



Reference project/application



Extraction solution for elastomer coatings



Situation/challenge

- Sealing wedges for soft-sealing gate valves are automatically coated with elastomer
- A special dipping tank for coating is operated with 40 °C warm supply air
- Any resulting elastomer vapors must be extracted, filtered and discharged to the outside



Solution

- In the dipping tank, a permanent negative pressure is created via circulating air flow
- Through a ventilation system, the interior of the dipping tank is permanently supplied with previously filtered outside air
- In the bottom area of the diving system, the vapors are extracted and 100% exhausted to the outside via a pocket filter module in Ex design
- Installation of a separate air capture system - independent of the ventilation system



User benefits

- The thermal energy from the exhaust air is used to preheat the supply air
- The spread of solvent-containing air into the workshop is no longer possible
- Achieving a positive pollutant balance, i.e. good air conditions
- Filtered exhaust air is cleaner than outside air that is sucked in for ventilation

