

SPIRO[®] SYSTEM

The Leakproof and Energy Efficient Air Duct System

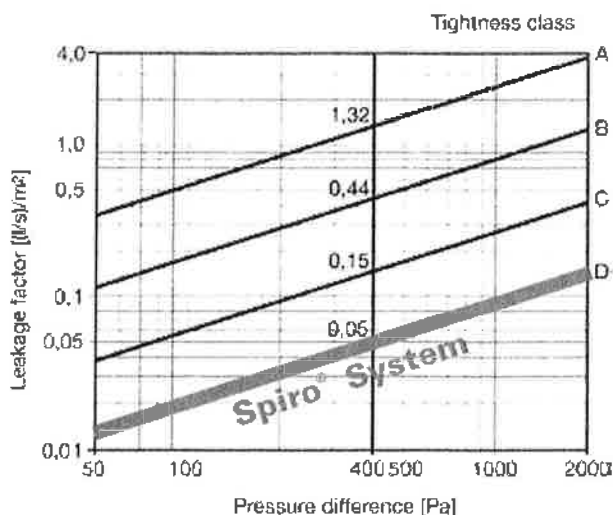
Spiro International S.A. is a leading supplier of fittings and system solutions for the ventilation and air conditioning industry, marketed under the "Spiro[®] system" trademark.

Features of the Spiro[®] System

We offer owners of Spiro[®] Tubeformers a complete range of certified pressed fittings and accessories.

Present day stringent demands for interior climate entail expensive air treatment. Leakage leads to uneconomical operation, adjustment difficulties and over dimensioned equipment. For this reason it is important that ventilation systems are very well sealed, to keep overall cost down.

Spiro[®] system complies with the highest demands of air tightness Class D according EN Norm 12237. Spiro[®] System is certified and tested in laboratory to meet the highest requirements by SWEDAC, (Ref.:700176 A-eng), technical research institute of Sweden on energy technology and climate simulation.



The combination of Spiro[®] Machinery, Spiro[®] service, and Spiro[®] System fittings gives the opportunity to our clients to comply with the highest demands on energy efficiency in buildings and the possibility to support the improvement of indoor air quality.

Air Tightness

A duct system will never be "completely tight". The system will normally have some leaks at joints between ducts and fittings. The leakage will also increase as the pressure difference between the inside and outside of the duct increases.

The leakage factor in (l/s)/m² is always specified in relation to the pressure difference in Pa (The unit (l/s)/m² denotes the leakage flow in l/s or out of the system in relation to its duct area in m²). The graph below shows the leakage factor for the sealing classes A-D as a function of the pressure difference.

The graph shows that sealing class D is 3 times better than class C, which in turn is 3 times better than class B and so forth. Class D thus entails demands on not only the seal moulding but also the fittings and how well the system is installed.

This means that the Spiro[®] System is 27 times tighter than a Class A system.