

Pharmaceutical capacity measures

<i>Nominal capacity of graduation test</i>				<i>Maximum permissible error on initial or in-service verification</i>	
500mL	....	...	...	±5.0 mL	
200mL	....	...	...	±2 mL	
100 mL	....	...	...	± 1 mL	
50mL	....	...	...	±0.5 mL	
25 mL	....	...	...	±0.25 mL	
20mL	....	...	...	±0.2 mL	
10mL	....	...	...	±0.1 mL	
5mL	....	...	...	±0.05 mL	
2mL	....	...	...	±0.02 mL	
1mL	....	...	...	±0.01 mL	

*Maximum permissible errors on measuring pumps**Quantity delivered*

	<i>Quantity delivered</i>				<i>Maximum permissible error</i>	
					<i>Initial verification</i>	<i>In-service verification</i>
1L	± 10 -0	±20 -10
5L	+25 -0	+50 -25
20L	+100 -0	+200 +100

MADE this 13th day of August, 2010.

DAVID O. CAREW,
Minister of Trade and Industry.

STATUTORY INSTRUMENT

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THE WEIGHTS AND MEASURES ACT, 2010
(Act No. 5 of 2010)

THE WEIGHTS AND MEASURES ACT
(PERMISSIBLE ERRORS) REGULATIONS, 2010

Short title.

IN EXERCISE of the powers conferred on the Minister of Trade and Industry by section 33 of the Weights and Measures Act, 2010, the Minister of Trade and Industry hereby makes these Regulations—

1. The following shall be the permissible margin of error for any weight, measure or instrument for weighing or measuring: Permissible margin of error.

(a) TOLERANCES OF MASSES

Masses other than those used for precious metals and stones

<i>Mass Denomination</i>					<i>Maximum Permissible Error (mg)</i>	
					<i>Initial verification</i>	<i>In-service verification</i>
50 kg	...	...	...	...	+8000	+8000 -8000
20 kg	...	...	...	...	+3200	+3200 -3200

*Mass denomination**Maximum Permissible Error (mg)*

				<i>Initial verification</i>	<i>In-service verification</i>
10 kg	...	...	...	+1600 -0	+1600 -1600
5 kg	...	...	...	+800 -0	+800 -800
2 kg	...	...	...	+400 -0	+400 -400
1 kg	...	...	...	+200 -0	+200 -200
500 g	...	...	...	+100 -0	+100 -100
200 g	..	...	...	+50 -0	+50 -50
100 g	..	...	...	+30 -0	+30 -30
50 g	..	...	...	+30 -0	+30 -30
20 g	..	...	...	+20 -0	+20 -20
10 g	..	...	...	+20 -0	+20 -20
5 g	..	...	...	+10 -0	+10 -10
2 g	..	...	...	+5 -0	+5 -5
1 g	..	...	...	+5 -0	+5 -5

(b) CARAT MASSES AND GRAM MASSES

USED FOR PRECIOUS METALS, STONES AND PEARLS

<i>Mass denomination carat (Metric)</i>				<i>Mass in mg</i>	<i>Maximum Permissible Error, mg</i>	
					<i>Initial verification</i>	<i>In-service verification</i>
500	...	...	...	100,000	+8 -0	+8 -4
-	...	...	...	50,000	+6 -0	+6 -3
200	...	...	...	(40,000)	+6 -0	+6 -3
100	...	...	...	20,000	+5 -0	+5 -2.5
50	...	...	...	10,000	+4 -0	+4 -2
-	...	...	...	5,000	+3 -0	+3 1.5
20	...	...	...	(4,000)	+3 -0	+3 -1.5
10	...	...	...	2,000	+2 -0	+2 -1
5	...	...	...	1,000	+1 -0	+1 -0.5
-	...	...	...	500	+0.8 -0	+0.8 -0.4
2	...	...	...	(400)	+0.8 -0	+0.8 -0.4

Mass denomination carat (Metric)	Mass in mg	Maximum Permissible Error, mg	
		Initial verification	In-service verification
1	200	+0.6	+0.6
		-0	-0.3
		+0.4	+0.4
0.5	100	+0.4	+0.4
		-0	-0.2
		+0.2	+0.2
0.2	(40)	+0.2	+0.2
		-0	-0.1
		+0.2	+0.2
0.1	20	+0.2	+0.2
		-0	-0.1
		+0.1	+0.1
0.05	10	+0.1	+0.1
		-0	-0.05
		+0.2	+0.2
0.02	(4)	+0.1	+0.1
		-0	-0.1
		+0.1	+0.1
0.01	2	+0.1	+0.1
		-0	-0.05
		+0.1	+0.1
0.005	5	+0.1	+0.1
		-0	-0.05
		-0	-0.05

