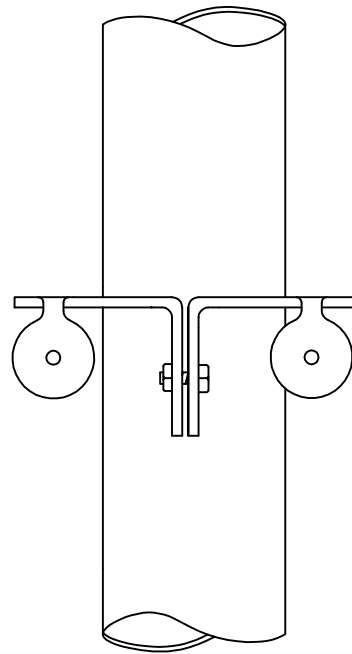
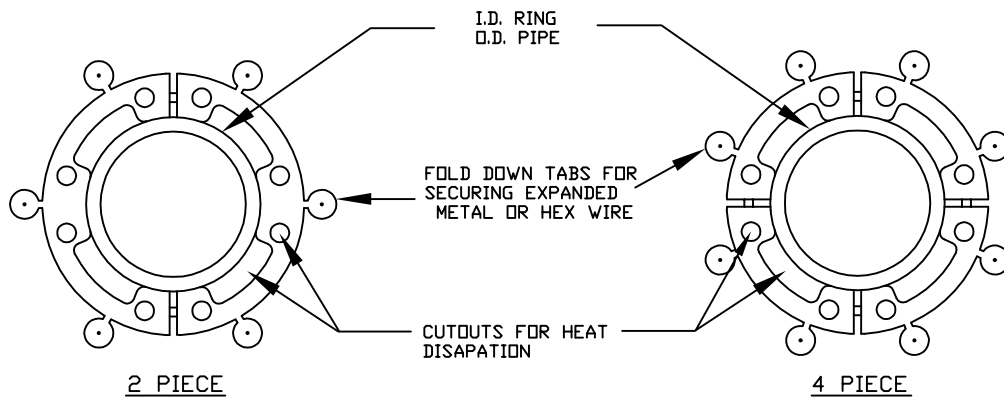


THERMAL STANDOFF RINGS



Notes:

1. TSR's can be manufactured without cutouts for heat disipation if specified.
 2. TSR's can be manufactured from many types of materials but unless specified 16 gauge galvanized steel is used.
 3. TSR's are easily installed using a battery drill or ratchet to install the screw into the prepunched holes.
 4. The fold down tabs are easily folded 90 degrees either by hand or with a pair of pliers.
 5. Then install either expanded metal or square welded wire (which ever is specified by the client) to the outside of the TSR securing with TEK screws on the fold down tabs.
 6. The standoff distance is normally 1" per 100 degrees of temperature farenheight but is usually specified by client. So a pipe at 325 degrees F will be 3" of standoff and so on.
 7. The distance between standoffs is normally specified at 18" apart but is still very stout at 24" intervals.
5. Patent Pending.

DATE: Mar/2015	PERSONNEL PROTECTION STANDOFF	REV
SCALE: None		E
DRAWN: T.J.	GULF COAST MANUFACTURING PORT ARTHUR, TEXAS gcmfg.net	Drawing Number TSR-1503-1
APPR'D: D.J.		