

МАКЕТ

АКЦИОНЕРНОЕ ОБЩЕСТВО
НАУЧНО-ИССЛЕДОВАТЕЛЬСКИЙ ИНСТИТУТ
ЖЕЛЕЗНОДОРОЖНОГО ТРАНСПОРТА (АО «ВНИИЖТ»)

ПРОЕКТНО-КОНСТРУКТОРСКОЕ БЮРО ЛОКОМОТИВНОГО ХОЗЯЙСТВА -
ФИЛИАЛ ОАО «РЖД» (ПКБ ЦТ)

СПРАВОЧНИК

**Тормоза подвижного состава железных дорог
Российской Федерации**

Первая редакция

Москва
2020



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РУТ (МИИТ)



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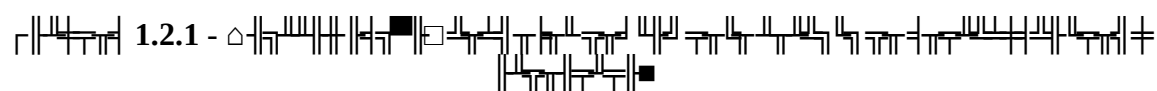
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0,03

85%

95 %



1.2.2.5	1.2.2.6	1.2.3.4
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1.2.2.8	1.2.2.8	-

* 1.2.2.5, 1.2.2.6, 1.2.2.7, 1.2.2.8

1.2.2

1.2.2.1 -

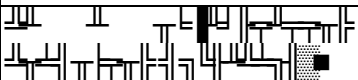
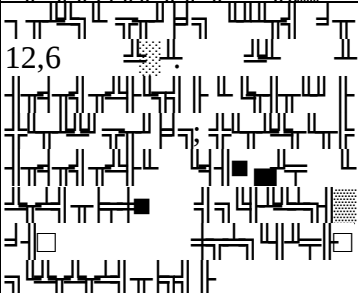
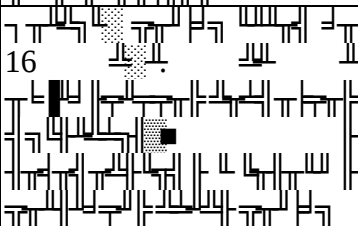
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	0,49-0,51 (5,0-5,2)
0,018	0,52-0,54 (5,3-5,5)
	0,47 (4,8)
0,52-0,54 (5,3-5,5)	0,018

1.2.2.2

	C	C	C	C
	- 6 = 8,3 () - 8,3 = 9,0 () - 350 = 520 ()	- 23,5 12,6 25 14,2	- 6 = 12 ()	- 8,0 = 16,0

1.2.2.3 () 0,015

8 7/7			100 2		
1	2	3	4	5	6
1.	350	()	55	$\frac{100}{90}$	$\frac{1200}{1200}$
2.		()	60	$\frac{120}{100}$	$\frac{1300}{1300}$
3.		()	33	$\frac{80(90)}{70}$	$\frac{1200(1500)}{1200}$
4.		()	44	$\frac{90}{80}$	$\frac{1200}{1200}$
5.		()	60	$\frac{120}{100}$	$\frac{1500}{1300}$
6.					
6.1	350 400	()	44	$\frac{90}{80}$	$\frac{1200}{1200}$
6.2	400 520	()	33	$\frac{80(90)}{70}$	$\frac{1200(1500)}{1200}$
6.3	14,2	()	33	$\frac{70(80)}{65}$	$\frac{1200(1300)}{1200}$

1	2	3	4	5	6
					
6.4			33	$\frac{75(85)}{65}$	$\frac{1200(1400)}{1200}$
6.5			33	$\frac{70(80)}{65}$	$\frac{1200(1400)}{1200}$

1.2.2.4				
		400		
300	300 400			
0,03	0,05	0,07	0,45	0,42

		0,06-0,08
		0,04-0,06
		0,05-0,06
		0,07-0,09
		0,06-0,07
		0,05-0,08
		0,06-0,09
		0,04-0,06
		0,08-0,10
		0,05-0,06
		0,06-0,07
		0,03-0,08
		0,04-0,10
		0,06-0,09
		0,08-0,10

		0,15-0,17
		0,018
		0,35
		0

1.2.2.6 -

		101-150	151-200	201-250	251-300	301-350	351-400	401-450	451-480	481-530
1000	58	40	29	25	23	20	17	15	13	11
1200	69	46	34	29	25	22	20	18	15	13
1500	80	58	46	34	31	26	23	21	17	15
1800	98	69	52	46	38	33	29	26	22	20
2000	104	75	58	52	40	36	32	29	24	22
2500	129	93	71	64	51	45	40	36	30	28
3000	207	138	102	87	75	66	60	51	45	33
	351-400		401-500		501-600		601-700		701-780	
	15		13		10		9		8	

1.2.2.7 -

	0	0,002	0,004	0,006	0,008	0,010	0,012
	0,2	0,2	0,2	0,2	0,2	0,3	0,4

	0,4	0,4	0,4	0,4	0,6	0,8	1,0
	0,4	0,4	0,4	0,4	0,6	0,8	1,0
	0,014	0,016	0,018	0,020	0,022	0,024	0,026
	<u>0,4</u> 1,2	<u>0,5</u> 1,4	<u>0,6</u> 1,6	<u>0,6</u> 1,8	<u>0,7</u> 2,0	<u>0,8</u> 2,2	<u>0,8</u> 2,4
	1,2	1,4	1,6	1,8	-	-	-
	0,028	0,030	0,032	0,034	0,036	0,038	0,040
	<u>0,9</u> 2,6	<u>1,0</u> 2,8	<u>1,0</u> 3,0	<u>1,1</u> 3,2	<u>1,2</u> 3,4	<u>1,2</u> 3,6	<u>1,3</u> 3,8
	-	-	-	-	-	-	-

1.

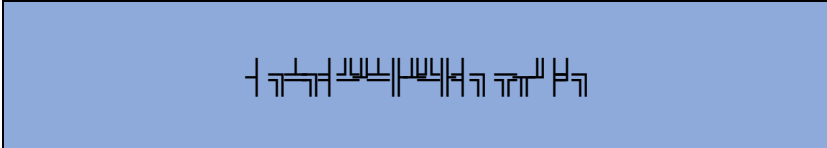
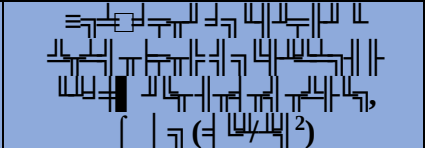
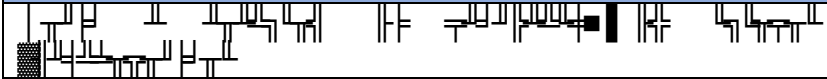
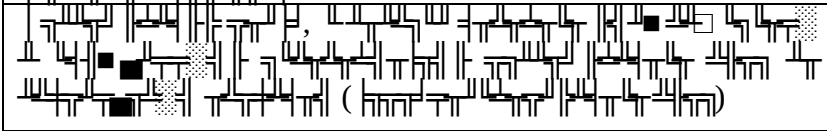
2.

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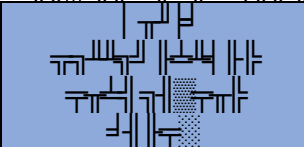
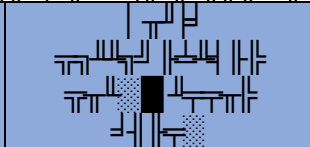
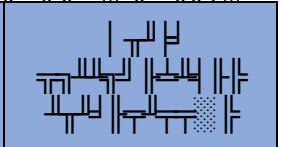
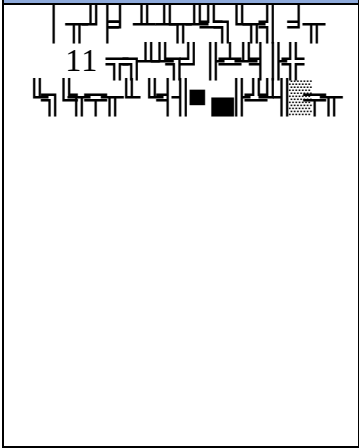
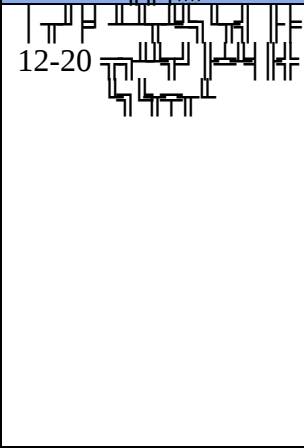
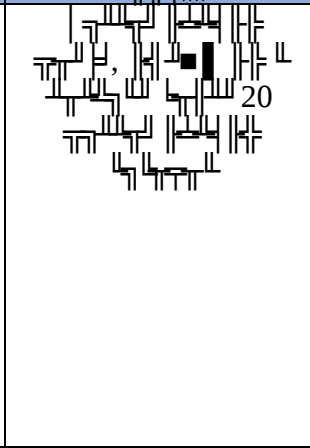
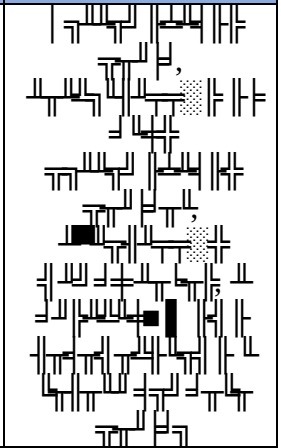
20	20	50 (490)/ 40 (392)	120 (1176) / 130 (1275)	140 (1373)/ 130 (1275)	130 (1275)/ 130 (1275)
	60 (294) / 40 (392)	50 (490)/ 40 (392)	120 (1176) / 130 (1275)	140 (1373)/ 130 (1275)	130 (1275)/ 130 (1275)

1.2.3 |

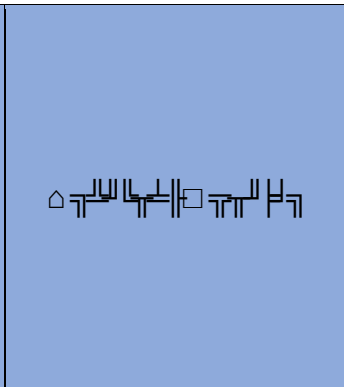
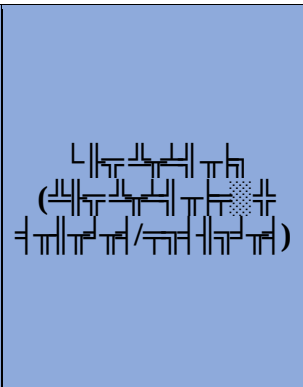
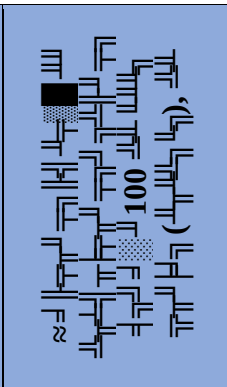
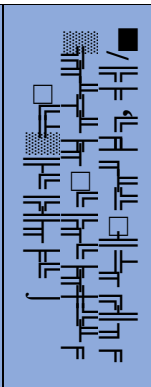
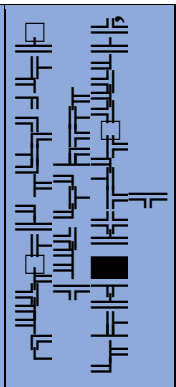
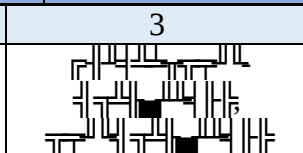
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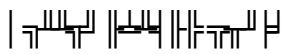
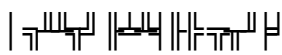
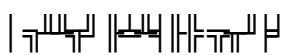
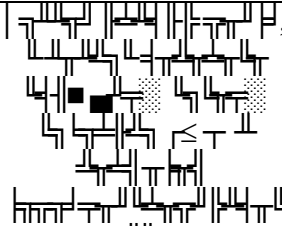
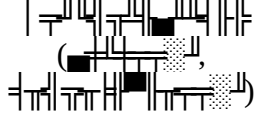
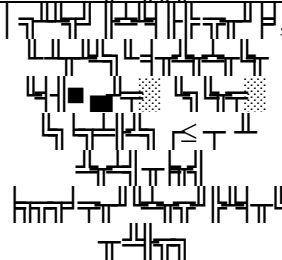
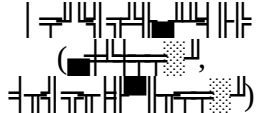
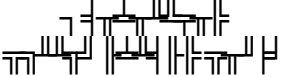
	
	0,44-0,47 (4,5ñ4,8)
	0,49-0,51 (5,0-5,2)
	0,47-0,49 (4,8-5,0)

