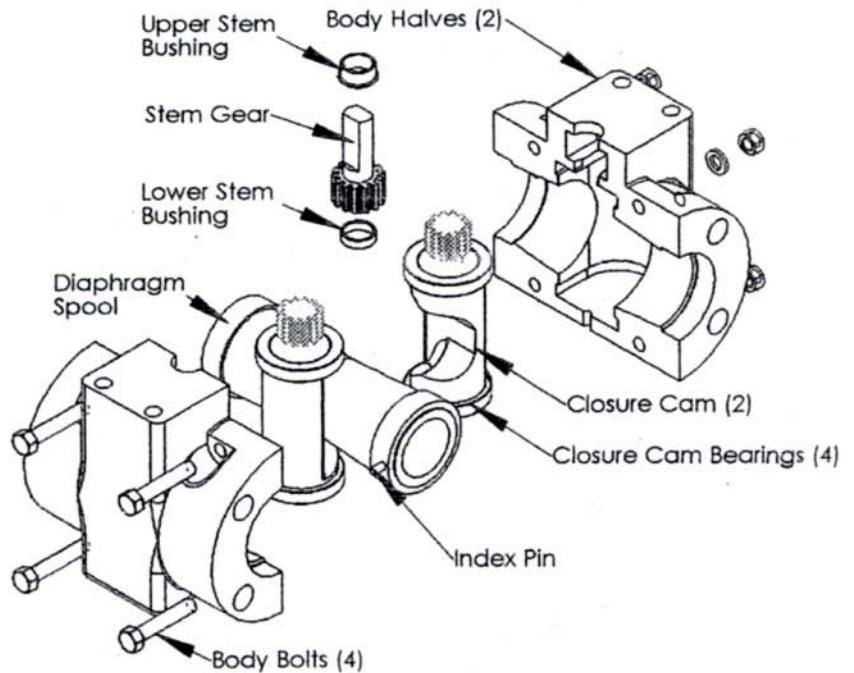


## SERIES-22

### Dia-Cam Pinch Valve Quarter-Turn



#### INSTALLATION OF VALVE

1. Install valve between pipe flanges with properly sized bolts.
  2. Flange gaskets are NOT to be used. A molded sealing bead in each face of the DIAPHRAGM SPOOL serves as the process fluid seal.
  3. Leave bottom port open. Leakage of process fluid at this port signifies failure of SPOOL.
- WARNING: DO NOT INSTALL VALVE IN A HYDRAULICALLY LOCKED LINE.**

This valve displaces process fluid as it closes. If the pipeline is hydraulically locked, the valve may not be able to be closed.

#### OPERATION OF VALVE

1. Valve is quarter-turn, 90 degree reversing, clockwise to close
2. For MANUAL operation, a spring-loaded lever and detent plate are provided to secure the valve at six discrete angle positions.
3. For AUTOMATED operation, an actuator package is fitted to the valve with a bracket and shaft coupling.

#### DIAPHRAGM SPOOL REMOVAL

1. If valve is fitted with an actuator, remove all service connections to the actuator first. Then unscrew four (4) bracket bolts, lift actuator off valve; remove shaft coupling. Remove four (4) valve body bolts and nuts, separate body halves and remove DIAPHRAGM SPOOL
2. If valve is fitted with a spring-loaded lever, unscrew handle retainer bolt. Lift off valve handle, unscrew detent plate bolts (2) and remove handle detent plate. Remove four (4) valve body bolts and nuts, separate body halves and remove SPOOL
3. Remove stem gear assembly

#### DIAPHRAGM SPOOL INSTALLATION

1. Lift out closure cams with cam bearings from valve body halves and clean all body half, cam, bearing and gear surfaces. Apply Dow 111 silicone lubricant to gears and cam surfaces. Reinstall the closure cam and bearings into each body half..
2. Place one body half/closure cam assembly onto a flat surface, with cam in open position. Install stem gear assembly into this body half.
3. Outside surface of replacement DIAPHRAGM SPOOL is coated with silicone lubricant(Dow 111) which is compatible with the DIAPHRAGM SPOOL elastomer. Place the SPOOL into the other valve body half, aligning the index pin on the SPOOL Ring with the hole in the valve body half.
4. Gripping this body half/closure cam/SPOOL assembly with two hands (holding the SPOOL against the body half at each end so that the SPOOL and cam do not fall out), turn this assembly over and place it on the other body half assembly. Install body bolts and nuts.
5. For automated valve, replace bracket, coupling and actuator. For manual valve, install handle detent plate and spring-actuated lever assembly.