(c) MAXIMUM PERMISSIBLE ERRORS OF WEIGHING INSTRUMENTS

WEIGHING INSTRUMENTS OF ORDINARY ACCURACY

Graduated instruments (n > 1 000) (1)

Maximum capacity	Load range	Maximum Permissible Error	
		Initial verification	In-service verification
All capacities	10 d to 500 d (2)	±0.5 d (2)	± d
	500 d to 2 000 d	± d	±2 d
	2 000 d	±1.5 d	±3 d
<i>Non-graduated instruments</i>			
Maximum capacity (3)	Load range	Maximum Permissible Error	
		Initial verification	In-service verification
0 to and including 2kg	50 g to 250 g	±2.5 g	±5 g
	250 g to 1 kg	±5g	±10 g
	1 kg	±7.5 g	±15 g
4 kg	100 g to 500 g	±5 g	±10 g
	500 g to 2 kg	±10 g	±20 g
	2 kg	±15 g	±30 g
10 kg	250 g to 1 250 g	±12.5g	±25 g
	1 250 g to 5 kg	±25 g	±50 g
	5 kg	±37.5 g	±75 g
20 kg	500 g to 2.5 kg	±25 g	±50 g
	2 kg to 10 kg	±5 g	±100 g
	> 10 kg	±75	±150 g
40 kg	1 kg to 5 kg	±50 g	±100 g
	5 kg to 20 kg	±100 g	±200 g
	20 g	±150 g	±300 g
100kg	2.5 kg to 12.5 kg	±150 g	±250 g
	12.5 kg to 50 kg	±250 g	±750 g

- (1) n is the maximum capacity divided by the value of scale interval d.
(2) d is the value of the scale interval in units of mass.
(3) for maximum capacities other than 11 stod the next smaller capacity is taken.

(d) WEIGHING INSTRUMENTS OF MEDIUM ACCURACY

Graduated instruments (n > 1 000) (1)

Maximum capacity	Load range	Maximum Permissible Error	
		Initial verification	In-service verification
II Capacity	10 d to 500 d ⁽²⁾	$\pm 0.5 d$ ⁽²⁾	$\pm d$
	500 d to 2 000 d	$\pm d$	$\pm 2 d$
	2 000 d	$\pm 1.5 d$	$\pm 3 d$

(1) n is the maximum capacity divided by the value of scale interval d.

(2) d is the value of the scale interval in units of mass.

(e) MAXIMUM PERMISSIBLE ERRORS ON LENGTH

Rigid and folding measures

Maximum Permissible Error, mg	
Initial verification	In-service verification
$\pm (0.6 + 0.5 D)$ mm	$\pm (1.2 + 1.0 D)$ mm

(Where D) – distance between the two tested graduation lines in metres rounded to the nearest higher 0.5 m.

Steel measuring tapes
Accuracy class

		Maximum Permissible Error, mg	
		Initial verification	In-service verification
A	...	$\pm (0.3 + 0.3 D)$ mm	$\pm (0.6 + 6D)$ mm
B	...	$\pm (0.6 + 0.5 D)$ mm	$\pm (1.2 + 1.0 D)$ mm

Where D distance between the two tested graduation lines in metres rounded to the nearest higher whole number of metres.

(f) MAXIMUM PERMISSIBLE ERRORS ON CAPACITY MEASURES

Errors on capacity measures other than pharmaceutical measures

Maximum capacity	Maximum Permissible Error, mg	
	Initial verification	In-service verification
20L	+1000 -0	+200 -100
10L	+75 -0	+150 -75
5L	+50 -0	+100 -50
2L	+30 -0	+60 -30
1L	+15 -0	+30 -15
500mL	+10 -0	+20 -10
200mL	+5 -0	+10 -5
100mL	+3 -0	+6 -3
50mL	+2 -0	+4 -2
25mL	+1 -0	+2 -1
20mL	+0.8 -0	+1.6 -0.8
mL	+0 -0	+0.4 +0.4