CLAIMS

1. A device for controlling the temperature of an item (1, 1') to be temperature controlled, comprising a temperature control body (2, 2') which in a working position by resting it against a contacting portion (11) facing the item (1, 1') to be temperature controlled is at least in regions form-fittingly arrangeable against a circumferential wall (13, 13') of the item (1, 1') to be temperature controlled and comprising temperature control means such that the item (1, 1') to be temperature controlled is temperature controllable to a predetermined temperature in the working position of the temperature control body (2, 2'), **characterized in that** the temperature control body is designed to be an inflatable body (2, 2') having a volume which is changeable such that the inflatable body (2, 2'), in the working position, rests against the circumferential wall (13, 13') of the item (1, 1') to be temperature controlled when the inflatable body (2, 2') is in an inflated state with an increased volumetric expansion, a second portion of the inflatable body (2, 2') which is connected to the contacting portion (11) is designed to be a carrier portion (12, 12'), the form of which is independent of the pressure applied to the inflatable body (2, 2') and/or is designed to be solid, and the contacting portion (11), in a non-working state, is adjacent on an inside (16) of the carrier portion (12, 12'), and the carrier portion (12, 12') is material-fittingly connected to the contacting portion (11) at its edges (17, 17', 18, 18'), and the surface of the contacting portion (11) of the inflatable body (2, 2') is larger in the working position than in a non-working position of the inflatable body (2, 2') in which the inflatable body (2, 2') is not inflated due to non-pressurization of a fluid (8).

2. The device according to Claim 1, **characterized in that** the inflatable body (2, 2') is coupled with an inflation generator (3), wherein, by means of the inflation generator (3), the fluid (8) is able to be let into the inflatable body (2, 2') with such pressure that the inflatable body (2, 2') rests against the

circumferential wall (13, 13') of the item (1, 1') to be temperature controlled with a surface-increased contacting portion (11).

3. The device according to any one of Claims 1 to 2, **characterized in that** the contacting portion (11) of the inflatable body (2, 2') consists of a highly flexible and/or stretchable material, in particular a film.

4. The device according to any one of Claims 1 to 3, **characterized in that** the fluid is designed to be a temperature control fluid (8) which has a predetermined temperature.

5. The device according to any one of Claims 1 to 4, **characterized in that** the temperature control means are designed to be a heating system and/or a cooling system.

6. The device according to Claim 5, **characterized in that** the heating system and/or cooling system is arranged outside of the inflatable body (2, 2').

7. The device according to any one of Claims 1 to 6, **characterized in that** the carrier portion (12, 12') of the inflatable body (2, 2') has an inlet opening (6, 6') and an outlet opening (7, 7') for the fluid (8).

8. The device according to any one of Claims 1 to 7, **characterized in that** the carrier portion (12) is designed to be a hollow cylinder and/or curved, wherein, in the working position, the contacting portion (11) surrounds the item (1) to be temperature controlled at least in a reflex circumferential angle region (α).

9. The device according to any one of Claims 1 to 7, **characterized in that** the carrier portion (12') is designed to be flat and in that two inflatable bodies (2') with contacting portions (11) arranged turned toward each other are provided, between which the item (1, 1') to be temperature controlled is arranged,

wherein, in the working position, the contacting portions (11) of the two oppositely arranged inflatable bodies (2') each surround the item (1, 1') to be temperature controlled at least in an obtuse circumferential angle region.

10. A method for controlling the temperature of an item (1, 1') to be temperature controlled, wherein a temperature control body (2, 2') is in a working position rested with a contacting portion (11) for thermal contact against a circumferential wall (13, 13') of the item (1, 1') to be temperature controlled , **characterized in that** the temperature control body (2, 2') is filled with a pressurized fluid (8) in a first state such that the temperature control body (2, 2') rests against the item (1, 1') to be temperature controlled with the contacting portion (11) and in that the temperature control body (2, 2') is brought, by non-pressurization of the fluid (8), into a non-working state in which the contacting portion (11) of the inflatable body (2, 2') is arranged to be spaced apart from the circumferential wall (13, 13') of the item (1, 1') to be temperature controlled, a second portion of the inflatable body (2, 2') which is connected to the contacting portion (11) is designed to be a carrier portion (12, 12'), the form of which is independent of the pressure applied to the inflatable body (2, 2') and/or is designed to be solid, and the contacting portion (11), in a non-working state, is adjacent on an inside (16) of the carrier portion (12, 12'), and the carrier portion (12, 12') is material-fittingly connected to the contacting portion (11) at its edges (17, 17', 18, 18'), and the surface of the contacting portion (11) of the inflatable body (2, 2') is larger in the working position than in a non-working position of the inflatable body (2, 2') in which the inflatable body (2, 2') is not inflated due to non-pressurization of the fluid (8).

11. The method according to Claim 10, **characterized in that** the fluid (8) is pressurized with a constant pressure.

12. The method according to Claim 10 or 11, **characterized in that** the fluid (8) is guided through the inflatable body (2, 2') with a constant volumetric flow.