

GESTRA Control Valve with ZK Radial Stage Nozzle®

Type ZK 313, 600 bar, 570 °C, Δp_{max} 300 bar

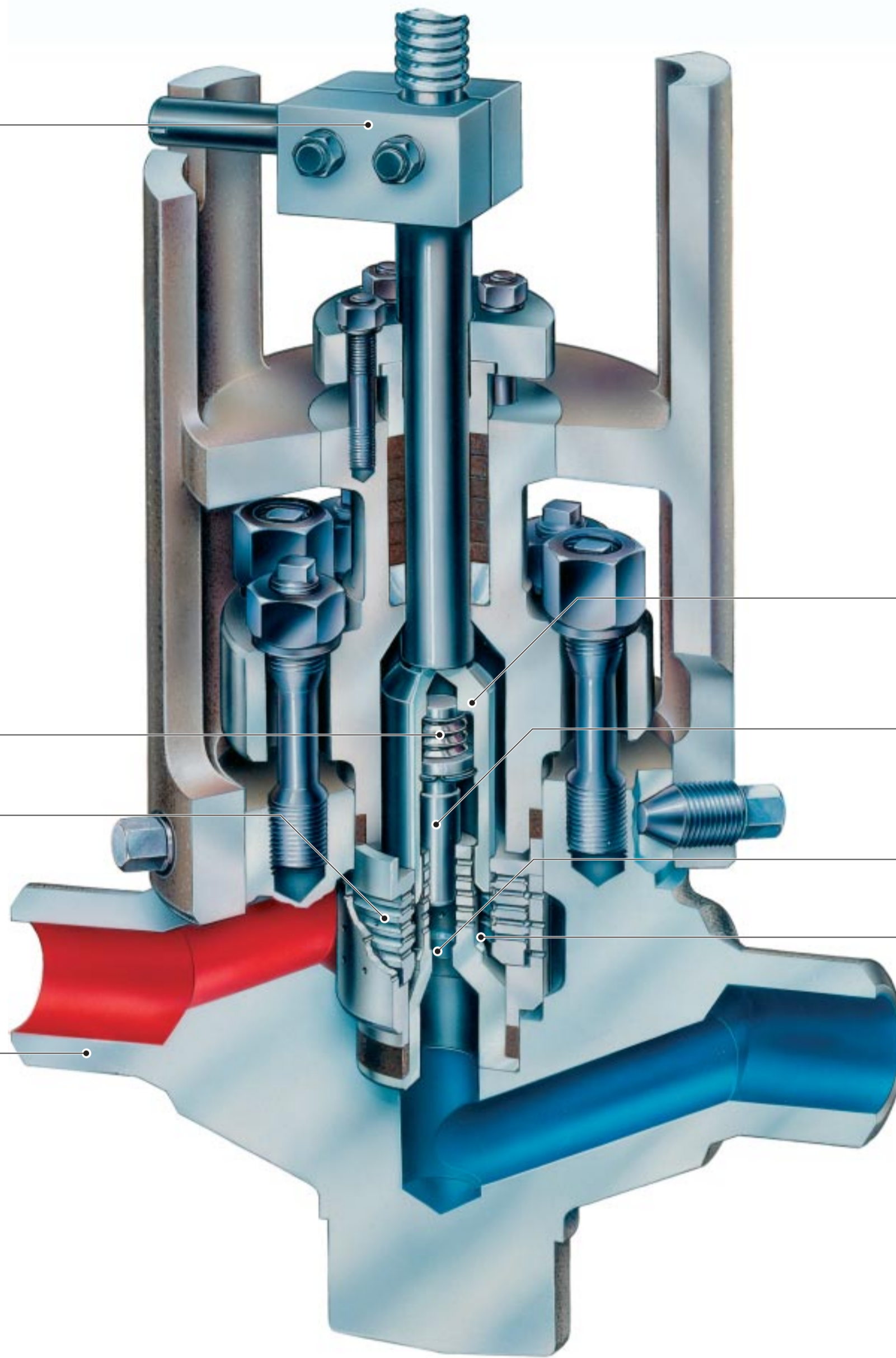


Actuator ▶
Electric, pneumatic, hydraulic,
lever or handwheel.

Disc springs ▶

ZK radial stage nozzle® ▶
Easily exchanged without
removing the body
from the line.

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



▶ **Main valve plug**
with main seat and secondary
seat ground in.

