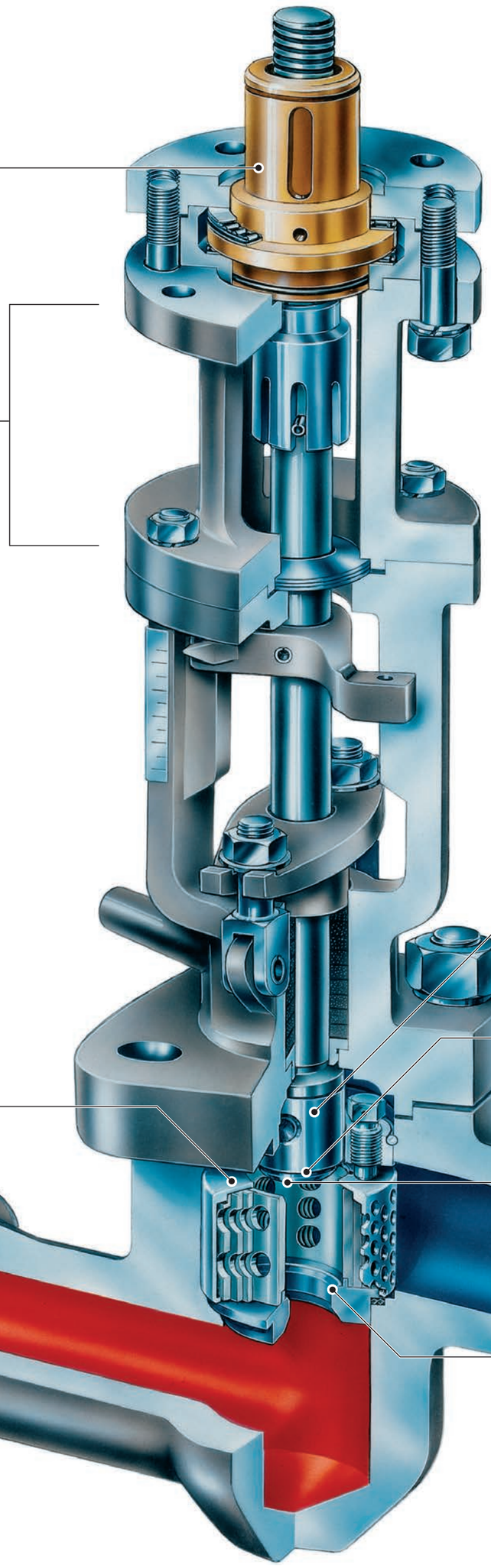
GESTRA Control Valve with ZK Radial Stage Nozzle®

Type ZK 29, DN 25–150 (1–6"), PN 160, Class 900, Δp_{max} 100 bar

FLOWSERVE GESTRA



Actuator
Prepared for electrical rotary actuation. Pneumatic, hydraulic or handwheel actuation also possible

Lift restriction
Adjustable lift restriction available as an option for special applications

ZK radial stage nozzle®
Easily exchanged without removing the body from the line. Adjustable resistance coefficients and valve characteristics

Connections
Flanges, socket-weld or butt-weld ends. Body in angle or straight-through pattern

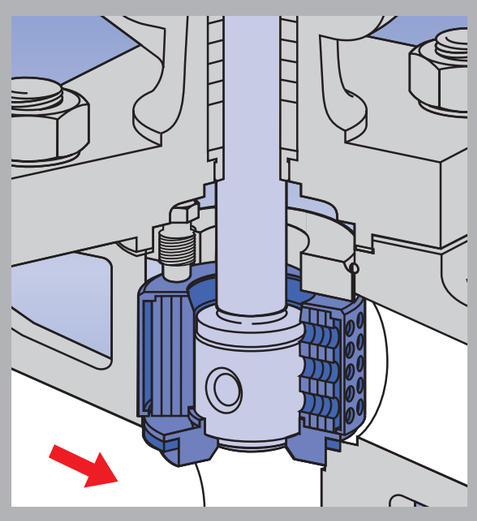
Valve plug
With seating surface ground in

Control edge
Prevents wire drawing at the sealing surfaces

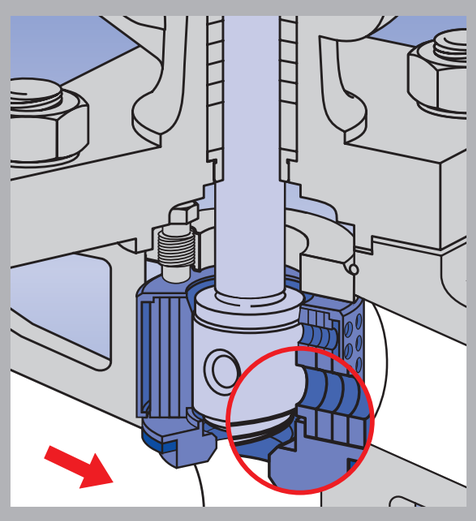
Sealing surface
Excellent sealing characteristics:
- Leakage rate A according to EN 12266-1
- ANSI Class VI

Seat
Easily exchanged

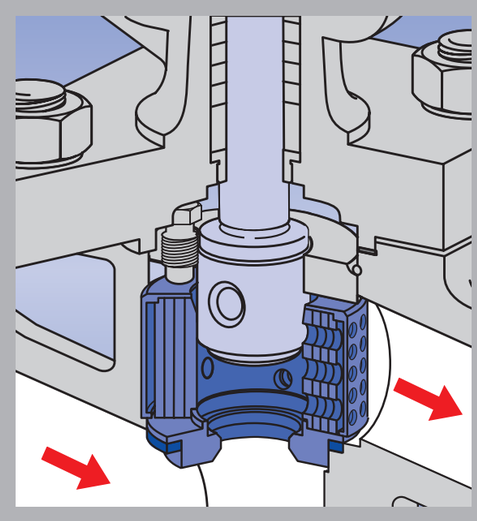
Functional principle of the control edge



The control edge permits the function of a conventional isolating valve and a control valve to be combined in one unit, and achieves very low leakage rates. Here the valve plug is shown in the closed position.



At the beginning of the opening process, the valve plug lifts off the seat but the control edge does not set any orifices free yet. At the moment of opening or closing, the flow velocity at the valve seat is zero, so that wire drawing is excluded.



The valve is now in the control position. Irrespective of the position of the valve plug, the pressure is always reduced in several stages, even for the lower control range.

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