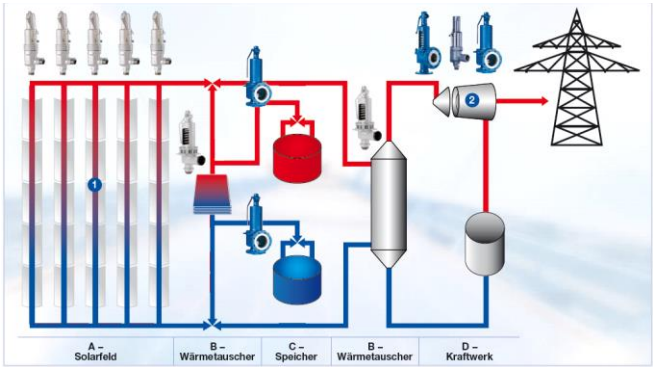
Compact Performance.
Design for heat transfer fluid applications.

Applications.

Protection in Concentrated Solar Power Plants (CSP):

- Thermal expansion in heat absorber tube
- Medium: thermal oil as heat transfer fluid (HTF)
- Temperature: up to 400° C / 752° F
- Set pressure: 25 – 40 barg / 363 – 580 psig
- Backpressure: up to 83% (20 – 25 barg / 290 – 363 psig)
- No external leakage of the creeping medium allowed



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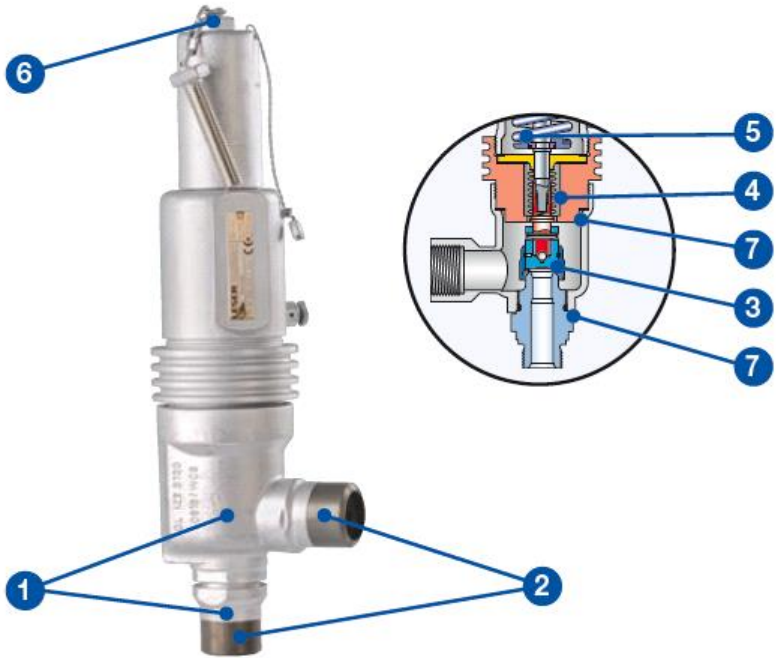
Design.

This configuration is specifically developed and proven for the extreme conditions of the application in CSPs.

1. Body materials made for high temperatures
2. Inlet and outlet as welding connection
3. Durable, wear-resistant sealing surfaces
4. High-quality, temperature-resistant bellows material



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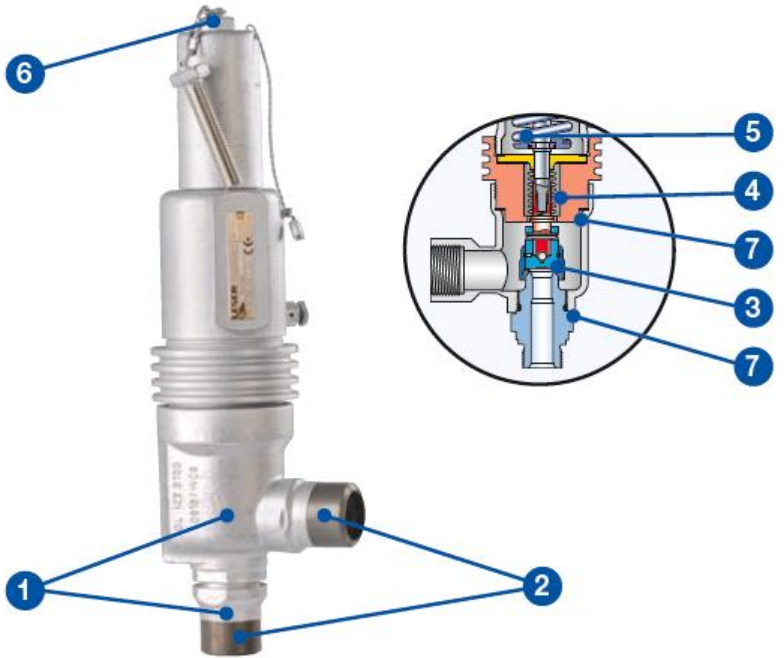
Design.

5. High-temperature spring material
6. Test gag
7. High pressure sealing and sealing weld

- Valve size 1“
- Actual orifice diameter d_0 = 13 mm



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Benefits.

- Operationally proven protection in concentrated solar power plants (CSP)
- Specifically developed configuration for extreme, combined conditions
- Installation in isolated piping with high operating temperature possible
- Compact dimensions
- External tightness ensures high level on safety in view to probable pollution by and inflammability of the medium
- Improved functional tightness and durable, wear-resistant sealing surfaces increase the plant efficiency (loss of medium, maintenance intervals)

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Benefits.

- Hydrostatic pressure test of the installation possible
- Quick delivery times and simple ordering due to standardization

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Compact Performance

Thank you for your attention