



VU(A) Outer diameter, thickness and tolerance difference

unit : mm

Pipe diameter	Outside		Thickness		Reference	
	Flanges	Outside diameter ^(a)	Least	Tolerances	Inner diameter	Quality ^(b) kg/m
40	48.0	±0.2	1.8	+0.4	44	0.413
50	60.0	±0.2	1.8	+0.4	56	0.521
65	76.0	±0.3	2.2	+0.6	71	0.825
80	89.0	±0.3	2.7	+0.6	83	1.159
90	100.0	±0.4	3.1	+0.6	94	1.476
100	114.0	±0.4	3.1	+0.8	107	1.737
125	140.0	±0.5	4.1	+0.8	131	2.739
150	165.0	±0.5	5.1	+0.8	154	3.941
200	216.0	±0.7	6.5	+1.0	202	6.572

NOTE :

- (a)The average tolerance of outer diameter refers to the value obtained by dividing the measured value of the circumference on any cross-section by the circumference ratio (3.142), or the deviation between the average measured value of the outer diameter at two equal intervals on the circumference (average outer diameter) and the basic dimension.
- (b)The mass per unit length in the table is set at the midpoint of the tolerance based on the size of the tube, and calculated with the density of VP as 1.43g/cm³.

VP(B) Outer diameter, thickness and tolerance difference

unit : mm

Pipe diameter	Outside			Thickness		Reference	
	Flanges	Maximum, minimum outer diameter Tolerances ^(a)	Outside diameter ^(b)	Least	Tolerances	Inner diameter	Quality ^(c) kg/m
13	18.0	±0.2	±0.2	2.2	+0.6	13	0.174
16	22.0	±0.2	±0.2	2.7	+0.6	16	0.256
20	26.0	±0.2	±0.2	2.7	+0.6	20	0.310
25	32.0	±0.2	±0.2	3.1	+0.8	25	0.448
30	38.0	±0.3	±0.2	3.1	+0.8	31	0.542
40	48.0	±0.3	±0.2	3.6	+0.8	40	0.791
50	60.0	±0.4	±0.2	4.1	+0.8	51	1.122
65	76.0	±0.5	±0.3	4.1	+0.8	67	1.445
80	89.0	±0.5	±0.3	5.5	+0.8	77	2.202
100	114.0	±0.6	±0.4	6.6	+1.0	100	3.409
125	140.0	±0.8	±0.5	7.0	+1.0	125	4.464
150	165.0	±1.0	±0.5	8.9	+1.4	146	6.701
200	216.0	±1.3	±0.7	10.3	+1.4	194	10.129

NOTE :

(a)The tolerance between the maximum and minimum outer diameters refers to the deviation between the maximum and minimum (maximum and minimum outer diameters) measured value on any cross-section of the outer diameter and the basic dimension.

(b)The average tolerance of outer diameter refers to the value obtained by dividing the measured value of the circumference on any cross-section by the circumference ratio (3.142), or the deviation between the average value of the outer diameter measured at two equal intervals on the circumference (average outer diameter) and the basic dimension.

(c)The mass per unit length in the table is set at the midpoint of the tolerance based on the size of the tube, and calculated with the density of VP as 1.43g/cm³.

E Pipe size and its allowable difference

unit : mm

Pipe diameter	Outside diameter ^(a)	Thickness		Inner diameter	Quality ^(b) (kg/m)	Length
		Least	Tolerances			
13	18±0.2	1.8	+0.4	14	0.144	Marked value ⁺³⁰ ₋₁₀
16	22±0.2	1.8	+0.4	18	0.180	
20	26±0.2	1.8	+0.4	22	0.216	
28	34±0.3	2.7	+0.6	28	0.420	
35	42±0.3	3.1	+0.8	35	0.608	
41	48±0.4	3.1	+0.8	41	0.702	
52	60±0.5	3.6	+0.8	52	1.010	
65	76±0.5	4.1	+0.8	67	1.450	
80	89±0.5	5.1	+0.8	78	2.070	
100	114±0.6	6.6	+1.0	100	3.420	
125	140±0.8	7.0	+1.0	125	4.490	
150	165±1.0	8.5	+1.4	148	6.460	
200	216±1.3	10.5	+1.4	194	10.340	

NOTE :

(a)The outer diameter refers to the arithmetic average of the outer diameters in any two vertical directions.

(b)The calculation of mass is based on the minimum thickness plus half tolerance of thickness as the calculation of thickness with the density. 1.43g/cm³.

ES-1 Pipe size and its allowable difference

unit : mm

Pipe diameter	Outside diameter ^(a)	Thickness		Inner diameter	Quality ^(b) (kg/m)	Length
		Least	Tolerances			
80	89±0.5	2.7	+0.6	83	1.160	Marked value +30 -10
100	114±0.6	3.6	+0.8	106	1.980	
125	140±0.8	4.1	+0.8	131	2.750	
150	165±1.0	5.1	+0.8	154	3.960	

NOTE :

(a) The outer diameter refers to the arithmetic average of the outer diameters in any two vertical directions.

(b) The calculation of mass is based on the minimum thickness plus half tolerance of thickness as the calculation of thickness with the density. 1.43g/cm³.



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