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2.		1.09-20.09	
3.		20.09-25.10.	
4.	,	26.10-05.11	
5.	.	26.10-5.11	
6.		26.10-29.11	
7.		29.11.	
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Escherichia coli

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[14]

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[20]

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(300)

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NF270

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[4], [15],

[5], [9], [10], [16].
 () [15], [17]
 () [111], [11].

[18], [19], [22].

(50 / [4], [11], [14].

[2], [10].

[10].

[5], [11],

[17], [21].

[2].

[10].

[22].

[13], [15].

pH.

[17].

[12],

[21], [22].

[21], [22].

[10], [21].

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[12]

[28].

Escherichia coli .

[15]

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$$C_1 = \frac{8 \cdot C_1 \cdot V_1 \cdot 1000}{50 \cdot (V_1 - V_2)}, \quad / \quad (2.2.2),$$

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V- , ;

V1- ,

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$$5 = [(1 - 2) - (1 - 2)] \cdot N, \quad (2.2.3)$$

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N-

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300 .

18963-95

' 10 , 100 10; 1 0,1
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16-18

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, ' 10
1 3% ,
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☐ =400 .

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SARTORIUS

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ZF10 ZF50 .

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G

$S,$

$$S = fr^2 = \frac{fd^2}{4}, \tag{2.2.4}$$

$f - 3,14; \quad r, \quad d -$

$$G = f(P)$$

10...90 ° ,

. 2.2:

2.2. -

	, ‡	, ,	t, °	Q, 3	Q, 3/ 2.

(2)

(, 1,5).

20...60 °

5 ° .

$$G = f(t).$$

10...90 ° ,

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2.2.3 -

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(2)
 (, 1,5). 20...60 °
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$$G = f(t).$$

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,), 2.1. 2.2.

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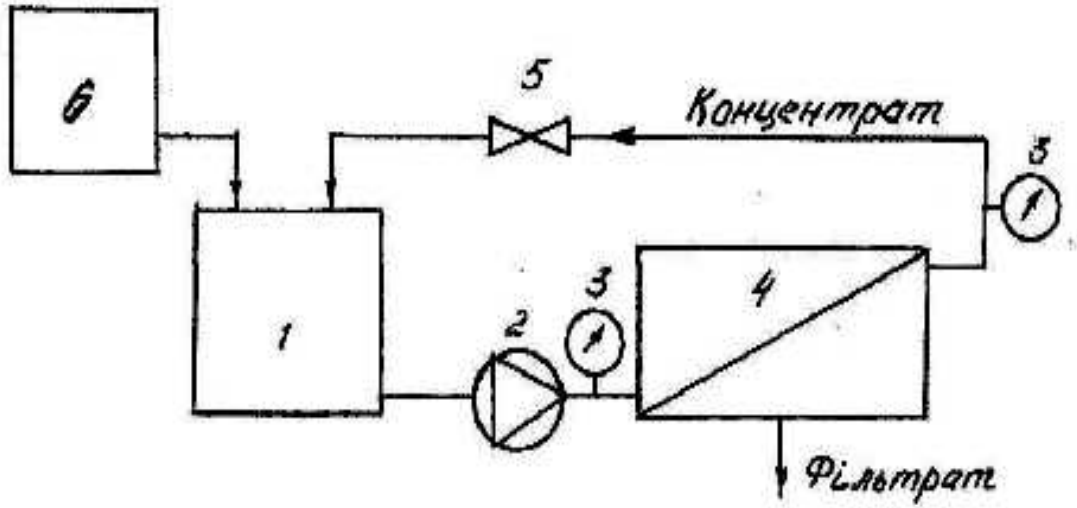
$$G = g * 60 * 1000 * 10 , / 2 * , (2.2.5)$$

g- , / 0,1 2 * .;

60- . ;

1000- ;

10- 2.



. 2.1 -

1 -

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; 4 -

; 5 -

; 6 -

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. 2.2



Porengröße
Pore Size

0.45 µ

Membranfilter
Membrane Filters

S/Pcs. 100

Catalog No.

