

### **Problem: Humidity in compressed air**

Humidity in compressed air leads to problems in many industries and processes. So it also can have an impact on **discharging processes**.

- Even a small cooling-down of the air through walls and pipelines leads to condensate which can enhance the danger of corrosion.
- The use of humidified air can occur ice formation in winter time. Iceblocks valves and pipeline sand can damage the function of the compressed air installation.
- A too high humidity content in the air affects the quality of sensitive media such as foodstuffs, varnish, etc.

### **Solution: Adsorber**

#### **Functionality**

- The adsorber is filled with Silicagel granulate.
- When the compressed air passes through the dryer the silicagel granulate adsorbs the humidity. The air is dried.
- The granulate is impregnated by an indicator. This indicator enables an easy control of the drying process, as the colour changes from orange to colourless after adsorbing.
- The regeneration of the granulate can be reached by heating.
- Then the adsorbed water will condensate and will be passed to the environmental air and the colour changes back to orange.