

Capped circular duct

SRL



Description

Capped circular duct.

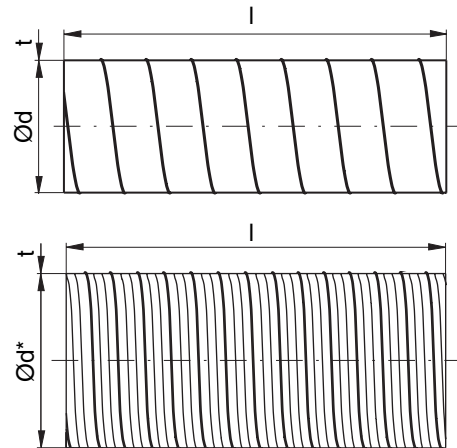
Ducts are always produced locally and can therefore have different thicknesses and other specifications per country.

The ducts can be produced both with and without click function (notches).

Please specify when ordering.

Available in Recycled Steel in selected countries.

Dimensions



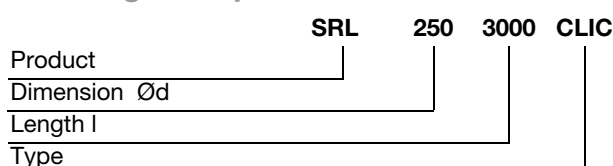
| Ød std nom | O πd m | A $\pi d^2/4$ m ² | t std [mm] | l std [mm] | ml std kg/m |
|--------------------|-------------------|------------------------------------|------------------|------------------|-------------------|
| 63 ¹ | 0,198 | 0,003 | 0,45 | 3000 | 0,85 |
| 80 ¹ | 0,251 | 0,005 | 0,45 | 3000 | 0,91 |
| 100 ¹ | 0,314 | 0,008 | 0,45 | 3000 | 1,14 |
| 125 ¹ | 0,393 | 0,012 | 0,45 | 3000 | 1,41 |
| 160 ¹ | 0,503 | 0,02 | 0,5 | 3000 | 2,02 |
| 200 ¹ | 0,628 | 0,031 | 0,5 | 3000 | 2,56 |
| 250 ^{*1} | 0,785 | 0,049 | 0,5 | 3000 | 3,18 |
| 315 ^{*1} | 0,99 | 0,078 | 0,55 | 3000 | 4,41 |
| 400 ^{*2} | 1,257 | 0,126 | 0,55 | 3000 | 6,01 |
| 500 ^{*2} | 1,571 | 0,196 | 0,7 | 3000 | 9,54 |
| 630 ^{*2} | 1,979 | 0,312 | 0,7 | 3000 | 12,0 |
| 800 ^{*2} | 2,513 | 0,503 | 0,8 | 3000 | 17,4 |
| 1000 ^{*2} | 3,142 | 0,785 | 0,9 | 3000 | 24,1 |
| 1250 ^{*2} | 3,927 | 1,227 | 0,9 | 3000 | 30,2 |

* With outturned stiffening corrugations.

¹ With blue plastic caps.

² With transparent plastic hoods.

