

## GE-ALSTOM GT 24/26 OTC VALVES

With the introduction of renewable energy, GE-Alstom GT 24/26 gas turbine OTC feed water level control valves are more frequently used for severe service. The OTC valve is required to handle a wide range of mass flows with pressure differences varying from 30 to 170 or even 260 bar or higher, leading to a turndown ratio of 160:1. Moreover the valve has to handle cavitation and flashing.

### PROBLEMS WITH STACKED DISC TRIMS OTC VALVES SUPPLIED BY OEM.

- Seat/trim wear, uncontrolled flow in the gap between plug and stack (cavitation)
- Poor position control at low flow
- Speed of response
- Hammering at opening

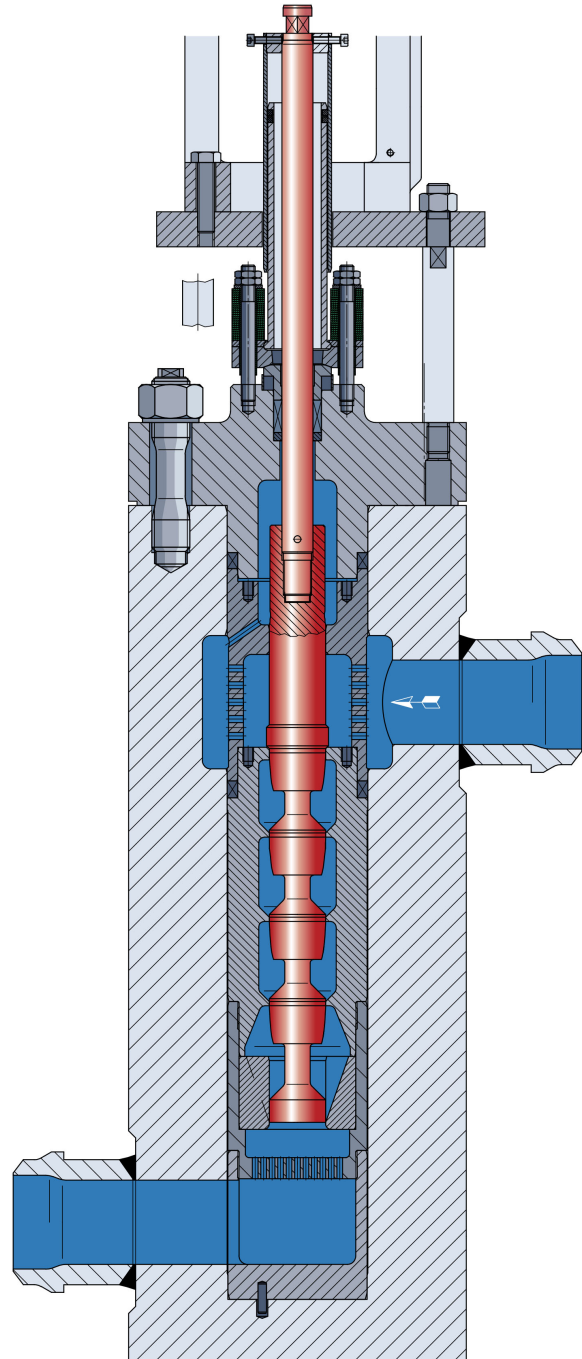
### THE AVS SOLUTION. FROM “C TO C”

AVS has significantly improved the reliability of these valves to last from **C to C inspections** and longer.

With the use of a multi-stage cascade valve, 5+1 up to 7+1 stage pressure reduction (depending on max dP) with a dead stroke and flow direction on the plug we are able to achieve this. The first part of the stroke gives the valve the time to “activate” the actuator and all the stages in the trim. The cascade trim is a proven design multi stage pressure reduction control, capable of continuous control over its total turn down ratio.

With the flow over the plug and variable Cv values per stage matching the flow demand, flashing is removed from the seat area and possible cavitation is minimized. The plug design makes this trim less sensitive to magnetite and particles.

Our installed base proves it.



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