 1.2.3.2

			
 11	 12-20	 20	

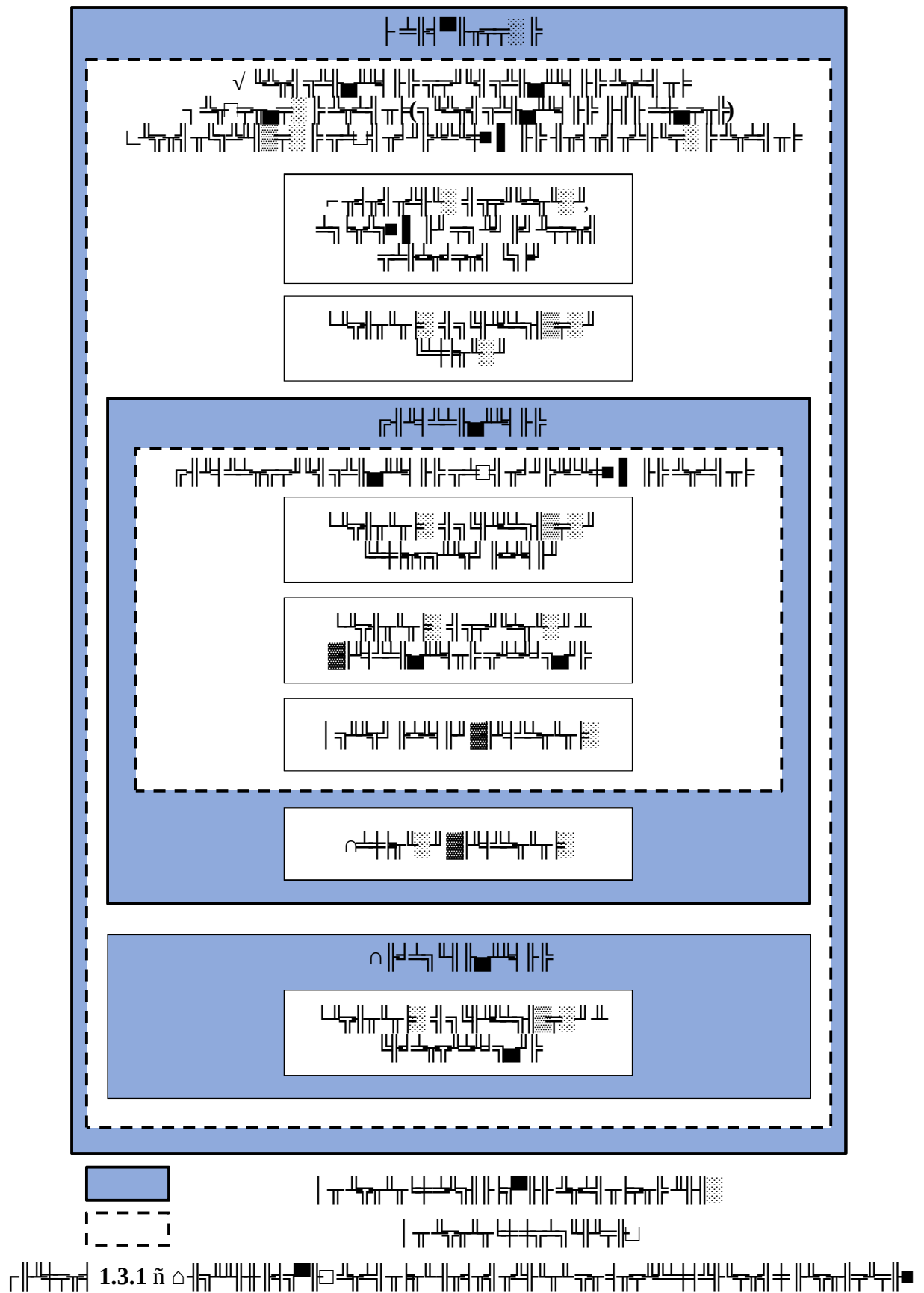
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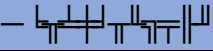
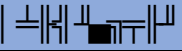
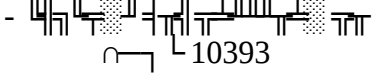
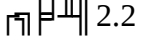
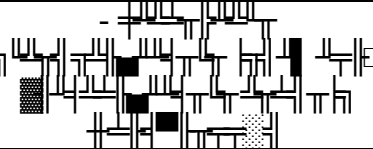
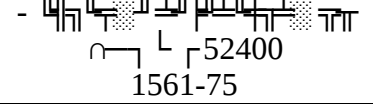
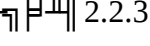
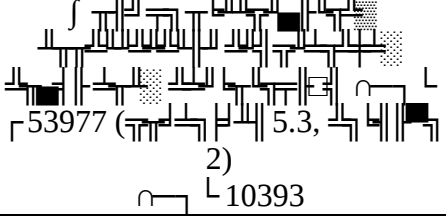
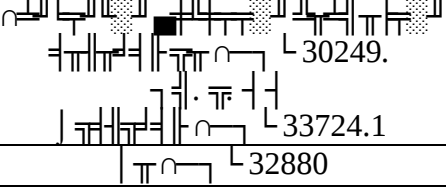
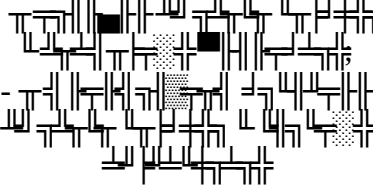
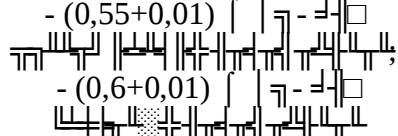
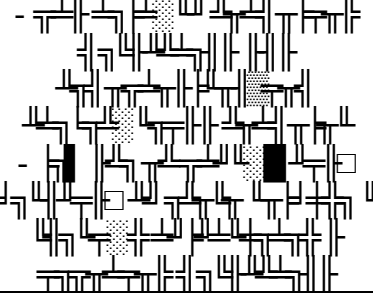
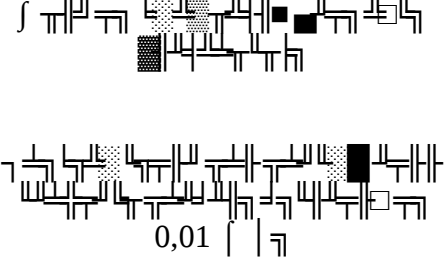
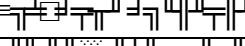
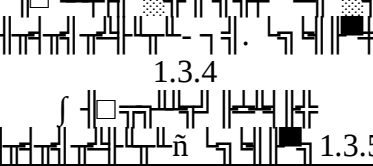
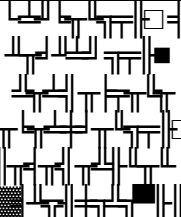
					
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1			60	$\frac{120}{110}$	$\frac{1300}{1300}$

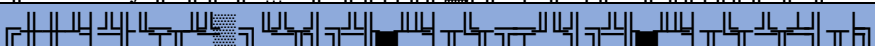
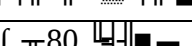
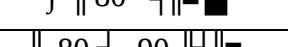
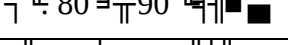
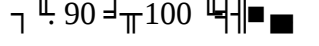
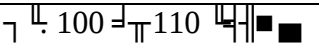
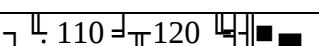
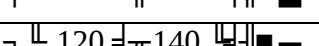
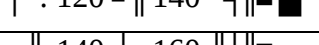
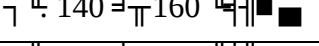
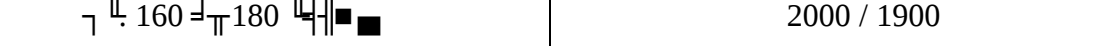
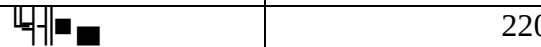
1	2	3	4	5	6
					
2			68	$\frac{130}{-}$	$\frac{1300}{-}$
3			78	$\frac{140}{-}$	$\frac{1300}{-}$
4			80	$\frac{160}{-}$	$\frac{1700}{-}$
5			70	$\frac{140}{-}$	$\frac{1600}{-}$
6			80	$\frac{160}{-}$	$\frac{1800}{-}$
7			95	$\frac{200}{-}$	$\frac{2300}{2400}$
8			120	$\frac{200}{-}$	$\frac{1800}{1900}$

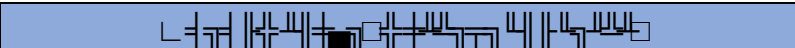
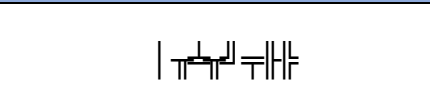
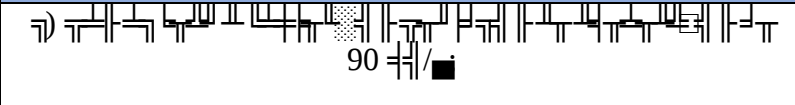
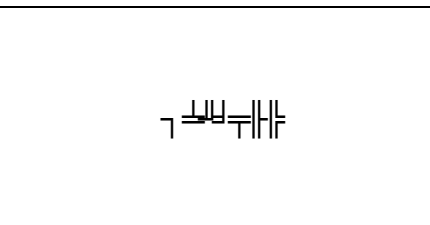
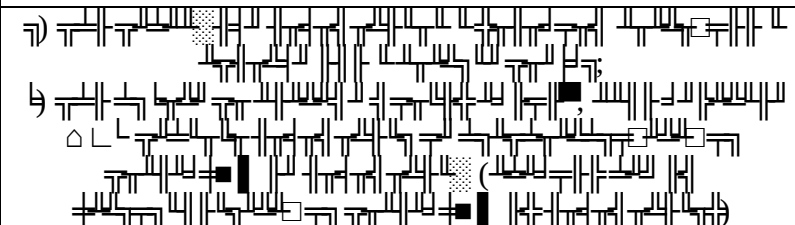
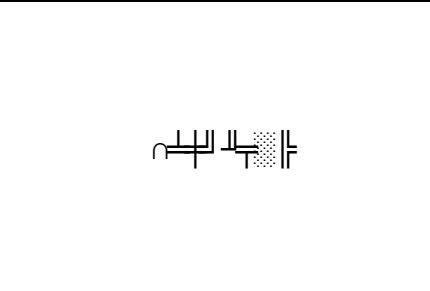
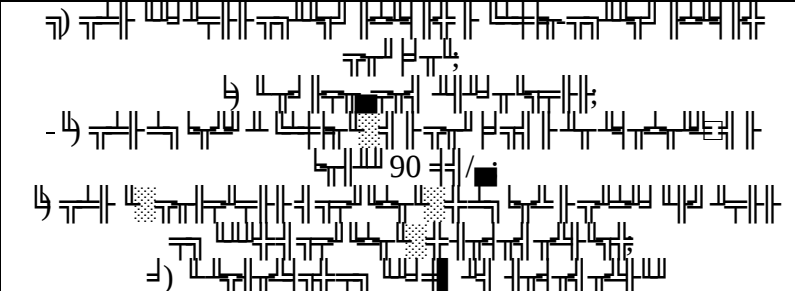
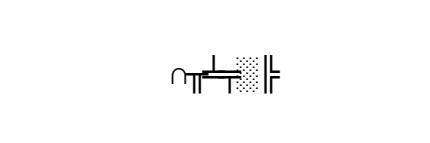
1.2.3.4

		0,05-0,06
		0,07-0,08
		∫ 0,10-0,20
		0,06-0,07
		∫ 0,15-0,25
		0,03-0,06
		∫ 0,05-0,15



		
	 10393	 2.2
		-
	 52400 1561-75	 2.2.3
		 53977 (5.3, 2) 10393
		-
	 ()	 30249. 33724.1 32880
		 - (0,55+0,01) ; - (0,6+0,01)
		 0,01
	 1.2.2	-
	 1.3.4 1.3.5	-
	 1.3.4	-

	
	
	
	550 / 505
	710 / 655
	830 / 770
	900 / 840
	1080 / 1010
	1180 / 1100
	1560 / 1470
	2000 / 1900
	2200 / 2100
	
	
	 30a

1.2.5 -	

1.3.1 סדרת תוכנית לשינוי תוכנית - תוכנית לשינוי תוכנית

1.3.1.1 סדרת תוכנית לשינוי תוכנית - תוכנית לשינוי תוכנית

1.3.1.1 סדרת תוכנית לשינוי תוכנית - תוכנית לשינוי תוכנית

שם התוכנית	פרמטרים כלליים				
	85	80	80	80	60
פרמטרים כלליים					
שם התוכנית					
סדרת תוכנית	1983	1967	1979	1974	1957
סדרת תוכנית	110	110	110	110	100
סדרת תוכנית	2(20-20)	2(20-20)	2(20-20)	2(20-20)	(30-30)
סדרת תוכנית	288	192±4	192±4	192±4	138
סדרת תוכנית	282	188	188	188	136
סדרת תוכנית	2000	1232	1232	1232	1232
סדרת תוכנית	225±4,9	204,6±1	235±5	235±7,5	204,6
פרמטרים כלליים					
סדרת תוכנית	5100	5100	5100	5100	5100
סדרת תוכנית	45000	16420 (16420)	16420 (16420)	16420 (16420)	20800
פרמטרים כלליים					
סדרת תוכנית	10000	6520	6520	6520	4590
סדרת תוכנית	726	45100	45100	45100	31860
סדרת תוכנית	49,1	51,6	51,6	51,6	52,0
סדרת תוכנית	9400	6160	6160	6160	4070

