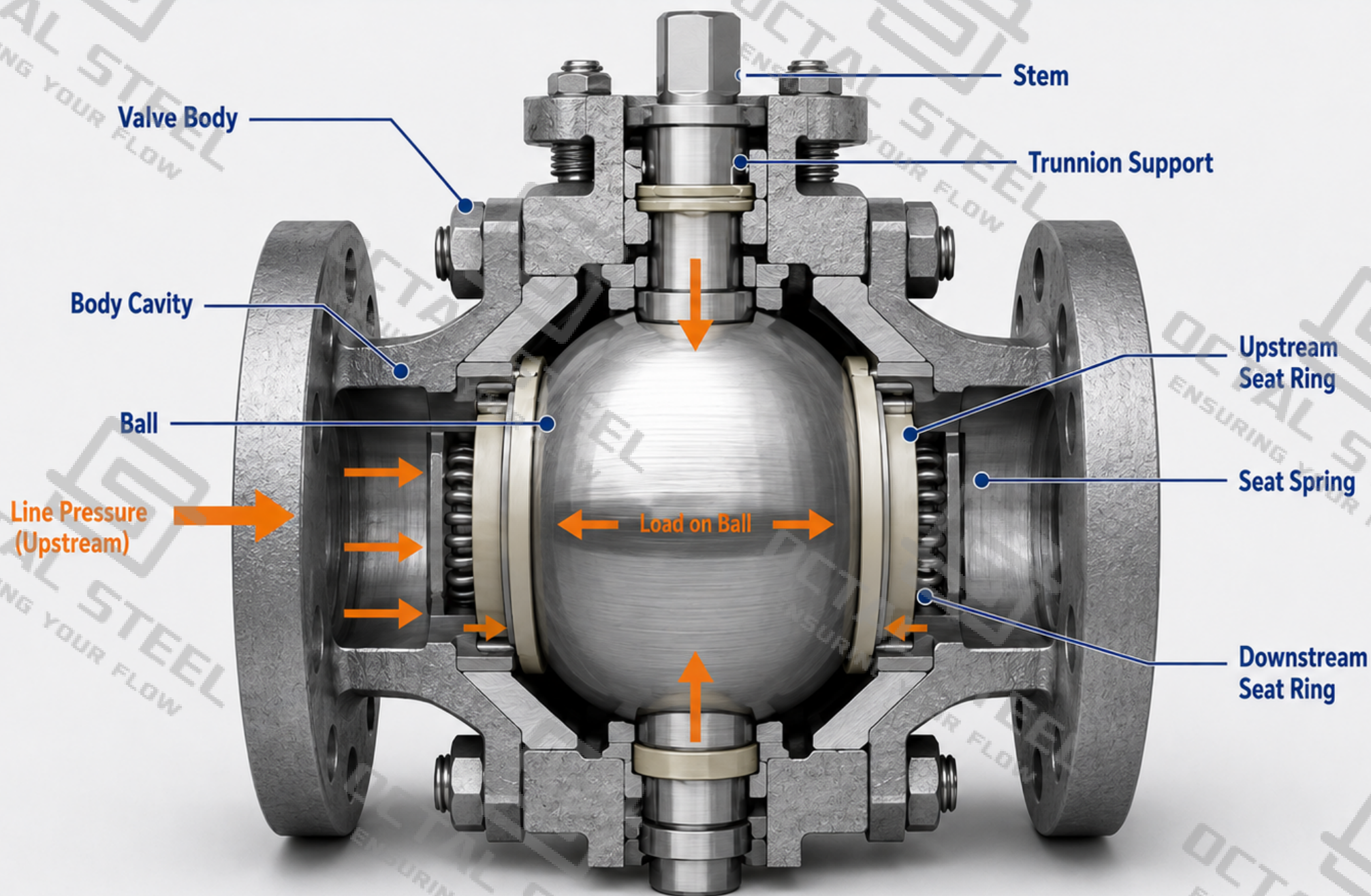
