

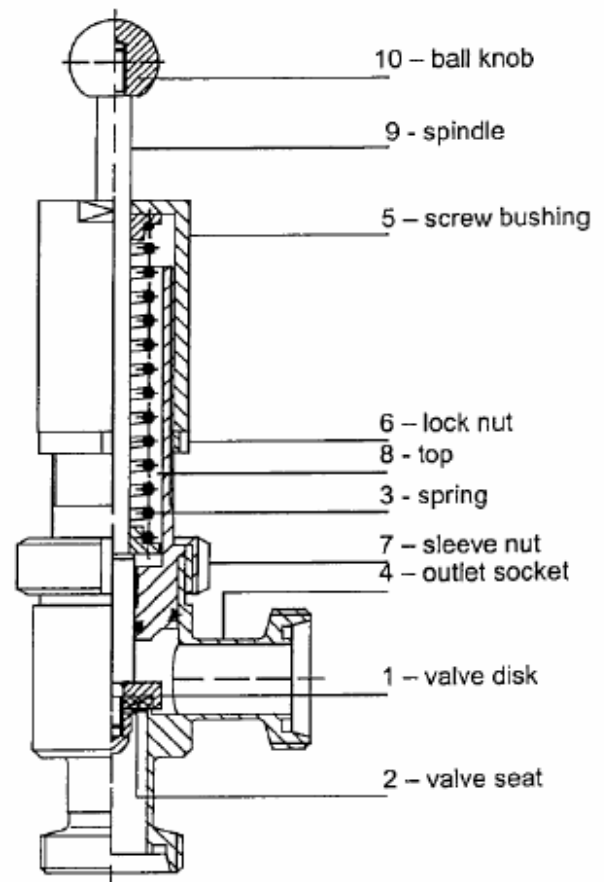
Operating instructions

Relief Angle-Body Valve, spring loaded, adjustable

Operating mode and description

The relief angle-body valve, spring loaded is meant for securing components of plants such as pipe systems, pumps etc. being used in the beverage, food and pharmaceutical industries against overpressure. The valve consists of the connection socket, lateral outlet-socket, complete top, valve seat, valve disc with spindle and spring. The principle of function results from the interaction between the spring force required and a counterpressure resp. overpressure existing in a plant. The valve disc (1) being pressed by the spring force (3). Consequently, the liquid is prevented from escaping through the outlet-socket (4).

By turning the screw bushing (5) the valve is positioned to the required pressure and is secured by the lock nut (6). In case of exceeding the positioned pressure the valve disc (1) is lifting up and the medium escapes outwards through the socket (4) or through the bypass back into the plant. The valve closes if the pressure drops under the set-point adjustment (up to max. 20%). In case of constant pressure adjustment the valve can additionally be equipped with a lifting cylinder, e.g., for pressure relief within the cleaning circulation.



Maintenance

All works on the relief angle-body valve have to be done only under pressureless condition.

The valve should regularly be checked and cleaned in the following way:

First, the sleeve nut (7) is unfastened and the top (8) is removed. The lock nut (6) is unfastened, the ball knob (10) removed and the screw bushing (5) screwed off. The spring (3) with the guide bushings is removed and the spindle (9) is taken off upwards.

Now, all components can be cleaned and defective sealings be replaced, if needed. The mounting of the valve is done in reverse order.

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