SM 11306

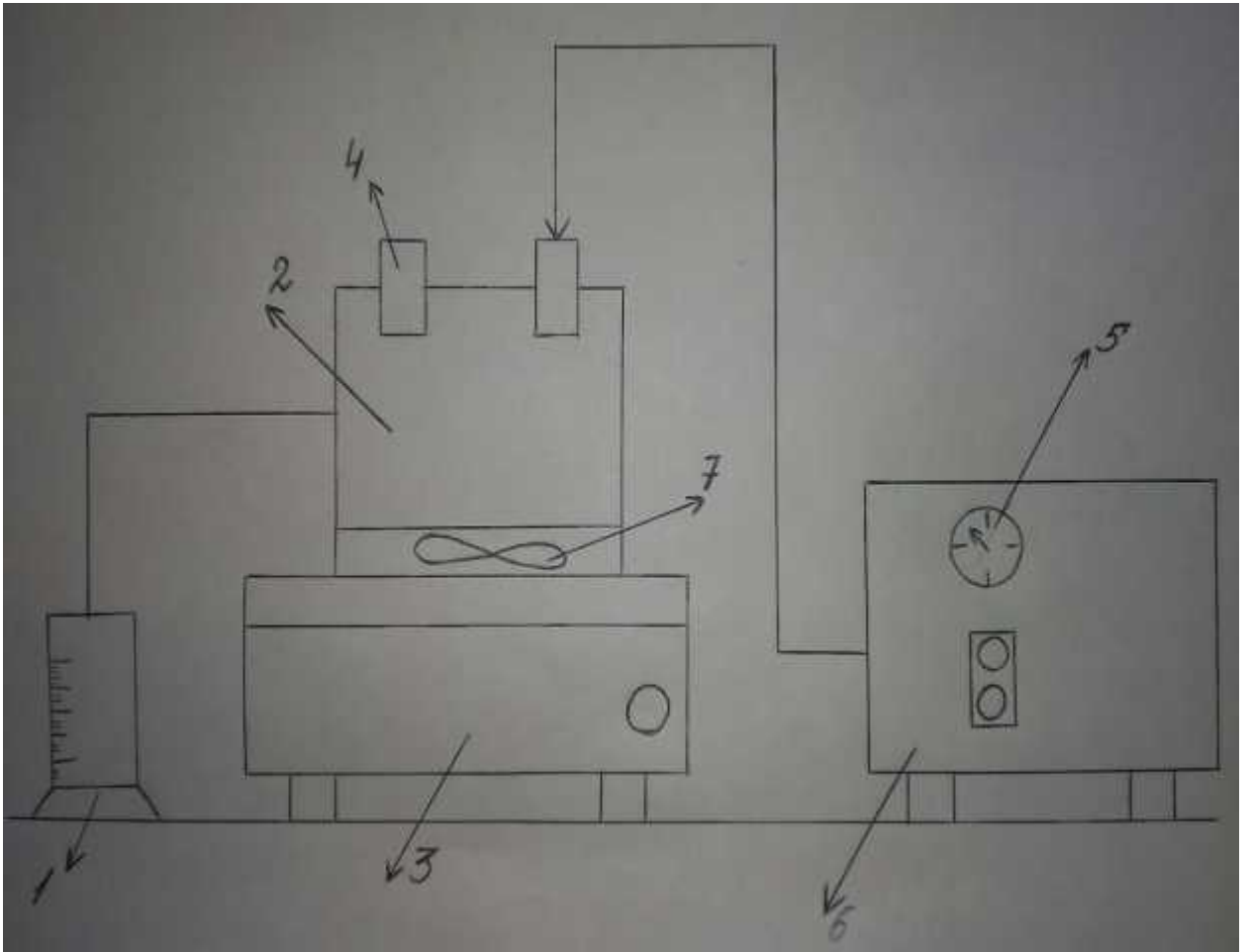
Format/Size

50 mm

SARTORIUS - MEMBRANFILTER GMBH
34 GÖTTINGEN - WEST GERMANY

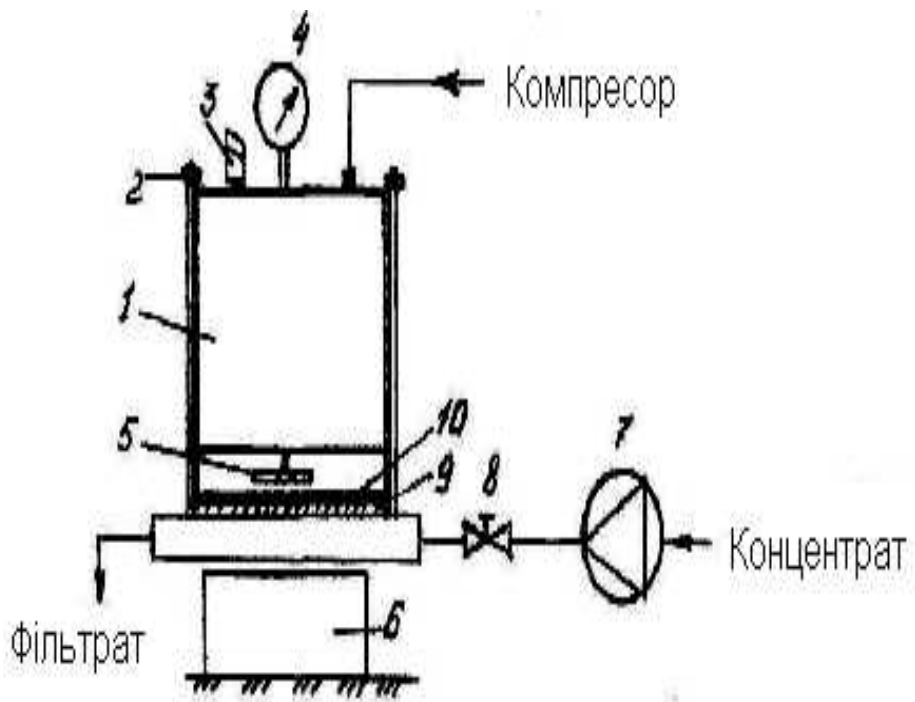


2.4 –



.2.5

- 1- ;
- 2- ;
- 3- ;
- 4- ;
- 5- ;
- 6- ;
- 7- ;



. 2.6 -

-0,1

- 1 - ; 2 - ; 3 - ; 4 -
- ; 5 - ; 6 - ; 7 - ; 8 - ; 9 -
- ; 10 - .



.2.7

SARTORIUS

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3.1.

3.1

3.1-

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, 5	78,1	
,	205,2	580,0
/	2,6	2,5
,	325,0	433,0
, /	8,5	10
	3.2×10^5	
	2.0×10^4	
, /	0.16	1,5
, /	30.9	350

*

[1134 13. 12. 2023 / https://zakon.rada.gov.ua/laws/show/z0056-18#Tex](https://zakon.rada.gov.ua/laws/show/z0056-18#Tex)

/ (2,6 2,5).

3.2

25⁰

0,05

3.2

.3.1.

3.2-

	,	Qzf 10, / 2*	Qzf 50, / 2*
1	0,5	220	550
2	1,0	200	500
3	1,5	186	466
4	2,0	175	420
5	2,5	167	358
6	3,0	150	345
7	3,5	146	320
8	4,0	130	255
9	4,5	127	240
10	5,0	125	230

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3.2.

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ZF10

	,	Qzf10, / 2	Qzf10 / 2 +	Qzf50, / 2	Qzf50, / 2 +
1	0,5	290	185	490	390
2	1	260	160	460	360
3	1,5	230	135	420	340
4	2	210	120	400	320
5	2,5	205	115	395	315

80%.

100%.

0,05...0,3

25⁰ .

3.3.

.3.3.

3.4-

		Qzf 10, / 2*	Qzf 50, / 2*
1	0,05	220	550
2	0,10	225	555
3	0,15	232	561
4	0,20	235	565
5	0,25	240	567
6	0,30	240	567

3.1-3.4.

.2.2. 2.3.

25-26 0

0,30

3.5.

3.5-

	'	Qzf 10, / 2*	Qzf 10, / 2*	Qzf 50, / 2*	Qzf 50, / 2*
1	0,05	220	230	550	558
2	0,10	225	245	555	565
3	0,15	232	260	561	578
4	0,20	235	268	565	585
5	0,25	240	275	567	595
6	0,30	240	275	567	595