החלקים והפרטים	הפרטים הכלכליים והמסדי				
	85 ₪	80 ₪	80 ₪	80 ₪	60 ₪
החלקים והפרטים הכלכליים והמסדי	50	53,6	53,6	53,6	55,6
החלקים והפרטים הכלכליים והמסדי	660	409	409	409	188,6
החלקים והפרטים הכלכליים והמסדי	86	84	84	84	84
החלקים והפרטים הכלכליים והמסדי	53,6	53,6	53,6	53,6	53,6
החלקים והפרטים הכלכליים והמסדי	637,4	637,4	637,4	637,4	637,4
החלקים והפרטים הכלכליים והמסדי	4,19	4,19	4,19	4,19	2,73
הפרטים הכלכליים והמסדי					
החלקים והפרטים הכלכליים והמסדי	החלקים והפרטים הכלכליים והמסדי	החלקים והפרטים הכלכליים והמסדי	החלקים והפרטים הכלכליים והמסדי	החלקים והפרטים הכלכליים והמסדי	החלקים והפרטים הכלכליים והמסדי
החלקים והפרטים הכלכליים והמסדי	החלקים והפרטים הכלכליים והמסדי	-	-	החלקים והפרטים הכלכליים והמסדי	-
החלקים והפרטים הכלכליים והמסדי	-	5480	5480	-	החלקים והפרטים הכלכליים והמסדי
החלקים והפרטים הכלכליים והמסדי	-	החלקים והפרטים הכלכליים והמסדי	החלקים והפרטים הכלכליים והמסדי	-	החלקים והפרטים הכלכליים והמסדי
הפרטים הכלכליים והמסדי					
החלקים והפרטים הכלכליים והמסדי	637	350	350	325	החלקים והפרטים הכלכליים והמסדי
החלקים והפרטים הכלכליים והמסדי	75:392	220	220	225	החלקים והפרטים הכלכליים והמסדי
החלקים והפרטים הכלכליים והמסדי	110:78,4	200	200	49	החלקים והפרטים הכלכליים והמסדי
הפרטים הכלכליים והמסדי					
החלקים והפרטים הכלכליים והמסדי	החלקים והפרטים הכלכליים והמסדי	החלקים והפרטים הכלכליים והמסדי	החלקים והפרטים הכלכליים והמסדי	החלקים והפרטים הכלכליים והמסדי	החלקים והפרטים הכלכליים והמסדי
החלקים והפרטים הכלכליים והמסדי	2,75	2,75	2,75	2,75	2,75
החלקים והפרטים הכלכליים והמסדי	2100	1800	1800	1800	1800
החלקים והפרטים הכלכליים והמסדי	395	395	395	395	395

פירוט מפרט	מפרט כללי				
	85	80	80	80	60
מפרט כללי	254	254	254	254	254
מפרט כללי					
מפרט כללי					
מפרט כללי	356	254	254	254	254
מפרט כללי:					
מפרט כללי	4	4	4	4	6
מפרט כללי	32	32	32	32	24
מפרט כללי	4	4	4	4	4
מפרט כללי	70-85	100-120	100-120	100-120	100-120
מפרט כללי	150	180	180	180	180
מפרט כללי	1,43	2,88	2,88	2,88	2,88
מפרט כללי	4	4	4	4	6
מפרט כללי	1	1	1	1	1
מפרט כללי					
מפרט כללי	12	8	8	8	6
מפרט כללי:					
מפרט כללי	137,3 (14)	137,3 (14)	137,3 (14)	137,3 (14)	107,9 (11)
מפרט כללי	58,9 (6)	58,9 (6)	58,9 (6)	58,9 (6)	49 (5)
מפרט כללי	1	1	1	1	1
מפרט כללי					
מפרט כללי	0,58	0,58	0,58	0,58	0,48

חומר גלם	חומר גלם				
	85	80	80	80	60
חומר גלם	חומר גלם	חומר גלם	חומר גלם	חומר גלם	חומר גלם
חומר גלם	1.3.2.1.3	1.3.2.1.4	1.3.2.1.4	1.3.2.1.4	1.3.2.1.5
חומר גלם	2.8.1.1.5	2.8.1.1.5	2.8.1.1.5	2.8.1.1.5	2.8.1.1.2

1.3.1.2 חומר גלם

חומר גלם	חומר גלם					
	5	5	5	5	5	7
חומר גלם						
חומר גלם	חומר גלם	חומר גלם	חומר גלם	חומר גלם	חומר גלם	חומר גלם
חומר גלם	2012	2006	2006	2006	2004	2013
חומר גלם	120	110	110	110	110	120
חומר גלם	2(2-2)	2(2-2)	3(2-2)	4(2-2)	2-2	2(2-2)
חומר גלם	200 ± 4	200±4	300±6	400±8	102±2	200±2
חומר גלם	חומר גלם	188	296	376	101	חומר גלם
חומר גלם	1200	1200	1200	1200	600	חומר גלם
חומר גלם	245±4,9	235±5	235±5	235±5	250,1±4,9 (25,5±0,5)	245,2±2,3
חומר גלם						
חומר גלם						
חומר גלם	חומר גלם	5100	5100	5100	5050	חומר גלם
חומר גלם	17500	35004	52506	70008	19300	34 000

	2 5	2 5	3 5	4 5	5	2 7
	8800	6560	9840	13120	3280	8800
	690 (70,4)	464 (47,3)	696 (71,0)	928 (94,6)	232 (23,65)	621 (63,3)
	45	49,9	49,9	49,9	49,9	50
	8400	6120	9180	12240	3060	8400
	55	51	51	51	51	55
	595 (60,7)	423 (43,1)	634 (64,7)	845(86,1)	211,5 (21,55)	538 (54,1)
	86	85	85	85	85	88
		4,19	4,19	4,19	4,19	
	7600					8400
		450 (45,9)	500 (51,0)	500 (51,0)	225 (22,95)	
		300 (30,6)	450 (45,9)	500 (51,0)	150 (15,3)	
		250 (25,5)	375 (38,2)	500(51,0)	125 (12,75)	
	W450- L	L -3.5/10-1450	L -3.5/10-1450	L -3.5/10-1450	L -3.5/10-1450	√ L 3.5/1

	2 5	2 5	3 5	4 5	5	2 7
	3,5	3,5	3,5	3,5	3,5	3,5
	1050	2100	3150	4200	1000	2000
	130 (KKM/SM7)	395	395	395	395	
		215-1	215-1	215-1	215-1	
	2	4	4	4	4	4
	32	32	48	64	32	32
	4	4	4	4	4	4
		70-85	70-85	70-85	70-85	
		150	150	150	150	
		1,43	1,43	1,43		
	-	4	6	8	2	2

1.3.1.2 סוגי תשתיות ופיקוד ומערכת

1.3.1.2.1 סוגי תשתיות ופיקוד ומערכת - תוכנית המבנה הכללי

סוג תשתית	סוגי תשתיות ופיקוד ומערכת				
	2 ק"מ 6	2 ק"מ 10	3 ק"מ 10	3 ק"מ 40	15 ק"מ
סוגי תשתיות ופיקוד ומערכת					
סוגי תשתיות ופיקוד ומערכת	סוגי תשתיות ופיקוד ומערכת	סוגי תשתיות ופיקוד ומערכת	סוגי תשתיות ופיקוד ומערכת	סוגי תשתיות ופיקוד ומערכת	סוגי תשתיות ופיקוד ומערכת
סוגי תשתיות ופיקוד ומערכת	2006	2010	2010	2008	1984
סוגי תשתיות ופיקוד ומערכת	120	120	120	120	100
סוגי תשתיות ופיקוד ומערכת	2 × (2 ÷ 2)	2 × (2 ÷ 2)	3 × (2 ÷ 2)	3 × (2 ÷ 2)	2 × (2 ÷ 2 -2)
סוגי תשתיות ופיקוד ומערכת	204	200±2	300±2	294±6	288
סוגי תשתיות ופיקוד ומערכת	202	סוגי תשתיות ופיקוד ומערכת	סוגי תשתיות ופיקוד ומערכת	סוגי תשתיות ופיקוד ומערכת	282
סוגי תשתיות ופיקוד ומערכת	1246	סוגי תשתיות ופיקוד ומערכת	סוגי תשתיות ופיקוד ומערכת	1200	סוגי תשתיות ופיקוד ומערכת
סוגי תשתיות ופיקוד ומערכת	245 ±4,9	245,5±2,3	245,5±2,3	240±4,9	250±4,9
סוגי תשתיות ופיקוד ומערכת					
סוגי תשתיות ופיקוד ומערכת	1040-1080	980-1080	980-1080	1060	1040-1080
סוגי תשתיות ופיקוד ומערכת					
סוגי תשתיות ופיקוד ומערכת	5100	5100	5100	5050	5100
סוגי תשתיות ופיקוד ומערכת	7000-5500 ק"מ	7000-5500 ק"מ	7000-5500 ק"מ	5500-7000	7000-5500 ק"מ 6999
סוגי תשתיות ופיקוד ומערכת	34000	34000	51000	52506 ⁺¹⁰⁸ ₋₆₈	45000
סוגי תשתיות ופיקוד ומערכת					
סוגי תשתיות ופיקוד ומערכת	סוגי תשתיות ופיקוד ומערכת	סוגי תשתיות ופיקוד ומערכת	סוגי תשתיות ופיקוד ומערכת	סוגי תשתיות ופיקוד ומערכת	סוגי תשתיות ופיקוד ומערכת
סוגי תשתיות ופיקוד ומערכת	6480	8800	13200	9300	9000
סוגי תשתיות ופיקוד ומערכת	464 (47,3)	570 (58,1)	807 (82,3)	651 (66,4)	675 (68,8)

	2 6	2 10	3 10	3 4	15
	49,2	50	50	50	46,8
	6040	8400	12600	8605	8400
	51	80	80	51,6	47,9
	418 (42,6)	370 (37,7)	555 (56,6)	586 (59,7)	610 (62,2)
		87,5	87,5	88	88
	3,44			3,26	3,83
	5500	5600	8400	4900	
	6600	8400	12600	6100	
	500 ()	500 ()	500 ()		
	$\sqrt{\Delta} \Delta 3.5/1$ $\Delta \Delta 3.5/10$ 	$\sqrt{\Delta} \Delta 3.5/1$ $\Delta \Delta 3.5/10$	$\sqrt{\Delta} \Delta 3.5/1$ $\Delta \Delta 3.5/10$	$\Delta -3.5/10-1450$	$\Delta 6$
	3,5	3,5	3,5	3,5	2,75
	2000	2000	3000	2100	6*250 2500
	130	130	130	395	395
	215	215	215	215	254
	483	483	483	483	483

	0,56	0,72	0,72	0,56	0,56
					0,647
	1080	1080	1080	1080	830
	1010	1010	1010	1010	770

1.3.1.2.2 חפצי אבן – חפצי אבן (חפצי אבן)

חפצי אבן	חפצי אבן					
	11	11	11	10	10	10
חפצי אבן						
חפצי אבן	חפצי אבן	חפצי אבן	חפצי אבן	חפצי אבן	חפצי אבן	חפצי אבן
חפצי אבן	1987	1975	2008	2001 - חפצי אבן	2001 - חפצי אבן	1961
חפצי אבן	100	100	100	100	100	100
חפצי אבן	2 × (2 ÷ 2)	2 × (2 ÷ 2)	2 × (2 ÷ 2)	2 × (2 ÷ 2)	2 × (2 ÷ 2)	222222
חפצי אבן (חפצי אבן), 2/3	184 ^{+5,52} _{-1,84}	184 ^{+5,52} _{-1,84}	184 ^{+5,52} _{-1,84}	184±4	200±4	184 ^{+5,52} _{-1,84}
חפצי אבן	180	180	180	180	180	180
חפצי אבן	2000	2000	2000	2000	2000	2000
חפצי אבן	225 ^{+6,75} _{-2,25}	225 ^{+6,75} _{-2,25}	23±0,25	23±0,25	25±0,5	23 ^{+0,69} _{-0,23}
חפצי אבן						
חפצי אבן	1040-1080	חפצי אבן	חפצי אבן	חפצי אבן	1040-1080	1040-1080
חפצי אבן						
חפצי אבן	5120	5120	5120	5120	5120	5120
חפצי אבן	5500-7000	5500-7000	5500-7000	5500-7000	5500-7000	5500-7000
חפצי אבן	32880	32880	32880	32840	32840	32840
חפצי אבן						
חפצי אבן	5360	4 × 650 חפצי אבן	4 × 650 חפצי אבן	5360	5360	5360
חפצי אבן (חפצי אבן)	387	חפצי אבן	חפצי אבן	387	387	387
חפצי אבן	48,7	48,7	48,7	48,3	48,7	48,7
חפצי אבן	4600	4 × 560 חפצי אבן	4 × 560 חפצי אבן	4600	4600	4600
חפצי אבן	51,2	51,2	51,2	51,2	51,2	51,2

