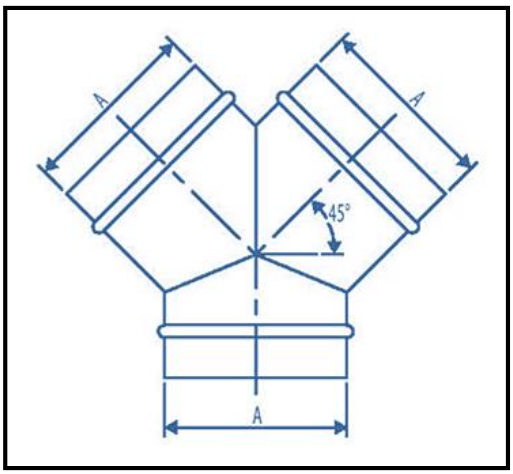
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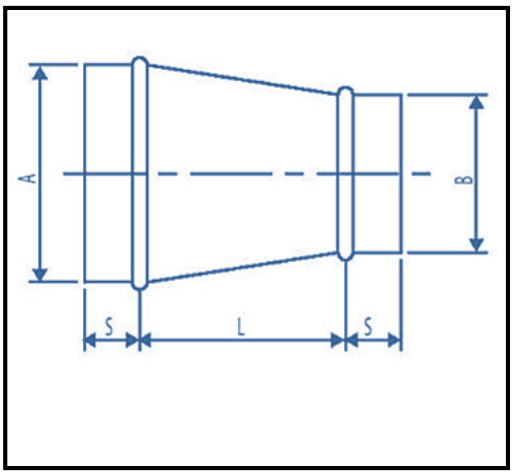
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ROUND SPIRAL DUCT FITTINGS-WYE REDUCERS

