



# High Performance Fluid Handling

GESTRA Control Valves with ZK Radial Stage Nozzle<sup>®</sup>  
for Power Station and Plant Engineering

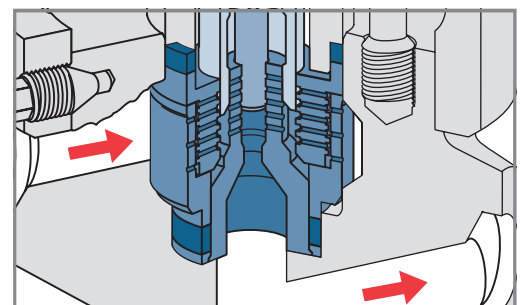
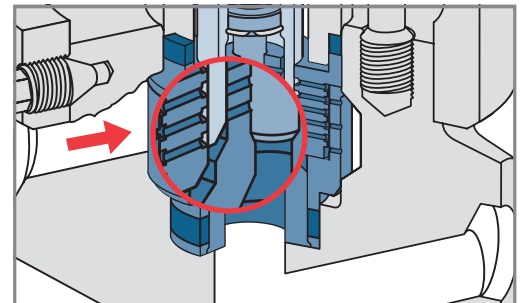
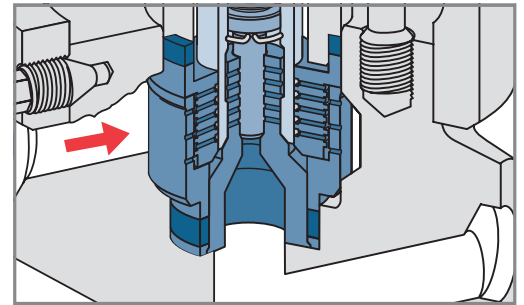
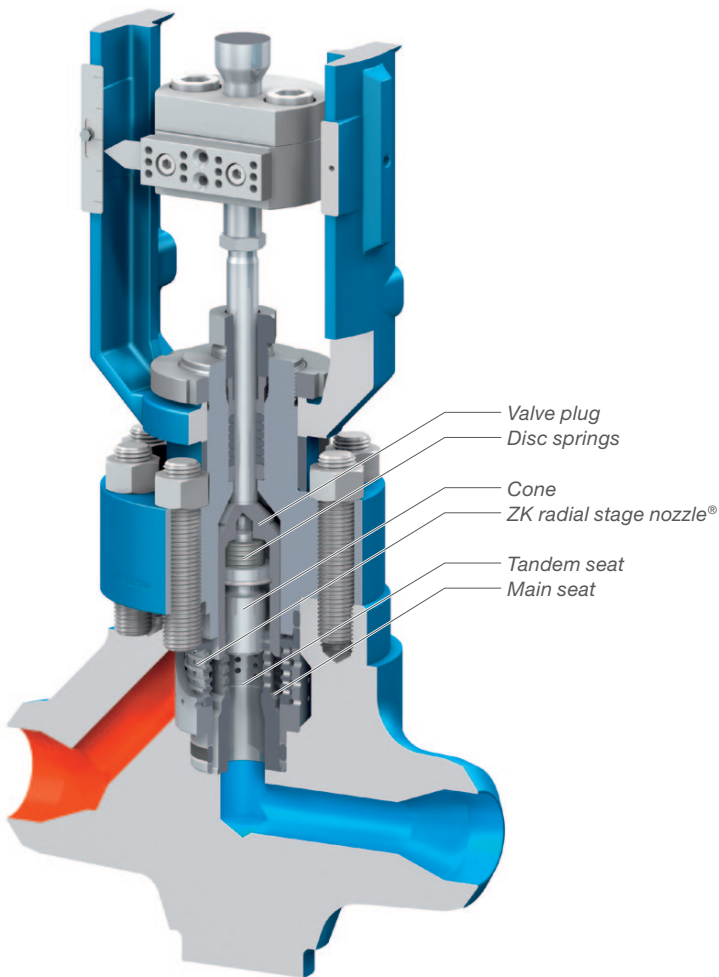


Engineering steam performance

# ZK 313 Control Valve

with tandem seat and ZK radial stage nozzle®

GESTRA control valves with ZK radial stage nozzle® prove their excellence in tough conditions in water and steam circuits. These control valves seal tightly and are therefore the first choice for overcoming leakage and wear problems. The multi-stage pressure reduction and specially designed interior valve parts ensure maximum reliability and a long service life.