	471			314	314	314
	88			90	90	90
	3,83	3,83	3,83	3,83	3,83	3,83
	2,75	2,75	2,75	2,75	2,75	2,75
	2000	1500	2000	2400	1500	1500
	395	395	395	395	395	395
	254	254	254	254	254	254
	483	483	483	483	483	483
	254	254	254	254	254	254
	8	8	8	8	8	8
	4	4	4	4	4	4
	32	32	32	32	32	32
	4	4	4	4	4	4
	100-120	100-120	100-120	100-120	100-120	100-120

የጥቅም ስራ ዓይነት	የጥቅም ስራ ዓይነት ዝርዝር					
	11 ለ	11 ለ	11 ለ	10 ለ	10 ለ	10 ለ
የጥቅም ስራ ዓይነት	180	180	180	180	180	180
የጥቅም ስራ ዓይነት	5,76	5,76	5,76	5,76	5,76	5,76
የጥቅም ስራ ዓይነት	ጋ	ጋ	ጋ	ጋ	ጋ	ጋ
የጥቅም ስራ ዓይነት	4	4	4	4	4	4
የጥቅም ስራ ዓይነት	ጋ	ጋ	ጋ	ጋ	ጋ	ጋ
የጥቅም ስራ ዓይነት	ጋ	ጋ	ጋ	ጋ	ጋ	ጋ
የጥቅም ስራ ዓይነት	ጋ	ጋ	ጋ	ጋ	ጋ	ጋ
የጥቅም ስራ ዓይነት	ጋ	ጋ	ጋ	ጋ	ጋ	ጋ
የጥቅም ስራ ዓይነት						
የጥቅም ስራ ዓይነት	8	8	8	8	8	8
የጥቅም ስራ ዓይነት:						
የጥቅም ስራ ዓይነት	137,3 (14)	137,3 (14)	137,3 (14)	137,3 (14)	137,3 (14)	137,3 (14)
የጥቅም ስራ ዓይነት	58,9 (6)	58,9 (6)	58,9 (6)	58,9 (6)	58,9 (6)	58,9 (6)
የጥቅም ስራ ዓይነት	ጋ	ጋ	ጋ	ጋ	ጋ	ጋ
የጥቅም ስራ ዓይነት	0,61	0,61	0,61	0,61	0,56	0,61
የጥቅም ስራ ዓይነት:						
የጥቅም ስራ ዓይነት	830	830	830	830	830	830
የጥቅም ስራ ዓይነት	770	770	770	770	770	770
የጥቅም ስራ ዓይነት	ጋ	ጋ	ጋ	ጋ	ጋ	ጋ
የጥቅም ስራ ዓይነት	1.3.2.1.9	1.3.2.1.9	1.3.2.1.9	1.3.2.1.9	1.3.2.1.9	1.3.2.1.9
የጥቅም ስራ ዓይነት	2.8.1.1.5	2.8.1.1.5	2.8.1.1.5	2.8.1.1.5	2.8.1.1.5	2.8.1.1.5

1.3.1.3

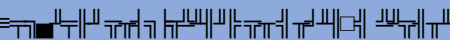
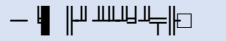
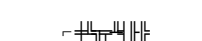
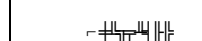
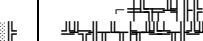
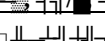
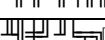
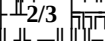
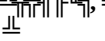
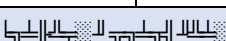
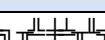
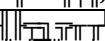
1.3.1.3.1

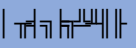
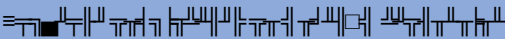
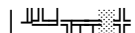
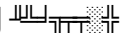
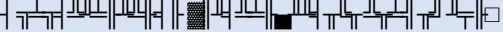
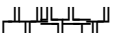
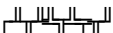
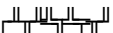
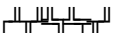
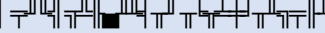
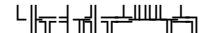
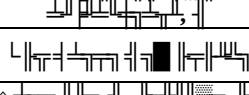
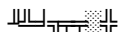
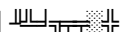
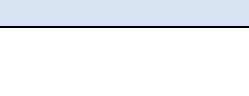
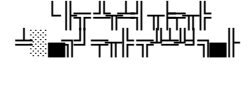
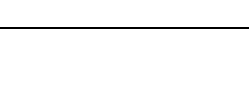
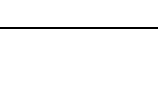
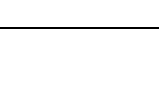
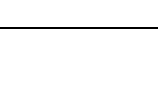
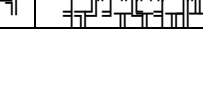
	2006	2005	2014	2004	2014
	120	100	100	110	120
	2×(3π3π)	2×(3π3π)	2×(3π3π)	2×(3π3π)	2π2π
	144	144	144	141	168
	133	133	133	136	
	1050	1050	1520	600	
	235,4	235,4	235,4	230,5	206
	1060	1060	1060	1060	880, 1060
	20000	20000	20000	21700	17750
	1050	1050	1050	1250	1050
	2500, 2700	2500	2650	3000	2000
	2100	2100	2190, 2196	2508	
	3,65	3,89		4,72	

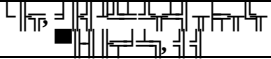
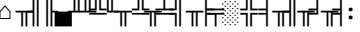
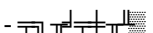
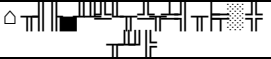
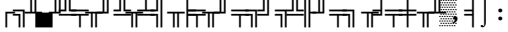
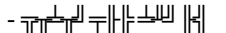
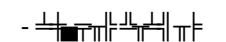
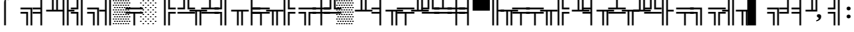
	2 L ₂₅ √, √	2 L ₂₅ Δ	2 L ₂₅ Δ	2 L ₇₀	L ₁₆ (Δ ₁₀₆₇ 1520)
	441,5	419	419,4	520	543
	390	300	323,6	612	343,2
	18, 20	24	23,6	26	20
	2800	2800	2800	3200	
	√Δ L _{4,5/1} J ₂	√Δ L _{4,5/1} J ₂	√Δ L _{4,5/1} J ₂	Δ-5.25√	
	4,5	4,5	4,5		
	1250	1250	1250		
			♂ 395 -3-01	♂ 395 -4	
			215-1		
	♂ 670 L, 203	♂ 553, 203	L ₁₀₋₄₀ , 254		

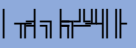
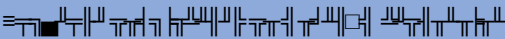
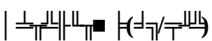
	2	2	2	2	
	48	48	48	48	
	4	4	4	4	
	55	65±5	55		
	120	120	120		
	4	4	4	4	4
	12	12	12	12	8
	140/141 (14,3/14,4)	140/141 (14,3/14,4)	140/141 (14,3/14,4)	137,3 (14)	122,6 (12,5)
	49	49	49	58,9 (6)	58,9 (6)
	0,60	0,60	0,60	0,60	0,60
	1080	830	830	900	1080

1.3.1.3.1 - ()

							
	2 	2 	2 	2 	2 	3 	2 
							
							
	1961	1978	1971	2007	2012	2013	2014
	100	100	100	100	100	100	100
	3π3π	3π3π	3π3π	2×(3π3π)	2×(3π3π)	3×(3π3π)	2×(3π3π)
	129	138	137	139	141	139	139
	121,5	130	135	137	139,4	137	137
	910	1006	1000	1000	1000	1000	1000
	210,8	225,6	225,6	225,6	225,6	225,6	225,6
							
	1060	1060	1060	1060	1060	1060	1060
	16969	16969	16969	16969	16969	16969	16969
	1050	1050	1050	1050	1050	1050	1050
							
	2206	2210	2250	2648	4215	2250	2250

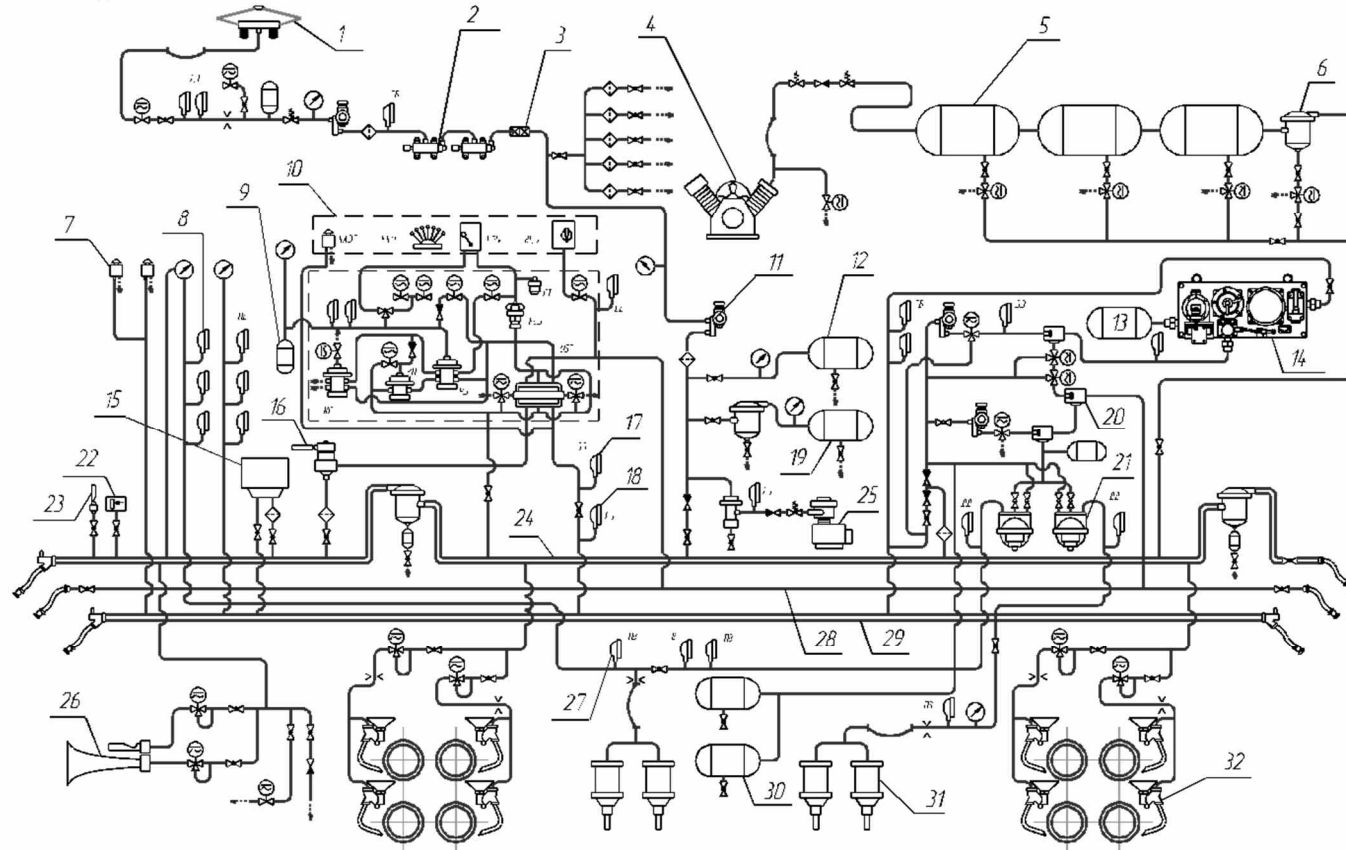
							
	2 L_{10}^{r}	2 L_{10}^{f}	2 $\text{L}_{116}^{\text{f}}$	2 $\text{L}_{116}^{\text{f}}$	2 $\text{L}_{116}^{\text{f}}$	3 $\text{L}_{116}^{\text{f}}$	2 $\text{L}_{116}^{\text{f}}$
		1830	1830	2484	2484	2484	2484
	4,41	4,41	4,41	4,41	4,41	4,41	4,41
	928	928	797	900		1230	
	232	222	255	255	255	255	255
	23	23	24	24	24	24	24
							