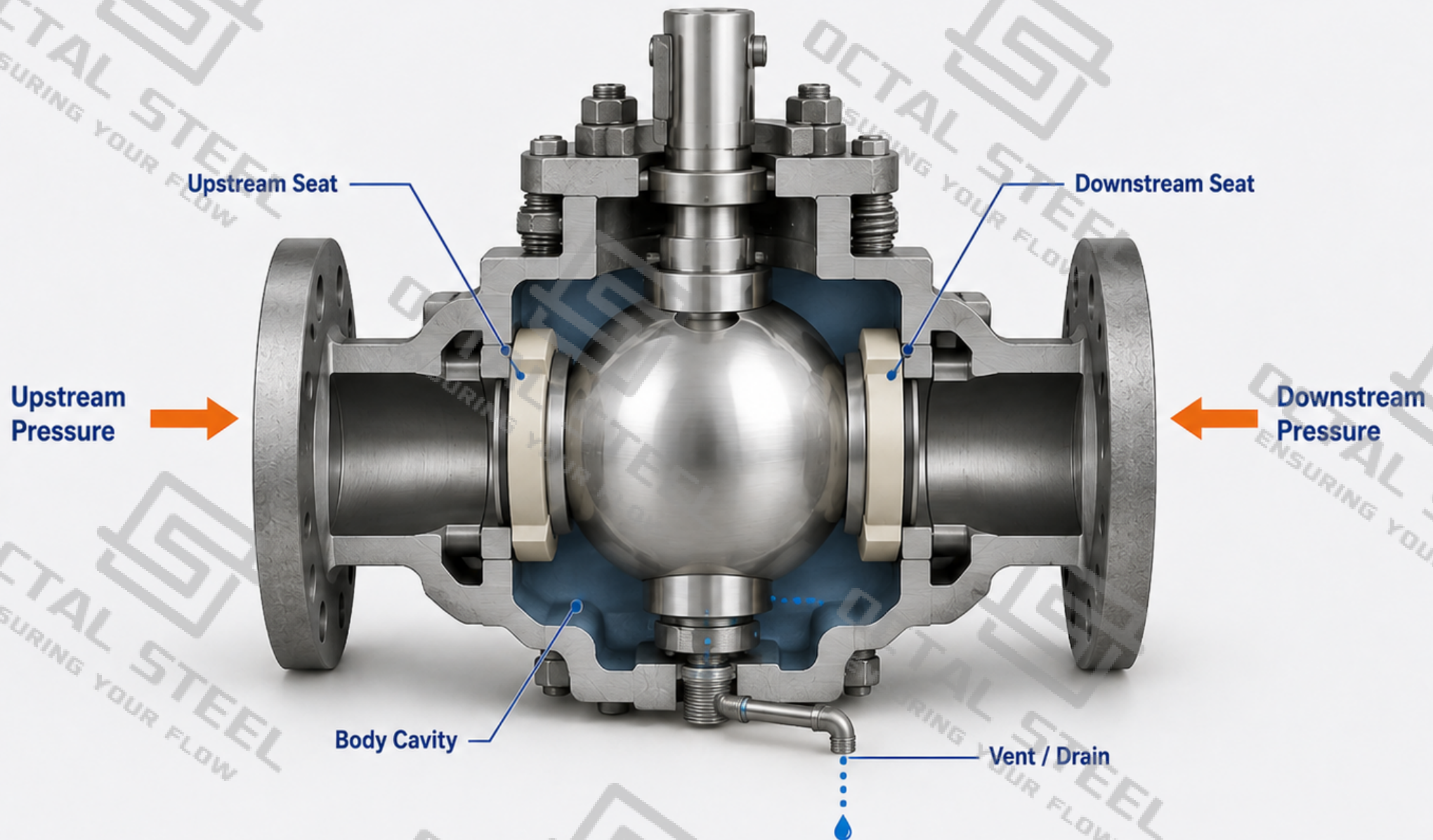


