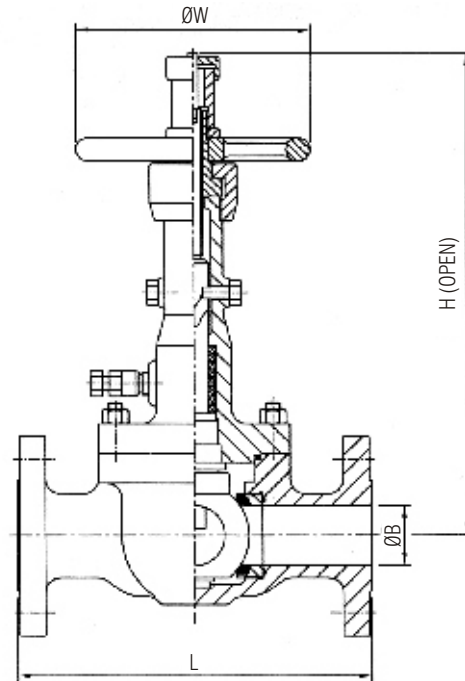


# RISING STEM, TOP ENTRY, SINGLE SEATED, TRUNNION MOUNTED

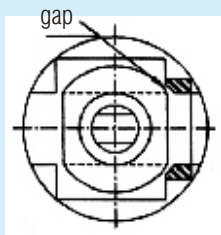


## Features

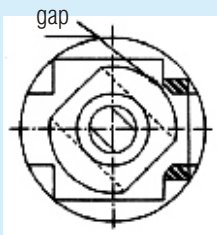
- ◆ Specially designed die formed graphite packings, controlled clearances between stem, gland and bonnet bushing for guaranteed low emissions meet 100 ppm maximum fugitive emission levels.
- ◆ Hawa Valves Cast Steel Ball Valves have been designed to meet the requirements BS 5351/ASME B 16.34/API 6D-ISO 14313/API 608/MSS SP 72
- ◆ Face to Face and End to End dimensions conform to ASME B 16.10 / ISO 5752 / BS 2080 / API 6D-ISO 14313 / DIN
- ◆ End flange dimensions conform to ASME B 16.5 / ISO 7005-1 / API 605 / BS 3293 / DIN
- ◆ Butt weld end dimensions conform to ASME B 16.25
- ◆ Fire tested design to API 607/API 6FA/BS 6755-II
- ◆ Bubble tight closure, friction free operation and long service life since the ball never rotates against the seat
- ◆ Rising and Blow out proof stem construction
- ◆ Uni-body construction
- ◆ Position indicator
- ◆ ISO 5211 top pad for simplified gear/actuator mounting

## Options

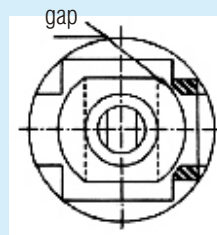
- ◆ For low temperature and cryogenic services (cold box and non-cold box applications) extended bonnet as per BS 6364 available
- ◆ Locking arrangement
- ◆ Gear, Electrical, Hydraulic or Pneumatic actuator available
- ◆ Soft seats are recommended for service temperature up to 260 Deg. C and for higher temperatures a metal to metal seating offered
- ◆ Emergency stem sealant injection system
- ◆ Can be supplied with GRAYLOC END HUB, under project license from GRAYLOC PRODUCTS®, UK.



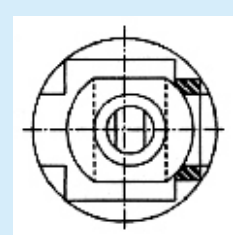
To close the valve, the handwheel is turned clockwise, the stem begins to lower.



Precision spiral grooves in the stem act against fixed guide pins, causing the stem & ball to rotate.



Further turning of the handwheel rotates the ball a full 90° without touching the seat.



Final turns of the handwheel cause an angled flat surface of stem to mechanically wedge the ball firmly against the seat.