							
							
	ΔL_7	ΔL_7	ΔL_7	ΔL_7	ΔL_7	ΔL_7	ΔL_7
	5,3	5,3	5,3	5,3	5,3	5,3	5,3
	2040-2160	1000	2000	2000	2000	3000	1000
	394	395	395				
	254	254	254	254	254	254	254
	270-005	483	483	483	483	483	483
							
							

							
	2 L ₁₀ ¹⁰	2 L ₁₀ ¹⁰	2 L ₁₁₆	2 L ₁₁₆ ¹	2 L ₁₁₆ ¹ J	3 L ₁₁₆ ¹	2 L ₁₁₆ ¹ J
	254	203	203	553, 203	553, 203	553, 203	553, 203
							
	2	2	2	2	2	2	2
	48	48	48	48	48	72	48
	4	4	4	4	4	4	4
	46±5	55	55	55	55	55	55
	120	120	120	120	120	120	120
	15,1	7,8	7,78	7,78	7,78	7,78	7,78
	4	4	4	4	4	4	4
	J	J	J	J	J	J	J
							
	12	6	12	12	12	12	12
							
	117,7 (12)	117,7 (12)	117,7 (12)	117,7 (12)	117,7 (12)	117,7 (12)	117,7 (12)
	49 (5)	49 (5)	49 (5)	49 (5)	49 (5)	49 (5)	49 (5)
	J	194	J	J	J	J	J
	0,56	0,52	0,53	0,52	0,51	0,52	0,52
							

							
	2 ♯10 _♭	2 ♯10 _♮	2 ♯116	2 ♯116 _♮	2 ♯116 _♮ ♯	3 ♯116 _♮	2 ♯116 _♮ ♮
	830	830	830	830	830	830	830
	770	770	770	770	770	770	770
	♯	♯	♯	♯	♯	♯	♯
	1.3.2.2.3	1.3.2.2.3	1.3.2.2.4	1.3.2.2.4	1.3.2.2.4	1.3.2.2.4	1.3.2.2.4
	2.8.1.1.1	2.8.1.1.1	2.8.1.1.1	2.8.1.1.1	2.8.1.1.1	2.8.1.1.1	2.8.1.1.1

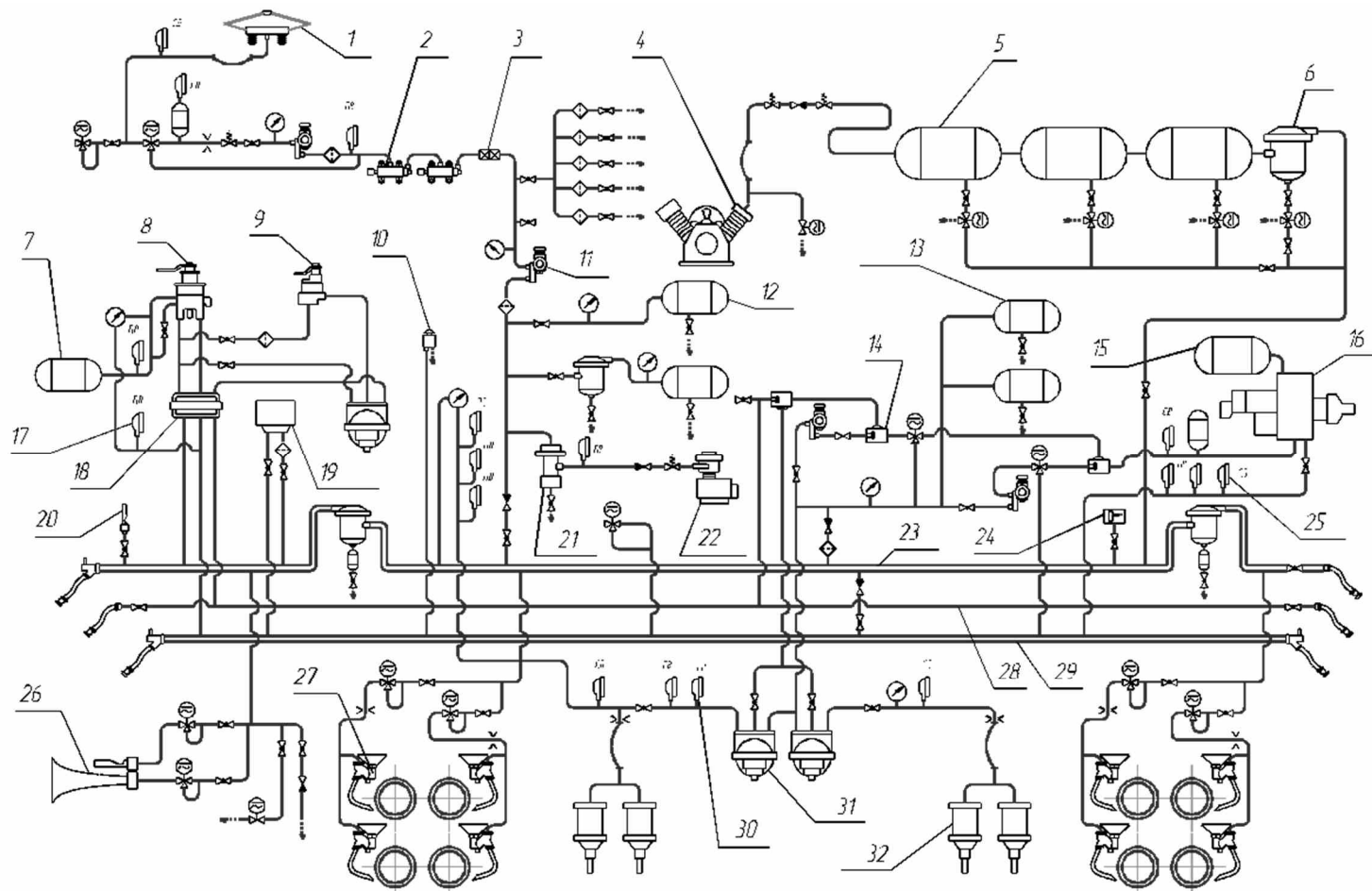
1.3.2

1.3.2.1



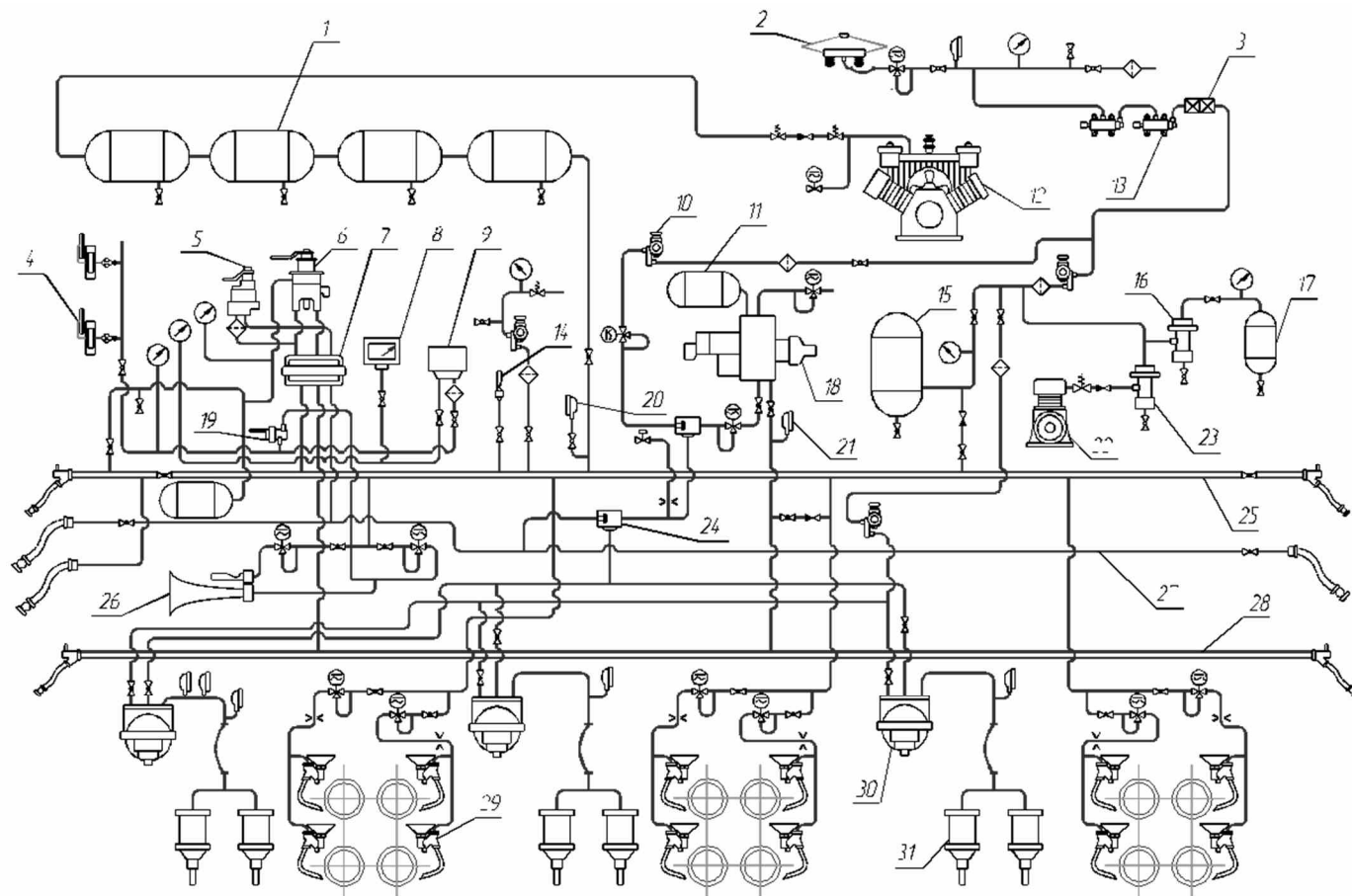
1.3.2.1.1 15Δ, 2 4Δ, 2 5Δ, 3 4Δ, 3 5Δ, 4 5Δ 130

1 ñ (f); 2 ñ (f); 3 ñ (f); 4 ñ (f); 5 ñ (f); 6 ñ (f); 7 ñ (f); 8 ñ (f); 9 ñ (f); 10 ñ (f); 11 ñ (f); 12 ñ (f); 13 ñ (f); 14 ñ (f); 15 ñ (f); 16 ñ (f); 17 ñ (f); 18 ñ (f); 19 ñ (f); 20 ñ (f); 21 ñ (f); 22 ñ (f); 23 ñ (f); 24 ñ (f); 25 ñ (f); 26 ñ (f); 27 ñ (f); 28 ñ (f); 29 ñ (f); 30 ñ (f); 31 ñ (f); 32 ñ (f)