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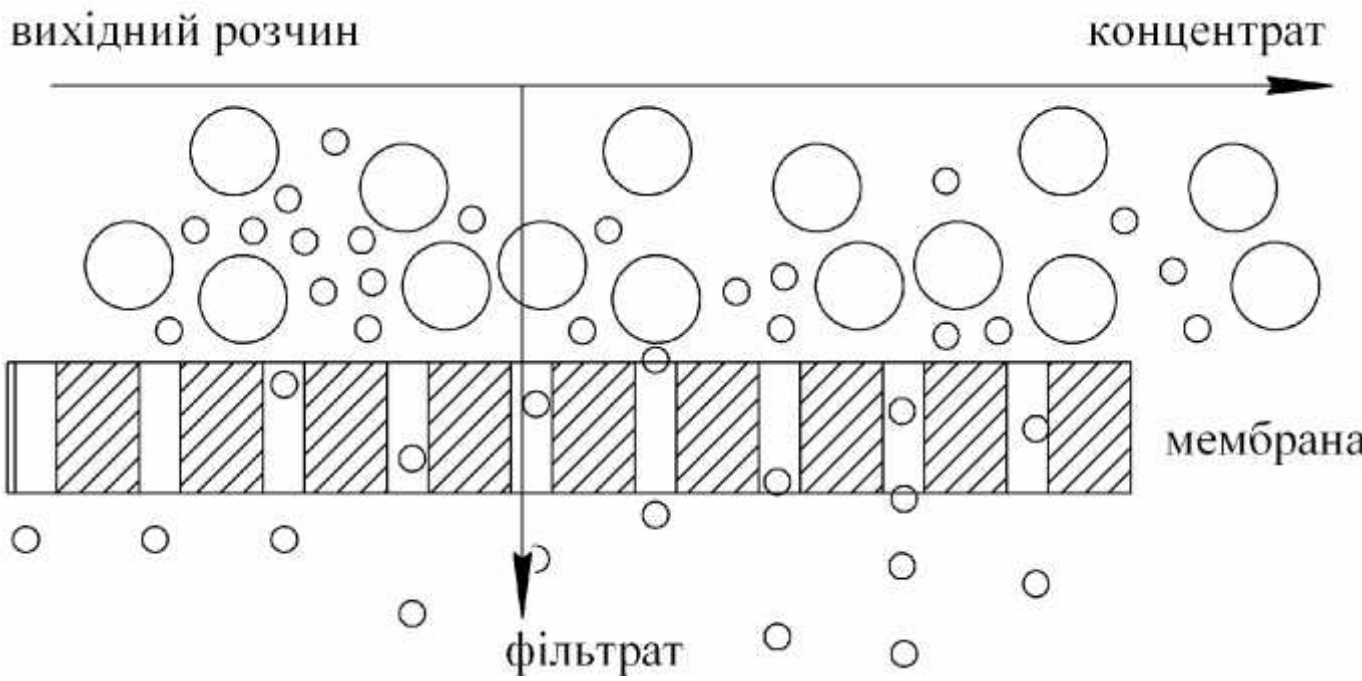
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ZF10.

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, 5	78,1	20,1
,	205,2	30,15
/	2,6	1,5
,	325,0	0
, /	8,5	0
	3.2×10^5	5-15
	2.0×10^4	
, /	0.16	0,08
, /	30.9	15,7

3.7-

ZF50.

