

Flat-oval Spiral Duct

Flat-oval spiral duct is machine formed round spiral duct. The straight sections of the long sides are stretched taut and perfectly flat. The flat oval shape is specifically designed for low head room and restricted space locations which can't accept round duct.

Spiral Duct work systems in both round and flat-oval shape have many advantages, some of the major advantages include

- Light weight spiral reinforced walls.
- Smooth streamline internal surfaces giving low friction loss and no turbulence.
- Long runs in continuous lengths.
- Simple joining technique.
- Matted fittings of consistent size.
- Reduced space requirement: In height or depth.



Specifications

Thickness :

0.60(24G) to 1.00mm(20G)

Thickness of flat-oval spiral ducts as per SMACNA "HVAC Duct Construction Standards" - 1985.

Major axis Duct width (in)	Spiral Duct Thickness Gauge (mm)	Duct Fittings Thickness Gauge (mm)
to 24"	24 (0.63)	20 (1.00)
25" to 36"	22 (0.80)	20 (1.00)
37" to 48"	22 (0.80)	18 (1.25)
49" to 60"	20 (1.00)	18 (1.25)
61" to 70"	20 (1.00)	16 (1.60)

Length:

4, 8, 10 and 12 ft. length

Material :

Galvanised steel, mild steel (CRCA), Aluminium, Stainless Steel etc.

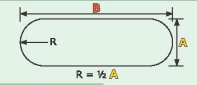
Surface Constructions:

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



Standard Sizes:

Basic Circular diameter	Nominal Duct Height (A)							
	6"	8"	10"	12"	14"	16"	18"	20"
16"	22" #12"	21" #13 1/2"						
17"	23 1/2" #12 1/2"	22" #14"						
18"	25" #12 1/2"	24" #14 1/2"	23" #15 1/2"					
19"	26" #12 1/2"	25" #14 1/2"	24" #16"					
20"	27" #13 1/2"	26" #15"	25" #17"	20" #18"				
21"	28 1/2" #13 1/2"	27 1/2" #15 1/2"	26 1/2" #17 1/2"	26" #19 1/2"				
22"	31 1/2" #13 1/2"	30 1/2" #16"	29" #17 1/2"	28" #19"	27" #20"			
23"	31 1/2" #16 1/2"	30 1/2" #17"	29 1/2" #19 1/2"	28 1/2" #20 1/2"				
24"	33" #16 1/2"	32 1/2" #18"	31" #20"	30" #21 1/2"	29" #22 1/2"			
25"	34 1/2" #17"	33 1/2" #19 1/2"	31 1/2" #20 1/2"	31 1/2" #21 1/2"	30" #22"			
26"	37 1/2" #17 1/2"	35 1/2" #19 1/2"	34 1/2" #21"	33" #22 1/2"	32" #23 1/2"	31" #24 1/2"	29 1/2" #25"	
28"	39 1/2" #18"	38 1/2" #20"	37 1/2" #21"	36 1/2" #22"	35" #23"	34" #24"	33" #25"	
30"	42" #21 1/2"	40 1/2" #22 1/2"	39 1/2" #23 1/2"	38 1/2" #24 1/2"	37" #25 1/2"	36" #26"	35" #27"	
32"	45" #21 1/2"	44" #23 1/2"	42 1/2" #24 1/2"	41 1/2" #25 1/2"	40" #26"	39" #27"	38" #28"	
34"	48" #22 1/2"	47" #23 1/2"	46" #24 1/2"	45" #25 1/2"	44" #26"	43" #27"	42" #28"	
36"	51 1/2" #22 1/2"	50" #24 1/2"	49" #25 1/2"	48" #26 1/2"	47" #27"	46" #28"	45" #29"	
38"	53" #25 1/2"	52" #26 1/2"	51" #27 1/2"	50" #28 1/2"	49" #29 1/2"	48" #30 1/2"	47" #31 1/2"	
40"	56 1/2" #26 1/2"	55 1/2" #27 1/2"	54" #28 1/2"	53" #29 1/2"	52" #30 1/2"	51" #31 1/2"	50" #32 1/2"	
42"	60" #27 1/2"	59" #28 1/2"	58" #29 1/2"	57" #30 1/2"	56" #31 1/2"	55" #32 1/2"	54" #33 1/2"	
44"	63" #27 1/2"	62" #29 1/2"	61" #30 1/2"	60" #31 1/2"	59" #32 1/2"	58" #33 1/2"	57" #34 1/2"	
46"	66" #30 1/2"	65" #31 1/2"	64" #32 1/2"	63" #33 1/2"	62" #34 1/2"	61" #35 1/2"	60" #36 1/2"	
48"	69" #31 1/2"	68" #32 1/2"	67" #33 1/2"	66" #34 1/2"	65" #35 1/2"	64" #36 1/2"	63" #37 1/2"	



Pre-insulated Double-walled Flat-oval Spiral Duct Systems

Thermal / Acoustic Insulation:

A double-walled insulated Flat-oval Spiral Duct consists of an external pressure tight metal shell, a 12.5 / 25 / 50mm thick of fiberglass / mineral wool / puf insulation and internal plain protective metal liner for thermal insulation or perforated metal inner liner for acoustic insulation.

