ASME BPVC.V-2019

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GENERAL NOTES:

- (a) Holes shall be drilled and reamed 1.5 in. (38 mm) deep minimum, essentially parallel to the examination surface.
- (b) For components equal to or less than 20 in. (500 mm) in diameter, calibration block diameter shall meet the requirements of T-434.1.7.2. Two sets of calibration reflectors (holes, notches) oriented 90 deg from each other shall be used. Alternatively, two curved calibration blocks may be used.
- The tolerance for hole diameter shall be $\pm \frac{1}{32}$ in. (0.8 mm). The tolerance for hole location through the calibration block (c) thickness (i.e., distance from the examination surface) shall be $\pm \frac{1}{8}$ in. (3 mm).
- For blocks less than $\frac{3}{4}$ in. (19 mm) in thickness, only the $\frac{1}{2}T$ side-drilled hole and surface notches are required. (d)
- All holes may be located on the same face (side) of the calibration block, provided care is exercised to locate all the reflectors (e) (holes, notches) to prevent one reflector from affecting the indication from another reflector during calibration. Notches may also be in the same plane as the inline holes (see Nonmandatory Appendix J, Figure J-431). As in Figure J-431, a sufficient number of holes shall be provided for both angle and straight beam calibrations at the $\frac{1}{4}T$, $\frac{1}{2}T$, and $\frac{3}{4}T$ depths.
- When cladding is present, notch depth on the cladding side of the block shall be increased by the cladding thickness, CT (i.e., ſſ 1.6% T + CT minimum to 2.2% T + CT maximum).
- Maximum notch width is not critical. Notches may be made by EDM or with end mills up to $\frac{1}{4}$ in. (6.4 mm) in diameter. (g)
- Weld thickness, t, is the nominal material thickness for welds without reinforcement or, for welds with reinforcement, the (h) nominal material thickness plus the estimated weld reinforcement not to exceed the maximum permitted by the referencing Code Section. When two or more base material thicknesses are involved, the calibration block thickness, T, shall be determined by the average thickness of the weld; alternatively, a calibration block based on the greater base material thickness may be used provided the reference reflector size is based upon the average weld thickness.

NOTES:

- (1) Minimum dimension.
- (2) For each increase in weld thickness of 2 in. (50 mm) or fraction thereof over 4 in. (100 mm), the hole diameter shall increase $\frac{1}{16}$ in. (1.5 mm).

[Note (2)