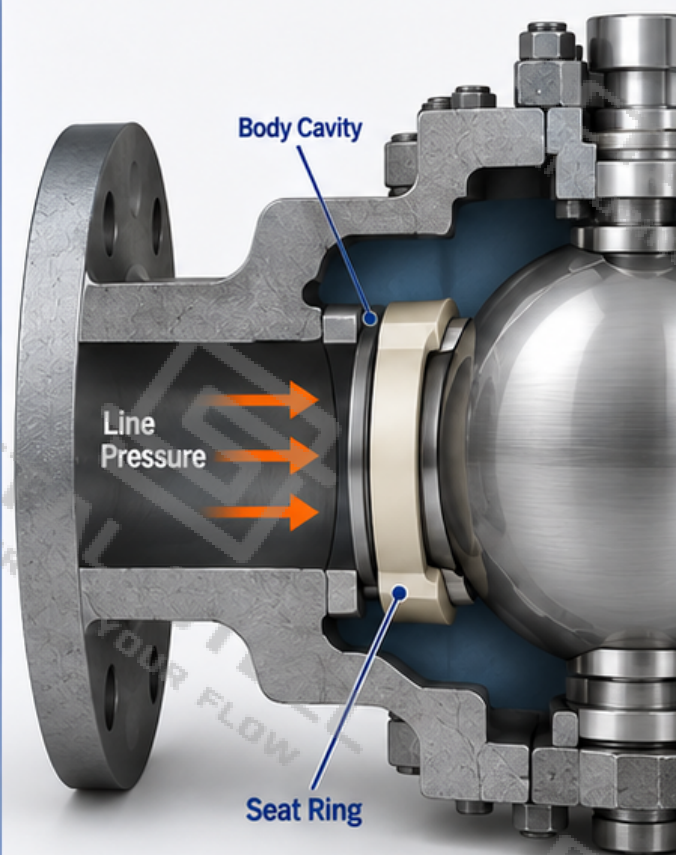




DBB functionality depends on the specified seat and valve configuration.