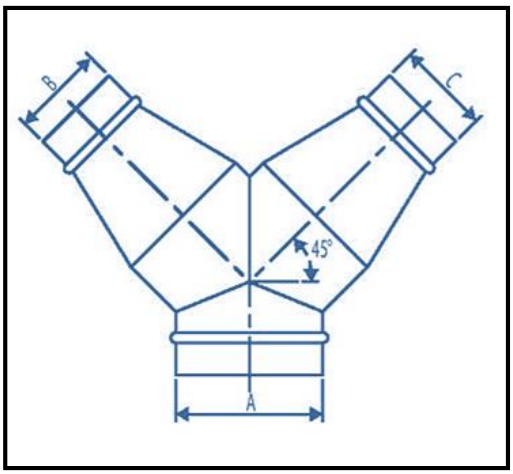
Equal Y 45°



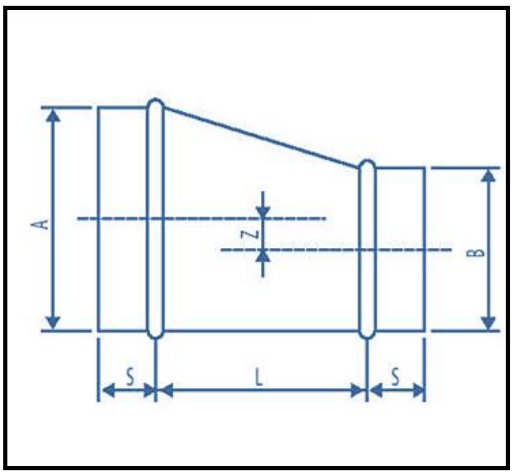
Concentric Reducer



Reducing Y -45°

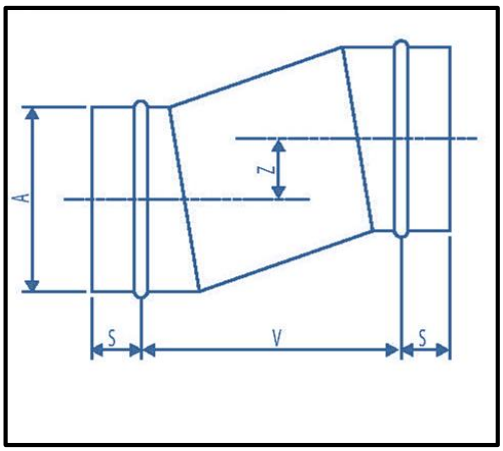


Eccentric Reducer

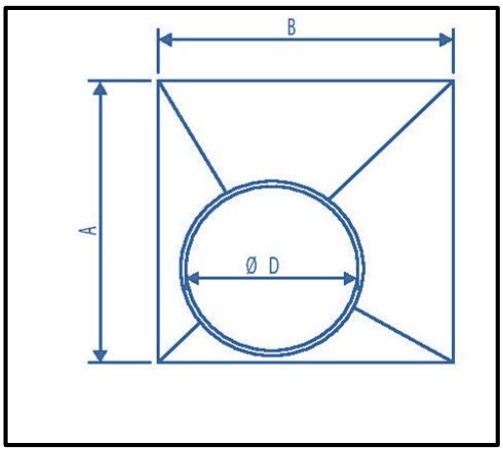


SASCO

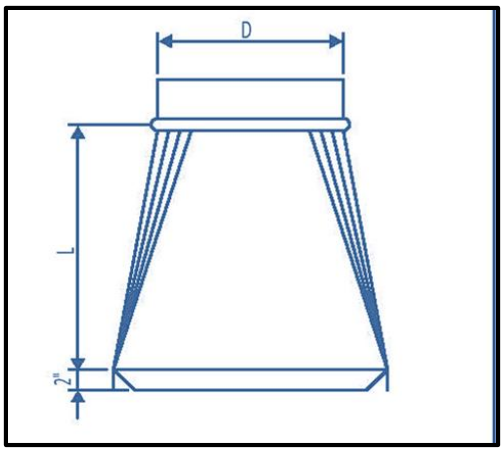
OFFSET