1.3.2.1.2

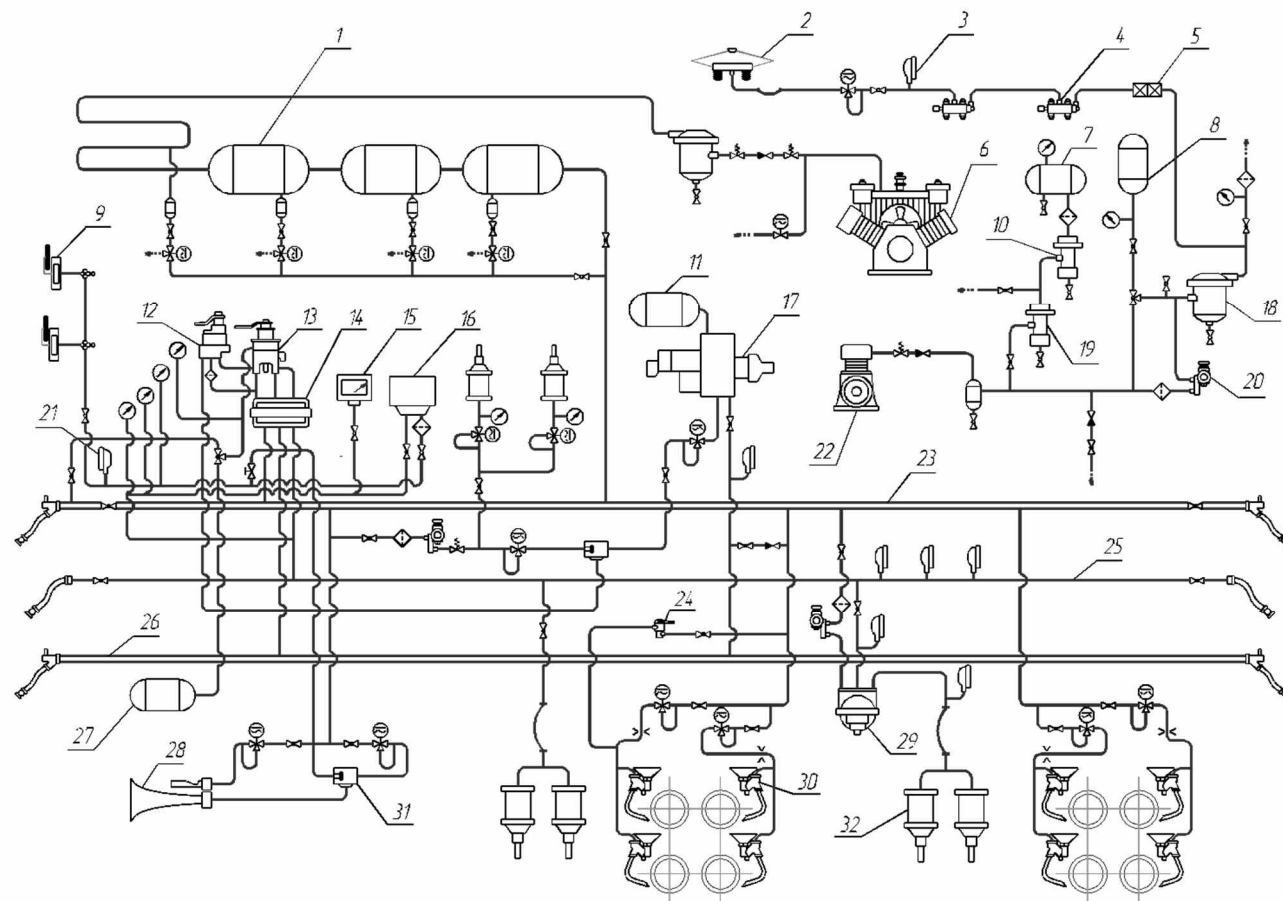
1 ñ; 2 ñ; 3 ñ; 4 ñ; 5 ñ; 6 ñ; 7 ñ; 8 ñ; 9 ñ; 10 ñ; 11 ñ; 12 ñ; 13 ñ; 14 ñ; 15 ñ; 16 ñ; 17 ñ; 18 ñ; 19 ñ; 20 ñ; 21 ñ; 22 ñ; 23 ñ; 24 ñ; 25 ñ; 26 ñ; 27 ñ; 28 ñ; 29 ñ; 30 ñ; 31 ñ; 32 ñ; 395



1.3.2.1.3

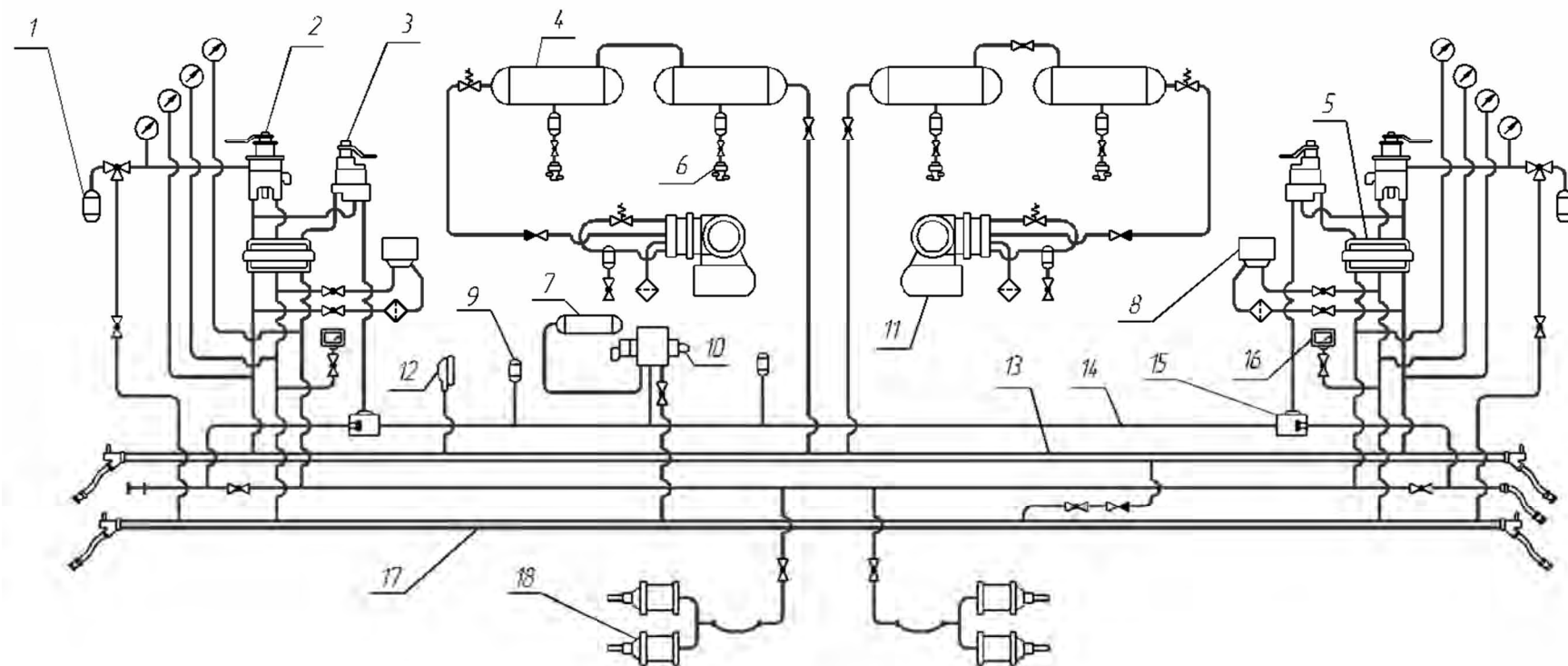
85

1 ñ 2 ñ 3 ñ 4 ñ 5 ñ 6 ñ 7 ñ 8 ñ 9 ñ 10 ñ 11 ñ 12 ñ 13 ñ 14 ñ 15 ñ 16 ñ 17 ñ 18 ñ 19 ñ 20 ñ 21 ñ 22 ñ 23 ñ 24 ñ 25 ñ 26 ñ 27 ñ 28 ñ 29 ñ 30 ñ 31 ñ



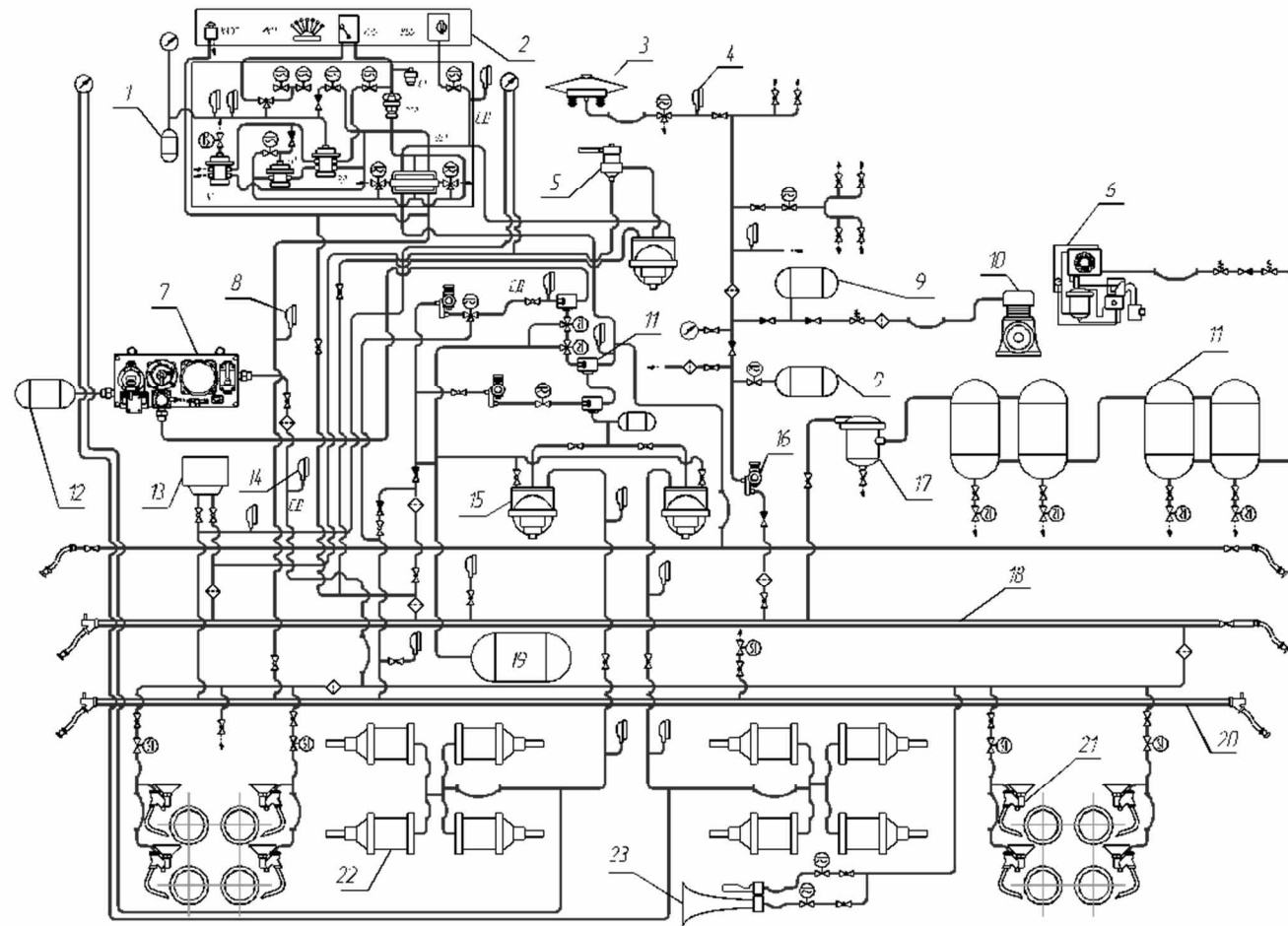
1.3.2.1.4 80, 80, 80 L

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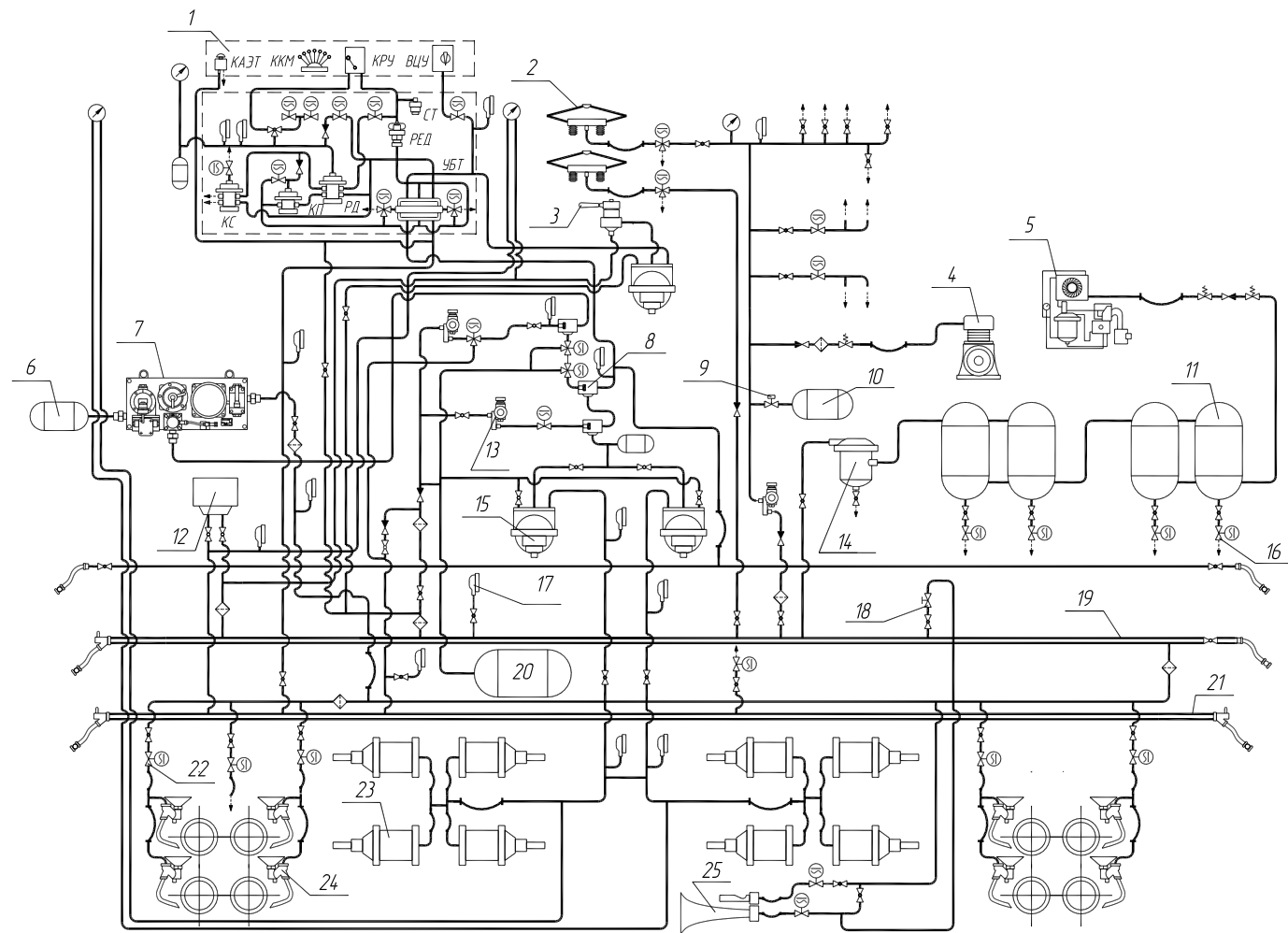
1.3.2.1.5 60△

