

Ducts SPR

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Description

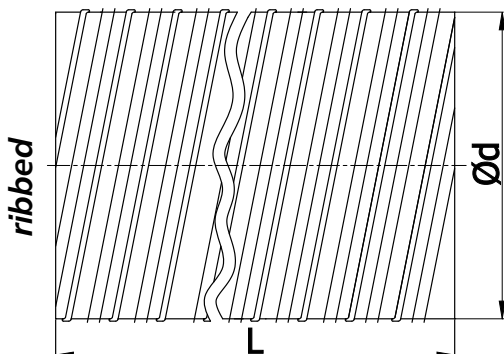
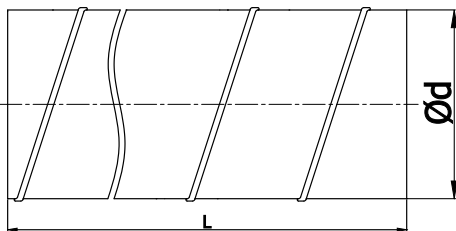
Round spiral ducts available in diameters from 80 to 1600mm; from diameter 250mm they are provided with external ribs to increase their stiffness and resistance to negative pressure.

Example identification

Product code: SPR - aaa - bbb

type _____
 $\varnothing d_1$ _____
 material _____

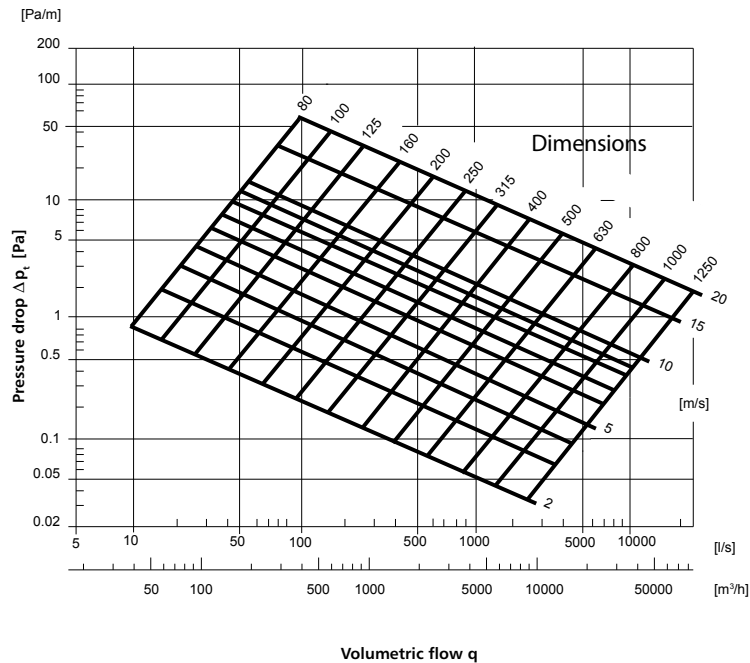
Dimensions



Dimensions

$\varnothing d$ rated [mm]	πd [m]	$\frac{\pi d^2}{4}$ [m ²]
80	0,251	0,005
100	0,314	0,008
125	0,393	0,012
140	0,440	0,015
150	0,471	0,018
160	0,502	0,020
180	0,565	0,025
200	0,628	0,031
224	0,703	0,039
250	0,785	0,049
280	0,879	0,062
300	0,942	0,071
315	0,989	0,078
355	1,115	0,099
400	1,256	0,126
450	1,413	0,159
500	1,570	0,196
560	1,758	0,246
600	1,884	0,283
630	1,978	0,312
710	2,229	0,396
800	2,512	0,503
900	2,826	0,636
1000	3,140	0,785
1120	3,517	0,985
1250	3,925	1,227
1400	4,396	1,539
1600	5,024	2,010

Technical Data



Negative pressure

In systems with high negative pressure in relation to atmospheric pressure there is a high risk of the ventilation duct becoming deformed. Deformations usually start from the weakest points of the duct, i.e. dents occurred e.g. during transport, handling or installation. It is important therefore that the ducts and their dimensions are carefully selected depending on what the working negative pressure is projected to be like. The table below presents the maximum negative pressures allowable for specific ducts (Pa).

L [m]	Ød [mm]	t=0,5 [mm]		t=0,6 [mm]		t=0,7 [mm]		t=0,9 [mm]		t=1,25 [mm]	
			ribbed		ribbed		ribbed		ribbed		ribbed
6	80	27000		46700							
	100	21000		36300		38000		42000			
	125	15000		25900		31000		35000			
	160	8300		18000		23000		27000			
	200	5000		14500		17500		20000	23500		
	250	2300	5000	7000	16000	10000	21000	15300	23000	17000	26000
	315			2000	10500	6000	14000	10200	21000	14000	24000
	400				4500		9000		12100		16000
	500				3000		5500		7200		10000
3	630					3900		6000		8500	
	800					1500		2600		5600	
	1000							1000		2200	
	1250							800		1200	