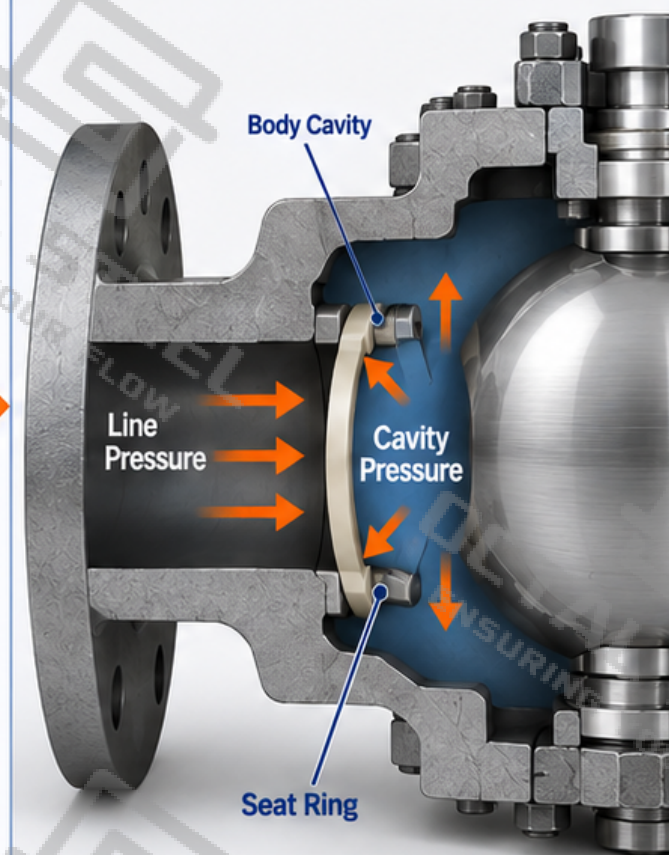
① NORMAL CLOSED CONDITION

Normal line pressure and isolated cavity



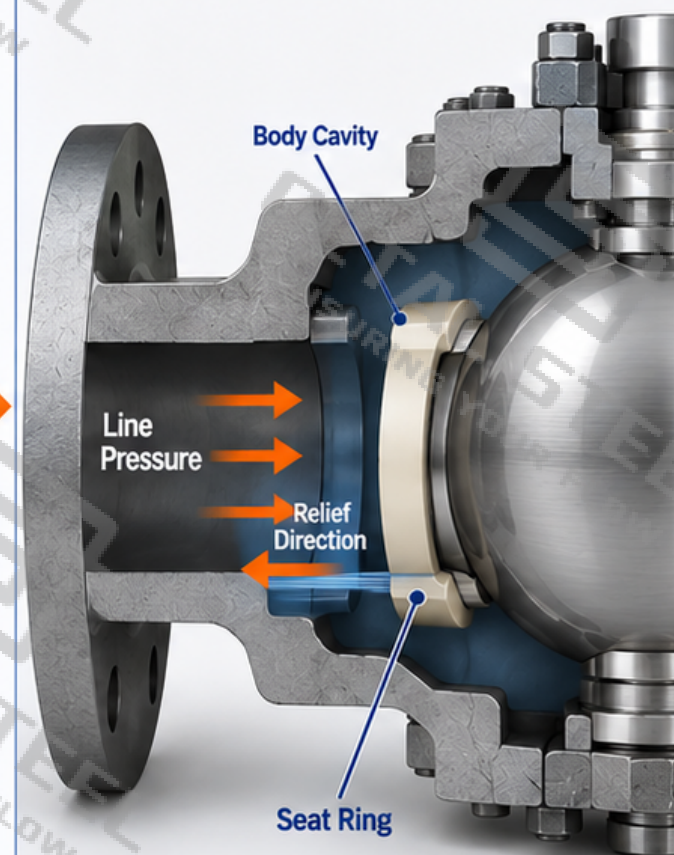
② CAVITY PRESSURE INCREASE

Trapped fluid expansion in the body cavity



③ PRESSURE RELIEF

Self-relieving seat opens toward lower-pressure side



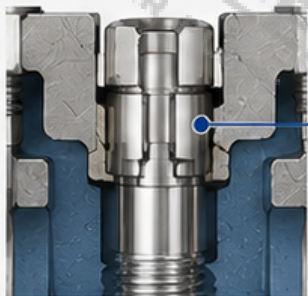
Relief direction depends on the specified seat arrangement.

Trunnion Ball Valve Stem and Sealing Functions

Technical Reference Sheet

1 Blowout-Resistant Stem

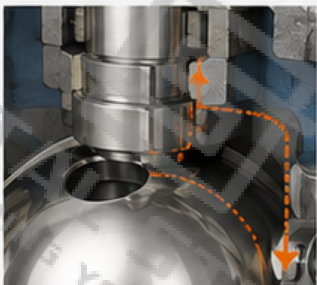
Where Specified



Stem retained from inside the pressure boundary

2 Anti-Static Continuity

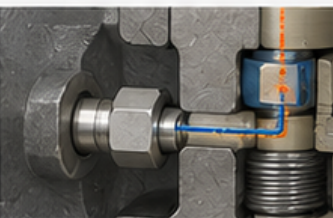
Where Specified



Conceptual conductive continuity path from ball/stem to body

3 Emergency Sealant Injection

Where Specified



Injection fitting and internal path toward the relevant sealing area

4 Vent and Drain

Where Specified



Vent
(from body cavity)

