



# Subsea side-entry trunnion ball valves

## Quick sheet

### SS2 and SS3 series

NPS 2–48 (DN 50–1200), ASME Classes 150–2500

Velan ABV subsea side-entry ball valves are suitable in water depths to 500 m (1700 ft) and maintain an average service life of 25 years while offering the utmost level of reliability and safety under high-pressure conditions—even in harsh service with the presence of sand or solid particles.

Subsea side-entry ball valves may be completed with a subsea gear and ROV receptacle for remote operation by a ROV or with a handwheel for manual operation by diver.

As an alternative, valves can be fitted with hydraulic subsea actuators, and fully compensated in a double or single acting configuration, with or without ROV override.

Valves are available in a wide range of materials and configurations to meet both customer requirements and specific application needs.

### Design configurations

SS2	SS3
Two-piece forged bolted body design	Three-piece forged bolted body design



### Design features

- Double block and bleed design (DBB).
- 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 seats.
- O-ring/lip seal configuration.
- Body sealing designed in double O-ring configuration for sea water protection.
- CRA overlay on all dynamic sealing areas or on all wetted parts available.

### Operator

- Manual: Gear with ROV receptacle or handwheel.
- Actuated: Hydraulic with or without ROV receptacle/handwheel override.
- Baric compensator for operators.

### Specifications

<b>Valve design</b>	As per API 6DSS standard and customer requirements
<b>Temperature range</b>	-150 to 428°F (-101 to 220°C)
<b>Face-to-face</b>	As per API 6D standard
<b>End connections</b>	RF, RTJ as per B16.5 & B16.47 BW, Butt weld as per B16.25 Hub connection

### Testing & certification

- Compliance with API 6DSS inspection and testing.
- SIL 3 Certification as per IEC 61508.
- PED 2014/68/UE.
- Hyperbaric validation testing as per API 6DSS (available on request).
- Cap test as per API 6DSS (available on request).