



# Subsea fully welded trunnion ball valves

## Quick sheet

### SXP series

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

Velan ABV offers a complete range of subsea ball valves designed with two or three fully welded forged pieces in a solid double trunnion configuration. Suitable in water depths to 500 m (1700 ft) these subsea valves maintain an average service life of 25 years.

The fully welded body construction provides a significant reduction in weight and of potential leak paths to the external environment. As a result, the valves are an excellent choice in marine and subsea pipelines.

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.

Subsea fully welded trunnion ball valves may be completed with a subsea gear and ROV receptacle for remote operation by ROV or with a handwheel for manual operation by the diver. As an alternative, valves can be fitted with hydraulic subsea actuators, fully compensated in a double or single acting configuration, with or without ROV override.



### 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 and double piston.
- Dynamic seals in O-ring/lip seal configuration.
- 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>Body design</b>	Forged welded two-piece/ three-piece
<b>Temperature range</b>	-76 to 410°F (-60 to 210°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 SW, Socket weld as per B16.11

### 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).