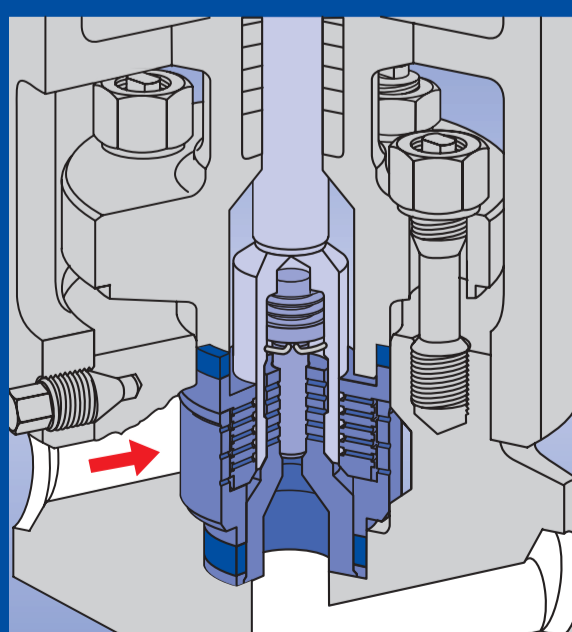
▶ **Secondary valve plug**
protects the main valve plug
and main seat from wear.

▶ **Secondary seat**

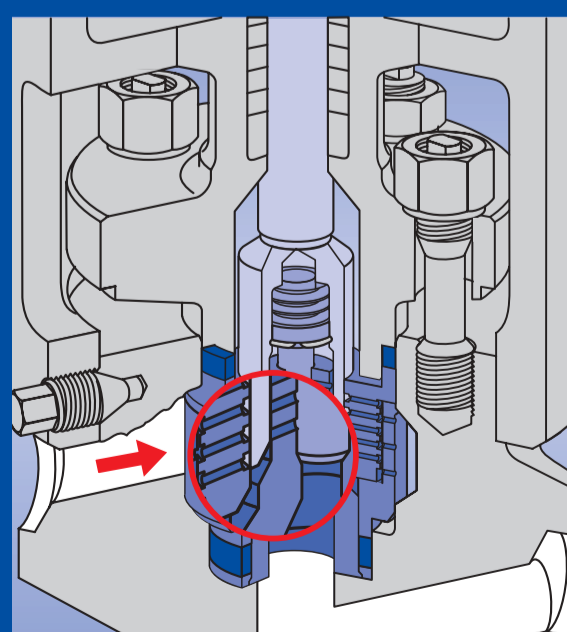
▶ **Main seat**
Excellent sealing characteristics:
- Leakage rate BO1 according
to DIN 3230
- ANSI Class V.

With Energy
into the Future

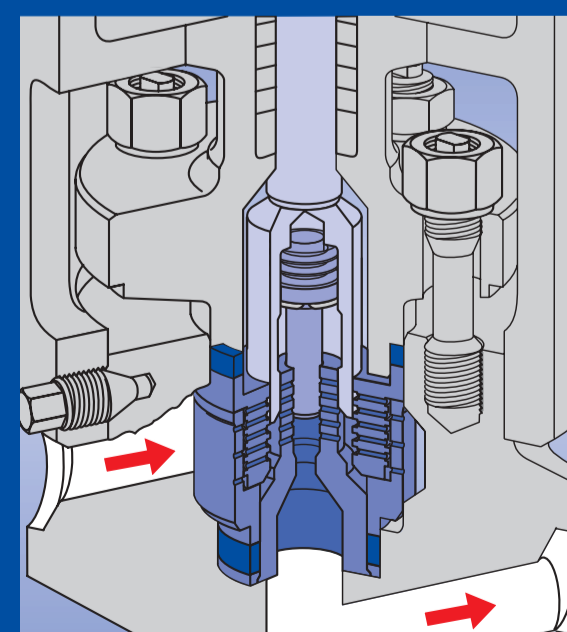
Functional principle of the tandem shut-off



The tandem shut-off combines the function of a conventional isolating valve and a control valve, achieving very low leakage rates. Here the main valve plug is shown in the closed position.



At the beginning of the opening process, first the main valve plug is lifted off the main seat, while the secondary valve plug remains closed until the main plug has reached a certain lift. At the moment of opening or closing, the flow velocity at the main valve seat is zero, so that wire drawing is excluded.



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