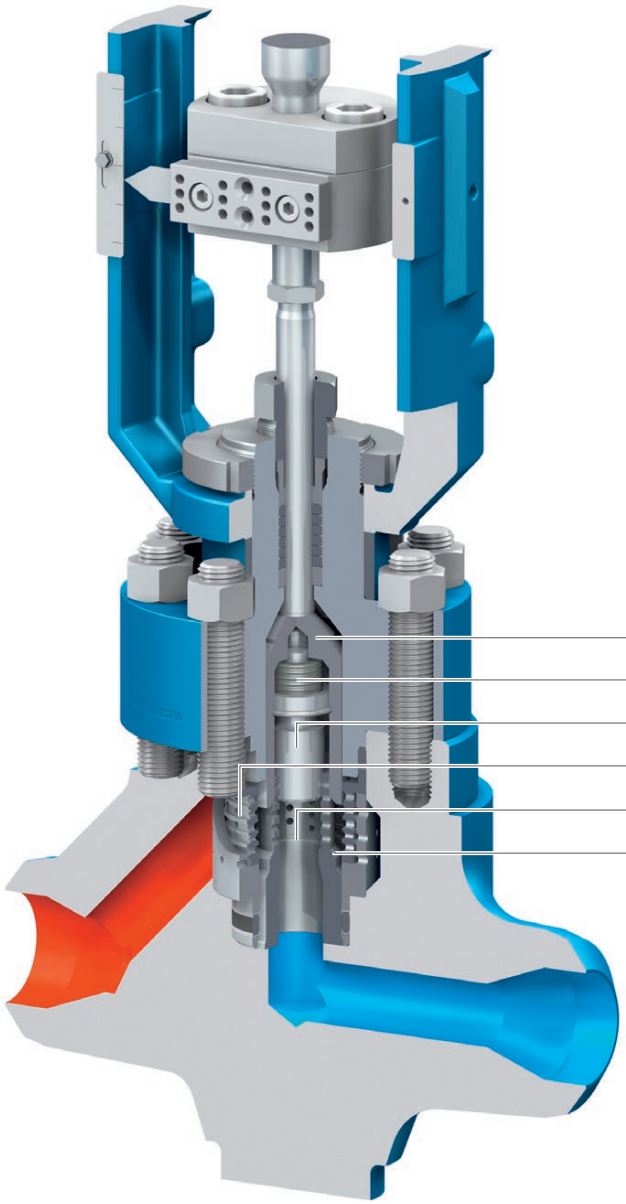
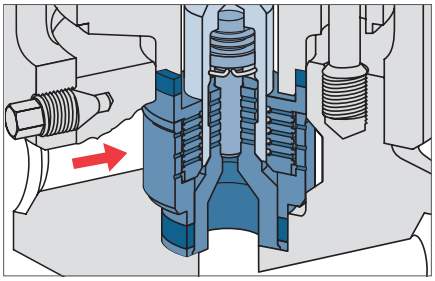
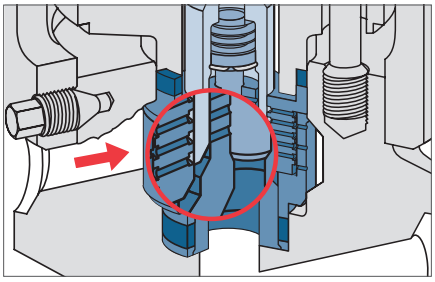
Control Valve ZK 313 with Tandem Shut-Off

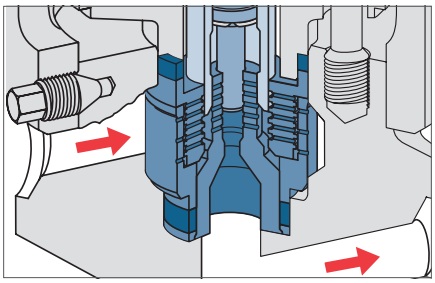




ZK 313: Valve plug in closed position



ZK 313: Valve plug no longer in closed position; valve cone still in closed position, control edge does not yet open any orifices



ZK 313: Valve plug in control position

Control Valve ZK 313

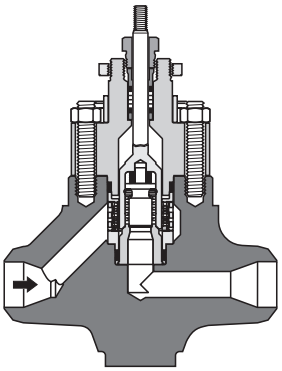
PN 630 & Class 2500
Δp_{max} 40 bar (580 psi)
K_{vs} 20 – 46 m³/h
Δp_{max} 300 bar (4350 psi)
K_{vs} 1 – 17 m³/h
Δp_{max} 370 bar (5365 psi)
K_{vs} 4.5 – 9.5 m³/h

The control valve ZK 313 is also available as an ASME version as per ASME B 16.34. Due to the tandem shut-off, it combines the function of a conventional isolating valve and control valve, and offers long service lifetimes. The leakage rates are in accordance with the highest EN and FCI classifications.

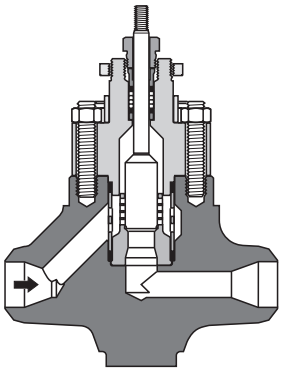
At the beginning of the opening process, first the valve plug is lifted off the main seat, but the valve cone follows only after a certain lift. At the moment of closing and at the beginning of opening, the flow velocity at the valve seat is therefore zero, which means that wire drawing is prevented. Through the use of the steel type 1.4903 / A 182 F91 and special seat materials, the ZK 313 permits a maximum temperature of 620°C. The ZK 313 valve with additional nozzle can be used for differential pressures up to Δp_{max} 370 bar.

Connections	Butt-weld ends, socket-weld ends (EN, ASME)
Actuators	Electric (rotary, linear or lever actuator), hydraulic, pneumatic, handwheel
Body material	C 22.8 (1.0460), A 105
	16 Mo 3 (1.5415)
	10 CrMo 9 10 (1.7383), A 182 F 22
	X10 CrMoVNb 9 1 (1.4903), A 182 F 91

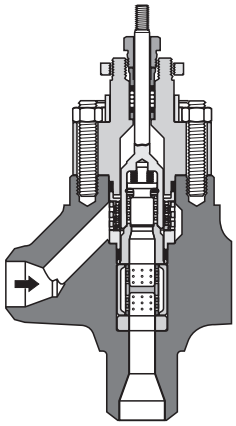
Nozzle Versions for ZK 313



Standard nozzle
Δp_{max} 300 bar / 4350 psi



Special nozzle
Δp_{max} 40 bar / 580 psi
(without tandem seat)



Special nozzle
Δp_{max} 370 bar / 5365 psi
(also in straight-through design)