

A REVIEW OF THE REVISIONS TO API 14.3/AGA REPORT NO. 3 - PART 2

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ABSTRACT

Periodically natural gas measurement standards are created or revised. In the period 1993 through 1999 Part 2 of ANSI 2530/API MPMS 14.3/AGA Report No 3 underwent revision. It is the intent of this paper to discuss the highlights of this revision.

BACKGROUND

The dictionary defines standard as "something established by authority, custom, or general consent as a model or example". In the natural gas industry, standards are established to provide uniformity of action with the hope this will improve efficiency and avoid differences. Natural gas measurement is one area of application for standards in the natural gas industry. Periodically, natural gas measurement standards are created or revised. In the period of 1993 through 1999 Part 2 of ANSI 2530/API MPMS 14.3/AGA Report No 3 has been revised.

ORIFICE PLATE REVISIONS

Two major orifice plate areas of concern are addressed in the 2000 revision of Part 2:

- Maximum allowable differential pressure across the orifice plate.
- Recommended 8-inch orifice plate thickness.

The maximum allowed differential pressure across the orifice plate is redefined in the new standard. The 1992 edition established an explicit maximum differential pressure of 200 inches of water column (IWC) for all orifice plates sizes except 8-inch. The 8-inch diameter by 1/8 thick orifice plate was limited to 150 IWC. The revised differential pressure limits will vary and are now a function of:

- Plate thickness
- Plate material mechanical strength
- Acceptable expansion factor, Y, uncertainty.
- Maximum acceptable permanent pressure loss.

This could result in differential pressures as high as 1000 IWC. Except for the additional expansion factor uncertainty, the influence of high differential pressures is archived in the Reader-Harris Gallagher coefficient of discharge calculation. The flange tapped coefficient of

discharge database experienced differential pressures as high as 1300 IWC.

The recommended orifice plate thickness for 8-inch orifice plates in the 1992 revision is 1/8 of an inch. The 8-inch diameter by 1/8 thick orifice plate was limited to 150 IWC in order to maintain the flatness tolerances. The 2000 revision has changed the recommended orifice plate thickness for 8-inch orifice plates to 1/4 of an inch. The change from 1/8 inch orifice plates to 1/4 inch orifice plates can be achieved in some orifice plate holding devices without any modifications to the device provided the differential pressure tap hole tolerances and limits as specified are satisfied. Otherwise the orifice plate holding device has to be redrilled.

METER TUBE REVISIONS

Meter Tube Surface Roughness

Proper meter tube surface roughness is required to assure accurate measurement. New research data resulted in a revision in the surface roughness requirements. The new requirements establishes a minimum pipe wall roughness for all pipe sizes and allows pipes larger than 12-inch nominal pipe diameter to have a greater roughness than previous revisions.

The surface roughness requirement for 12- inch nominal pipe diameter and smaller is:

- 300 micro inches Ra when $\beta r \leq 0.6$
- 250 micro inches Ra when $\beta r > 0.6$
- Minimum Ra > 0.34 micro inches

The surface roughness requirement for greater than 12-inch nominal pipe diameter is:

- 600 micro inches Ra when $\beta r \leq 0.6$
- 500 micro inches Ra when $\beta r > 0.6$
- Minimum Ra > 0.34 micro inches

Irregularities such as grooves, scoring, or ridges resulting from seams, welding distortion, offsets, and the like that affect the tolerance in excess of that allowed by the Tolerances and Restrictions detailed in section 2.5.1.3 of the revision are not permitted. The existence of pits in the surface of the meter tube, although undesirable, are allowed provided their individual measurements do not exceed the surface roughness and/or diameter tolerance requirements of the meter tube and do not compromise the meter tube's pressure integrity. When these

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