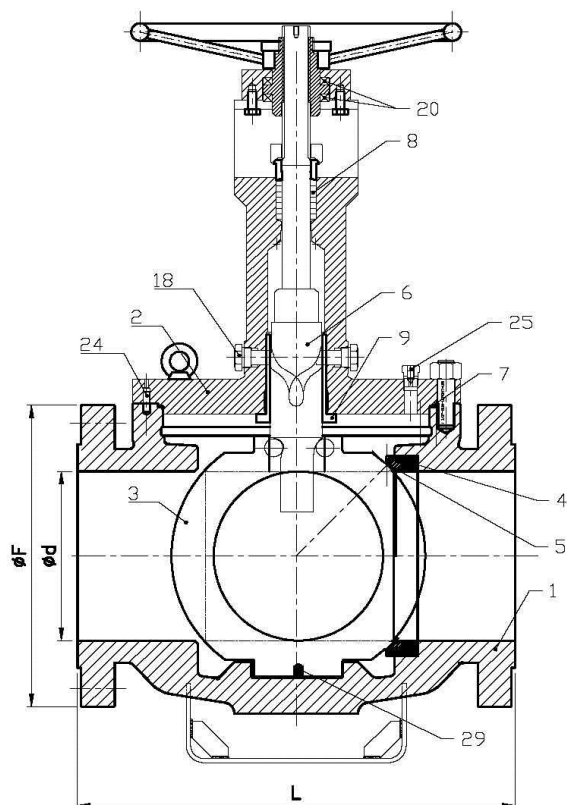


## Trunnion Ball valve Top Entry - Rising Stem

**Specially designed for Molecular Sieve application it can be used effectively in dirty services. The ball movement off the seats allows a cleaning action of the ball surface thus eliminating the friction during opening / closing actions and allowing for reduced torque / thrust during operation.**



### GENERAL APPLICATIONS

ERRESSE Top Entry Rising Stem Ball valves are suitable for Molecular sieve dehydration, dryer switching, suction and discharge isolation, heat transfer, flowlines, Emergency shutdown, etc.

### MATERIALS OF CONSTRUCTIONS

Low Temperature and Low Alloy Carbon Steel, Stainless steel, Duplex and Super Duplex, Nickel alloys

### APPLICATIONS

UTILITY

CORROSIVE & DIRTY

LOW TEMPERATURE

HIGH PRESSURE

### TECHNICAL DATA

Design	API 6D, API 600, ASME B16.34, ISO 14313, ISO 10423, ISO 17292
Design pressure	ASME B16.34, API 600
Body wall thickness	ASME B16.34, ASME VIII Div. I, ASME VIII Div. 2, ISO 17292, API 600
Face to Face	API 6D, ASME B16.10 Long pattern
Temperature range	-196° to 600°C (-320° to 1112°F)
Pressures range	PN20 (ANSI 150) to PN420 (ANSI 2500)
Size range	DN50 (2") to DN600 (24")
End connections	ASME B16.5 ≤ DN600 (24") Flanged RF, FF, RTJ MSS-SP-44 = DN550 (22") Flanged RF, FF, RTJ ASME B16.25 Butt-Weld BW Clamp (HUB)

### STANDARD FEATURES

Construction	One piece bolted bonnet
Port	Reduced bore, full bore or fully piggable
Stem retention	Anti blow-out stem
Sealing	Single seated bi-directional, with preferential flow direction, to avoid pressure trapped between the seats. Metal seated with Tungsten or Chrome Carbide coating; Soft seated with thermoplastic polymers (Nylon, Devlon, PEEK, PCTFE), special polymers upon request
Leakage rate	ISO 5208 rate A soft seated, rate B, C, D metal seated
Operating Description	The movement of the ball tilted from the seat before starting the rotation eliminates the wear of the seat seal and allows for smooth movement and low torque. The same tilting movement when starting the opening allows for a cleaning flow all around ball surface; this flow automatically flushes the ball surface removing eventual dirt particles from the sealing areas
Grease injectors	Available on request on both seats and stem
Drain / Vent	Drilled and threaded connections for all sizes, Vents for sizes below DN
Vent	Drilled and threaded vent connections for sizes ≥ DN150 (6") < DN150 upon request
Lifting points	Included for sizes ≥ DN150 (6") or on valves of 250 kg min
Support feet	Included for sizes ≥ DN150 (6") or on valves of 250 kg min
Stem extension	Available for applications in low/cryogenic temperature applications or for high temperature application
Valve operation	Handwheel, Gear box or Actuator with position indicator and locking device
Material testing	Pressure containing & controlling parts to EN 10204 3.1 Materials in Sour Service according to NACE MR0175, MR0103, ISO 15156 Non-destructive testing (NDT) to API 6D, ASME B16.34
Valve testing	Hydrostatic & pneumatic testing to API 6D, ASME B16.34, ISO 5208 (other upon request)

### APPROVALS

Safety Integrity Level	SIL 3
Fire Safe	API 607, API 6FA, BS 6755, ISO 10497-5
Area Classification	ATEX 94/9/EC
Pressure Equipment Directive	PED 97/23/EC
Fugitive Emission	ISO 15848/1, ISO 15848/2
Construction	API 6D, API 6DSS