

**AUTOMATIC** VAPOR PRESSURE TESTER (Reid Method, Demi Size) Model **AVP-30D** 



AVP-30D-2cylinders

AVP-30D series carries out the Reid Vapor Pressure test prescribed in ASTM D323 and IP69, AVP-30D has been developed after its well received predecessor, AVP-21D/22D series, with further enhancement in the electronics. The new features include easy switch between display in kPa and kgf/cm<sup>2</sup> units, water level monitor for safety, and communication capability with external computers.

**EASY HANDLING:** Compact size cylinders allow easier handling, yet yielding the same test results compared to the heavy full size cylinders. (The V/L ratio of 4 is maintained, and therefore equivalent test result is obtained).

Note- The suffix "D" followed by "AVP-30" stands for "Demi size.

**COMPACT SIZE**: Width is merely 400mm, and the footage on the lab bench is at minimal.

**PRECISE RESULTS:** Semiconductor type vapor pressure sensor and reliable/efficient see-saw shaking mechanism are employed. The semiconductor sensor is extremely stable, yielding consistent test results.

TRACEABLE: The pressure sensor can be calibrated easily using a Digital Manometer (Optional).

# TANAKA

# Automatic Vapor Pressure Tester, model AVP-30D

### SPECIFICATIONS:

**RELATED STANDARDS:** 

ISO 3007, ASTM D323, IP69 etc.

**TYPE:** Bench-top with 2,3, or 4 Demi-size cylinders

Pls. Indicate number of cylinder when ordering

Automated continuous shaking of test cylinder by "seesaw" motion.

#### **MEASURING RANGE:**

0 to 196kPa (2kgf/cm<sup>2</sup>)

#### TEST CYLINDERS:

Small size stainless steel cylinders with 66% in length and 31% in volume compared to the regular full size cylinders. The V/L ratio of 4 is the same as full size cylinder.

A "Quick Coupler" is equipped at the center of the vapor

cylinder for connecting to external pressure sensor located inside of the tester

#### PRESSURE SENSOR:

Semiconductor type pressure sensor. Range: 0 to 196kPa (2kgf/cm<sup>2</sup>)

Linearity: <0.3% of the range Hysteresis: <0.3% of the range

DISPLAY:

LCD with back light

Pressure display range: 0 to 200kPa or 0 to 2kgf/cm<sup>2</sup> **SHAKING**:

By "see-saw" movement with angular movement of +/-15 degrees and interval of 6 sec

#### BATH:

Temperature Range: Ambient to 60°C

Temp control: Digital controller/display with PT-100

Sensor, Precision: +/-0.1°C

By propeller driven by motor

Heater: Stainless sheathed heater 1.15kW

#### CALIBRATION:

Stirring:

By connecting a Digital Manometer (optional) to the pressure sensor

#### SAFETY MECHANISM:

Water level monitoring device for preventing overheating due to low water level

## DATA OUTPUT:

Specifications subject to change without prior notice.

RS-232C 1 channel (for PC or Optional Printer) **DIMENSION & WEIGHT:** 400W x 600D x 720H (mm), 50kg when dry, 85kg when filled with water **INSTALLATION SITE:** Ambient temperature: 0 to 40 °C RH: Less than 90%(no condensation) **POWER SUPPLY:** AC100/120V or 220/240V 50/60Hz (set at the factory) 1.5kW(max.)

#### ORDERING INFORMATION: STANDARD ACCESSORIES:

	$2 \ \text{cylinders}$	3 cylinders	$4 \ {\rm cylinders}$
1. Test Cylinders	2 sets	3 sets	4 sets
2. Thermometer ASTM-18C	1 pc	1 pc	1 pc
3. Spare Packing for Cylinders	4 pc	6 pc	8 pc
4. Spare Fuse	1 pc	1 pc	1 pc
5. Water Hose, 2m	1 pc	1 pc	1 pc
6. Water Hose Band	1 pc	1 pc	1 pc
7. Silicone Plug No.3	1 pc	1 pc	1 pc
8. Connecting Tube with Teflon Ferrules			
	2 sets	3 sets	4 sets
9. Air Pipe	1 pc	1 pc	1 pc
10. Pressure Releasing Jig	1 pc	1 pc	1 pc
11. Instruction Manual	1 сору	1 copy	1 copy
12. Quick Coupler 1S	1 pc	1 pc	1 pc
13. High Pressure Hose, 3m	1 pc	1 pc	1 pc
14. High Pressure Hose Band	2 pc	2 pc	2 pc
OPTIONAL ACCESSORIES:			
AVP-02-012 Digital Manometer, KDM30 with quick			
Coupler (with Certificate)			
AVP-02-013 Handy Air Pump			
070-00-068 Printer, BS2-80TS with AC Adapter and			
Connecting Cable			
SUGGESTED SPARES:			
1. 000-02-071 Thermomete	r ASTM-1	8C 1	рс
2. AVP-02-401 Packing for Cylinder 5pcs/cylinder			
3. 320-00-012 Fuse MHS-10A(220/240V) or			
320-00-014 Fuse MHS-2	0A(100/1	20V) 1	рс

4. AVP-02-403 Connecting Tube with PTFE Ferrules

1set/cylinder

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