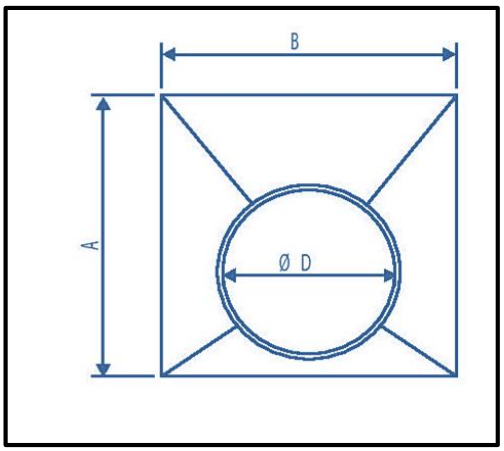
SQUARE TO ROUND FLAT TWO SIDES



SQUARE TO ROUND



SQUARE TO ROUND FLAT ONE SIDE –ON CENRE

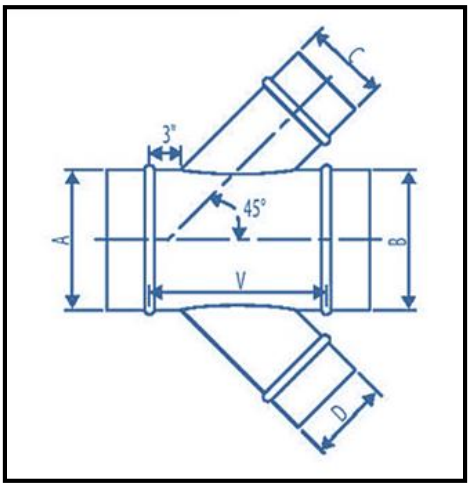


CIRCULAR DUCT

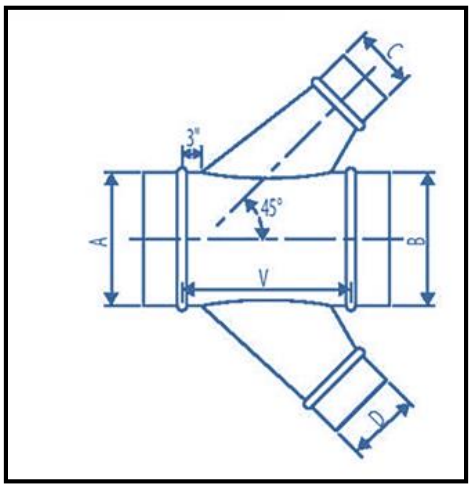
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ROUND SPIRAL DUCT FITTINGS-LATERAL CROSSES

