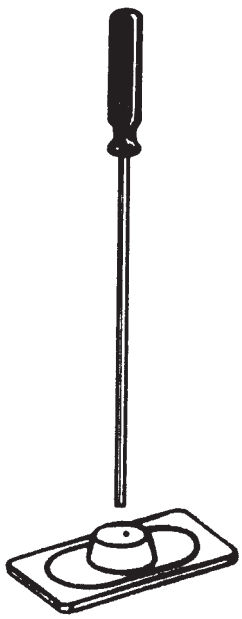
TESTING AND ADJUSTMENT OF REGULATOR TRITON 2000 Art. No. 3750

First stage valve:

I . Connect the regulator to the test box.
2. Connect the LP gauge hose to one of the low pressure outlets.
3. Open the LP valve (= 20 bar),.
4. Set the secondary pressure at 10 bar, and intermittently purge the second stage by means of the button. NOTE that the second stage valve must be fully tight during this test. When the pressure gauge needle stops at the preset pressure, a maximum rise in pressure of I bar is acceptable. If the needle continues to move to a higher pressure reading there is a fault in the seal between the valve seat and the piston or the O-ring.
5. Close the LP valve, and open the HP valve (=200/3OObar). Purge intermittently with the purge button, check the tightness, and adjust the pressure to 8,5-9 bar.



Second stage valve: Tightness test of the low pressure valve and the servo valve.

1. Push the servovalve on the low pressure valve carefully, and purge a few times. Immerse the valve in a water tank and make sure the valve is absolutely air tight.

Checking and adjustment of the inhalation resistance:

1. Connect the oval connecting pipe of the inhalation resistance gauge to the mouth-piece on the regulator.
2. Test-breath. Check the reading of the gauge needle, which should rise to 38-44 mmvp when the valve is opening.
3. Adjustment:
   Remove the cover and the diaphragm.
   Hold the diaphragm center on the center part and push an Allen wrench No. 8510 (1,27 mm) in the adjustment screw.
   If the resistance is too low, turn the screw anticlockwise.
   If the resistance is too high, turn the screw clockwise.
4. Install the diaphragm with the adjustment screw to the right position and the cover. Test again from pos. 1.

Checking the purge button:

1. Press the purge button. The second stage valve should now provide a generous supply of air.
2. Cover the mouth-piece and press the purge button. The second stage valve should now supply a reduced air flow.