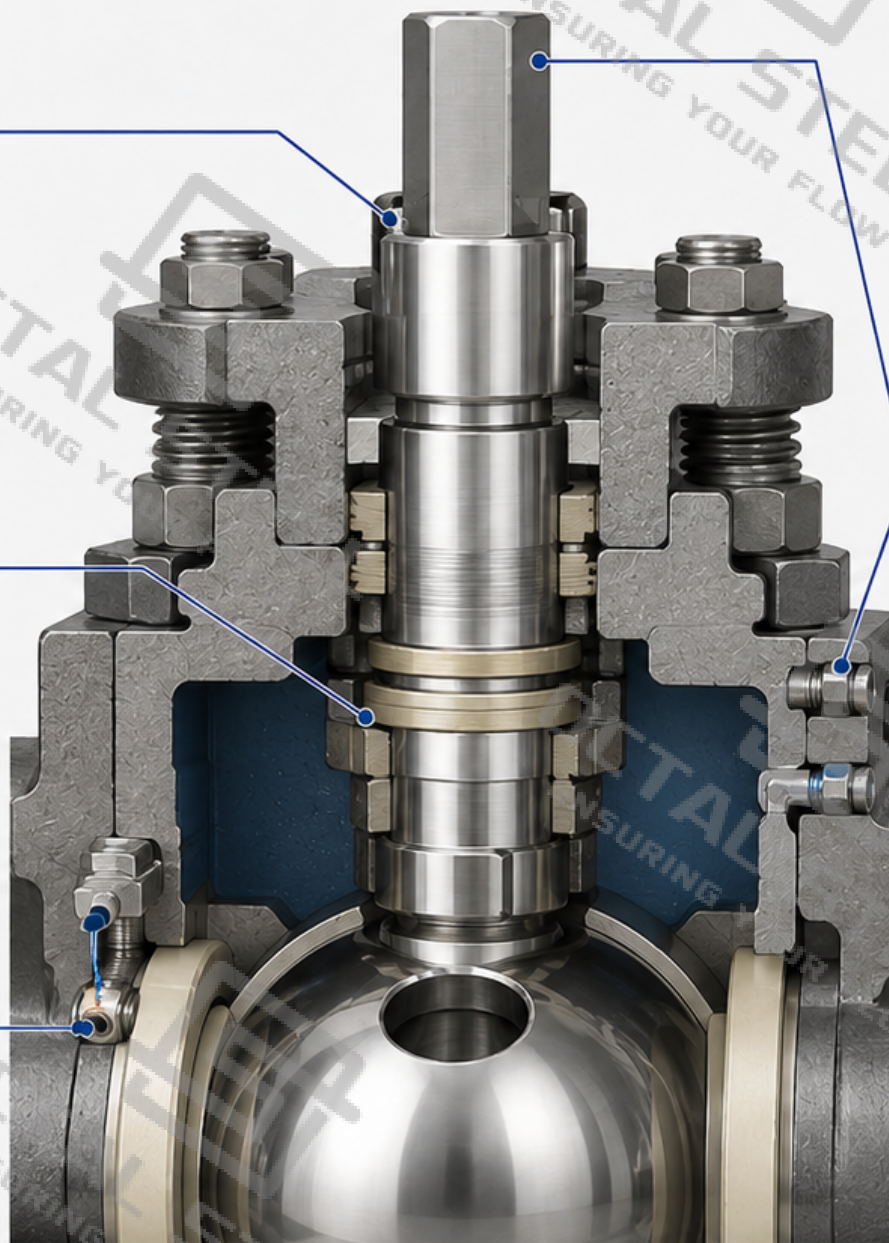
Drain
(from body cavity)

