



BALL VALVES TOP ENTRY HIGH TEMP

One of Pibiviesse core products, it is available with several design options and versions for High Temperature applications

Description	Product Features and Options
Pibiviesse valve models	T series
Main Standards and Codes	API 6D & IOGP S-562, API 6A, ASME B16.34, ASME VIII, NACE MR 01-75/ISO 15156
Body design	Single Piece
Size range	API 6D: from 2" to 60" API 6A: from 1.13/16" to 20"
Pressure Ratings	ASME 150# to 2500# API 6A 2000 to 10000 psi
Design Temperature range	-46 / 650°C
End Connections	Flanged RF/RTJ to ASME B16.5, ASME B16.47 Series A or B, EN 1092-1, API 6A Compact to Norsok L005 Clamped Hubs to Customer request Butt-Welded to ASME B31.3, ASME B31.4, or ASME B31.8. Profile as illustrated in ASME B16.25.
General Design features	Full and Reduced Bore Long Pattern Spring Energized Floating seats Bidirectional or Unidirectional Anti-blow out stem Anti-static design Flushing Points on Seats Emergency sealant injection on stem Fire Safe
Ball-to-Seats seal	Soft, Metal-to-Metal
Seat design	SPE (Self Relieving), DIB-1, DIB-2
Optional Design features	Special Bore (Controlled Bore for Pigging) Pup pieces on weld ends Double Block and Bleed Double Isolation & Bleed Pressure Equalizing Hole in the ball Extended bonnet Locking devices Combined upstream Metal-to-Metal / downstream Soft ball-to-seats sealing Position indication Limit Switches Ball bearings and seat pockets protections from debris in dirty service Quick operation ≤ 3 secs for HIPPS applications
Materials Selection	Body manufactured from cast or forged materials Components mostly manufactured from forged materials CS, 316ss, 6Mo, Duplex, S-Duplex, Monel, Nickel Alloys CRA weld overlays in 316 St. Steel or Inconel 625 Tungsten Carbide Coating (TCC), Chromium Carbide Coatings (CCC), Stellite cladding Compliance with NACE MR 01-75/ISO 15156 when applicable.
Seals and Gaskets	RPTFE, PEEK, and NYLON grades seat inserts, Metal with TCC, CCC or Stellite PTFE lip-seals, Metallic, Graphite and V-Packings
Operation	Manual with Lever or Gearbox w/handwheel Actuation: Electric, Pneumatic and Hydraulic actuators
Product Certifications and Qualifications	API 6D, API 6A, PED 2014/68/EU, SIL 3 to IEC 61508 Parts 1-7:2010 ISO 15848-1 for Fugitive Emissions (to be confirmed case by case) Fire Safe ISO 10497, API 607 or API 6FA
Applications	The Top Entry Ball design is the most commonly used in the upstream, midstream and downstream sectors of the Oil & Gas Industry. Offshore FLNG Onshore Production Refining & Petrochemical Onshore Treatment Offshore Platform & FPSO