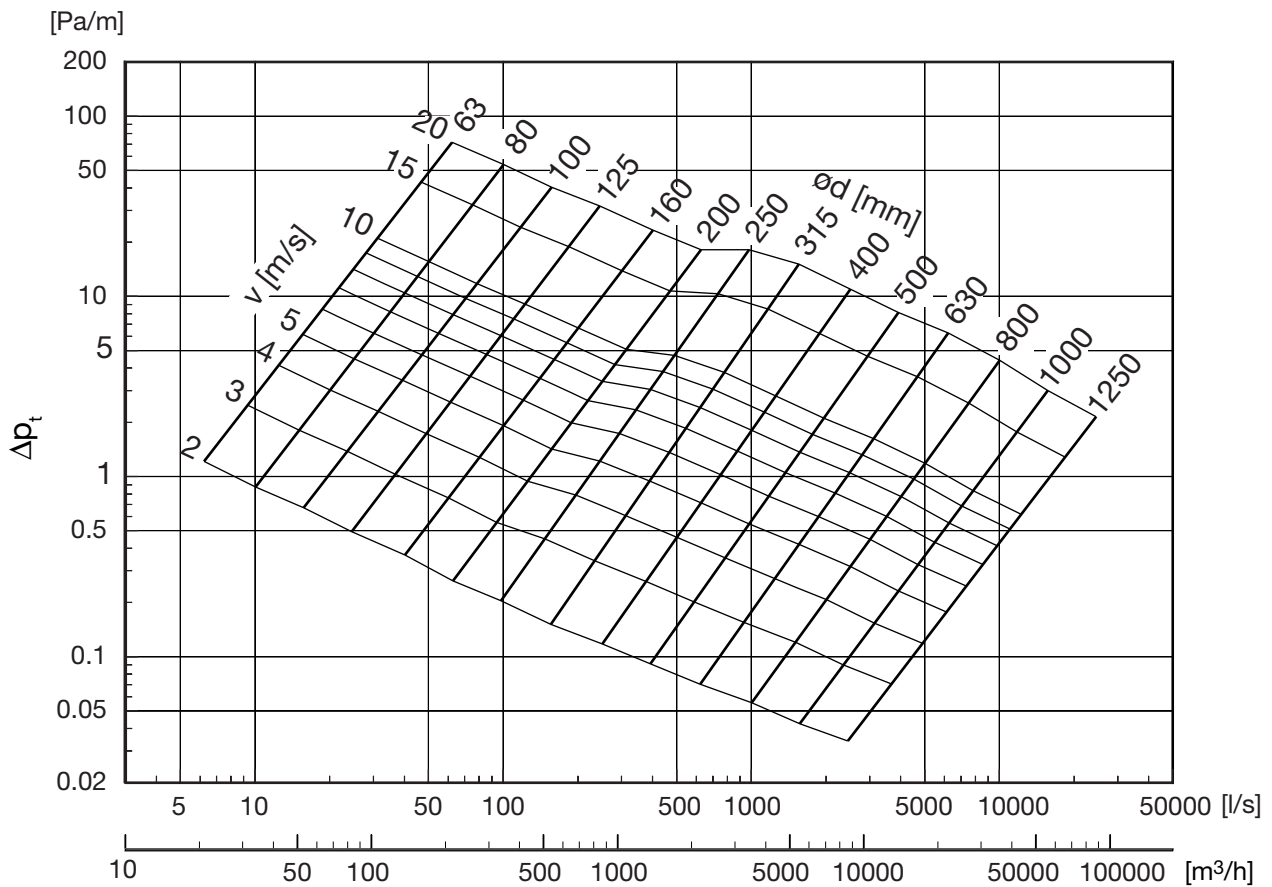
Ordering example



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Technical data



Special versions

We can supply ducts with the following special designs:

- In intermediate dimensions
- Extra tight, with nitrile rubber seal in the fold
- In other sheet metal thicknesses

Extra tight, with fold seal

When extremely good sealing is required in the spiral fold, the ducts can also be supplied with a special rubber seal in the fold.

This seal is very effective at stopping leakage of vegetable oils and greases, and most petroleum products including white spirit.

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Other sheet metal thicknesses

If extra stability is needed in ducts, because of high negative pressure etc., they can be supplied with thicker sheet metal than standard. Remember that the thickness increase always reduces the inner diameter. Fittings for such special ducts must be specified separately and sometimes have to be made specially.

Reinforcement corrugations

Ducts of Ø250 mm and above are normally given stiffening corrugations to increase radial stiffness.



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Strength

Positive pressure

In case of high positive pressure, the rubber gaskets lips will first start to whistle. At considerably higher pressure, the joints between the ducts will be forced apart. The high pressures needed for this to happen are not relevant to ventilation installations.

