



EAC TS CE 0036

1 General Notes of Safety

- Only use the valve:
 - for the intended purpose
 - in satisfactory condition
 - with respect for safety and potential hazards.
- Always observe the installation instructions.
- Faults that may impair safety must be addressed immediately.
- The safety valve is exclusively designed for the range of application described in these installation instructions. Any other use, or a use exceeding the range of application shall be considered as improper use.
- The manufacturer's warranty shall be null and void if the sealed cover is removed.
- All assembly work is to be carried out by authorized specialist staff.

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2 General Notes

Safety valves are high-quality fittings which require a particularly careful handling. The sealing surfaces are precision-machined at the seat and cone to attain the required tightness. Always avoid the penetration of foreign particles into the valve during assembly and during the operation. The tightness of a safety valve can be impaired when using hemp, Teflon tape, as well as through welding beads, among other things. Also rough handling of the finished valve during storage, transport and assembly can result in a safety valve leaking. If the safety valves are painted, make sure that the sliding parts do not come into contact with the paint.

3 Range of Application

Safety valve series **810/410, 812/412, 690/691 and 492 for discharging air and other neutral, non-poisonous and non-flammable gases** freely into the environment. Series **492 GOX** is specifically available for gaseous oxygen. Valves used for protection against excess pressure in pressure tanks which are in compliance with the specifications of the AD-2000 data sheet A2, or as safety devices to protect pressure equipment in compliance with the EC Pressure Equipment Directive.

Safety valve **type 813/413 for stationary tanks for granular or powdery media or transport tanks for liquid, granular or powdery media** according to AD 2000 data sheet HP 801 No. 23 which are discharged using compressed air. For protection against excess pressure in pressure tanks which comply with the specifications of AD- 2000 data sheet A2, or as equipment component with safety function for pressure equipment in compliance with the EC pressure equipment directive. For details on the range of application of the individual versions please refer to the datasheets of the manufacturer.

4 Installation and Assembly

Spring-loaded safety valves are to be installed with the spring bonnet pointing vertically upward. The safety function of the valves is also guaranteed and tested in a horizontal position. To ensure a satisfactory operation of the safety valves they must be installed in such a way that the safety valve is not exposed to any impermissible static, dynamic or thermal loads. During installation the max. torque value must not be exceeded (see chart). Appropriate protection devices (for example by fitting a blow-off/protective cover) must be applied if the medium that discharges upon actuation of the valve can lead to direct or indirect hazards to people or the environment. Always pay attention to possible fumes discharging from the relief bores in the spring bonnet.

As regards the safety valve 492 GOX for oxygen applications, care is to be taken that the fitting that was manufactured free of oil and grease is not contaminated. Ideally, the packaging should not be opened until immediately before installation.

Valve size	Max. torque value
DN 8	30 Nm
DN 10	40 Nm
DN 15	50 Nm
DN 20	60 Nm
DN 25	60 Nm
DN 32	80 Nm
DN 40	80 Nm
DN 50	90 Nm

Supply

Supply connection pieces for safety valves are to be kept as short as possible and are to be designed in such a way that there can be no pressure loss greater than max. 3 % of the response pressure.

5 Operating mode / Maintenance

The operating pressure of the plant is to be at least 5 % lower than the closing pressure of the safety valve. In this way, the valve can satisfactorily close again after blowing off.

ATTENTION:

When blowing off the safety valves, please note that gases can exhaust in high velocity and with high temperature and excessive noise.

In the event of minor leaks, which may be caused by contamination between the sealing surfaces, the valve can be made to blow off through lifting, for cleaning purposes.

If this does not remove the leak the sealing surface is probably damaged and this can only be repaired at our factory or by authorized specialists.

Safety valves with lifting device (version sGK)

In the case of safety valves with a lifting device it is recommended, and in certain plant-specific cases even stipulated that the valves from time to time must be made to blow-off by lifting the seal off the seat, in order to assure the correct functioning of the safety valve. They can be made to open by hand at the latest when the working pressure is > 85% of the response pressure.

Lifting is carried out by turning the twist-type lifting mechanism above the bonnet in a counterclockwise direction. Turn the twist-type lifting mechanism back to the stop again afterwards.

Safety valves without lifting device (version sGO; tGO)

In case of safety valves without lifting device -for technical reasons- the function needs to be tested by the plant manufacturer.

Safety valves are the ultimate safety device for the tank or system. They must be able to prevent impermissible overpressure even when all other upstream control and monitoring equipment fail. To ensure these functional characteristics safety valves require regular and recurring maintenance. The maintenance intervals are determined by the operator independence of the operating conditions.

6 Dismantling the fitting

In addition to the general installation instructions it must be ensured that the system is made pressure free prior to disassembly of the safety valve.

