

# A&D's Tuning-fork Vibro Viscometer

**HOT TOPIC**  
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## Is Now a National Standard in Japan!

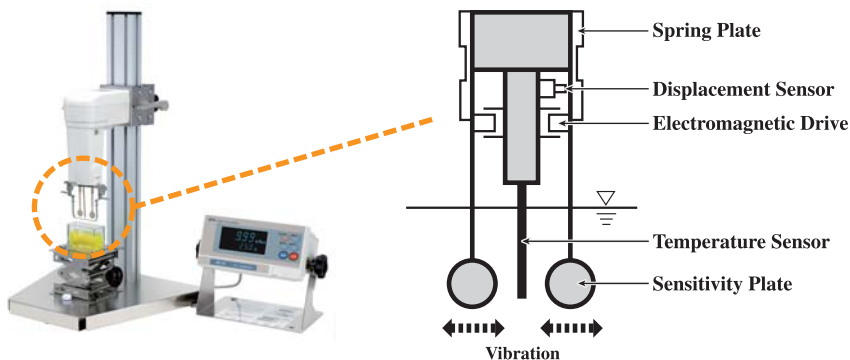
On May 20, 2011, the tuning-fork vibration method, which is commercialized solely by A&D, was recognized in an official government journal as a Japan industrial standard for viscosity measurement of liquid (JIS Z8803).

The SV / SV-A Series – our viscometers based on the tuning-fork vibration method – have unique advantages and have been providing a great many users with benefits that viscometers based on other methods simply cannot. We firmly believe that this recognition is a public acknowledgement of the wide acceptance of our technology.\*

The content of the new standard is accessible from the JISC website at <http://www.jisc.go.jp/> (in Japanese).

### How the tuning-fork vibro viscometer works

The viscosity detection unit has a pair of thin sensor plates that are resonated at their natural frequency like a tuning fork. It determines the viscosity from the electromagnetic force required to maintain the sensor plates at constant amplitude in the sample liquid.



### Unique advantages of this method

- ▶ High sensitivity enabling measurement from as low as 0.3 mPa·s
- ▶ Real-time, continuous measurements over a wide viscosity range (0.3 to 10,000 mPa·s / 1 to 100 Pa·s) without replacing the sensor plates
- ▶ Excellent repeatability of 1% of reading over the full measurement range
- ▶ Easy maintenance

**Japan Industrial Standards (JIS)** are national standards developed based on the Industrial Standardization Act (1949) with an aim to promote the industrial standards of Japan.

**The Japanese Industrial Standards Committee (JISC)** is a deliberative body set up within the Ministry of Economy, Trade and Industry (METI) and is engaged in investigations and deliberations in relation to industrial standardization issues pursuant to the Industrial Standardization Act. Its functions include deliberations on the development/revision of Japan Industrial Standards (JIS) and making recommendations and reports on consultation responses to the relevant ministers with respect to the promotion of industrial standardization such as JIS, the JIS Mark Labeling System, the Laboratory Accreditation System, etc. The JISC also participates in international standardization activities of the International Organization for Standardization (ISO) and the International Electrotechnical Commission (IEC), as a member representing Japan.

(Excerpt from the JISC annual report 2010)

\* Please note that the tuning-fork vibro viscometer has been accredited as a standard device for the Japan Calibration Service System (JCSS) by the National Institute of Technology and Evaluation (NITE) for several years, along with the capillary and rotational viscometers.