

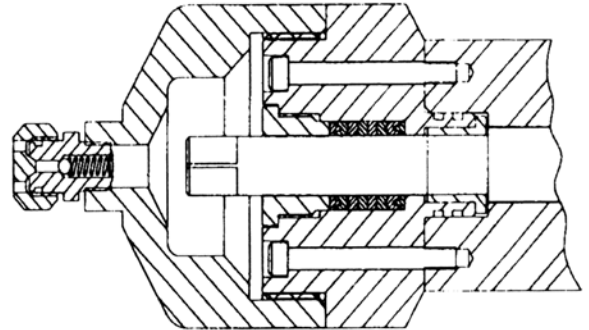


## Gland Designs

### Gland “SP”

A subsea gland with a protective shaft cover, rechargeable shaft seals, and a unique feature which allows the shaft to remain stationary while the clapper and arm assembly operate freely.

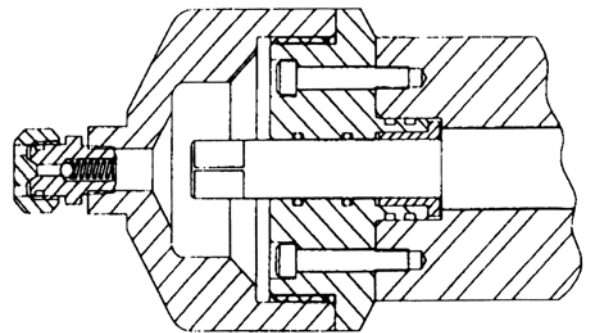
The shaft seals (PTFE-Chevron style packing) can be re-energized while the valve is still in service using the injection and bleed fittings located on the outside diameter of the gland body.



### Gland “SS”

A subsea gland with a protective shaft cover which features dual o’ring style shaft seals.

The pipeline has to be shut-in to replace the shaft seals in the event of a shaft leak.

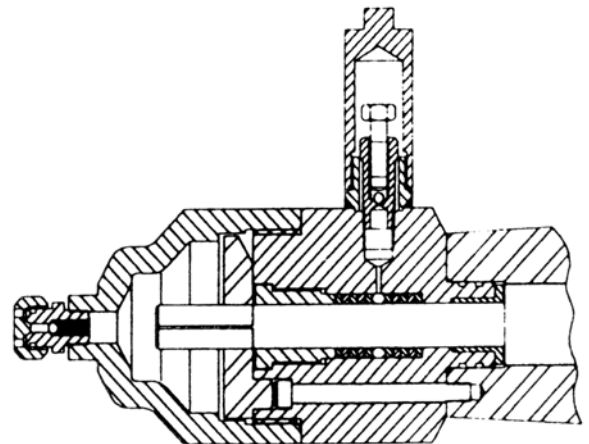


### Lock Open Features

**Internal Lock Plate** a self-contained type of lock device which is stored in the gland cover assembly when not in use.

**External Lock Lever/Lock Pin Assembly** the same type of “SP” gland is used, however the clapper is locked in the open position using a lock open lever (wrench), lock pin and lock boss.

**External Worm Gear** the standard gland “SP” body is modified to allow the mounting of a worm gear actuator.



*internal lock plate design*