

§ 241.5

ring or other means for the insertion of a head at the opposite end, the tolerance shall be applied to the mean of the average diameters, one taken from inside to inside of staves at the inner edge of the head, the other from inside to inside of staves at the inner edge of the croze ring, or from inside to inside of staves at a point where the inside surface of a head would come were such head inserted in the barrel.

(3) When a barrel or subdivision thereof has but one head and no croze ring or other means for the insertion of a head at the opposite end, the tolerance shall be applied to the mean of the average diameters, one taken from inside to inside of staves at the inner edge of the head, the other taken from inside to inside of staves at a point 1 1/8 inches from the end of the staves in the case of a barrel or 3/4 barrel, or at a point 1 inch or 7/8 inch from the end of the staves in the case of a 1/2 barrel or 1/3 barrel, respectively.

(c) The standard allowance for depth of croze ring shall be 3/16 inch. Therefore, the standard "effective diameter of head" in the case of the standard barrel is 16 3/4 inches and in the case of the standard cranberry barrel is 15 7/8 inches.

§ 241.5 Standard dimensions.

Whenever in the rules and regulations in this part the error on a dimension is mentioned, this error shall be determined by taking the difference between the actual measured dimension and the standard dimension. The error is an error in excess and is to be preceded by a plus sign when the measured dimension is greater than the standard dimension. The error is an error in deficiency and is to be preceded by a minus sign when the measured dimension is less than the standard dimension.

(a) The standard dimensions of a barrel for fruits, vegetables, and other dry commodities other than cranberries, and of a barrel for cranberries, with which the actual measured dimensions are to be compared, are as follows:

15 CFR Subtitle B, Ch. II (1-1-03 Edition)

Dimensions	Barrel for fruits, vegetables, and other dry commodities other than cranberries (inches)	Barrel for cranberries (inches)
Diameter of head	17 1/8	16 1/4
Effective diameter of head (see § 241.4)	16 3/4	15 7/8
Distance between heads	26	25 1/4
Circumference of bulge, outside measurement	64	58 1/2
Length of stave	28 1/2	28 1/2

(b) In the case of all subdivisions of the barrel for fruits, vegetables, and other dry commodities other than cranberries, and all subdivisions of the barrel for cranberries, the following dimensions are hereby standardized for the purpose of the application of tolerances, and the actual measured dimensions are to be compared with these:

SUBDIVISIONS OF BARREL FOR FRUITS, VEGETABLES, AND OTHER DRY COMMODITIES OTHER THAN CRANBERRIES

Dimensions	3/4 barrel (inches)	1/2 barrel (inches)	1/3 barrel (inches)
Effective diameter of head (see § 241.4)	15 1/4	13 3/8	11 5/8
Distance between heads	23 1/2	20 1/2	18
Circumference of bulge, outside measurement	58 1/2	51 1/2	45 1/4

SUBDIVISIONS OF BARREL FOR CRANBERRIES

Dimensions	14 3/8	12 5/8	11
Effective diameter of head (see § 241.4)	14 3/8	12 5/8	11
Distance between heads	23	20	17 1/2
Circumference of bulge, outside measurement	53 3/8	47	41 3/8

(Sec. 1, 38 Stat. 1186; 15 U.S.C. 234)

§ 241.6 Classes of barrels for tolerance application.

For the purpose of the application of tolerances, barrels for fruits, vegetables, and other dry commodities other than cranberries, are hereby divided into two classes as follows:

(a) Class 1 shall include (1) all barrels no dimension of which is in error by more than the following amounts, and (2) all barrels one or more of the dimensions of which are in error by more than the following amounts, and which in addition have no dimension in error in the opposite direction:

	Error, inches
Effective diameter of head	1/4
Distance between heads	1/4
Circumference of bulge, outside measurement ..	1 1/2

(b) Class 2 shall include all barrels at least one dimension of which is in error by more than the amounts given above, but which in addition have at least one dimension in error in the opposite direction. (This class includes all barrels mentioned in section 1 of the law in the proviso reading: "Provided, That any barrel of a different form having a capacity of seven thousand and fifty-six cubic inches shall be a standard barrel.")

(Sec. 1, 38 Stat. 1186; 15 U.S.C. 234)

§241.7 Tolerances to be allowed.

(a) The tolerances to be allowed in excess or in deficiency on the dimensions of all barrels of Class 1 shall be as follows:

	Tolerance inches
Diameter of head	1/4
Effective diameter of head	1/4
Distance between heads	1/4
Circumference of bulge, outside measurement ..	1 1/2
Length of stave	1/2

(1) If no dimension of a barrel of Class 1 is in error by more than the tolerance given above, then the barrel is within the tolerance allowed.

(2) If one or more of the dimensions of a barrel of Class 1 is in error by more than the tolerance given above, then the barrel is not within the tolerance allowed.

(b) The tolerance to be allowed in excess or in deficiency on all barrels of Class 2 shall be 1 1/2 inches (1.5) inches, and this tolerance is to be applied to the result obtained by the application of the following rule:

(1) Having determined the errors of each dimension and given to each its proper sign (see §241.4), add the errors on the effective diameter of head and the distance between heads algebraically and multiply the result by 1.67 (or 5/3). Then add this result to the error on the circumference of bulge algebraically. If the result obtained is not greater than the tolerance given above, then the barrel is within the tol-

erance allowed; if the result is greater than this tolerance, then the barrel is not within the tolerance allowed.

NOTE: To find the algebraic sum of a number of quantities having different signs, first add all those having one sign; then add all those having the opposite sign; then subtract the smaller sum from the larger, giving this result the sign of the larger quantity.

(2) [Reserved]

(c) The tolerance to be allowed in excess or in deficiency on the dimensions of all barrels for cranberries shall be as follows:

	Tolerance, inches
Diameter of head	1/4
Effective diameter of head	1/4
Distance between heads	1/4
Circumference of bulge, outside measurement ..	1 3/8
Length of stave	1/2

(1) If no dimension of a barrel for cranberries is in error by more than the tolerance given above, then the barrel is within the tolerance allowed.

(2) If one or more of the dimensions of a barrel for cranberries is in error by more than the tolerance given above, then the barrel is not within the tolerance allowed.

(d) The tolerances to be allowed in excess or in deficiency on all subdivisions of the standard barrel for fruits, vegetables, and other dry commodities other than cranberries, and on all subdivisions of the standard barrel for cranberries, shall be the values given in the following table, and these tolerances are to be applied to the result obtained by the application of the following rule:

(1) Having determined the errors on each dimension and given to each its proper sign (see §241.5), add the errors on the effective diameter of head and the distance between heads algebraically and multiply the result by 1.67 (or 5/3). Then add this result to the error on the circumference of bulge algebraically. If the result obtained is not greater than the tolerance given in the following table for the proper subdivision, then the barrel is within the tolerance allowed; if the result is greater than this tolerance, then the barrel is not within the tolerance allowed.