

Enviro-Safe Ball valve (ES Series)

Corrosion resistant valves for critical applications.

Designed, Mfg. & Sales by: Mevada Engineering Works Pvt.Ltd. (MEWPL)

General Descripion

MEWPL has launched a high range of Enviro-Safe Ball Valves to address the major issue for the Environment Safety for today & future.

MEWPL's primary aim was to design a range of Class 150/300 ball valves to prevent external leakage in demanding applications such as highly toxic media (phosgene, chlorine etc.) or with very costly media where wastage is unacceptable.

Experience has shown that repeated valve operation eventually causes wear in the stem sealing area and this leads ultimately to external leakage



Applications

The Enviro-Safe valve can be prepared for use on chlorine, including the supply of ball, stem and related parts in either Hastalloy or Monel as required.

In addition the valve can be used in numerous applications including phosgene, hexane, toluene, ethylene oxide,*T.C.A.I., Ionone, hydrogen, high temperature thermal fluids, super-heated steam and many others

A further use for the Enviro-Safe is on high cycling duty, where the design of the valve ensures significantly extended life and minimal maintenance. *Tri-chloro-acetal-isocyanate

DESIGN FEATURES



GLAND PLATE DESIGN STACKED CHEVRON (SECONDRY) LANTERN RING SELF GUIDED SEAL (PRIMARY) BLOW-OUT PROOF STEM

Enviro Safe leak proof gland construction

MEWPL's Enviro-Safe range of ball valves has a high cycle life at an increased range of temperatures and pressures. At the heart of the valve's high integrity performance is its dual stem packing. The unique primary seal is designed so that it will always fail in service BEFORE the secondary seal. With a monitoring port drilled through to a lantern ring which is located between the two sealing stages, primary seal leakage can be detected whilst the secondary seals ensure overall integrity. This unique and foolproof stem packing design is live loaded with stainless steel disc springs and has been proven in testing to be bubble-

tight on helium even after primary seal leakage. Primary seal integrity can then be restored by simply tightening down the gland plate

The Enviro-Safe features stem purge boss which is tapped to 1/4" NPT standard threads that allows connection of instrumentation/sensing devices.

Monitoring / Purge port

Enviro Safe valves are provided with special purging port in Stuffing box either to monitor the leak pressure via using sure gauge etc. or by installing supplimentary valve for purging any inhert gas to stop the line pressure leak in atmosphere.

One Piece Design



Joint less design makes it suitable for applications where leakage to the atmosphere is not acceptable.

Antistatic Device

When static charge is generated due to high velocity of working fluid & gets concentrated on the ball,spring loaded ball between ball to stem & stem to body discharges static electricity.





Seat Design

The special design seat feature with relief slots on seat O.D.Relives cavity pressure developed in cavity of body to upstream seat. This design reduces friction, minimize seat wear and lowering operating torque.





Dual body Seals

Double body seals ensures positve body joint sealing against pipeline stresses. Step is provided with 'O' ring as inner body seal that prevents the contact of the fluid with the outer body seal of graphite having pure carbon.

ISO 5211 Mounting Pad

All our ball valves are equipped with Integral mounting pad as per ISO 5211 that facilitates easy mounting of hardware viz. Pnumatic Actuator, Gear Box, Limit Switch, Locking Arrangement, etc.



Contact : Unit no.1, Plot No.9, Mistry Indl.estate, I.B.Patel Road, Goregaon (E), MUMBAI- 4000 063.INDIA

Tel. :+91-22-42523200 Fax : +91-22-42523202 E mail: sales@saturnvalves.com

While the information and specifications contained in this literature are believed to be accurate, they are supplied for informative purposes only and should not be considered certified or as a guarantee of satisfactory results by reliance thereon. Nothing contained herein is to be construed as a warranty or guarantee, express or implied, regarding any matter with respect to this product. Because MEWPL is continually improving and upgrading its product design, the specifications, dimensions and information contained herein are subject to change without notice. Should any question arise concerning these provisions, the purchaser/user should contact MEWPL at our factory or sales office.