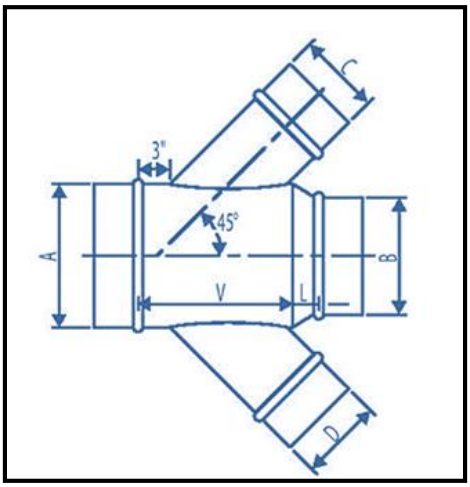
LATERAL CROSS



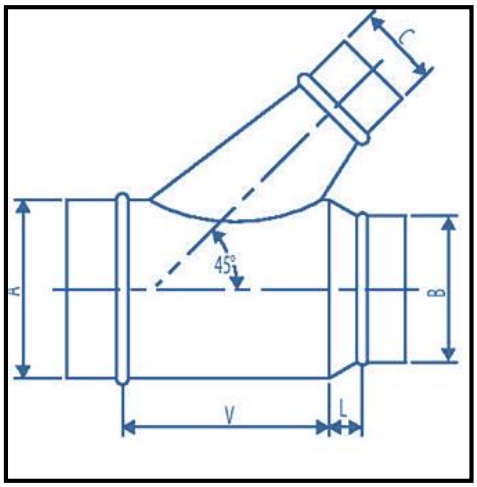
CONICAL LATERAL CROSS



REDUCING LATERAL CROSS

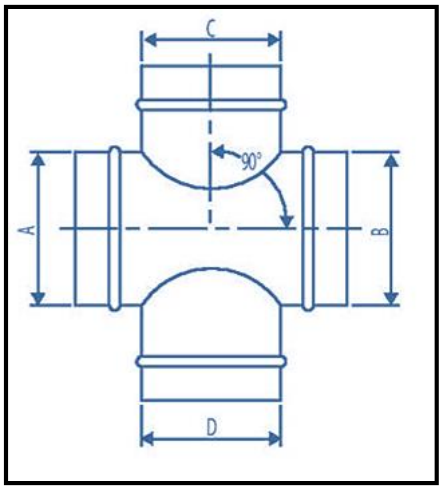


CONICAL REDUCING LATERAL CROSS

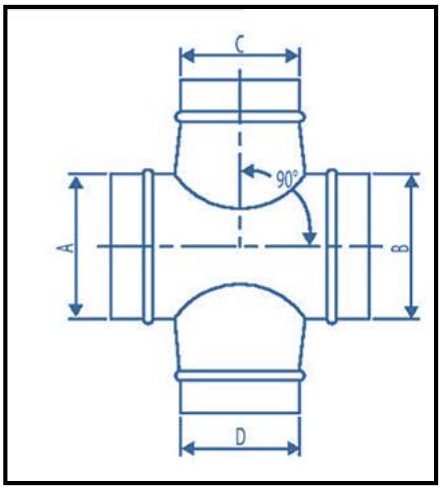


ROUND DUCT FITTINGS-CROSSES

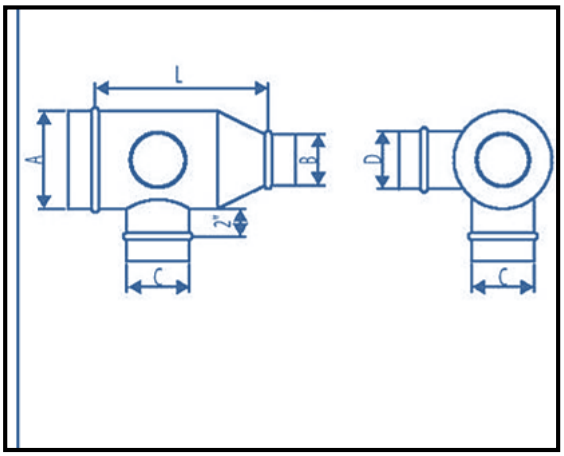
