GA-YQ1 Liquid Isolator

The GA-YQ1 Liquid Isolator is primarily used for isolation during maintenance of pressure instruments such as oxygen gauges and acetylene gauges. This isolator achieves complete separation of two different (or identical) liquid media through a diaphragm, ensuring absolute isolation between upper and lower media without risk of oil-water mixing. Its use effectively protects pressure calibration equipment from contamination by external media.

Specification

Measurement Range: (0-30) MPa, (0-40) MPa, (0-60) MPa
Thread Specification: M20×1.5 Male
Weight: Approx. 3 kg
Dimensions: Φ90mm × 150mm
Upper Chamber Volume: 120mL
Operating Temperature: +10°C to +110°C
Diaphragm Thickness: 0.5mm
Thread Size: M20×1.5 (Quick-Connect Female)

Installation

1 Attach the external thread at the bottom of the isolator to the qualified calibrator's meter base connector and remove the vent screw. Then, use a syringe (without a needle) to inject any neutral medium (such as oil or water) into the vent screw port or the female quick-connect fitting until it is filled.

2. Install the pressure gauge under test onto the quick-connect female fitting at the isolator's upper end. Simply turn clockwise five to six turns, no tightening is required to withstand 60 MPa pressure. After installation, proceed with normal calibration procedures.

3. After use, remove the isolator, wipe it clean, and store it upright for future maintenance. If it is not inverted, the added medium will not leak out.

4. To completely replace residual medium inside the isolator, simply open the vent screw and invert the unit to drain the medium.

5. If the test gauge fails to indicate pressure after several consecutive pressurization cycles during operation, it indicates insufficient medium in the upper chamber. Refill with fresh medium to prevent diaphragm rupture.

Caution:

* Before use, fill the upper part of the isolator with a neutral detergent and shake to clean thoroughly to prevent oil contamination.

*We highly recommend using our factory's rust inhibitor mixed with water to effectively address rust-induced turbidity in the water.