



# BALL VALVES SIDE ENTRY HIGH TEMP. Trunnion Mounted

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

Description	Product Features and Options
<b>Pibiviesse valve models</b>	E series
<b>Main Standards and Codes</b>	API 6D & IOGP S-562, API 6A, ASME B16.34, ASME VIII, NACE MR 01-75/ISO 15156
<b>Body design</b>	2 or 3 piece Split Body Bolted
<b>Size range</b>	API 6D: from 2" to 60" API 6A: from 1.13/16" to 20"
<b>Pressure Ratings</b>	ASME 150# to 2500# API 6A 2000 to 10000 psi
<b>Design Temperature range</b>	-46 / 650°C
<b>End Connections</b>	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.
<b>General Design features</b>	Full and Reduced Bore Long Pattern Spring Energized Floating seats Bidirectional, Bidirectional preferential or Unidirectional Anti-blow out stem Anti-static design Flushing Points on Seats Emergency sealant injection on stem Fire Safe
<b>Ball-to-Seats seal</b>	Soft, Metal-to-Metal
<b>Seat design</b>	SPE (Self Relieving), DIB-1, DIB-2
<b>Optional Design features</b>	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 sand/debris in dirty service Quick operation ≤ 3 secs for HIPPS applications
<b>Materials Selection</b>	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 Compliance with NACE MR 01-75/ISO 15156 when applicable.
<b>Seals and Gaskets</b>	RPTFE, PEEK and NYLON grades seat inserts, Metal with TCC, CCC or Stellite PTFE lip-seals, Metallic, Graphite and V-Packings
<b>Operation</b>	Manual with Lever or Gearbox w/handwheel Actuation: Electric, Pneumatic and Hydraulic actuators
<b>Product Certifications and Qualifications</b>	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
<b>Applications</b>	The Side 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