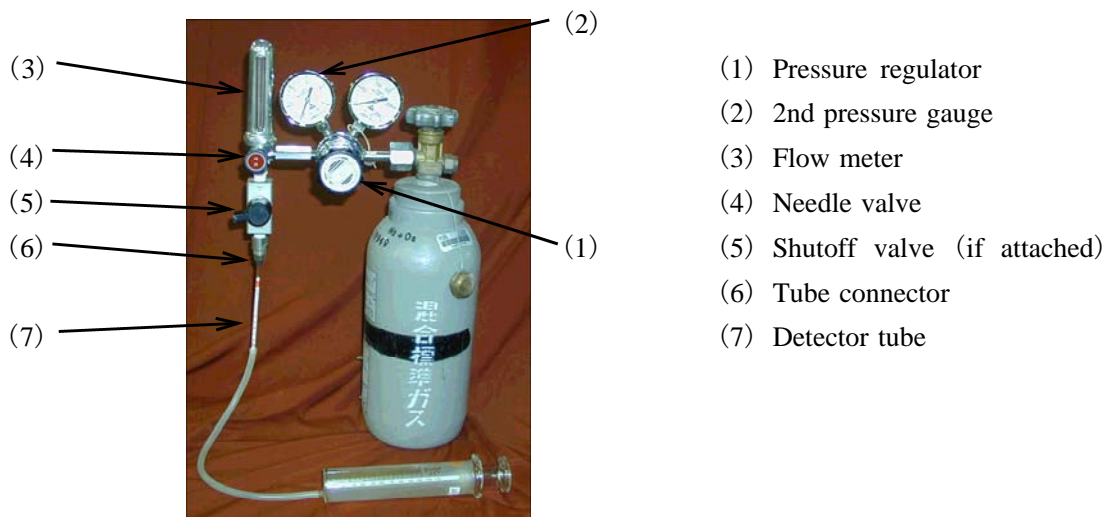
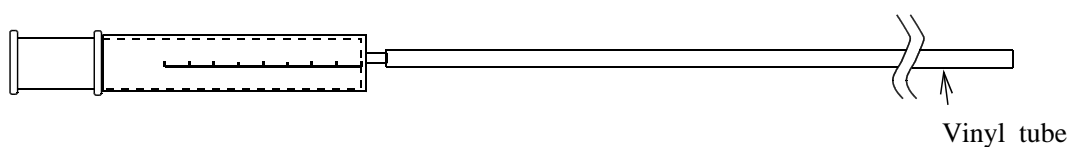


## INSTRUCTION MANUAL

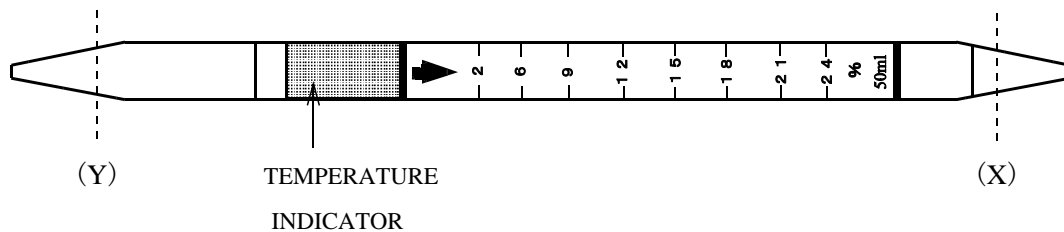
*Kitagawa* OXYGEN DETECTOR TUBE  
FOR COMPRESSED BREATHING AIR TEST



- 1) Without connecting a detector tube, turn the shutoff valve (5) to "OPEN" side (in vertical) if the shutoff valve (5) is provided, and adjust the 2nd pressure to the preset condition of  $0.6\text{Kg/cm}^2$  (60 KPa) with looking at the 2nd pressure gauge (2) through the pressure regulator (1) and the flow rate to the preset condition of 2 L/min. with looking at the flow meter (3) through the needle valve (4).
- 2) Purge the air flow circuit for 1 minute as it is.
- 3) Make a scratch on both ends of a detector tube by a file or tip cutter as they can be easily cut on the sampling time.
- 4) Connect a 1 m vinyl tube (as option) to a 50 mL syringe (as option) of which inner volume is at 0 mL, as shown below.



- 5) Heat the temperature indicator part of a No.604SP tube until the indicator of red in colour is changed to purple by direct flame of a match or lighter.



- 6) Cut both ends of the detector tube by bending it by hand and immediately connect the outlet side (X) to the 1 m vinyl tube, and the inlet side (Y) to the tube connector (6).
- 7) When the sampling amount becomes 50 mL (with confirming it through the 50 mL syringe), immediately if the shutoff valve is not provided.

*Warning : This tube produces heat in its normal use, and will be hot to the touch as the stain forms. To avoid possible injury, allow adequate cooling time or wear safety gloves when handling recently used tubes.*

- 8) Read out a concentration from the graduations printed on the detector tube.  
 At a temperature of 10 °C (50° F) to 30 °C (86° F), no temperature correction is necessary.  
 At 0 °C (32° F) to 10 °C (50° F), multiply the reading value by 1.05.  
 At 30 °C (86° F) to 40 °C (104° F), multiply the reading value by 0.95.

**\*\*SPECIAL NOTE:\*\***

- 1) Pressure regulator of which diagram is made of stainless steel or teflon coated rubber, is recommendable in order to prevent influence by ambient oxygen.
- 2) Before the test, refer to the instruction manual for the COMPRESSED BREATHING AIR SAMPLING KIT.