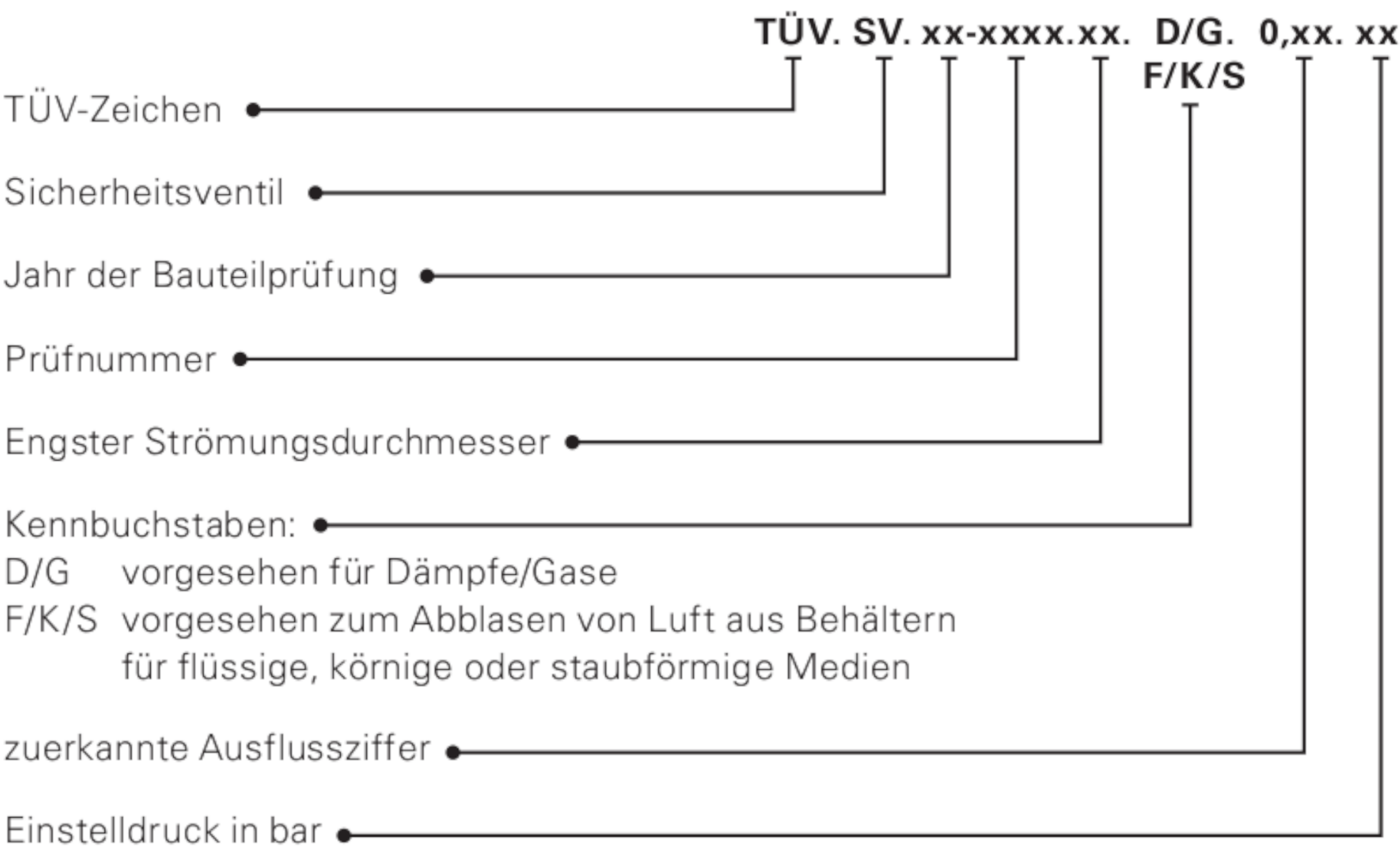
7 Repairs

Repair work on safety valves is only to be carried out by Goetze KG Armaturen or by officially approved specialist workshops authorized by Goetze KG Armaturen using original spare parts only.

8 Gewährleistung

Jedes Ventil wird vor Verlassen des Werkes geprüft. Für unsere Produkte leisten wir in der Weise Garantie, dass wir die Teile gegen Rückgabe kostenlos instand setzen, die nachweislich infolge Werkstoff- oder Fabrikationsfehlern vorzeitig unbrauchbar werden sollten. Leistung von Schadenersatz und dergleichen andere Verpflichtungen übernehmen wir nicht. Bei Beschädigung der Werksplombierung, unsachgemäßer Behandlung bzw. Installation, Nichtbeachtung dieser Montage- und Wartungsanleitung, Verschmutzung oder normalem Verschleiß erlischt die Werksgarantie.

9 Kennzeichnung / Prüfung



Sicherheitsventile werden von uns auf Druckfestigkeit und Dichtheit geprüft, auf den gewünschte Einstelldruck einjustiert und plombiert.

Die Kennzeichnung erfolgt unauslöschlich auf dem Typenschild, bzw. auf der Federhaube des Ventils.