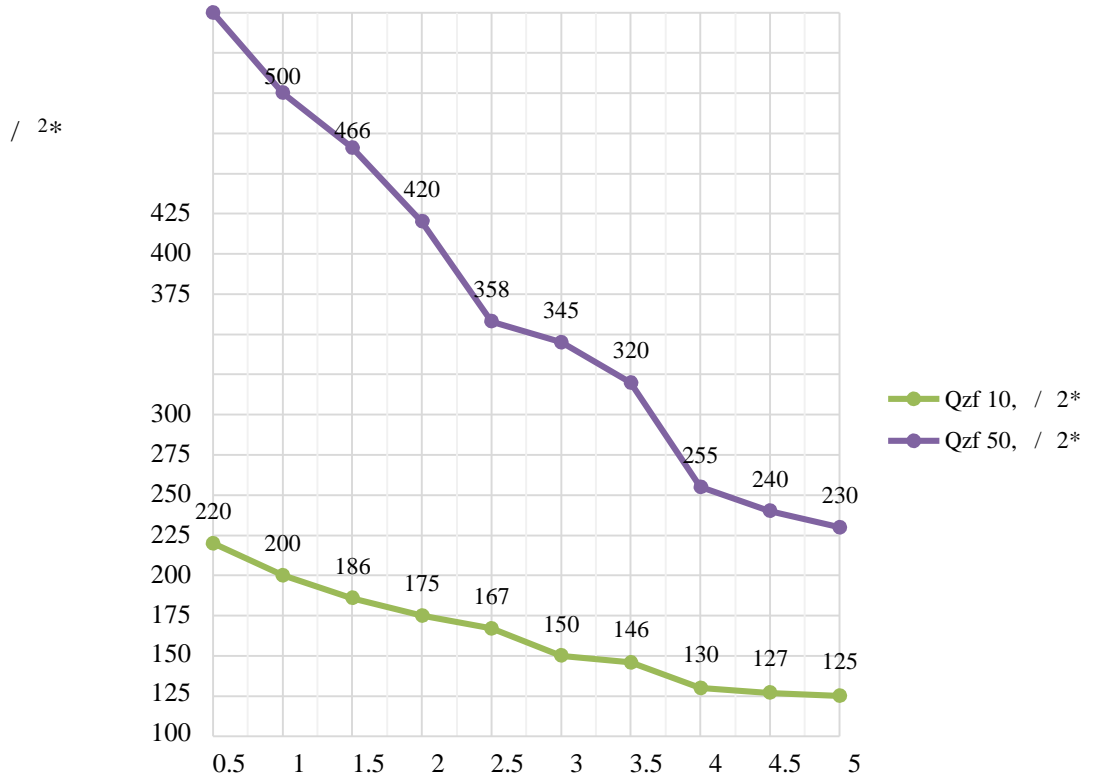
,	7,5	7,6
, 5	78,1	25,1
,	205,2	37,15
/	2,6	1,48
/	325,0	0
, /	8,5	0
	3.2×10^5	10-30
	2.0×10^4	
, /	0.16	0,09
, /	30.9	18,5