180° CROSS



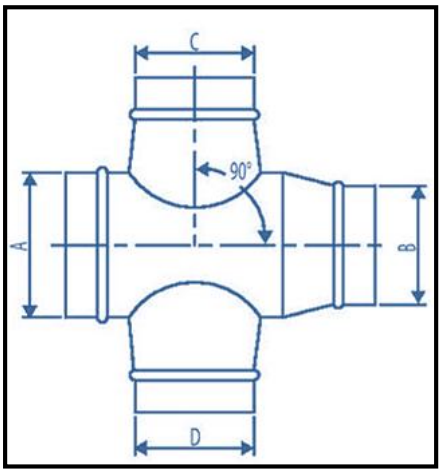
180° CONICAL CROSS



90° CROSS WITH REDUCER

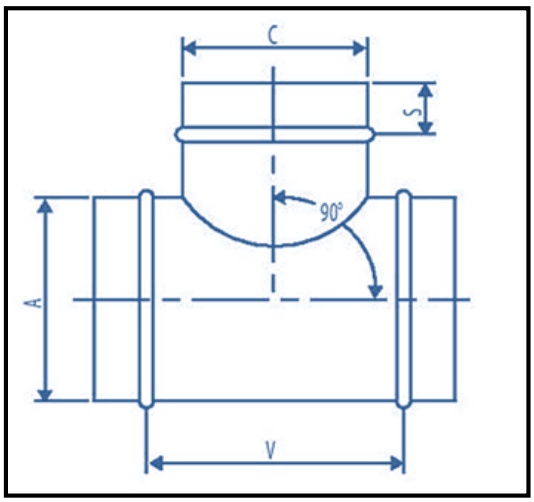


180° CONICAL CROSS WITH REDUCER

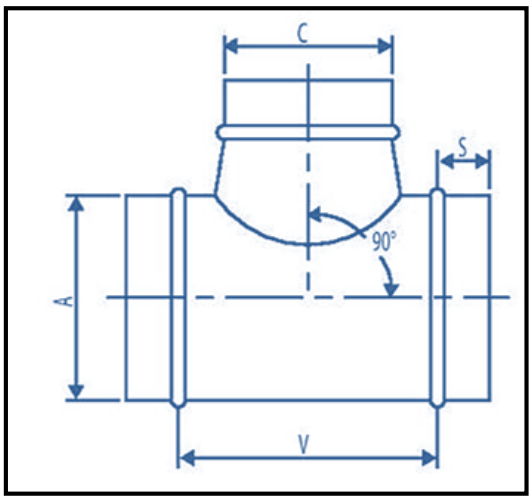


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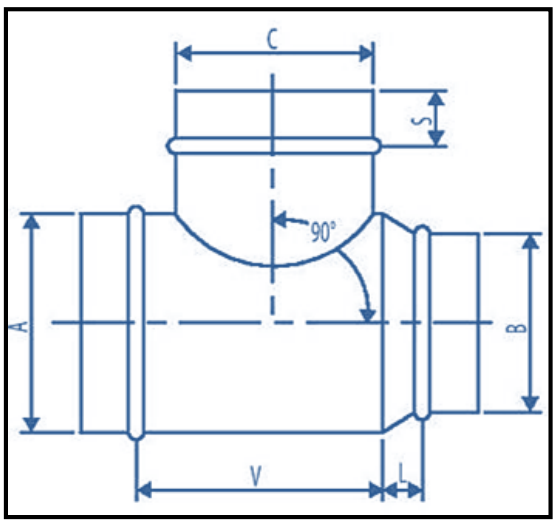
90° CROSS



