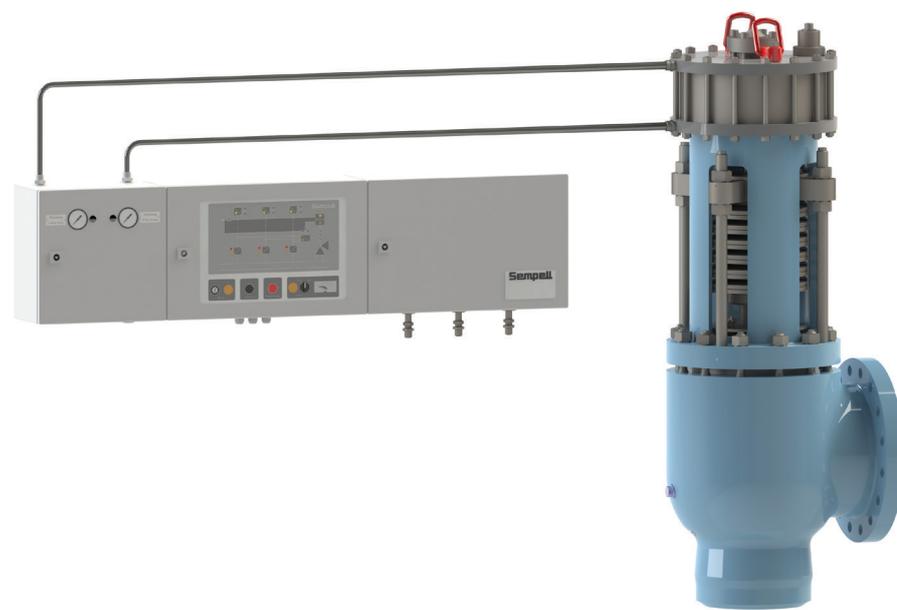




SEMPPELL HIGH PRESSURE STEAM SAFETY VALVE, DISC SPRING MODEL SOT

High pressure safety valve for boiler protection in disc spring design with welding end or flanged connections



FEATURES

- High tightness up to set pressure due to supplementary load
- Smooth operation (no forces by popping)
- Disc spring allows higher forces compared to helical spring. This results in high set pressures even for high capacities.
- Mechanical lift stop ensures functional stability
- Locking for hydrostatic test without additional parts
- High allowable back pressure

GENERAL APPLICATION

The SOT is designed for boiler protection for the use on drum, superheater and reheater.

The use of SOT allows to minimize the number of valves in cases, where helical spring safety valves would require multiple valve installations. This results in less installation efforts and less maintenance costs.

The SOT is applicable as controlled safety pressure relief system acc. EN ISO 4126-5 in operation with control unit STE4 or STE5.

In reheater applications the SOT can be used as relief valve during sliding pressure operation of the boiler.

TECHNICAL DATA

Size inlet:	DN 100 – DN 600 NPS 4" – 24"
Temperature range:	Up to +700 °C / +1300 °F
Set pressure:	10 bar – 450 bar
Orifice diameter:	66 mm – 438 mm
Design:	Open bonnet Balanced piston Disc spring type pneumatically assisted
Body material:	1.0460/SA105 1.0619/SA216 WCB 1.7335/SA182 F12 1.7357/SA217 WC6 1.7380/SA18 F22 1.7379/SA217 WC9 1.4903/SA182 F91 1.4901/SA182 F92
Accessories:	Position indicator

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