INNOVATION AND R&D
OUR FUTURE

We are your partner for special requirements, at your side developing together.

At voestalpine Precision Strip AB we always accept a challenge. Our innovation initiatives are moving our business into new product areas and markets. Redefining the limits of what is possible.

The R&D department in Munkfors ensures continuous enhancements in the product and process area. We are your preferred partner for your special requirements, at your side supporting your product development. Our strength lies in the combination of the latest technologies and our experienced workforce.

As part of the voestalpine Group, we control all essential quality parameters, starting from the specific selection of steel grades which perfectly suit your applications. Whenever new demands for new applications require it, we can develop project-specific alloys together with our customers.

With the latest technologies and equipment we can offer product-specific:

- Impact fatigue testing
- Fracture studies
- Wear profiles and angles
- Full material analysis
- XRD and SEM studies

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The flapper valve is the heart of the compressor. During its lifetime, it has to open and close billions of times without failure and without maintenance, which places challenging demands on material properties.

Customers are mainly the stampers but also the compressor manufacturers. Hortensteiner hardened and tempered steels exhibit the ultimate material characteristics when superior fatigue performance is required.

The flapper valve is subject to bending as well as impact stresses making the fatigue strength of the hardened steel of highest importance. The properties and the precision manufacturing of the flapper valve steel create the reliability and performance of the flapper valve.

The valve design and manufacture are critical. To satisfy all our clients’ requirements our flapper valve steel program comprises martensitic steels in both high and low carbon grades, all meeting the stringent demands of the flapper valve.

The surface finish and the metallurgical cleanness secure the required performance. A reliable operation and a long lasting service life of the compressor are the results, with consistent quality.

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The process strip and its heat treatment provide the prerequisite for an excellent fatigue performance of the valve.

The reliability and the performance is proven by decades of usage in the market.

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