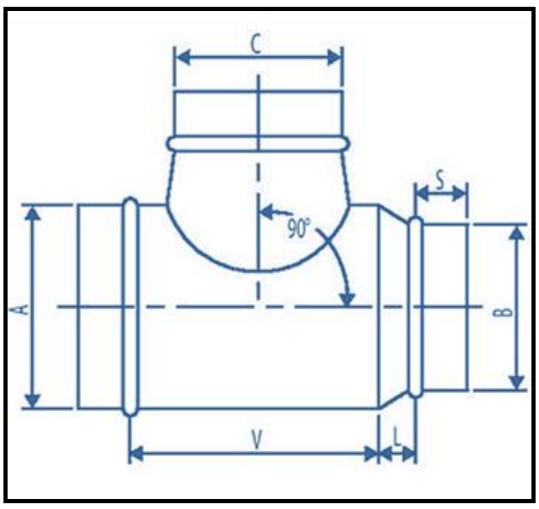
90° CONICAL TEE



90° TEE WITH REDUCER

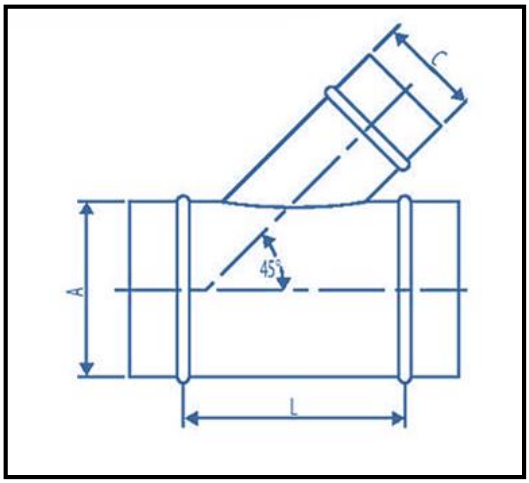


CONICAL REDUCING TEE

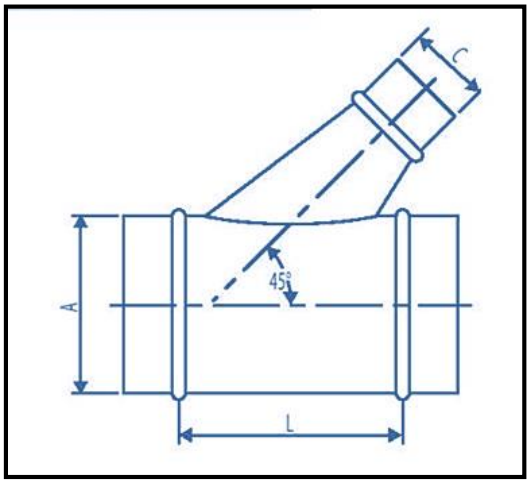


ROUND SPIRAL DUCT FITTINGS -LATERALS

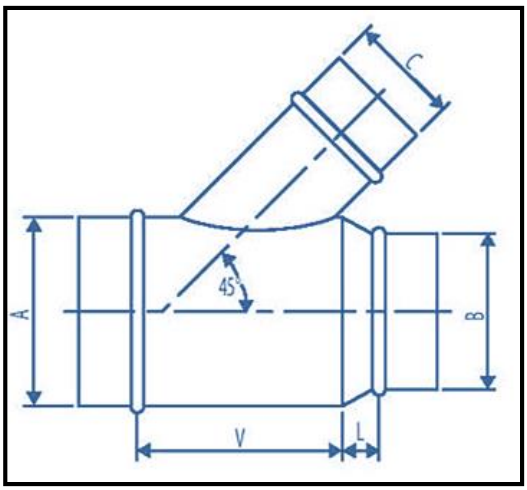
45° LATERAL



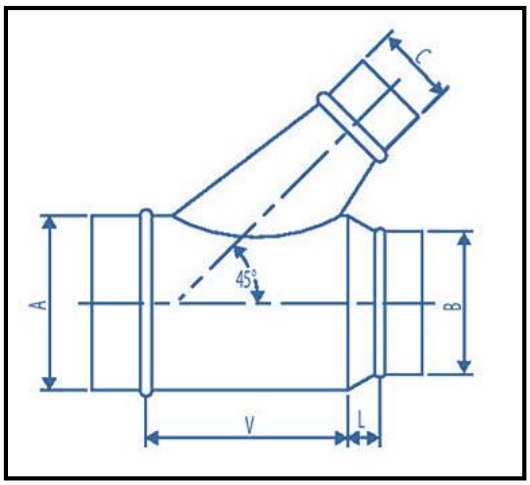
LATERAL



REDUCING LATERAL



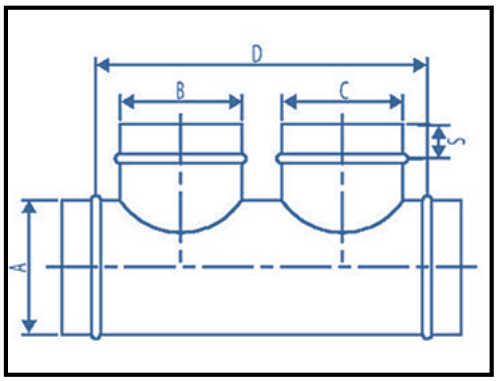
REDUCING CONICAL LATERAL



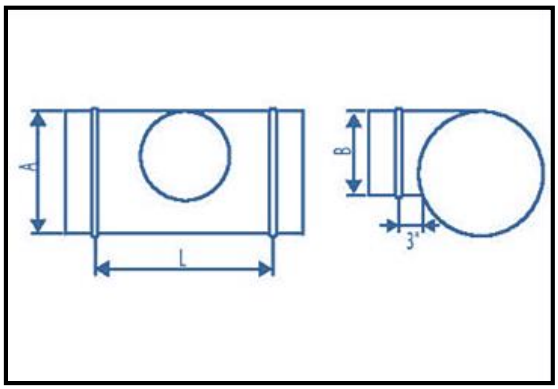
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ROUND SPIRAL DUCT FITTINGS-TEES