5 Stem Extension

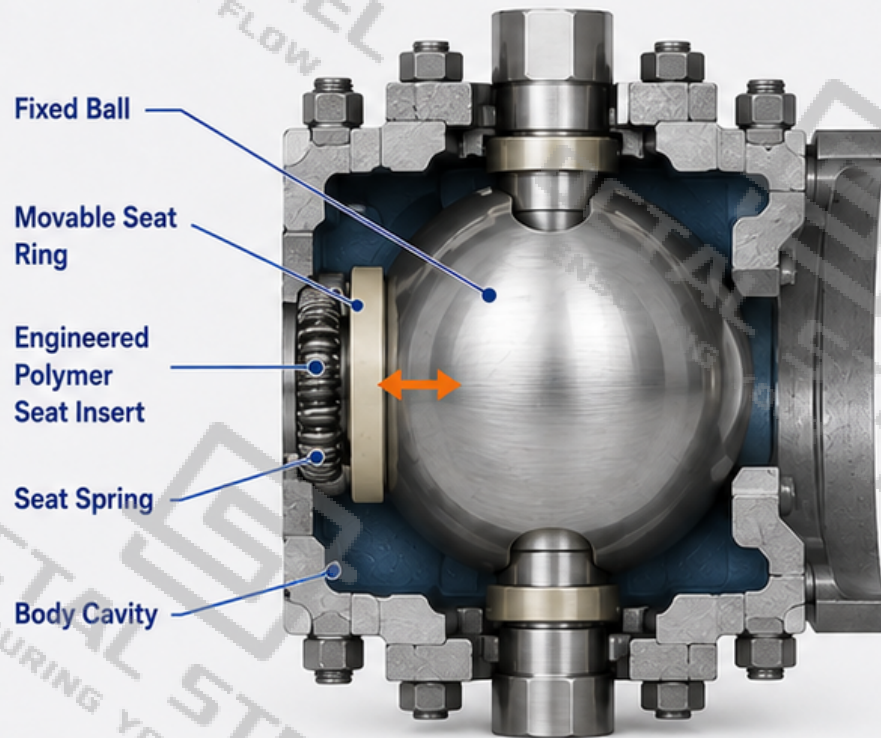
Where Specified



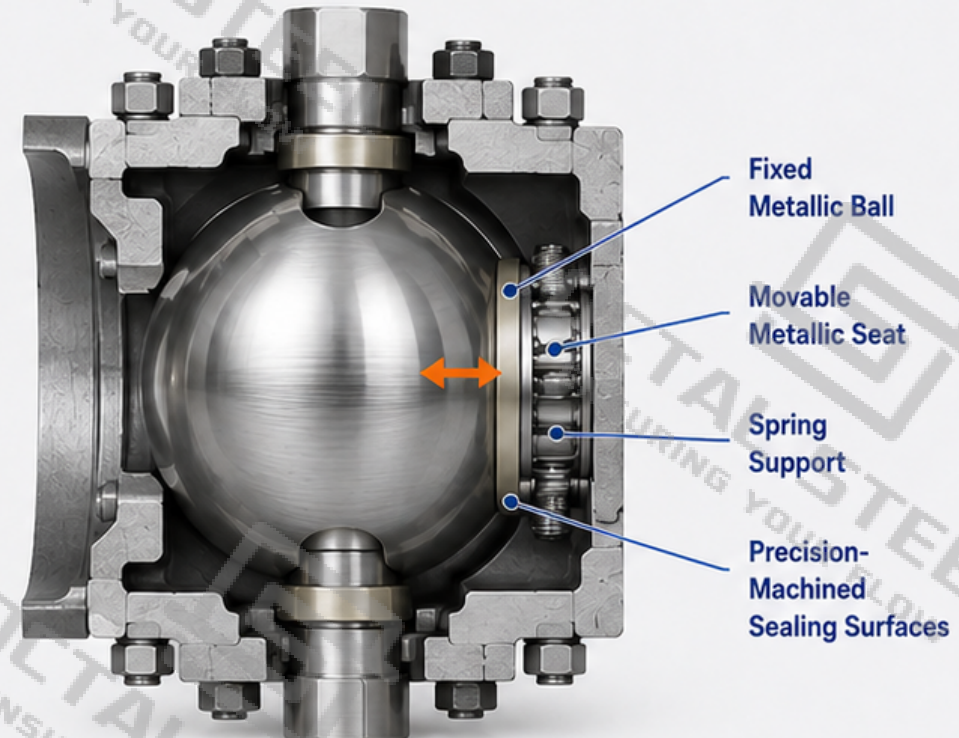
Extended operating stem for buried or remote operation



SOFT SEATED TRUNNION



METAL SEATED TRUNNION



Orange arrows indicate seat movement only.

SELECTION MATRIX



Temperature

Match seat material and construction to operating temperature range.



Process Medium

Consider chemical compatibility and service severity.



Suspended Solids

Evaluate solids content, particle size, and abrasion potential.