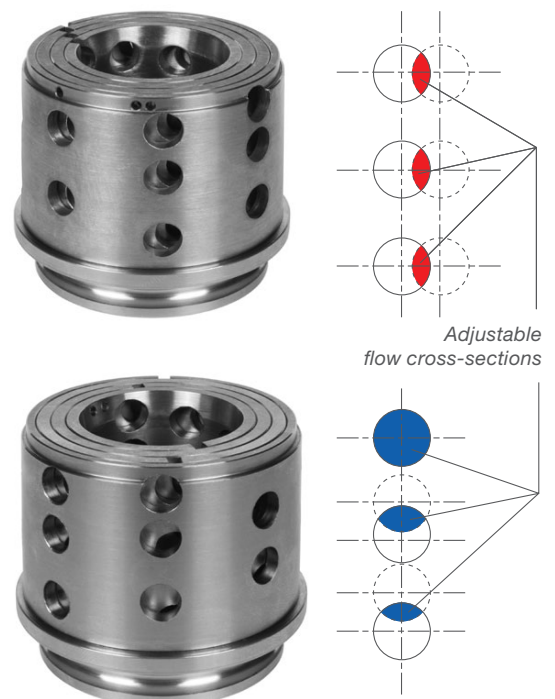
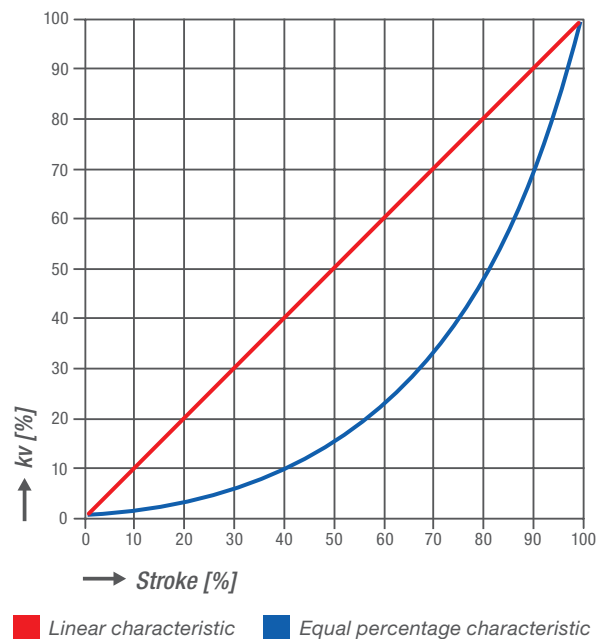
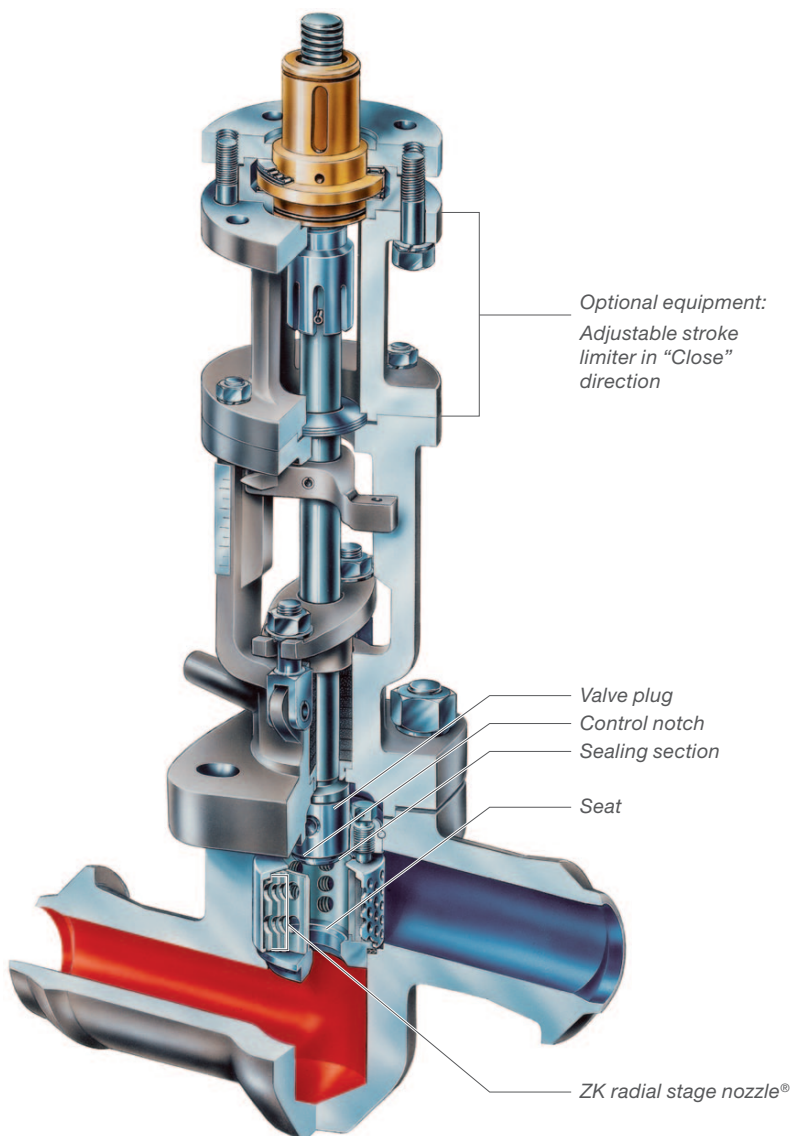