Negative pressure

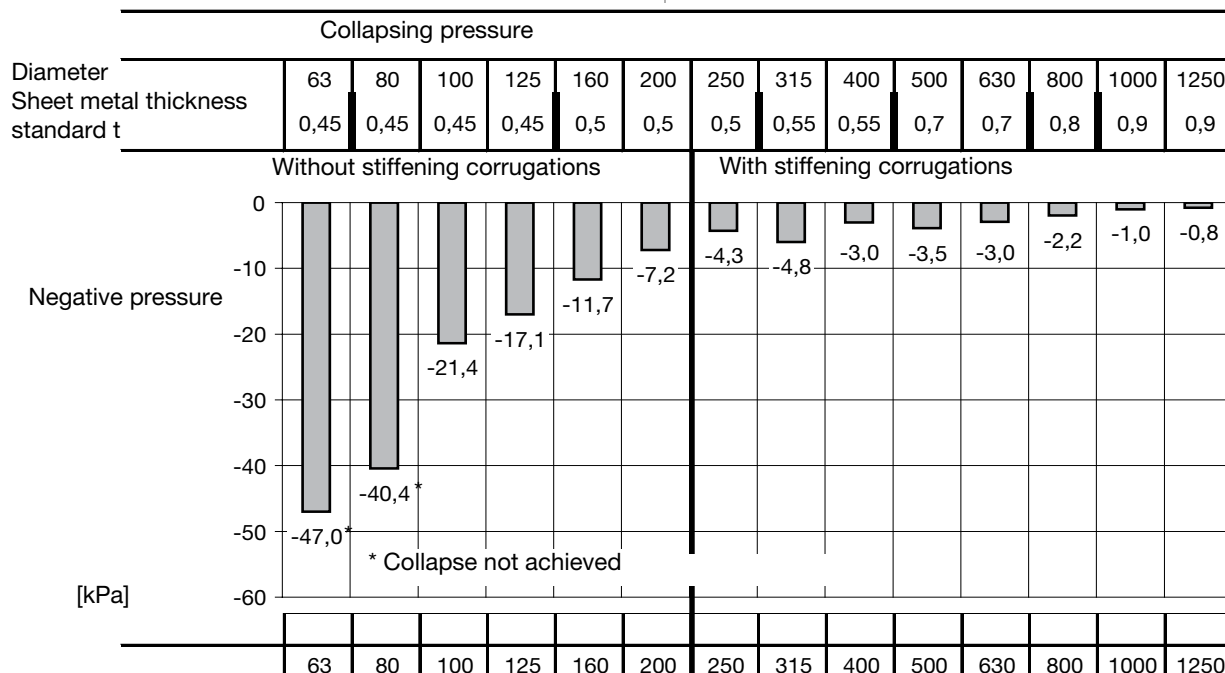
In installations with high negative pressure, there is a risk that the ducts could collapse.

This phenomenon is referred to as buckling, and can suddenly happen at the weakest point in the system. Buckling wanders along the duct, which can be completely flattened. The weakest point is frequently a "transport dent" on a duct. For this reason, only use undamaged ducts in systems which are close to the critical pressure!

Streight and leakage

The performance of the gasket ability for tightness is different from the pressure limits and is shown in the table below.

In exceptional cases, additional strong ducts and fittings are needed. Lindab has developed a system that can withstand down to 5000 Pascal's negative pressure. To minimize costs and to be sure of the performance of the specific system, contact Lindab for precise dimensioning.



| | Min Dim [nom] | Max Dim [nom] | Max Negative pressure [Pa] | Max Positive pressure [Pa] |
|--|---------------|---------------|----------------------------|----------------------------|
| Safe Gasket stability | 63 | 1600 | -5000 | 3000 |
| Duct system Eurovent certified | 63 | 315 | -5000 | 2000 |
| Duct system Eurovent certified | 400 | 1250 | -750 | 2000 |
| Duct system according to EN 12237 | 63 | 1250 | -750 | 2000 |
| Duct system - Strong solution on request | 63 | 1250 | -750 | 2000 |

