VALVE OPERATION

Opening the Valve: Turn the hand-wheel counter clockwise. During this operation the plug is raised while the slips are retracted away from the body. When the slips are fully retracted from the body seating area, the plug is then able to rotate 90 degrees to the fully open position. When the valve is in the full open position, the slips and slip seals are completely protected from line flow.

Closing the Valve: Turn the hand-wheel clockwise. During this operation the retracted plug and slips are rotated 90 degrees without body contact. This rotation continues until the slips are positioned over the upstream and downstream port areas. Continued rotation of hand-wheel mechanically forces the plug downward and forces the slips outward to seal firmly against the valve body. This produces a secondary metal to metal seal on both upstream and downstream areas providing double isolation.

APPLICATION NOTES

- **Biofuels Product Isolation:** Secure sealing of Biofuels is critical in protecting the environment. The Duraseal® DBB with its verifiable secure shutoff is perfect when process must be contained.
- **Multi-Product Manifolds:** Some pipeline manifolds need to flow various products (e.g. diesel, jet fuel, gasoline, etc.) reliably and without contaminating one another. This DURASEAL® DBB Valve is used to provide positive shut off and zero leakage to prevent cross contamination.
- **Prover Loops:** In prover loops, the calibration of flow meters requires that every valve in the system must have zero leak rates. Any leak could mean an error in calibration. The DURASEAL® DBB Valve is used to ensure that when the valves in the system are closed, they are leak tight.
- **Custody Transfer Units:** Transfer of valuable media relies on accurate measurement of product. The DURASEAL® DBB provides secure tight shutoff ensuring that the transfer is accurate.
- **Terminals:** Loading and unloading tanker vessels requires positive sealing in order to prevent spillage into the water. The DURASEAL® DBB provides such positive sealing and is the most reliable in the market.
- **Tank Farms (Oil Depots):** Valves used for tank isolation needs to work reliably with zero leak rate. These valves are also operated frequently. The DURASEAL® DBB valves provide a reliable long term high integrity seal designed for frequent use with verifiable zero leak.
- **Aviation Fueling Systems:** Fuel hydrants at airports need to allow for quick maintenance, repair, leak locating and testing. This requires a valve that can close quickly and positively seal off the relevant sections. The DURASEAL® DBB Valve's variable zero leak rate ensures that maintenance, repair, leak locating and hydrant testing can be done quickly and safely. Import/Export Facilities.
- **Offshore Platforms:** Secure shutoff is imperative on an offshore platform in that leakage can result in contamination of the water and possible equipment damage. The DURASEAL® DBB is the best choice for low pressure positive shutoff.
- **Blending Units:** The accurate blending of high grade fuels requires valves of high sealing integrity to insure accurate addition of additives in blending operations.