

# Morpac/Memco

## Operating Mechanisms

Complete manual operating mechanisms are supplied with all group operated switches. Included are operating lever, vertical pipe control, outboard bearing, interphase pipe, levers, clevises, couplings and intermediate guides. Either torsional or reciprocating types are supplied, as best suits each individual installation. A toggle arrangement is used in both types of controls to mechanically lock the switch in the open or closed position. Means are also provided to padlock the handle in either position. Position indicators to show OPEN or CLOSED are available at extra cost. Flexible grounding braid is supplied with pipe controls. Turnbuckles and insulating fiberglass or porcelain inserts for pipe controls as well as kirk key interlock provisions are available at extra cost.

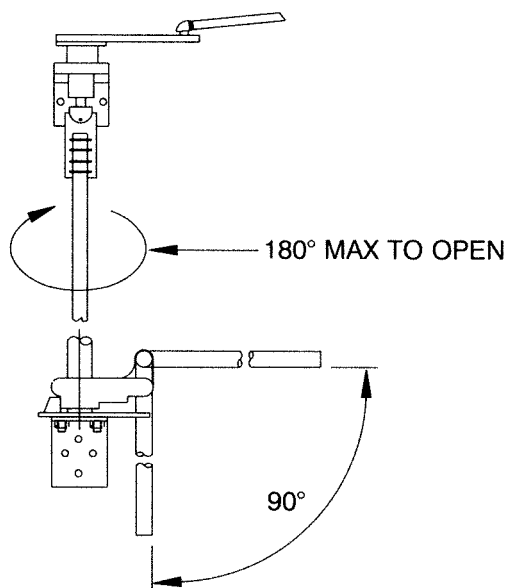
SWITCHES THROUGH 69 kV are supplied with up to 30 feet of galvanized vertical pipe, with intermediate guides and fittings, as standard. Additional lengths, with intermediate guides and fittings, are available at extra cost. The outboard bearing is bronze and requires no maintenance.

SWITCHES RATED AT 115 kV AND ABOVE are supplied with up to 40 feet of galvanized vertical pipe as standard. Additional 10' to 20' sections with intermediate guides and fittings are available at extra cost. The outboard bearing is a heavy duty greaseless type ball bearing unit with stainless steel balls. It will give a lifetime of dependable maintenance-free service under the most adverse conditions.

Manual worm-gear operators are available for either right or left hand operation. The units are designed for dependable service with minimum maintenance and are shipped completely lubricated and adjusted.

Motor operators and auxiliary switches are available to meet any requirements. Please refer to the factory for specific information and prices.

### TORSIONAL HANDLE ASSEMBLY



### RECIPROCATING HANDLE

