



High pressure compact ball valves

Quick sheet

BC2 and BC3 series

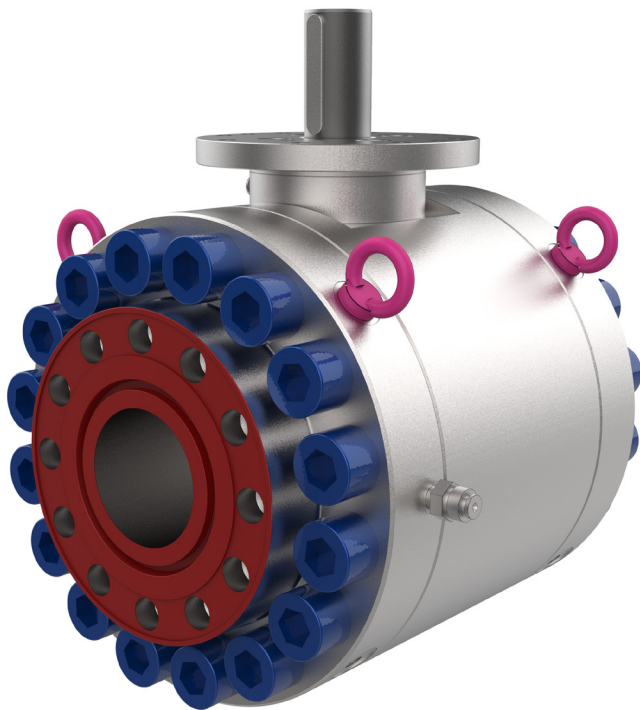
NPS 2–36 (DN 50– 900), ASME Classes 900–2500

NPS 1³/₁₆–16³/₄ (DN 46–425), API Classes 5000–20000

Velan ABV has developed a new generation of compact valves in both a single and double ball configuration. Our designs provide a competitive solution in the ever-expanding market in offshore platforms and FPSOs facing technical and economic challenges.

We offer a wide range of designs that have the same reliability and level of quality as traditional API valves but with significant space and weight savings due to the compact flange design integrated into the valve closures and compact welding neck flanges that connect the pipeline.

Design and selection of materials are fully customizable to meet customer project specifications.



Specifications

Valve design	As per API 6D or API 6A or API 6DSS standards and customer requirements.
Temperature range	-150 to 428°F (-101 to 220°C)
Face-to-face	As per Velan standard
End connections	Norsok L005 compact flange Freudenberg/Grayloc compact flange

Design configurations

BC2	BC3
Two-piece forged bolted body	Three-piece forged bolted body

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.
- Compact and lightweight design.
- Lighter piping welding neck flanges with smaller dimensions offer 80% in weight savings

Operator

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

Testing & certification

- Compliance with inspection and testing: API 6D, ISO 5208, and API 598 or API 6A or API 6DSS.
- 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.
- Available as per API 6A: Product specification levels PSL 1, 2, 3, 3G, and 4. Performance requirement levels PR1, PR2. Design validation as per PR2F.