OMLAA METAL
INTERNATIONAL

Buchholz Relay Testing Device

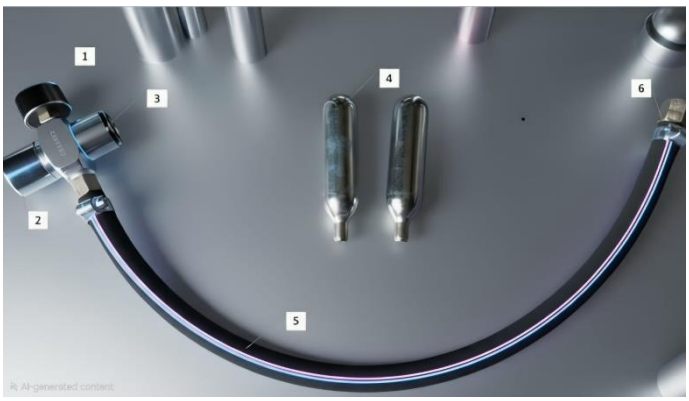


Fig.1

Instruction Manual

DESCRIPTION (as per Fig. 1)

1. Valve body (where to insert cartridges)
2. Output cock
3. Cartridge insertion
4. 16 g CO2 cartridge
5. High pressure flexible tube
6. 1/4” G revolving screw joint

ALARM TEST (for all Buchholz Relay models)

1-Hold the valve body 1 and make sure that output cock 2 is shut (turn clockwise)

2-Carefully screw the cartridge 4 on threaded hole 1/8”G (3) of the valve body till a slight resistance (strength) is perceived

3-Then, to perforate it start quickly screwing the cartridge till it completely stops (fig.2)



Fig.2

4-Make sure that vent cock on relay (fig. 3) is closed (cock handle in horizontal position) before removing the protective plug.

5-Unscrew the protective plug of the vent cock and screw joint 6 on the same (fig.3)

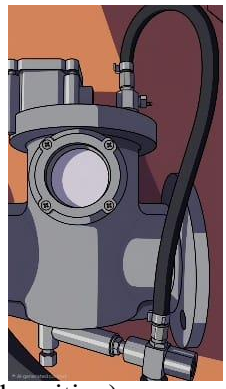


Fig.3

6-Open vent cock (black handle in vertical position)

7-Hold the testing device by avoiding to touch cartridge 4 with hands (use a glove or a cloth).

> *Since the testing device is under pressure the sudden exit of CO2 from the cartridge (gas expansion stage) make cool the metal outside surface of the cartridge.*

8- Carefully open the output cock 2 of the testing device (turn it anti-clockwise) to check alarm is working properly. Then, from the inspection window of the relay, verify the progressive emptying of its upper part, and consequently, the corresponding oil level lowering. As soon as the alarm is operated, close completely the output cock 2 (turn it clockwise).

TRIP TEST FOR BUCHHOLZ RELAY ALL BUCHHOLZ RELAY MODELS

Buchholz Relays have a second cock on their lower part. Trip contact proper functioning can be tested by connecting the test device to this cock.

Make sure that the clock is shut (Black handle or Horizontal position), then remove the protective plug and screw at its place the joint 6 and re open the clock (black handle in vertical position).Quickley open output clock 2 (fig.3). When the sudden gas injection releases trip contact ,close the output clock.

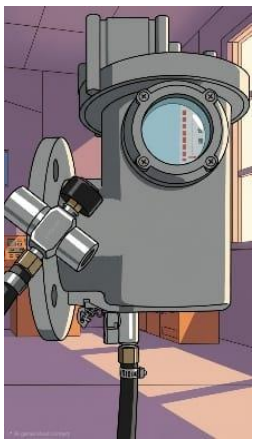


Fig.4

REMOVAL OF TESTING DEVICE

A) Close the vent cock (black cock handle on horizontal position) on which the device is connected (this will prevent oil leakage when joint 6 will be removed)

B) Unscrew joint 6 from the vent cock.

C) Screw the protective plug (the one on the lower part of the relay) if it has previously been used.

D) Carefully open the upper vent cock to allow the exit of the gas inside the relay; when the relay is full, the oil will start to flow out from the cock: shut the cock.

E) Screw the protective plug of the vent cock.

NOTES

F) In case of alarm test (partial emptying of the relay) the charge inside cartridge 4 doesn't run completely out, the cartridge can be re-used for further alarm tests. In this case, please keep the cartridge inside the testing device. The level of the charge can easily be verified by opening the output cock 2 till some gas comes out. To perform a new alarm test with the cartridge still on site, please start from point d) onwards. If the cartridge is exhausted: open the output cock to run completely out of the possible
Remaining charge, then unscrew cartridge 4 from its site and replace it starting from point a).

G) In case of trip & alarm test (Buchholz relays) the charge inside the cartridge is enough only for one test. To perform a new test of both contacts (trip & alarm) open the output cock 2 to run completely out the remaining charge, unscrew the cartridge and proceed from point a).

CONTENT OF THE PACKAGING

Pipe testing device(Qty-1 No.)
16 g CO2 cartridges(Qty-2 Nos.)