ZF10 ZF50

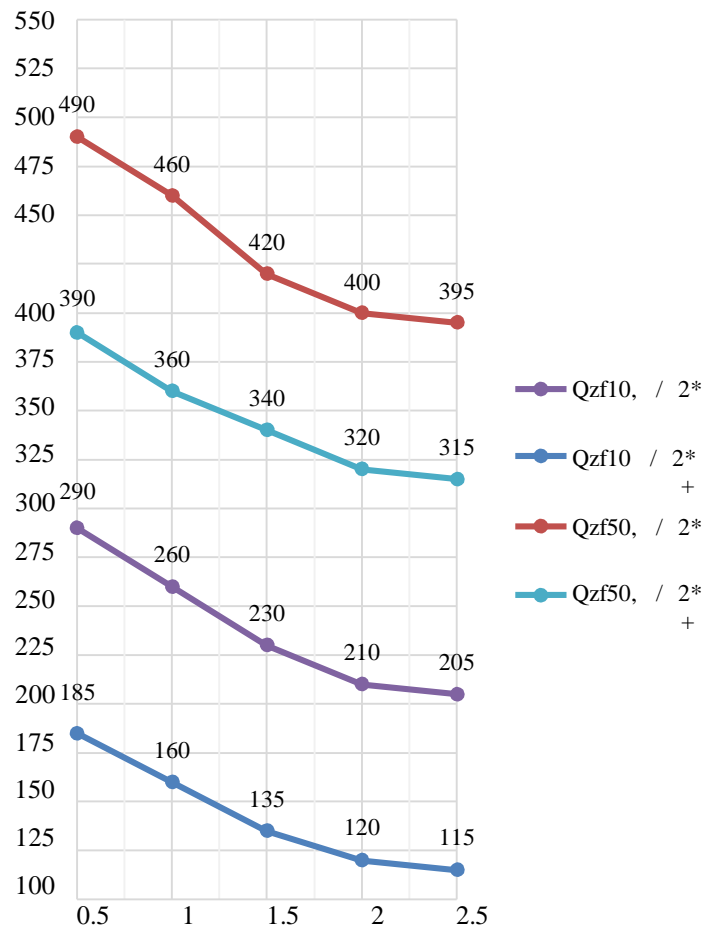
4

3.1

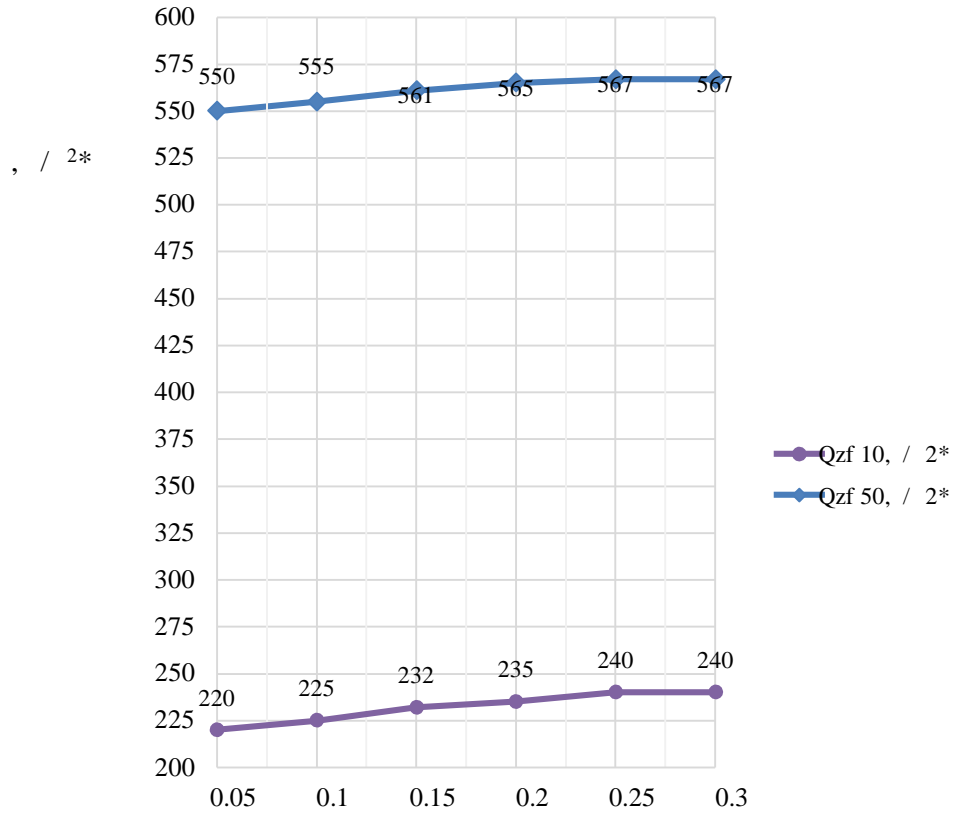
40%.



