

TW80 Radiators Valves

Instruction for maintainance and for dismounting and mounting radiators

INDICE

- 1.0. SCOPE
- 2.0. RADIATORS VALVES
- 3.0. OPERATION
- 4.0. MOUNTING AND DISMOUNTING RADIATORS
- 5.0. MAINTANANCE AND REPAIRING
- 5.0. DISCLAIMER OF WARRANTIES AND LIMITATION OF LIABILITY

1.0. SCOPE

This leaflet contains general procedures to be followed from the time the transformers and their accessories are received, until they are put in operation. These instructions do not purport to cover all possible contingencies which may arise during installation, operation, or maintenance, and all details and variations of this equipment. If you require additional information regarding this particular installation and the operation or maintenance of your equipment, contact CEDASPE S.p.a.

2.0. RADIATORS VALVES

The TW80 radiator valves are butterfly type design and are used in transformers equipped with fin type radiators. This valves allow individual isolation of radiators to remove them or repair them without losing oil of the transformer tank. The cooling equipment can be removed for shipment, in this case the radiator valves are closed and blind flanges put on the openings.

3.0. OPERATION.

Figure 1 shows a radiator valve in the open position.

To open the valve remove the locking device (if present) and turn the operating handle approximately 90° counter clockwise; then install the locking device (if present) in the new position to lock the valve.

To close the valve invert the procedure.

4.0. MOUNTING AND DISMOUNTING RADIATORS

For dismounting and mounting radiators, please below procedure has to be executed

- 1- Be certain the valves to which radiator is connected are in closed position
- 2- Drain out oil from radiator
- 3- Remove for each valve the 4 nut and screws pos 1 and pos 2 (ref to fig. 2)
- 4- The radiator can be removed

To mount radiator on transformer invert the procedure; we suggest to change the flange o-ring even if they are not visible damaged (this in order to reduce risk of leaking when radiator is put on service).

5.0. MAINTANANCE AND REPAIRING

Valve TW80 doesn't need a specific maintainance.

Check periodically not to have any leak from spindle or from connecting flanges

If a leak of oil is detected from spindle following procedure have to executed (ref to fig. 3)

- 1- Be certain the valve is in closed position
- 2- Remove elastic pin pos 9
- 3- Remove drive pos 4
- 4- Remove screws pos 11
- 5- Remove gland pos 5
- 6- Remove o-ring pos 7 and change it with a new one (before lubricate it with appropriate compound)
- 7- Mount gland pos 5
- 8- Mount screws pos 11
- 9- Mount drive pos 4
- 10- Mount elastic pin pos 9
- 11- Open the valve and check not to have any leakage.

If leakage remain and procedure has been correctly executed, the valve is damaged and have to be changed.

If leak is detected from radiator flange, radiator has to be removed and flange o-ring have to be changed; to do so please refer to pos 4.0 of this leaflet

If leak is detected from transformer flange o-ring has to be changed; to do so, radiator has to be removed first and subsequently the valve itself

5.0. DISCLAIMER OF WARRANTIES AND LIMITATION OF LIABILITY

There are no understandings, agreements, representations or warranties, expressed or implied, including warranties of merchantability or fitness for a particular purpose other than those specifically set out by an existing contract between the parties any such contract states the entire obligation of seller.

The contents of this document shall not become part of or modify any prior or existing agreement, commitment or relationship.

The information, recommendations, description and safety notations in this document are based on our experience and judgement with respect to transformers; this information should not be considered to be all inclusive or covering all contingencies; if further information is required CEDASPE S.p.a. should be consulted.

No warranties, expressed or implied, including warranties of fitness for a particular purpose or merchantability, or warranties arising from course of dealing or usage of trade, are made regarding the information, recommendations, descriptions and safety notations contained herein. In no event will, CEDASPE S.p.a. be responsible to the user in contract, in tort (including negligence), strict liability or otherwise for any special, indirect, incidental or consequential damage or loss whatsoever including but not limited to damage to or loss of use of equipment, plant or power system, cost of capital, loss of profits or revenues, cost of replacement of power, additional expenses in the use of existing power facilities, or claims against the user by its customers resulting from the use of the information, recommendations, description and safety notations contained herein