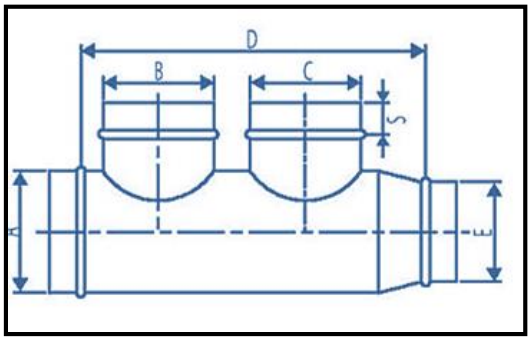
90° DOUBLE BRANCH TEE



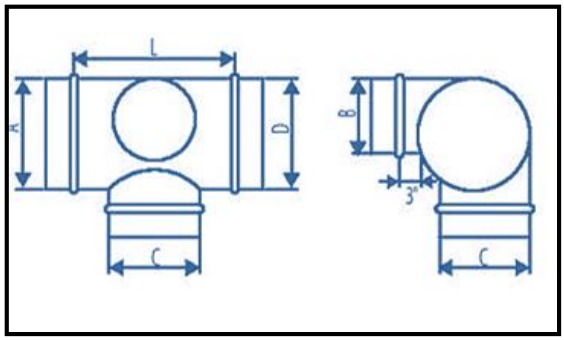
TANGENTIAL



90° DOUBLE BRANCH TEE WITH REDUCER

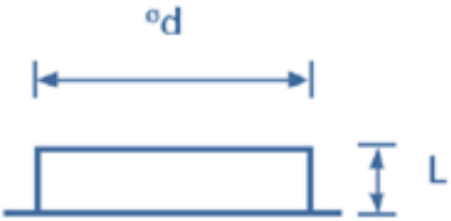


TANGENTIAL CROSS TEE



ENDCAP





Dia (ø) mm	Thickness (mm)	Length (mm)
100	0.70	50
150	0.70	50
200	0.70	50
250	0.70	50
300	0.70	50
315	0.70	50
400	0.70	50
500	0.70	50
600	0.85	50
630	0.85	50
700	0.85	50
710	0.85	50
800	.85	50
900	1	50
1000	1	50
1100	1.2	50
1200	1.2	50
1250	1.2	50
1300	1.2	50
1400	1.2	50

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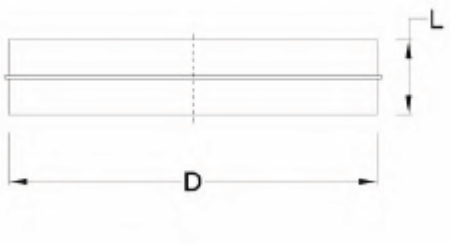


Description
Male coupling is used to join two ducts with raw ends.

Construction Material:
Coupled is made with various material galvanized steel G90 in accordance with ASTM A653, Stainless Steel 304 and 316 in accordance with ASTM A 240 and aluminum Alloy 3003-H14 in accordance with ASTM B209.

Thickness :
From 0.55 to 1.2 mm

Seam type
Is available with different longitudinal seam types depending on duct thickness



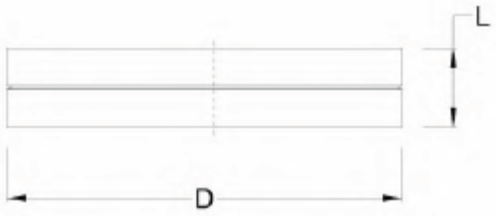


Description
Female coupling is used to join two ducts with raw ends.

Construction Material:
Coupled is made with various material galvanized steel G90 in accordance with ASTM A653, Stainless Steel 304 and 316 in accordance with ASTM A 240 and aluminum Alloy 3003-H14 in accordance with ASTM B209.

Thickness :
From 0.55 to 1.2 mm

Seam type
Is available with different longitudinal seam types depending on duct thickness



SASCO

SIZE GUIDE

Dia (ø) mm	Thickness (mm)	Length (mm)
100	0.70	50
150	0.70	50
200	0.70	50
250	0.70	50
300	0.70	50
315	0.70	50
400	0.70	50
500	0.70	50
600	0.85	50
630	0.85	100
700	0.85	100
710	0.85	100
800	.85	100
900	1	100
1000	1	100
1100	1.2	100
1200	1.2	100
1250	1.2	100
1300	1.2	100
1400	1.2	100