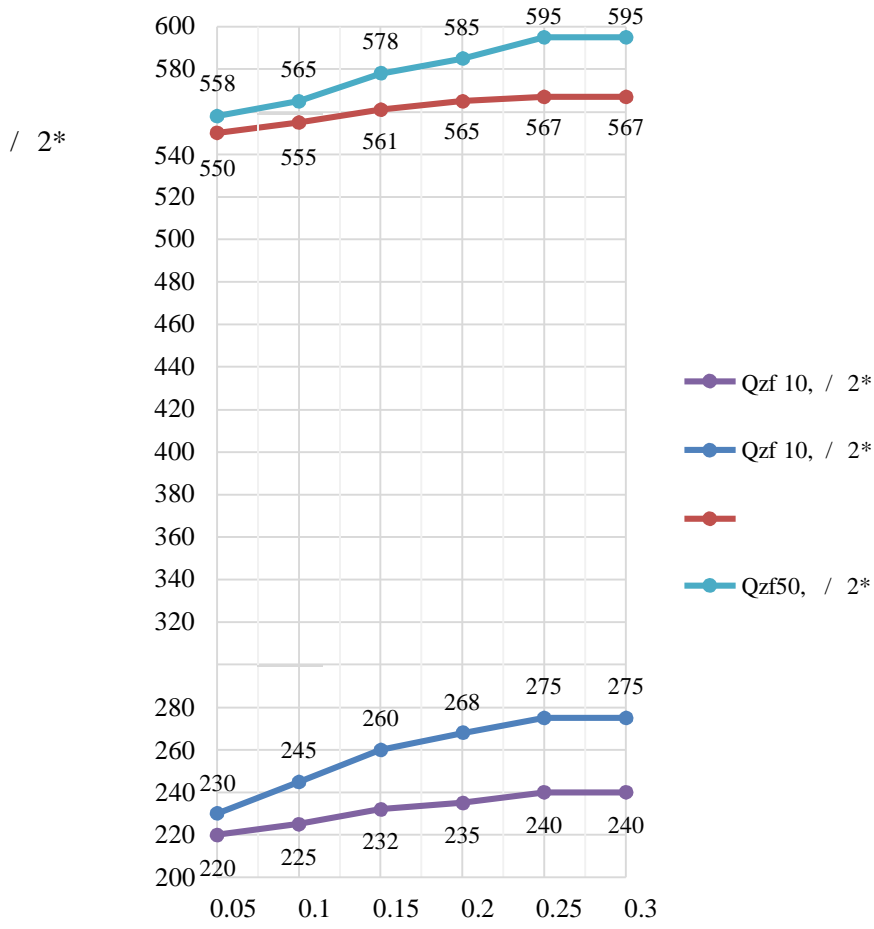
.3.2



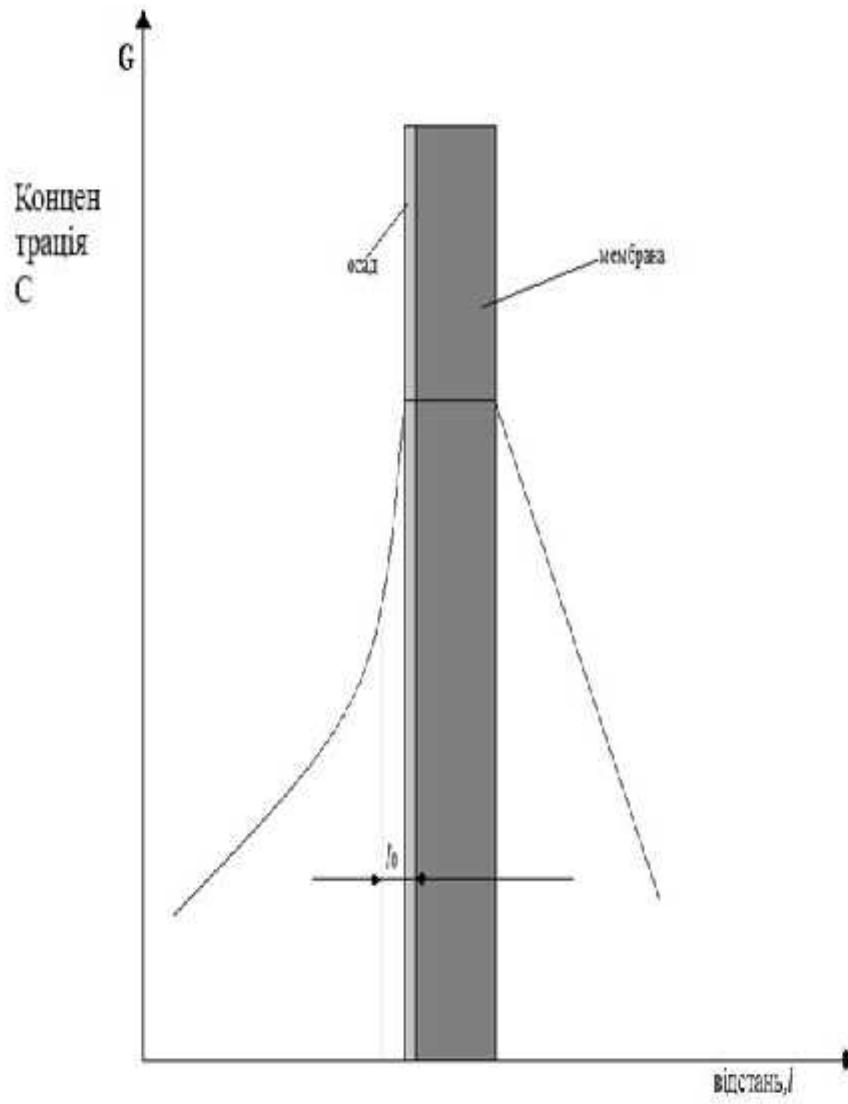
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4.2.2

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20-24	75	0,2	17-25

4.4.3.

4.4.4

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	1000	300	750	200

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ZF10

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80%.

13.

14.

15...16%

15.

16.

ZF10 ZF50

4 3.1

17.

40%.

1. URL: <https://zakon.rada.gov.ua/laws/show/213/95-%D0%B2%D1%80#Text>
2. , 2012. 234 .
3. 3013-95 "
4. []/ , // « » (82-) . – 2017. – : http://eprints.kname.edu.ua/47148/1/ilovepdf_com-174-175.pdf.
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