

1.0 Return temperature limiter with external adjusting device

The adjusting device allows the return temperature of the medium flow to be altered externally without interrupting operation.

- The regulator is set in the factory to 180°C or according to the customer's specification.
- The closing temperature can be set between 0°C and 270°C.
- One turn corresponds to a temperature change of approx. 20 K.
- The temperature is increased by turning clockwise (+) up to the stop.
- Turning anticlockwise (-) reduces the temperature up to the closing position of the regulator.
- The factory setting can be restored by turning the adjusting screw three turns back from the (+) stop in the (-) direction.



ATTENTION !

Mechanical damage may be caused to the regulator if the adjusting screw is turned beyond the stops!

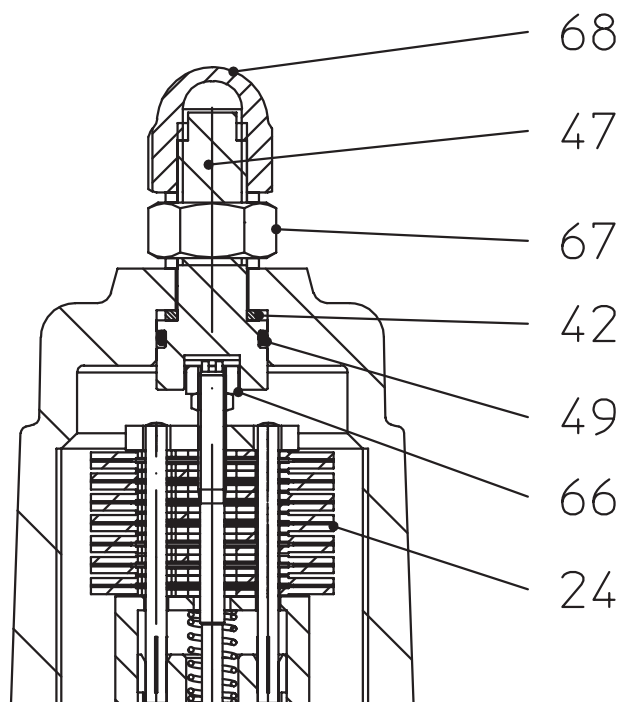


Fig. 1

1.1 Adjustment procedure



ATTENTION !

The medium inside the valve can leak out during the adjustment and cause damage or injury to persons, plant or the environment! There is a risk of burns or toxification.

Ensure compliance with all relevant regulations relating to safety, occupational health and fire prevention. Personal protective equipment must be worn at all times. All work must be carried out by suitably trained persons.

- Unscrew the acorn nut (pos. 68) while steadying it with the hexagon nut (pos. 67).
- Loosen the hexagon nut (pos. 67) a maximum of one turn while steadying it with the screw (pos. 47, a/f 7).
- Turn the screw (pos. 47) with a ring spanner (a/f 7) without applying axial pressure. The screw is sealed by the Viton O-ring (pos. 49).
- The screw can be adjusted a maximum of twelve turns when cold.
- It is only allowed to be adjusted with a low torque of no more than 5 Nm to avoid damaging the regulator in the end positions.
- After adjusting the valve, tighten the hexagon nut (pos. 67) again while steadying it with the screw (pos. 47). The system is permanently sealed from the outside by the Cu sealing ring (pos. 42).
- Finally, screw on the acorn nut (pos. 68) loosely while steadying it with the hexagon nut (pos. 67).

If a leak develops to the outside, the seal (pos. 42) must be replaced. The valve must be removed from service for this purpose and not dismantled until it is cold, empty and pressureless. The setting is lost when the screw cap is dismantled and must be re-made after assembly. It is therefore a good idea to determine the current setting prior to dismantling the valve by counting the number of turns up to the stop (+). This means opening the regulator fully and readjusting it to the former position after assembling the valve. The regulator must not be turned right up to the stop (+) during the assembly procedure. It should be adjusted approx. five turns in the (-) direction to prevent the screw from being turned past the (+) stop when the screw cap is re-fitted, thereby damaging the regulator.



Excerpt from the hazard checklist in EN 1050

- Hazard due to liquids and gases under pressure
- Hazard due to high-pressure fluid injection or ejection
- Thermal hazards resulting in:
Burns, chilblains and other injuries caused by contact of persons with objects or materials with an extremely high or low temperature, by flames or explosions and also by radiation of heat sources
- Damage to health due to hot or cold working environments
- Hazards due to contact with or inhalation of harmful fluids, gases, mists, fumes and dusts
- Hazard due to fire or explosion