

Under-oil Arrester Disconnecter

GENERAL

The RTE® Arrester Disconnecter* provides the transformer manufacturer or utility with a means of disconnecting and reconnecting the under-oil arrester ground for transformer testing. It is designed for mounting (secured from inside the tank) in transformers filled with transformer oil, R-Temp® fluid, or an approved equivalent.

The Arrester Disconnecter was designed to withstand surge current as specified in ANSI/IEEE C62.11-1993 as well as hi-pot and impulse requirements specified in ANSI/IEEE C57.12.00-1993.

The elliptically shaped shaft prevents the arrester ground lead from being rotated during operation of the disconnecter. The mating corrosion resistant, aluminum seal gland incorporates two Viton® O-Rings for double leak protection.

The shaft and handle are molded of UV stable polymer materials for long term durability. The gasket surface provides a controlled compression and containment of the highly resilient Buna-N rubber gasket.

A threaded (1/4-20 x .56" long) stud is provided for easy arrester ground lead connection.

INSTALLATION

The Arrester Disconnecter is installed into an industry standard, 1.325" diameter, keyed (.14 radius) hole from the inside of the tank. It is internally secured and positively grounded with a metal UL approved electrical grounding conduit lock nut. Refer to Service Information Catalog Section S800-51-1 for installation instructions.

*Patent Pending

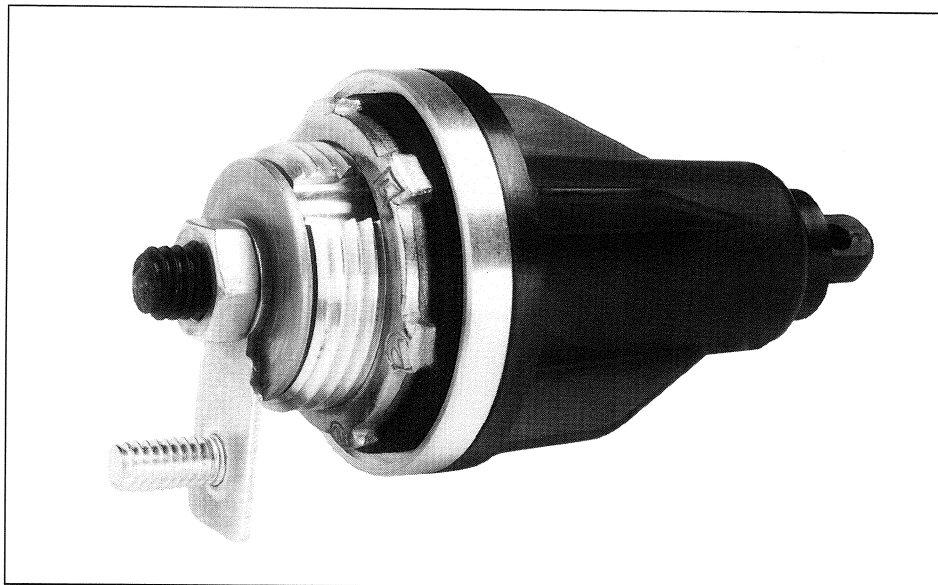


Figure 1.
Arrester Disconnecter (shown with standard padlocking provision, in the closed position).

TABLE 1
Voltage Ratings and Characteristics

Description	kV	kA
Standard Voltage Class	35	—
AC 60 Hz. 1 Minute Withstand (in Open Position)	50	—
BIL (Full Wave Crest) (in Open Position)	150	—
BIL (Chopped Wave) (in Open Position)	175	—
Discharge Current Withstand (in Closed Position)	—	100

