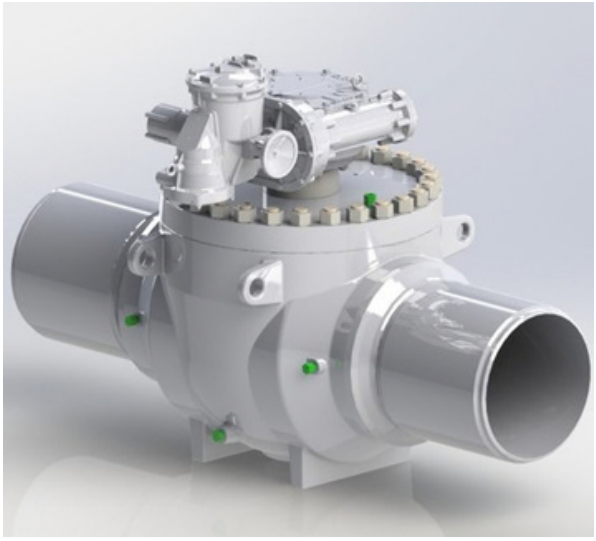
TOP ENTRY TRUNNION BALL VALVES

HIGH-PERFORMANCE VALVES FOR OIL & GAS, CHEMICAL, PETROCHEMICAL, WATER AND POWER APPLICATIONS



PRODUCT INFORMATION

Negri Fratelli Top Entry trunnion-mounted ball valves are designed to ensure **maximum safety, reliability and ease of maintenance** over time. The Top Entry configuration allows direct access to the internal components, facilitating inspection, scheduled maintenance and replacement of seats or seals without removing the valve from the line, resulting in a significant reduction in plant downtime.

These valves are used in a wide range of applications, including **industrial plants, gas and fluid distribution networks, pipelines and refineries, water treatment systems and energy projects**, where operational continuity and long service life are essential requirements.

KEY FEATURES

- **Top Entry design body**
- **Full or reduced bore** options
- **Bi-directional sealing** with **Double Block & Bleed (DBB)** design
- **Solid ball** with a cylindrical bore and no internal cavities
- **Single-piston seats** with self-relieving effect
- **Anti-ejection stem** with **antistatic device**
- **Multiple actuation options:** manual lever or gearbox (with handwheel or 90° deviation), or actuator-operated
- **Testing:** hydrostatic and pneumatic tests to API 6D. Other testing upon request

OPTIONAL FEATURES

- **Firesafe certified design:** API 607 and ISO 10497 compliant
- **Double piston effect seats, DIB-1 / DIB-2 seats, metal-to-metal** sealing
- **Stem and seat sealant injection systems**
- **Drain and vent devices,** complete with ball valve and/or plug, for DBB testing and maintenance
- **Versions for cryogenic service**
- **Locking devices**
- **Customized face-to-face dimensions**

TECHNICAL SPECIFICATIONS

Design standards	API 6D, ASME B16.34, ASME VIII DIV. 1 / 2, NACE MR0175, EN ISO 14313, EN ISO 17292
Pressure rating	ASME 150 to ASME 2500, PN 6 to PN 420
Temperature range	–29°C to +160°C (other ranges on request)
Size range	up to DN 900 (36”)
End connections:	flanged, butt-welding, hub

MATERIALS

Body and closures	in carbon and stainless steel, obtained from forging, bar stock, or casting
Ball and seat rings	ASTM A350 Gr. LF2, ASTM A479 S31600, ASTM A182 F316 (other materials on request)
Seat inserts	soft (thermoplastic polymers such as RPTFE, Devlon, Peek, or PCTFE) or metal (Tungsten/Chrome Carbide coating), other materials on request
Seals	FKM, HNBR, FFKM, EPDM, graphite, lip seals (other materials and solutions available on request)

CERTIFICATIONS

Design & Construction	API 6D
Firesafe	API 607, EN ISO 10497
Pressure Equipment Directive (PED)	2014/68/EU
ATEX certification	2014/34/EU

Headquarters:
Negri Fratelli Srl
Via dei Martiri, 14
28075 Grignasco (NO) - Italy

Production plant:
Negri Fratelli Srl
Viale Europa, 11
28010 Cavallirio (NO) - Italy

Phone no. +39 0163 417117
Information: info@nfg.it