1 ñ	2 ñ	3 ñ	4 ñ	5 ñ	6 ñ	7 ñ	8 ñ	9 ñ	10 ñ	11 ñ	12 ñ	13 ñ	14 ñ	15 ñ	16 ñ	17 ñ	18 ñ
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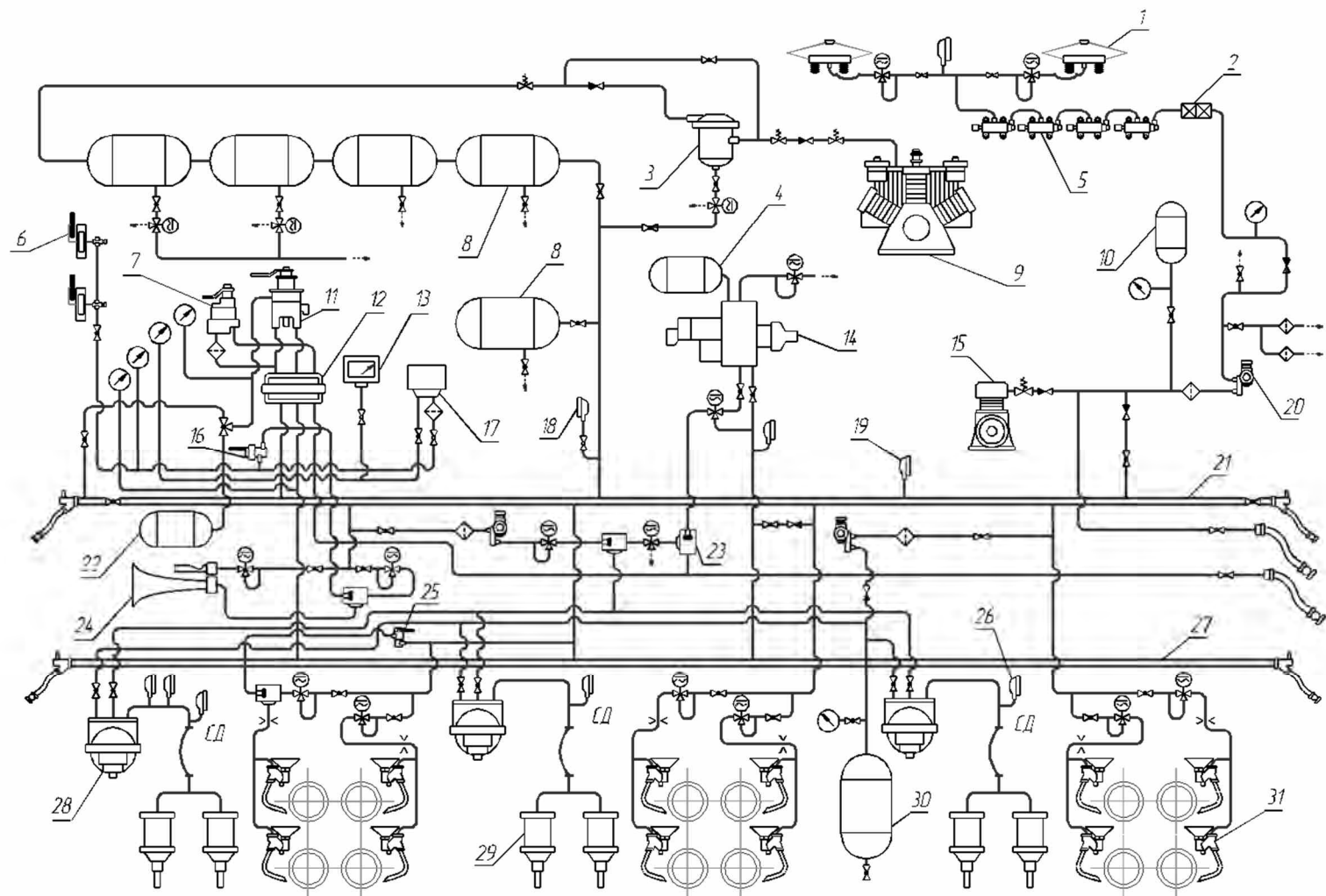
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(-22).



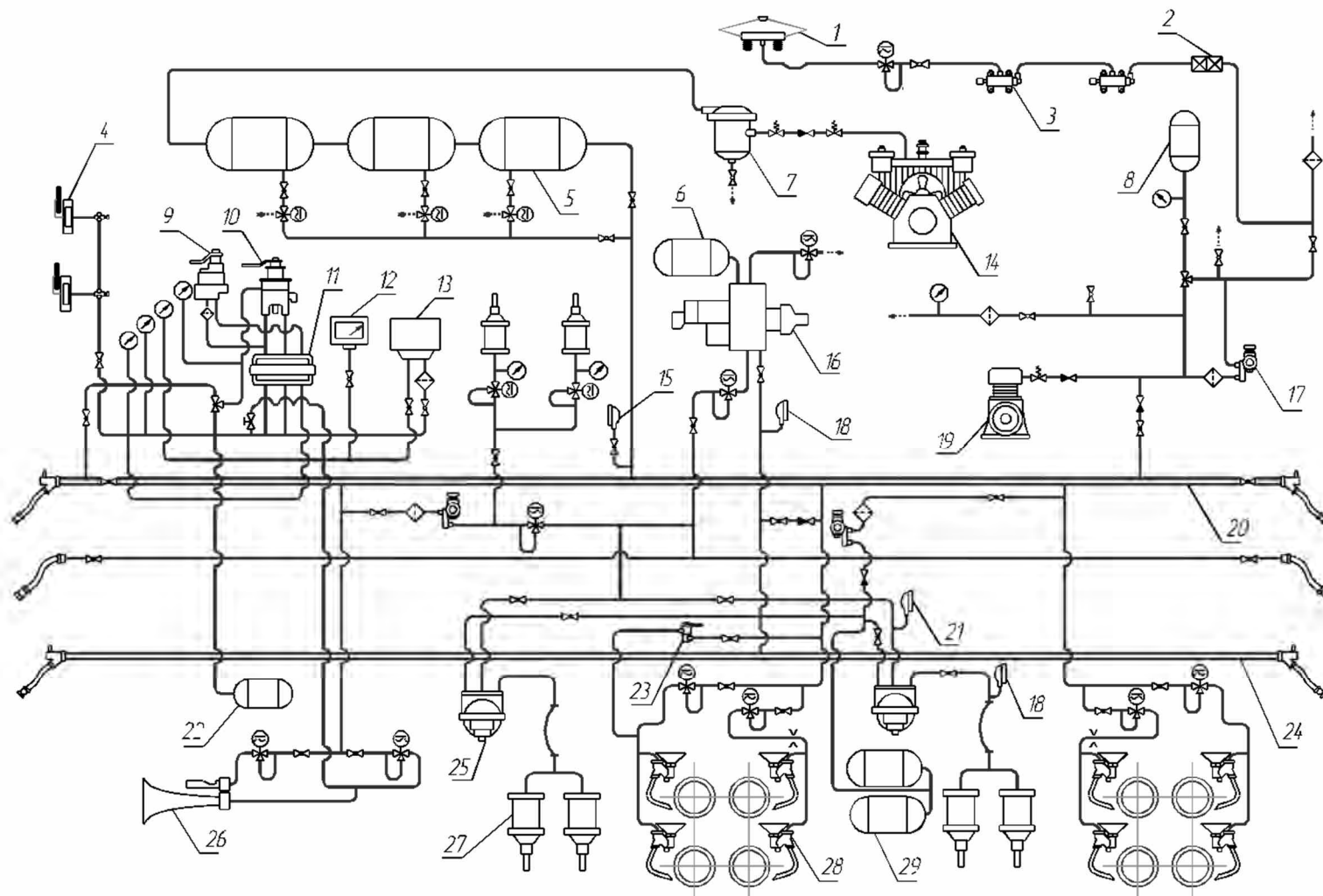
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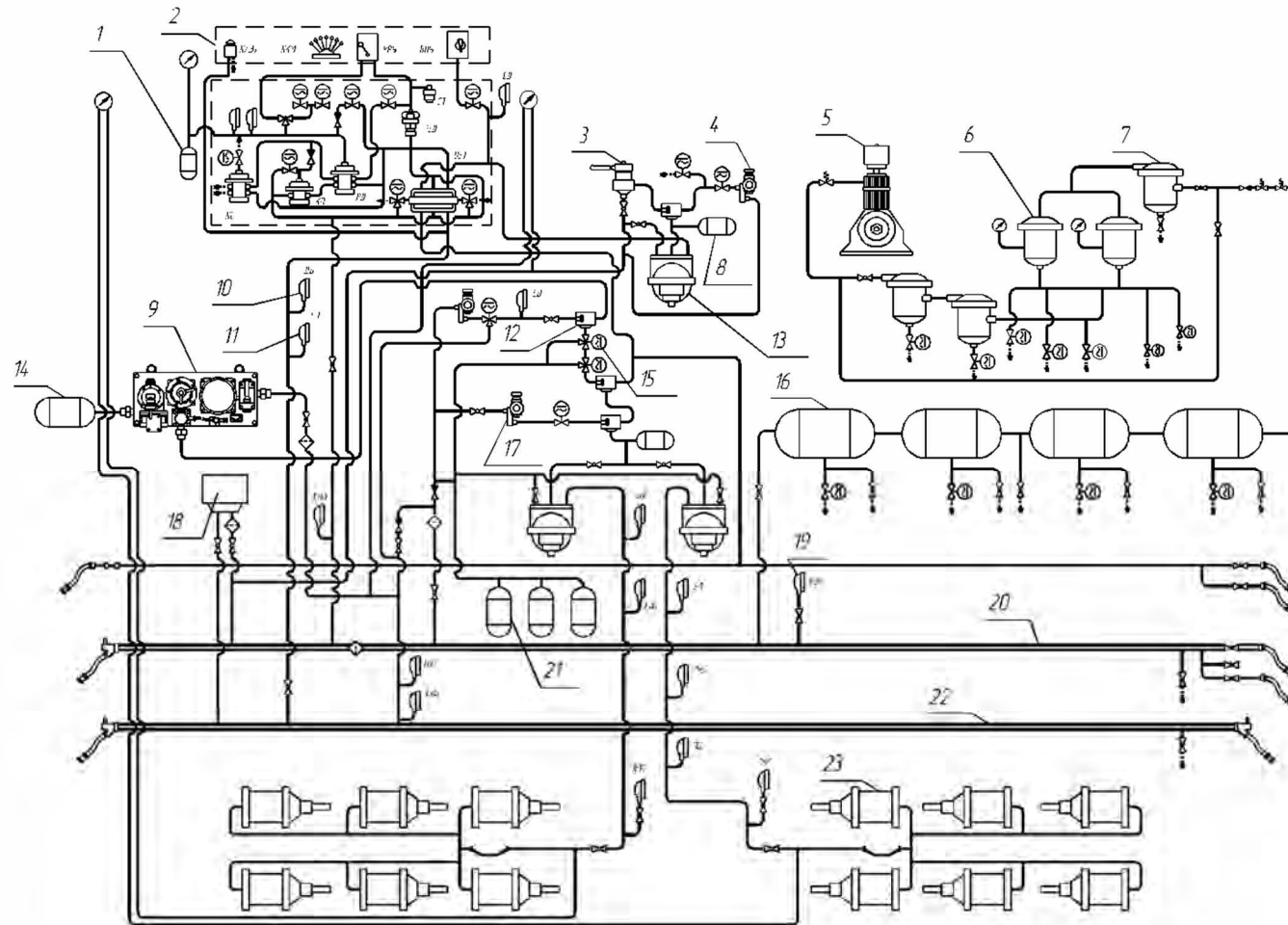
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1.3.2.1.9

