

**An ISO 9001-2000  
Company**

THE ROUND  
REVOLUTION



**GP SPIRA**  
DUCT PVT. LTD.

# Spiral Duct

Today, more and more companies are switching from rectangular to spiral round rigid duct work.

*Why is this ? what advantages do spiral systems have over rectangular ? The answer is simple.*

**E**nergy efficient  
**C**ost less to install  
**O**ften requires less space  
**N**eed less hangers  
**O**peration cost lower  
**M**ore noise free  
**I**nstallation simplified  
**C**leaning less complicated  
**A**irflow measurement easier  
**L**ight in weight



Also, the **perimeter of round ducting system is less by 20% or more** of same cross section of rectangular ducting. Hence, the area of ducting and insulation required is less by the same percentage.

## Applications :

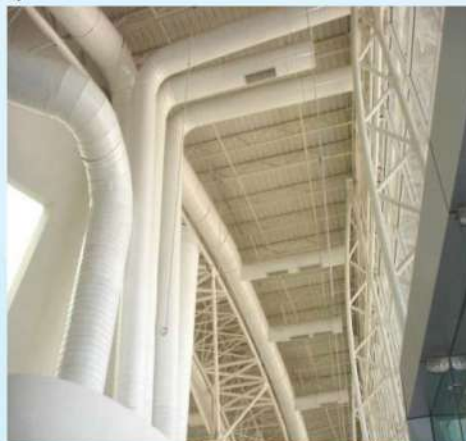
- Air Conditioning (including high pressure and high velocity air distribution systems)
- Ventilation(Industrial & Tunnel)
- Warm air heating
- Fume and dust extraction
- Pneumatic conveying
- Exhaust and air intake pipes.
- Humidification.



## Specifications :

### Thickness:

0.40mm (28G) to 1.6mm (16G)



Thickness of Spiral ducts as per **SMACNA**  
( HVAC Duct construction standards )

| Diameter (mm) | Thickness mm(G) |
|---------------|-----------------|
| 75 to 250     | 0.40 (28G)      |
| 275 to 350    | 0.50 (26G)      |
| 375 to 600    | 0.63 (24G)      |
| 650 to 900    | 0.80 (22G)      |
| 950 to 1250   | 1.00 (20G)      |



**Diameter:** 75mm to 1600 mm

**Length :** Unlimited

**Material :**

Galvanised Steel, Aluminium, Mild Steel (CRCA),  
Stainless Steel, etc.

**Surface Constructions :**

Plain or Corrugated (to increase the rigidity of the ducting by 300%)



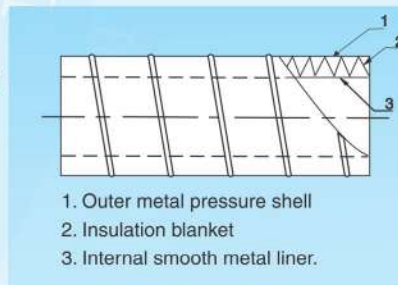
## Pre-insulated Double-walled Spiral Duct Systems

### A. Thermal Insulation:

A double-walled thermal insulated spiral duct consists of an external pressure tight metal shell, a 12.5/ 25 /50mm thick of fiberglass / mineral wool / puf insulation and an internal protective metal liner.

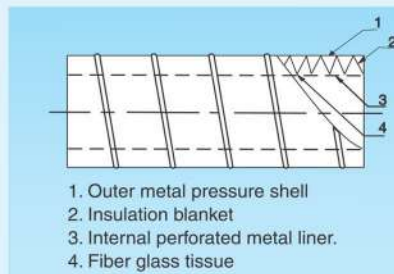
**Advantages :**

- Double-wall fire protection.
- No sheet metal screws in the air stream
- Lower friction loss
- Improved appearance
- Speeds installation
- No fibers in the air stream.
- Protection from External damages.



### B. Acoustic Insulation:

A double-walled acoustic insulated spiral duct consists of an external pressure tight metal shell, a 12.5/25/50mm thickness of fiber glass/mineral wool insulations and an internal perforated protective metal liner and fiber glass tissue between the perforated liner and insulation material. In addition to the above advantages this system is having advantage of High Sound transmission loss.



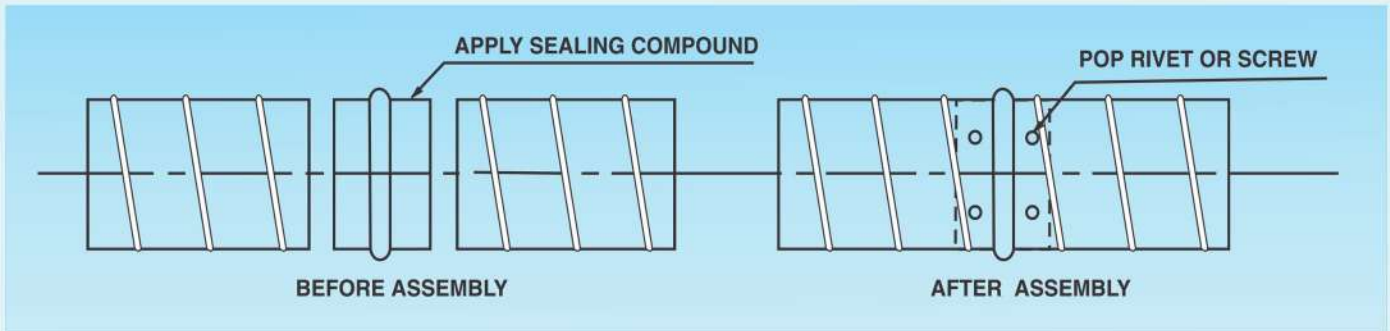
### Duct Fittings:

Duct Fittings, Standing seam Elbows, Reducers, End caps, Offsets, etc. are manufactured on high speed machines while maintaining the high dimensional accuracy.

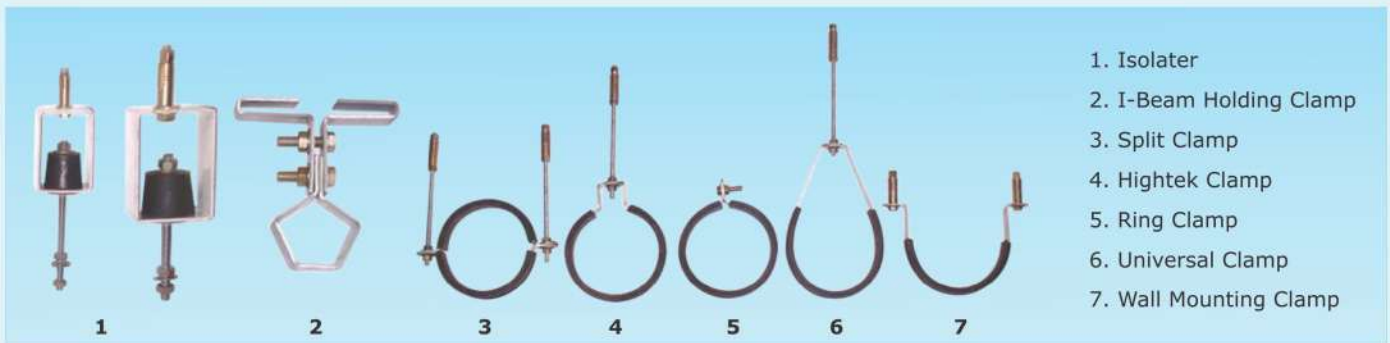


## Jointing System :

Spiral Ducts and duct fittings joined together by slip joint coupling.



## Supporting/Hanging System



**NOTE : Mobile Machine** is available where the quantities and location warrants



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