WATER METER STANDARDS

Training Course on
Pattern Approval and Verification of Water Meters – OIML R49
15 – 18 October 2019 at NMIM, Sepang, Malaysia
International Standards

• Major International Standards:

• International Organization of Legal Metrology (OIML)  web: www.oiml.org
  – OIML R49-1  Part 1  Metrological and technical requirements
  – OIML R49-2  Part 2  Test methods
  – OIML R49-3  Part 3  Test report format

• International Standards Organization (ISO)  web: www.iso.org
  – ISO 4064  Part 1  Metrological and technical requirements
  – ISO 4064  Part 2  Test methods
  – ISO 4064  Part 3  Test report format
  – ISO 4064  Part 4  Non-metrological requirements not covered in ISO 4064 - 1
  – ISO 4064  Part 5  Installation requirements

• EC 51/2003 Legislation (MID)
  – Annex MI-001
International Standards

• Major International Standards (cont.):
  
  o Comite Europeén de Normalisation (CEN)
    • EN 14154-1
    • EN 14154-2
    • EN 14154-3
  
  o American Water Work Association (AWWA)
    • AWWA C 700 (PD Meters)
    • AWWA C 701 (Turbine Meters)
    • AWWA C 702 (Compound Meters)
    • AWWA C 703 (Fire Service Meters)
    • AWWA C 708 (Multi-Jet Meters)
    • AWWA C 712 (Fluidic Oscillator Meters)
    • AWWA C 713 (Single-Jet Meters)
    • AWWA M6 (Meters- Selection, Installation, Testing and Maintenance)
Examples of National Standards:

- NMI 49-1 (Australia)
- NIST Handbook 44, Section 3.36 (USA)
- BS 5728 (United Kingdom)
- Draft Weights and Measures Regulation, Division XIV (Canada)
- National Measurement Law (Japan)
OIML R 49  Part 1 & 2 & 3: 2013

Was developed by a joint OIML/ISO/CEN working group comprising OIML TC 8/SC 5 Water meters, ISO/TC 30/SC 7 Volume methods including water meters and CEN/TC 9 Water meters.

The content is the same in substance as that of ISO 4064 Part 1-3: 2014 Water meters for cold potable and hot water.

- 3 Parts


Is identical to the corresponding edition of OIML R 49, which has been issued concurrently.

- 5 Parts
OIML R 49
WATER METERS FOR COLD POTABLE WATER
AND HOT WATER

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