

BT2 and BT3 series

NPS 1³/₁₆–21¹/₄ (DN 46–540), API Classes 5000–20000

Velan ABV has been an API 6A licensee since 2001, implementing a quality management system in compliance with API Q1 and offers a complete range of valves that comply with the latest edition of API requirements.

Velan ABV designs and manufactures API 6A Side-entry ball valves for Wellhead and Christmas tree equipment and for operating in aggressive environments with various fluids and gases such as a petroleum mixture of oil and sand and extreme sour gas service.

Our forged valves are configured in two or three bolted pieces to ensure the highest level of reliability in varying combinations of high-temperature and high-pressure applications. Forged materials provide the rigidity and strength required in critical high-pressure operations to meet customer project specifications.

Design configurations

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

Design features

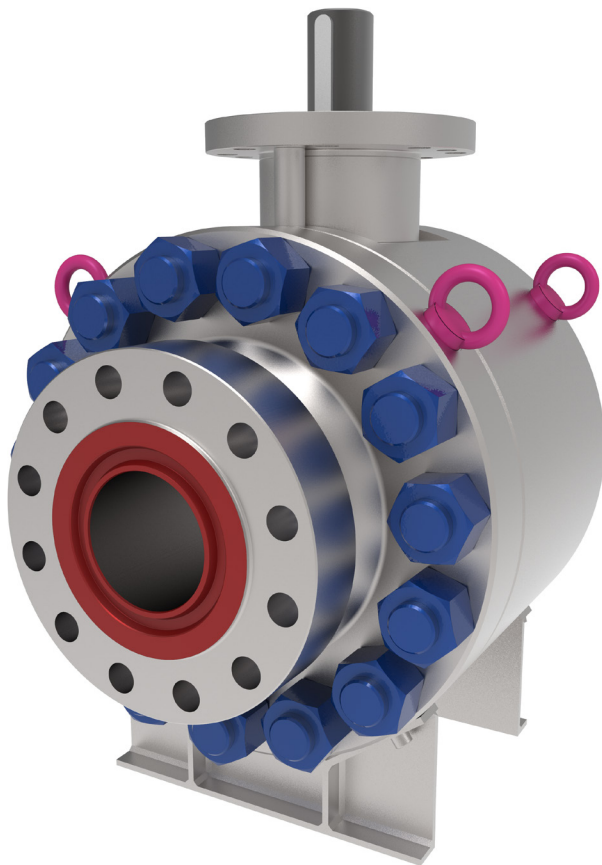
- Double block and bleed design (DBB).
- Secondary seals in pure Graphite.
- Anti-static device.
- Anti-blowout stem.
- Soft-seated or metal-seated designs with hardfacing on ball and seats.
- Seat configurations available: self-relieving, double piston, and combination.
- Lip seal configuration.
- Emergency 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.

Operator

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

Testing & certification

- Compliance with API 6A 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.
- Different product specification levels available (PSL 1, 2, 3, 3G, and 4).
- Different performance requirement levels available (PR1, PR2).
- Design validation as per PR2F (on request).



Specifications

Valve design	As per API 6A standard and customer requirements
Temperature range	-150 to 428°F (-101 to 220°C)
Face-to-face	As per API 6A standard
End connections	Hub connection 6B, 6BX as per API6A