# Lindab **Short reducers**

– a clever solution

Lindab®

# Advantages of short reducers

**Lindab presents a new model of reducer that has a clean attractive appearance which differs from the prevailing types. We got the idea from the design of turbine engine. The new shape gives a significantly lower pressure drop which means that the energy required to push the air through the reducer is also less.**

- Shorter construction lengths
- Better value for money
- Shorter delivery times

# Pressure drop short versus long reducers

We have taken measurements of:

- Our short and long reducers
- Our 1 and 2 step reducers
- Flow directions ” large to small ” and ” small to large ”

*RCU*

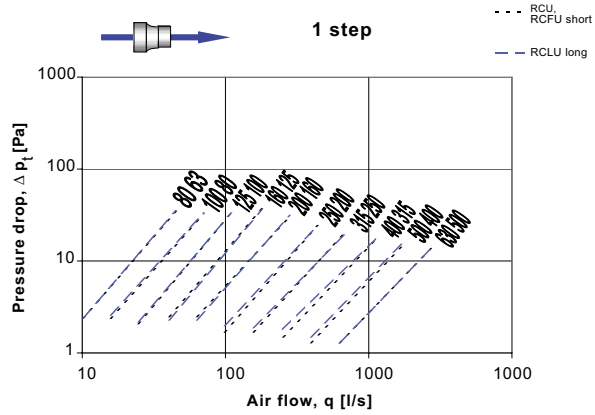
*RCFU*

*RCLU*

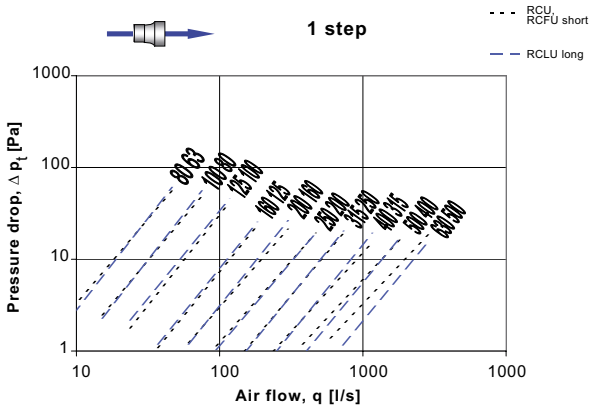
# Result of measurements

## 1 step reducers

Large to small




Small to large

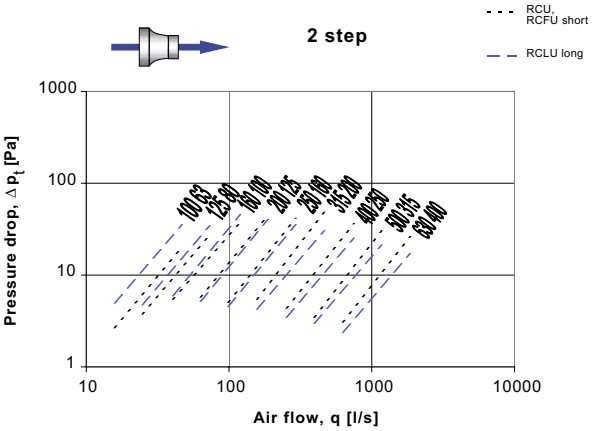



- Summary

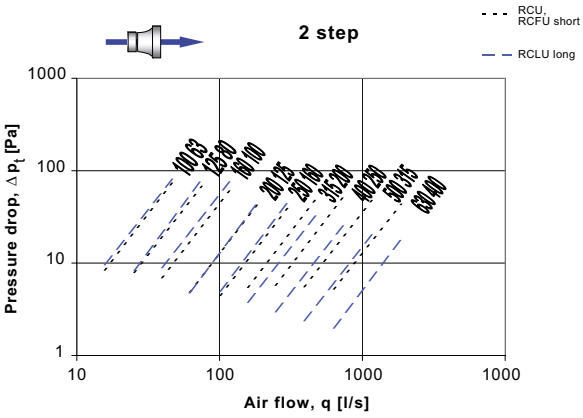
  - Short reducers have lower pressure drops for nearly all dimensions

## 2 step reducers

Large to small




Small to large




- Summary

  - Short reducers have lower pressure drops for smaller dimensions

# Why pay more and wait longer for long reducers?

## Conclusion

- 1 step: short reducers always have lower or equal pressure drops for small dimensions
- 2 step: short reducers have lower pressure drops in small dimensions

The myth that short reducers always have greater pressure drops than long reducers is incorrect
The differences in pressure drop are relatively small and short reducers have other advantages:

- Shorter construction lengths
- Better value for money
- Shorter delivery times

# Good Thinking

**At Lindab**, good thinking is a philosophy that guides us in everything we do. We have made it our mission to create a healthy indoor climate – and to simplify the construction of sustainable buildings. We do that by designing innovative products and solutions that are easy to use, as well as offering efficient availability and logistics. We are also working on ways to reduce our impact on our environment and climate. We do that by developing methods to produce our solutions using a minimum of energy and natural resources, and by reducing negative effects on the environment. We use steel in our products. It's one of few materials that can be recycled an infinite number of times without losing any of its properties. That means less carbon emissions in nature and less energy wasted.

**We simplify construction**



Lindab®