

**ASPHALT IN-HOUSE CALIBRATION PROCEDURE # 18
PRESSURE AGING VESSEL**

EQUIPMENT CHECKED: PRESSURE AGING VESSEL (PAV) (AASHTO R 28)

1. SCOPE

1.1 This procedure provides instructions for checking equipment used to perform the PAV test.

2. APPARATUS

Inspection Equipment Required:

1. Pressure gauge
2. Wafer probe
3. Crescent wrench
4. Thread tape

Tolerance:

Equipment shall meet the tolerances specified in test method AASHTO R 28.

3. PROCEDURE

- 3.1 Turn on the PAV, and remove the small plug from the PAV lid device.
- 3.2 Add white thread tape to the bottom of pressure gauge.
- 3.3 Place the pressure gauge on the lid where the plug was removed.
- 3.4 Make sure pressure gauge is tight to avoid leaks.
- 3.5 Place the holder inside the chamber with all the pans on it, and close the chamber and tighten all the rest of the screws on the lid.
- 3.6 Pressurize the chamber with air cylinder.
- 3.7 Press the aging button.
- 3.8 Wait until it is stable and take a reading, adjust as necessary (2.1 +/-0.1 MPa).
- 3.9 Unscrew the side panel of the PAV. On the center of the regulator will be a small hole, use a small screwdriver to make the adjustment.
- 3.10 Record this information on the verification form for each device.
- 3.11 To check the temperature use a wafer probe inside the chamber, next to the temperature controller of the device. Pressurize the PAV, take a reading and make adjustment as necessary.
- 3.12 Record this information on the verification form for each device. If the adjustment fails, call the manufacturer for recalibration.