## Special features

- No loss of energy due to leakage
- Less system downtime
- Increased productivity
- Safe operation (suitable for SIL 2 and 3)
- Just one valve for closing and controlling
- Low noise

# ZK 29 Control Valve

## with adjustable ZK radial stage nozzle®



### Special features

- No loss of energy due to leakage
- Reduced system downtime
- Increased productivity
- Safe operation due to SIL 2 and SIL 3 rating
- Just one valve for closing and controlling
- Adjustable Kvs values and characteristics ensure high flexibility
- Low noise

# Market and usage

These valves are used in power plants and high-pressure steam and water systems in refineries, the chemicals industry, and in industry in general. Some typical uses are:

- Steam control systems for > 30 bar
- Injected water control systems in steam coolers
- Feedwater control systems
- Draining and heating steam turbines, boilers and steam pipe systems
- Continuous blowdown in steam boilers

## Technical data

### ZK 313 with tandem seat and ZK radial stage nozzle®

<b>Pressure rating</b>	PN 630 and CI 2500
<b>Nominal sizes</b>	DN 25 – DN 150
<b>Max. differential pressure</b>	300 bar and 370 bar
<b>Max. operating temperatures</b>	620 °C
<b>Kvs values</b>	1.0 m³/h to 17 m³/h
<b>Forged materials</b>	1.0460/A105 1.5415 1.7383/F22 1.4903/F91
<b>Body design</b>	Straight through, angle, Z-pattern
<b>Connections</b>	Butt-weld ends Socket-weld ends Flanged end DIN/ASME
<b>Types of actuation</b>	Handwheel Pneumatic diaphragm actuator Electric rotary actuator Electric linear actuator Hydraulic cylinder Lever with part-turn actuator
<b>Leakage rates</b>	A to EN 12266-1 Class VI to ANSI FCI 70-2-2006

### ZK 29 with adjustable ZK radial stage nozzle®

<b>Pressure rating</b>	PN 160 and CI 900
<b>Nominal sizes</b>	DN 25 – DN 150
<b>Max. differential pressure</b>	100 bar
<b>Max. operating temperatures</b>	550 °C
<b>Kvs values</b>	0.7 m³/h to 130 m³/h
<b>Forged material (DN 25 and 50)</b>	1.7335/F12
<b>Cast material (DN 80-150)</b>	1.7357/WC6
<b>Body design</b>	Straight through, angle
<b>Connections</b>	Butt-weld ends Socket-weld ends Flanged end DIN/ASME
<b>Types of actuation</b>	Handwheel Pneumatic diaphragm actuator Electric rotary actuator Electric linear actuator Hydraulic cylinder Lever with/without part-turn actuator
<b>Leakage rates</b>	A to EN 12266-1 Class VI to ANSI FCI 70-2-2006

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