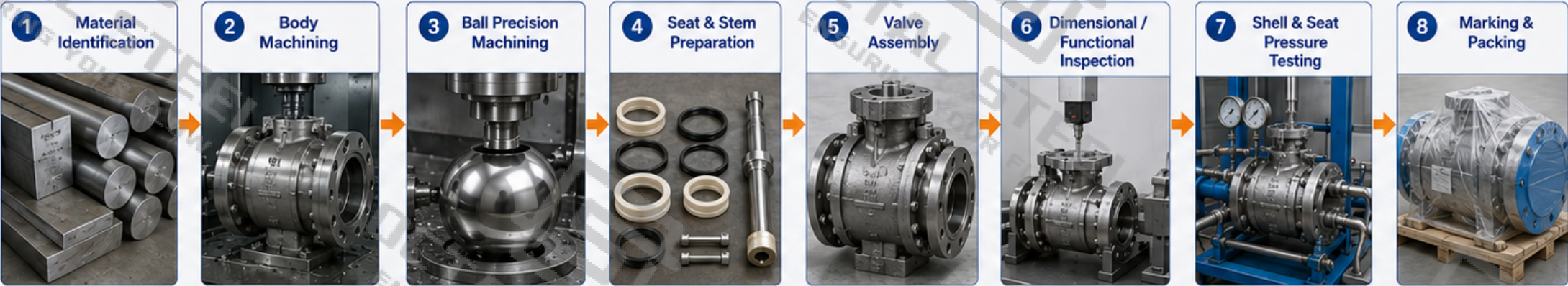
Leakage Requirement

Select seat system based on required tightness and service criticality.

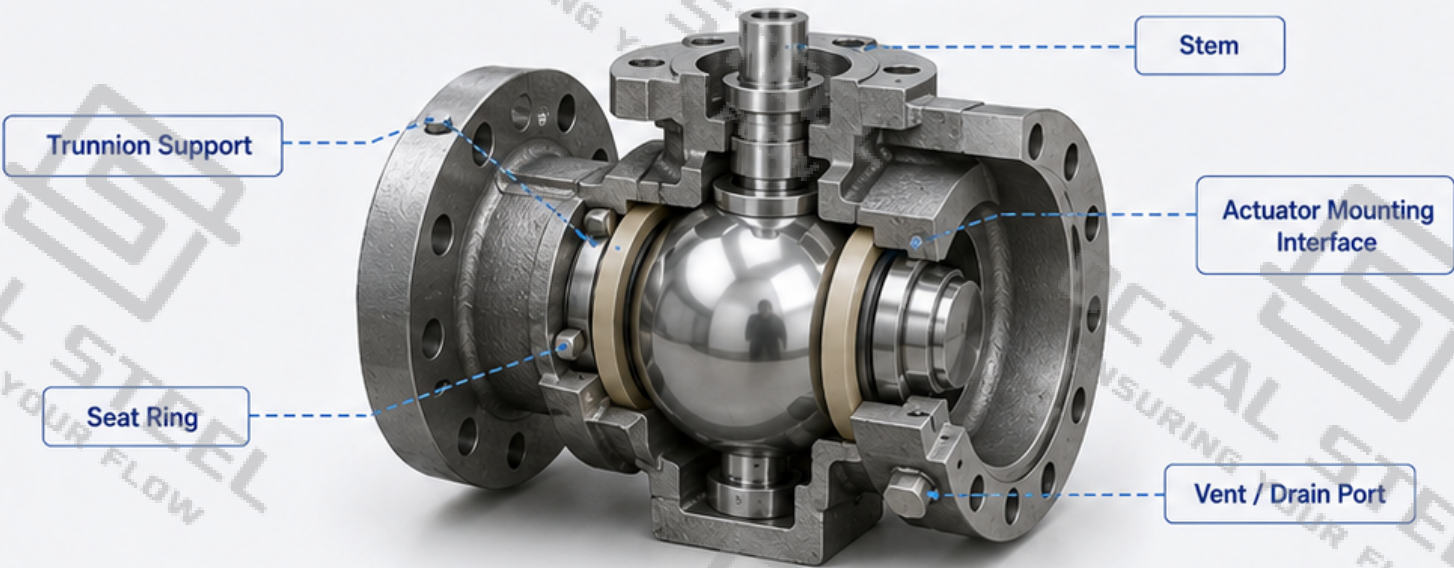


Seat material and construction must be matched to the complete pressure-temperature-service condition.

MAIN PROCESS FLOW



CENTRAL INSPECTION DETAIL



PROJECT CHECK

-  Size & Class
-  Bore
-  Seat System
-  Materials
-  Actuation / Documentation

TRACEABILITY STRIP