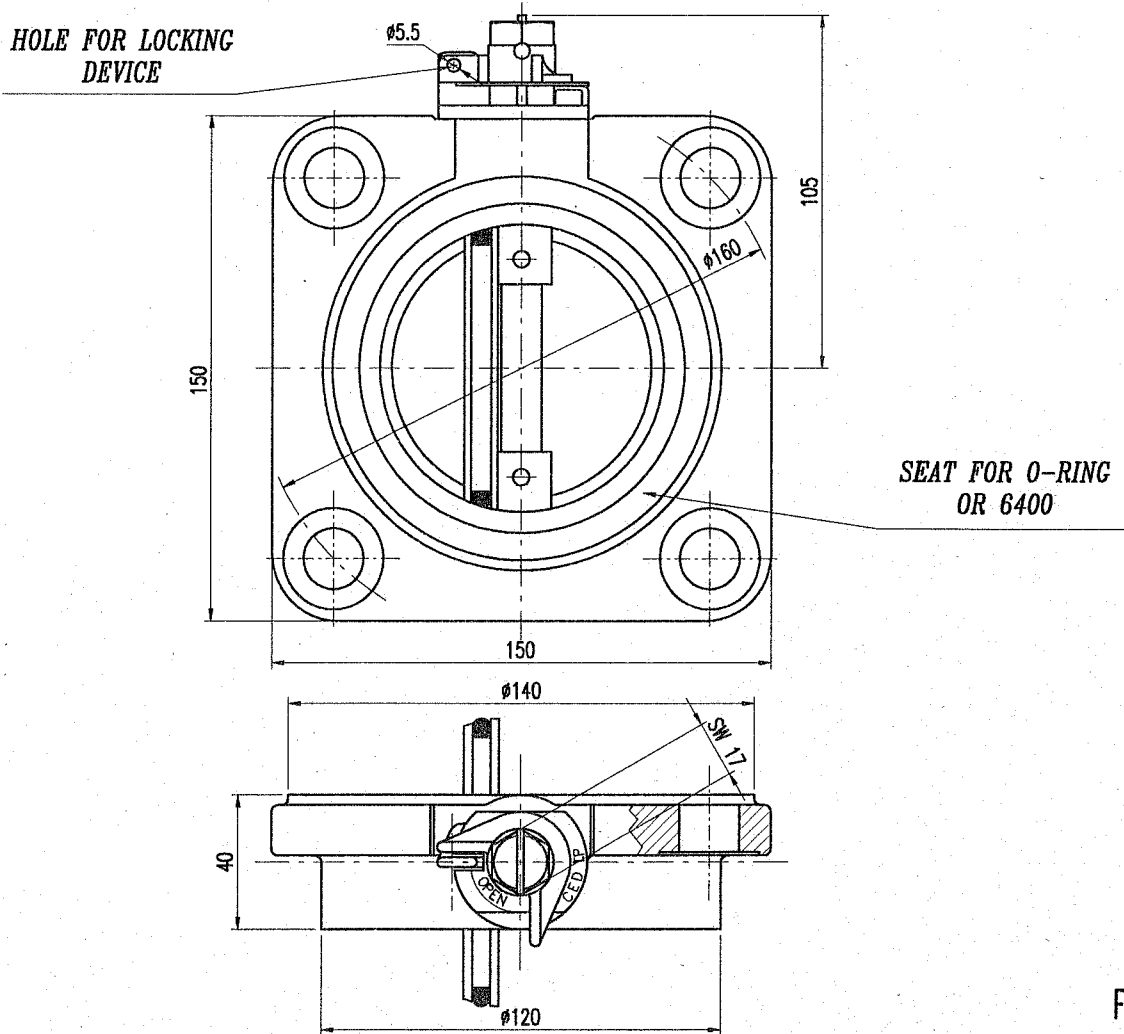
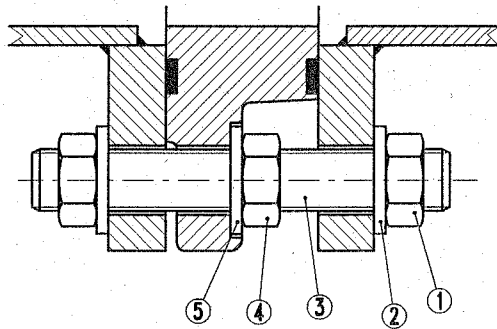


FIG.1

Mounting between flanges

TRANSFORMER SIDE

RADIATOR SIDE



TRANSFORMER SIDE

RADIATOR SIDE

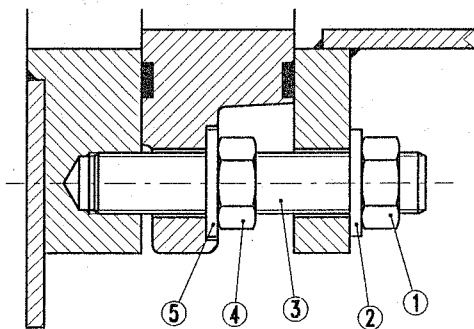


FIG.2

Assembly sketch showing gasket replacement

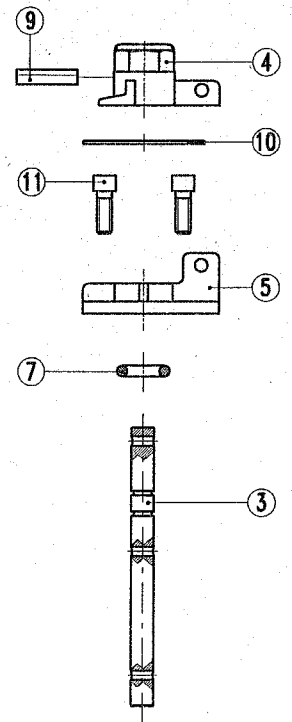


FIG.3