

DBB and SBB series

NPS ½–3 (DN 15–80), ASME Classes 150–2500

Velan ABV Instrument double block and bleed valves provide a simple and lightweight design for use in FPSO and offshore platforms, where space and weight savings are a priority.

This simple design combines two in-line isolation valves into a single body with an additional bleed valve used to drain or vent trapped fluid between the two obturators.

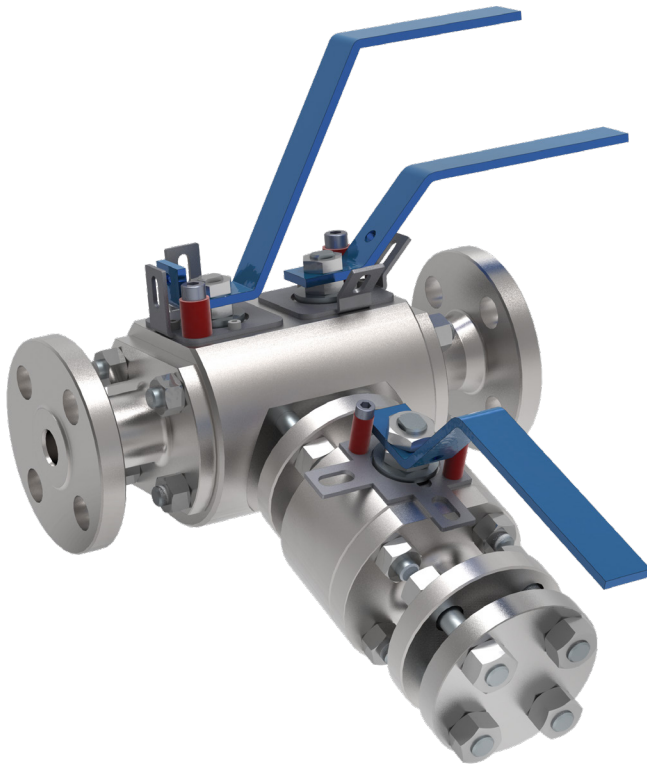
The valve is primarily used for chemical injection and sampling and for isolating instrumentation such as pressure indicators and lever gauges.

The construction ensures the highest level of safety in double isolation and bleed service by significantly reducing potential atmospheric leakage and minimizing any hazardous risk when transferring liquids or gas.

Several unique features are available offering advanced technical solutions suitable for aggressive and severe offshore environments. Material selection is fully customizable to meet customer project specifications.

Design configurations

DBB	SBB
Three-piece forged bolted body design	Three-piece forged bolted body design for subsea service



Design features

- Double block and bleed design (DBB).
- Secondary seals in pure Graphite.
- Anti-static device.
- Anti-blowout proof stem.
- Soft-seated or metal-seated designs with hardfacing on ball and seats.
- Seat configurations available: four self-relieving, four double piston, or combination.
- O-ring/lip seal configuration.
- Check valve located on the DBB inlet available.
- Low fugitive emission stem packing available.
- Extended bonnet for low & high temperature available.
- Low pressure loss through the valve.
- Injection quills suitable for safety and effectively dispersing fluids and liquid chemicals into a pipeline available.
- Bleed connection flanged type suitable for different solutions, floating valve as per our standard.

Specifications

Valve design	As per EEMUA 182 standard and customer requirements
Temperature range	-321 to 662°F (-196 to 350°C)
Face-to-face	As per Velan standard
End connections	RF, RTJ as per B16.5 & B16.47 BW, butt weld as per B16.25 NPT according to manufacturer standard

Operator

- Manual: Wrench or gear with padlocking.

Testing & certification

- Compliance with inspection and testing: API 6D, ISO 5208, API 598, and BS 6364.
- Fire safe and fire tested as per API 6FA/607.
- Fugitive emission as per ISO 15848.
- PED 2014/68/UE.