COUPLER



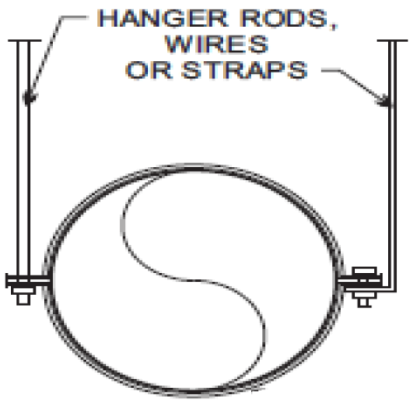


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DUCT SUPPORTS

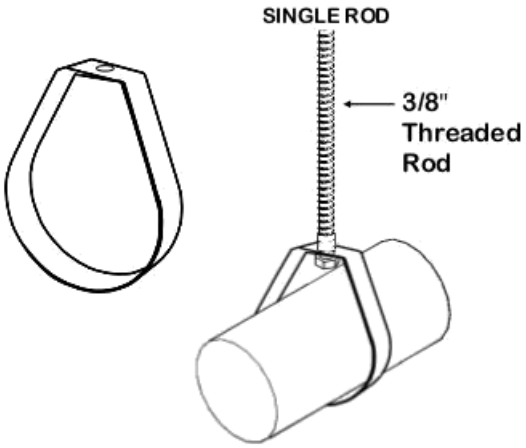
Saddle Hangers Double Rod Hanger

A sturdy, vertically and horizontally stable option, sometimes called a 'pipe hanger,' is typically attached to rods or angle supports. This installation provides excellent support and security of the ductwork system. Saddle hangers usually take a bit longer to position and install, so they are often used in conjunction with other hangers.



Single rod Hanger

A Single rod style hanger offers stability and ease of installation with only one connection fitting. The single rod design makes installing and hanging a variety of duct simple.



SASCO Spiral Duct Construction as per SMACNA Standard

SMACNA Standard for Low (500PA) & Medium Pressure (750PA)

Duct Longer Size in mm	Straight Thickness	Fittings Thickness	SASCO's DIA STANDARD in mm	Longitudinal Joint for Straight	Longitudinal Joint for Fitting Pieces	Transverse Joint
0mm to 360mm	0.50	0.60	100Ø, 150Ø, 200Ø, 250Ø, 315Ø, 400Ø	Spiral Seam	Cold Jointing System (Clinching System) or Spot Welding	By Coupler Thickness 0.9mm
361mm to 650mm	0.55	0.70	400Ø, 500Ø, 630Ø			
651mm to 910mm	0.70	0.85	710Ø, 800Ø			
911mm to 1070mm	0.85	1.00	1000Ø			
1071mm to 1500mm	1.00	1.20	1250Ø			

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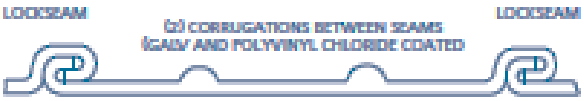
SEAMS



SPIRAL DUCT LOCK SEAM (RL—1)

	Available Gauges
GALVANIZED	28-14
STAINLESS STEEL	26-18
ALUMINUM	22-14*
PAINT GRIP	26-16
POLYVINYL CHLORIDE COATED	26-18
PERFORATED	22

*(Brown & Sharp thickness = 0.025" - 0.090")



SPIRAL DUCT CORRUGATED (RL—1)

	Available Gauges
GALVANIZED	26-18
STAINLESS STEEL	26-18
ALUMINUM	22-18*
PAINT GRIP	26-18
POLYVINYL CHLORIDE COATED	26-18

*(Brown & Sharp thickness = 0.025" - 0.090")



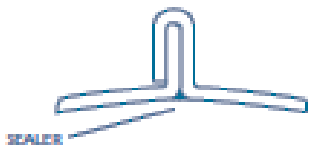
LAP SEAM
spot weld
seam weld
stitch weld
button punch
rivet



BUTT-WELDED SEAM

	Available Gauges
GALVANIZED	20-10
STAINLESS STEEL	22-10
ALUMINUM	16-1/4"*
PAINT GRIP	20-16
HOT ROLLED	16-1/4"

*(Brown & Sharp thickness = 0.05" - 0.25")



GORELOCKED SEAM

	Available Gauges
GALVANIZED	26-18
STAINLESS STEEL	26-22
ALUMINUM	22-16
PAINT GRIP	26-18
POLYVINYL CHLORIDE COATED	26-18

*(Brown & Sharp thickness = 0.025" - 0.050")