

JIS

JAPANESE INDUSTRIAL STANDARD

**Testing methods for bubble point
of membrane filters**

JIS K 3832—1990

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by

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In the event of any doubt arising,
the original Standard in Japanese is to be final authority.

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Testing methods for bubble point
of membrane filters

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1. Scope

This Japanese Industrial Standard specifies the testing methods for bubble points of filter disk, filter cartridge, and disposable filter of membrane to be used for filtration of liquid and gas.

Remarks 1. Applicable Standards to this Standard are shown in the following:

JIS B 6803 Pressure Regulators for Welding, Cutting and Allied Processes

JIS B 7505 Bourdon Tube Pressure Gauges

JIS B 8241 Seamless Steel Gas Cylinders

JIS B 8342 Small-size Reciprocating Air Compressors

JIS K 0101 Testing Method for Industrial Water

JIS K 1107 High Purity Nitrogen

JIS K 3802 Technical Terms for Membranes and Membrane Processes

JIS K 8102 Ethanol (95) [Ethyl Alcohol (95)]

JIS K 8839 2-Propanol

2. The units and numerical values given in { } in this Standard are based on the traditional units and are currently the criteria in force.

2. Definitions

For the purposes of this Standard main definitions are in accordance with JIS K 3802 and in addition the following definitions apply.

- (1) filter disk The filter element of sheet state.
- (2) filter cartridge The filter elements of pleat state, cylinder state, etc.
- (3) disposable filter The filter assembly non-reusable.
- (4) filter assembly Filter elements assembled in a housing or holder.
- (5) holder A container for using of filter disk.

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3. Apparatus

The constitution of apparatus shall be as follows.

- (1) **Testing Apparatus for Filter Disk Bubble Point** The testing apparatus for filter disk bubble point is constituted with the gas source for test, gas-pressure regulator, pressure gauge, filter assembly, washed piping member, etc. The example of constitution of apparatus is shown in Fig. 1 and that of filter assembly, in Fig. 2.

Fig. 1. Example of Constitution of Testing Apparatus for Filter Disk Bubble Point

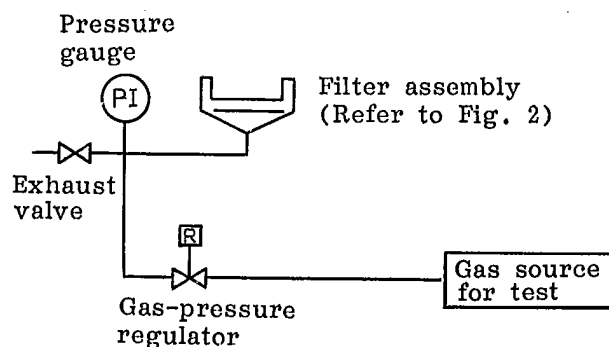
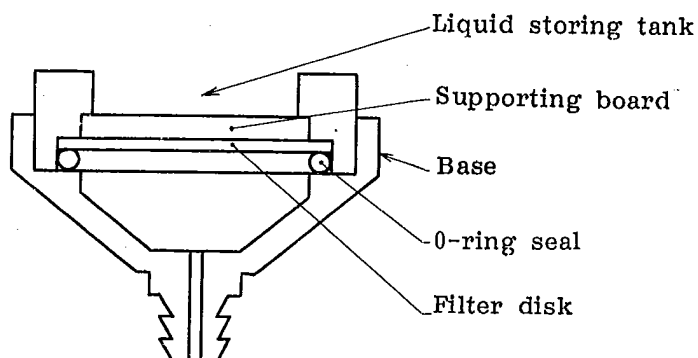


Fig. 2. Example of Constitution of Filter Assembly (in the case of using holder)



- (2) **Testing Apparatus for In-line Filter Disk Bubble Point** The testing apparatus for in-line filter disk bubble point is constituted with the gas source for testing, gas-pressure regulator, pressure gauge, filter assembly, washed piping members, etc. The example of its constitution is shown in Fig. 3.