Features and Detailed Description

Quality from
Cooper Industries

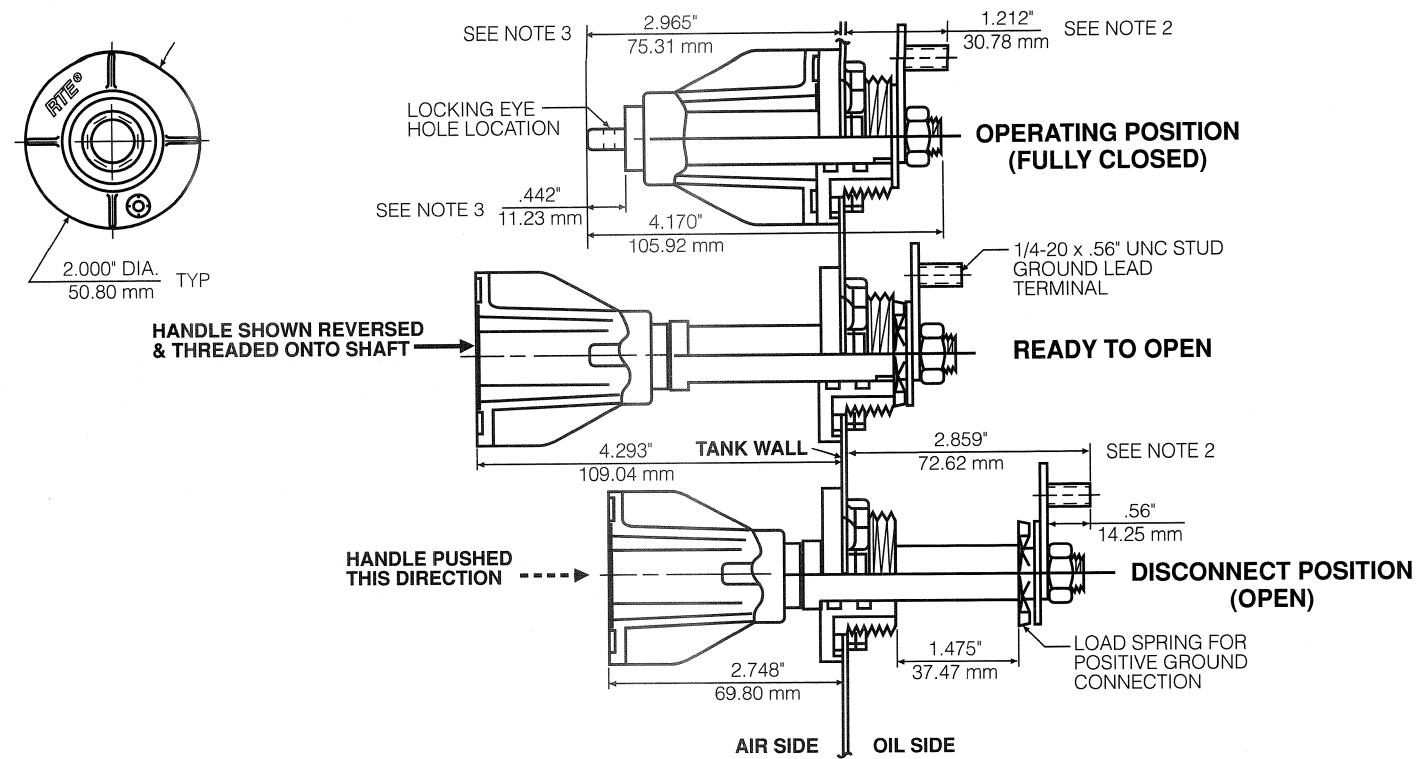


Figure 2.
Arrester Disconnecter shown with standard locking provision.

NOTES: 1. Dimensions given are for reference only.
2. Dimensions given using a 14-gage tank wall. Designed to accommodate tank wall thicknesses — 14-gage to 5/16".
3. Dimensions shown include additional .442" (11.23 mm) for locking provision. Locking eye hole diameter for padlock provision is .172" (4.36 mm). Without locking provision, air side extension dimension is reduced from 2.965" (75.31 mm) to 2.523" (64.08 mm).

ORDERING INFORMATION

To order an RTE Arrester Disconnecter, specify the item from Table 2.

TABLE 2
Arrester Disconnecter

Description	Catalog Number
Arrester Disconnecter with Standard Locking Provision and Corrosion Resistant Aluminum Sealing Gland	AD150PA100
Arrester Disconnecter (No Locking Provision) with Corrosion Resistant Aluminum Sealing Gland	AD150NA100
Gasket*	0537980C14
Decal*	1139140B01

*Gasket and decal are included with Arrester Disconnecter.
NOTE: For special requirements, consult factory.

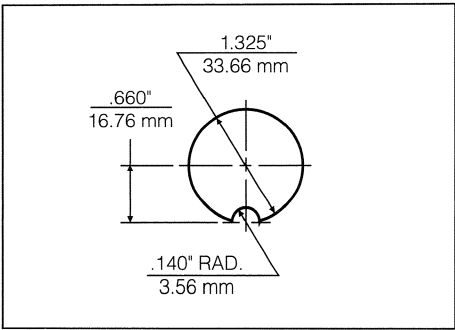


Figure 3.
Mounting hole.