TWIN BALL DOUBLE BLOCK AND BLEED TRUNNION BALL VALVES

HIGH-PERFORMANCE VALVES ENGINEERED FOR THE OIL & GAS, CHEMICAL, PETROCHEMICAL, WATER, AND ENERGY INDUSTRIES



PRODUCT INFORMATION

Negri Fratelli Twin Ball Double Block and Bleed trunnion-mounted ball valves are designed to ensure **maximum safety, reliability and ease of maintenance**, even in critical or high-pressure installations. The twin ball design provides complete shut-off in both directions and allows venting of the internal cavity.

These valves are used in a wide range of applications, including **pipelines, refineries, large power plants, industrial water treatment systems and process lines** where operational continuity and safety are essential.

KEY FEATURES

- **Bolted body**
- **Full or reduced bore** options
- **Double Block and Bleed function** – twin ball design with two independent isolation points and cavity venting (through a bleed valve or plug), to drain the fluid trapped between the balls
- **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 or high-temperature service**
- **Locking devices**

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 400 (16”)
End connections:	flanged, butt-welding, hub

MATERIALS

Body and closures	in carbon and stainless steel, obtained from forging or bar stock
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, and special high-temperature graphite 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

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