Side-entry trunnion ball valves

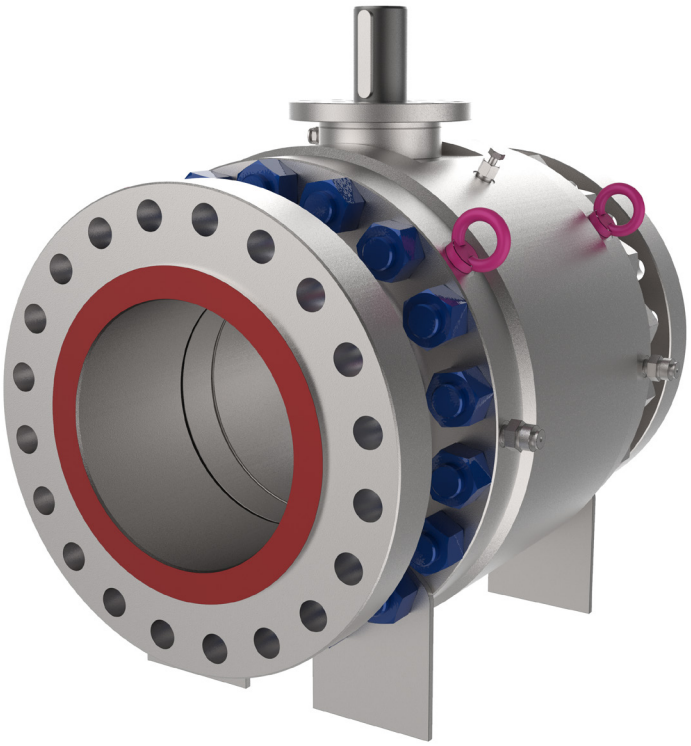
Quick sheet

BT2 and BT3 series

NPS 2–56 (DN 50–1400), ASME Classes 150–2500

Velan ABV offers side-entry ball valves manufactured in accordance with API 6D standards. The complete range of forged valves is designed in two or three bolted pieces with a solid double trunnion configuration.

Two independent seats with bidirectional sealing ensure the greatest level of tightness and reliability under high pressure and temperature conditions in all critical isolation services.



Material selection is fully customizable to meet the customer's project specifications and several unique features are available offering enhanced technical solutions suitable to aggressive offshore environments and corrosive and abrasive fluids.

Design configurations

BT2	BT3
Two-piece forged bolted body design	Three-piece forged bolted body design

Design features

- Double block and bleed design (DBB).
- Secondary seals in pure Graphite.
- Anti-static device.
- Anti-blowout stem.
- Soft-seated or metal-seated designs with hardfacing on ball and seats.
- Seat configurations available: self-relieving, double piston, combination, and interchangeable.
- O-ring/lip seal and graphite configuration.
- Emergency sealant injection on seats and stem available.
- Low fugitive emission stem packing available.
- CRA overlay on all dynamic sealing areas or on all wetted parts available.
- Extended bonnet for low & high temperature available.

Operator

- Manual: Wrench or gear with padlocking.
- Actuated: Pneumatic/hydraulic/electric.

Specifications

Valve design	As per API 6D standard and customer requirements
Temperature range	-150 to 662°F (-101 to 350°C)
Face-to-face	As per API 6D standard
End connections	RF, RTJ as per B16.5 & B16.47 BW, Butt weld as per B16.25 Socket weld as per B16.11 Hub connection

Testing & certification

- Compliance with API 6D & ISO 5208 & API 598 inspection and testing.
- Fire safe and fire tested as per API 6FA/607.
- SIL 3 Certification as per IEC 61508.
- Fugitive emission as per ISO 15848.
- PED 2014/68/UE.