

Pipe Design: SRV Sizing

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P-Engineering help our clients ensure correct Safety protection of Pressurized Systems. We use CONVAL software from FIRST to assist and control sizing of SVR – Safety Relief Valves:

- Valve Data from Database from all major Manufacturer – ARI, LESER, SPIRAX SARCO etc.
- Control Relief Capacity at actual Process Conditions
- Control of Possible Vacuum Condition in Piping Upstream SRV during operation
- Confirmation of Lift Limitation to avoid unstable Operation
- Control Calculation of Backpressure downstream SRV – must be within 10% of lifting pressure

Above control Calculation of the Pressure Safety Relief Valve ensures correct safety Function and Protection of the Pressure System.

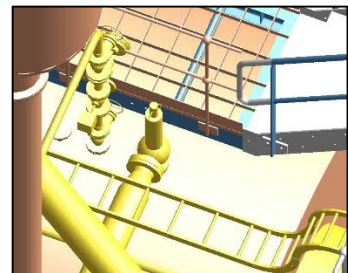
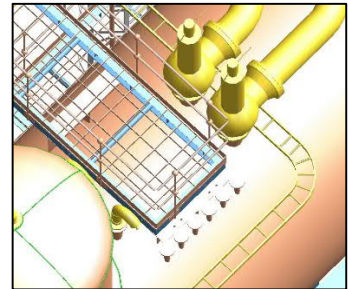
Sound Silencer

For Optimum Silencer design – both Backpressure and Sound-wise please see:

https://p-engineering.dk/onewebmedia/P-314_SRV_SilencerDesign_Rev01_CP_2021-07-16.pdf

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Safety relief valve		ISO 4126-1:2004
Calculation standard		LESER
Valve manufacturer		481942 DN 20-200
Series		9794 GSG-48.3
Material		Al: 12272, DN 150 x DN 200, Typ...
Valve selection		
23 Valve from database	Key (3)	0.7
Rated coefficient of discharge (gas/vapour)	02 04	13.275.0
24 Narrowest flow cross-section	02 08	125.0
25 Narrowest flow diameter		
26 Size and pressure class		
Unit	DN 150	150.0
Outlet	DN 200	200.0

Pictures from Steam Boiler Project with Pressure Safety Relief Valves from Boilers and Vessels as well as small snip of Calculation Report.