Product description:
ASME B16.34,ISO 17292 design standard
Features:
Blow-out Proof Stem
The lower end of the stem is T-shaped structured, protected by boss of body, which assures stem retention at any pressure and acts as backseat.
Anti-static Device
A spring-loaded plunger fitted on stem keeps constant contact between ball, stem and body to create an electric path to transfer charges, avoiding acceleration of static electricity as a result of friction during valve on-off. Such build-up is utterly hazardous to some services.
Fire Safe - Metal to Metal Sealing
When soft seats are decomposed or ruined by fire, the ball, driven by pressure, comes into contact with the metal lip seal seat of original soft seat, creating a metal-to-metal seal to shut off service fluids and minimize internal leakage. Additionally, the fire safe metal seat prevents damage the medium imposed on soft seat and minimizes creep of nonmetal materials. All the Cowinns floating valves are designed to be fire safe per API 607 and are tested and certified by the third party
Roughness control over stem and packing
Stem surface roughness is strictly restricted between Ra0.4 and Ra0.8, which ensures entry of graphite packing powder into tiny stem scratches to function as a lubricator, minimizing leakages around stem. Max. roughness of stuffing box is RA3.2, which is a proper value to hold packing ring in place and result in better sealing performance
Low Emission Packing
The packing is combination of parallel and vertical layer which is made of die-formed graphite ring processed by flexible graphite, characterizing heat resistance, less stress relaxation and low creep. The special structure means low friction on rotary stem, providing stabilized seal capability for the valve for a long time under frequent functioning.
For low-temperature and cryogenic service, the standard V shape PTFE packing rings are installed for low emission control.