

**MOUNTING AND STEM SEAL DESIGN (Figure 2)****Actuator Mounting (ISO-5211)**

All **KUKA** flanged end products shall have an integrally cast (ISO) actuator mounting pad. This feature provides for direct mount of gear operators or actuators. The additional cost for a separate mounting bracket is eliminated.

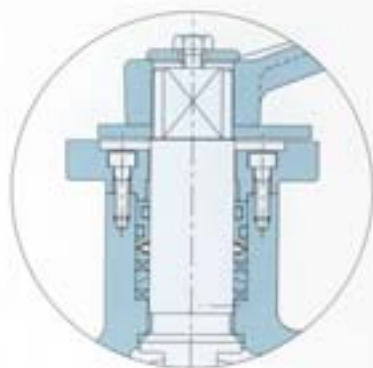


Figure 2

**Live-Load Stem Seal**

This option provides premier valve stem sealing characteristics for adverse conditions of extreme pressure/Temperature variations. Designed to meet the most stringent fugitive emission regulations, the **KUKA** "live-load" design is comprised of an extra deep stuffing box/packing /stem seal retainer and conical disc spring(s). The disc spring(s) provide continuous compression of the packing assembly and compensate for wear, the static sealed retainer, with two(2) tertiary O-Ring seals, eliminates stem galling. This unique design lowers required valve stem torque and increases product performance under all operating conditions.

(U.S. PATENT PENDING SERIAL NO. 081967, 620)

**ANTI-STATIC DESIGN (BS5351)****Figure 3**

Ball valves present a particular problem with the build up of static electricity around the ball. All **KUKA** ball valves have anti-static design which provides contact between stem and ball, and stem and body to eliminate static electricity.

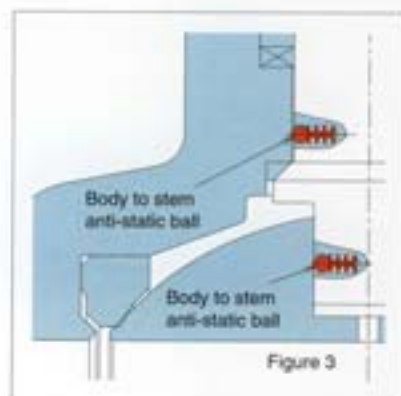


Figure 3

**FIRE SAFE DESIGN (API 607)****Figure 4 & 5**

In the event of a fire, the valve is required to make a downstream seal. Even after the disintegration of the TEFLON seat **KUKA** ball valves provide an excellent metal to metal seal. Special attention has been paid to the mechanical strength and sealing efficiency of the central flanged joint of the valve body & cap. Heavy castings & graphite filled spiral wound gasket assure **zero** leakage between body and cap.

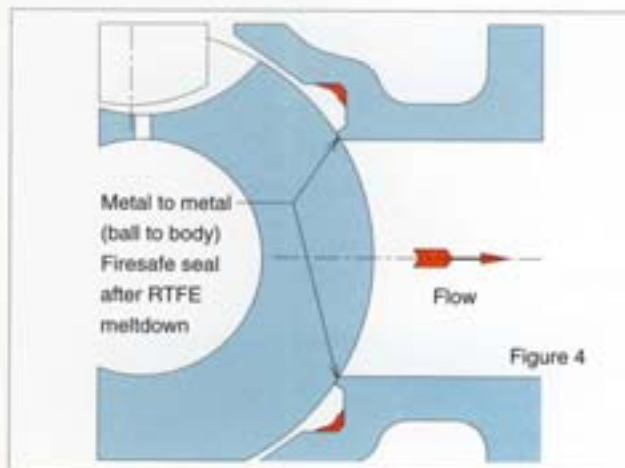


Figure 4

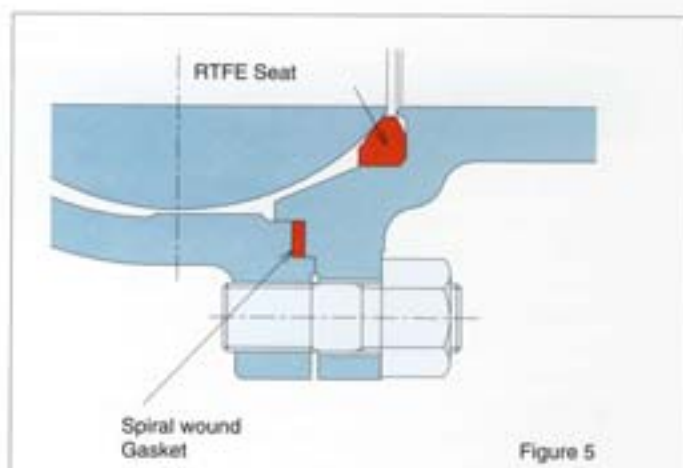


Figure 5