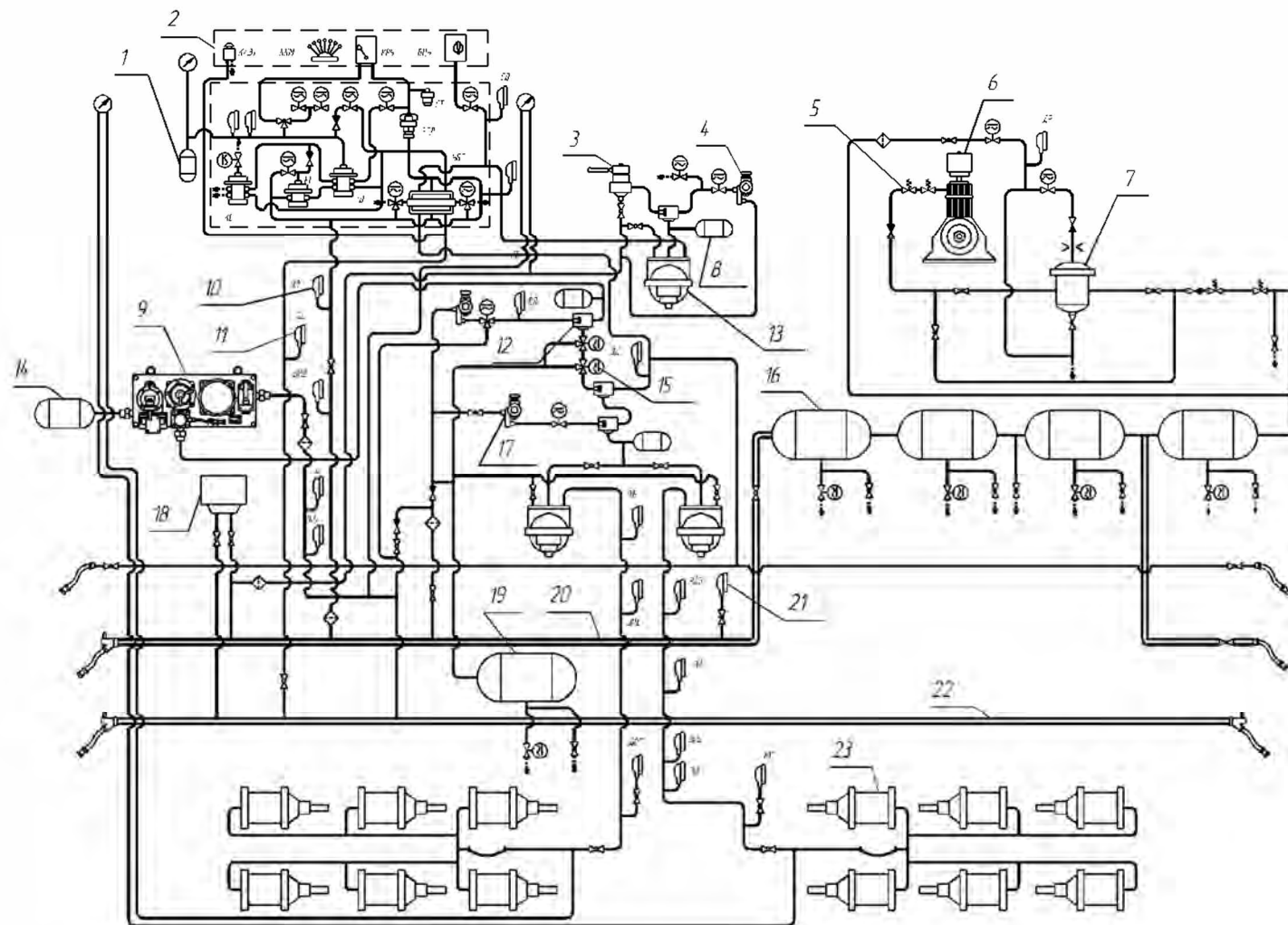
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1.2.2.2



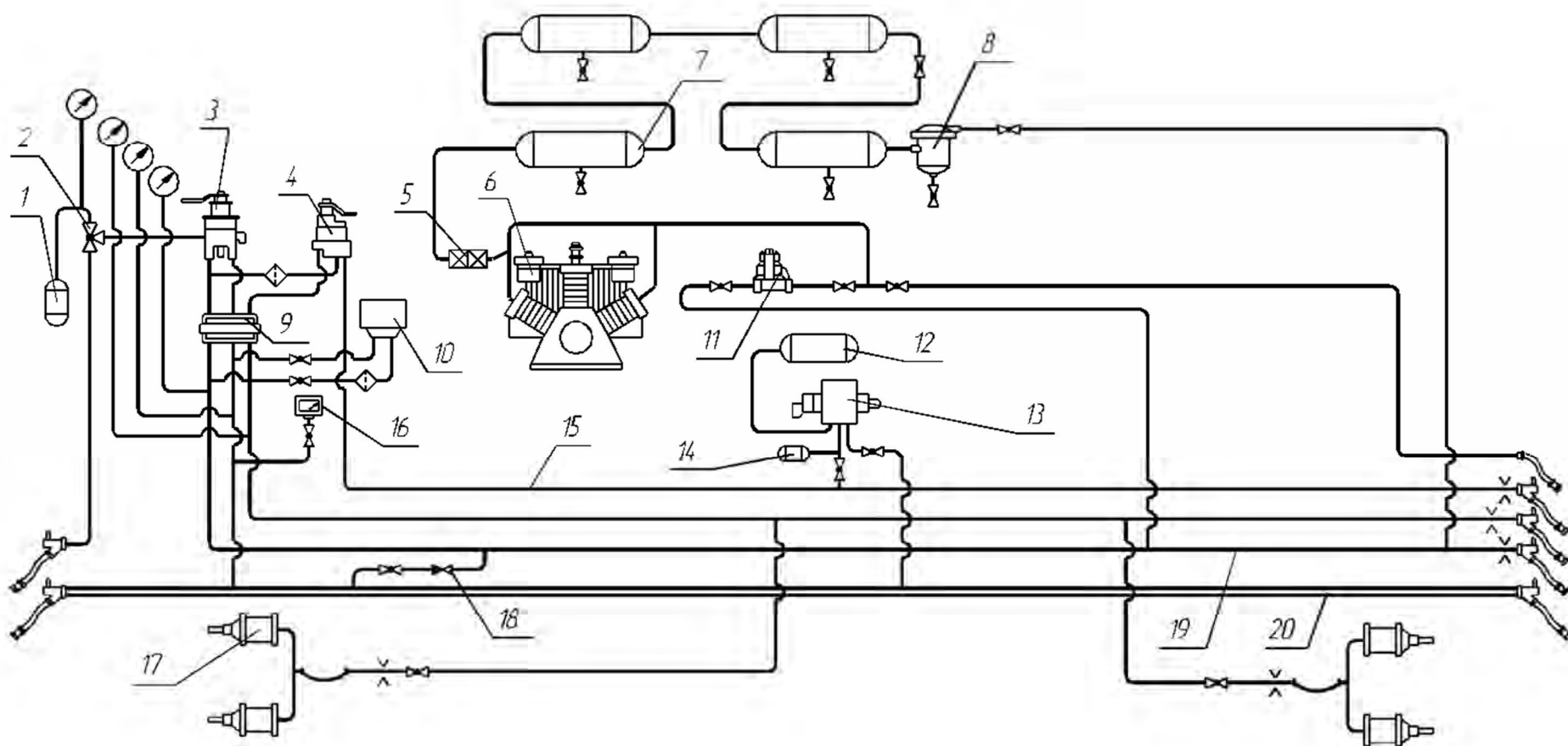
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1 ñ $2 \times 25V, \sqrt{f}$; 2 ñ $2 \times 25V, \sqrt{f}$; 3 ñ $2 \times 25V, \sqrt{f}$; 4 ñ $2 \times 25V, \sqrt{f}$; 5 ñ $2 \times 25V, \sqrt{f}$; 6 ñ $2 \times 25V, \sqrt{f}$; 7 ñ $2 \times 25V, \sqrt{f}$; 8 ñ $2 \times 25V, \sqrt{f}$; 9 ñ $2 \times 25V, \sqrt{f}$; 10 ñ $2 \times 25V, \sqrt{f}$; 11 ñ $2 \times 25V, \sqrt{f}$; 12 ñ $2 \times 25V, \sqrt{f}$; 13 ñ $2 \times 25V, \sqrt{f}$; 14 ñ $2 \times 25V, \sqrt{f}$; 15 ñ $2 \times 25V, \sqrt{f}$; 16 ñ $2 \times 25V, \sqrt{f}$; 17 ñ $2 \times 25V, \sqrt{f}$; 18 ñ $2 \times 25V, \sqrt{f}$; 19 ñ $2 \times 25V, \sqrt{f}$; 20 ñ $2 \times 25V, \sqrt{f}$; 21 ñ $2 \times 25V, \sqrt{f}$; 22 ñ $2 \times 25V, \sqrt{f}$; 23 ñ $2 \times 25V, \sqrt{f}$.

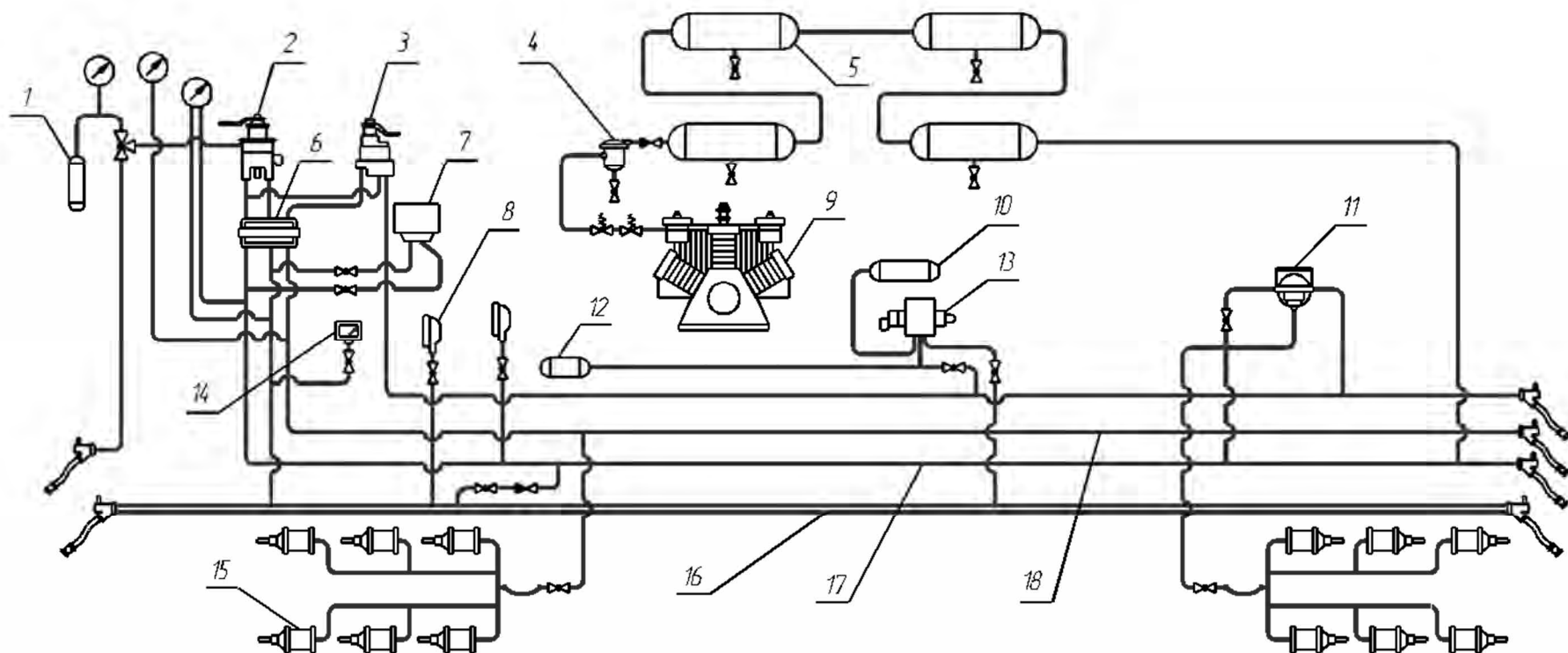


1.3.2.2.2

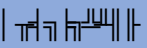
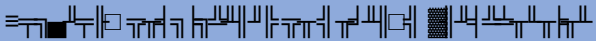
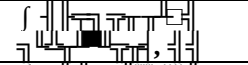
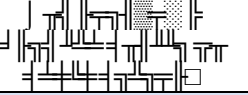
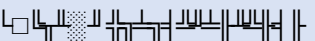
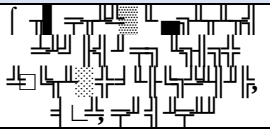
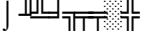
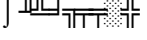
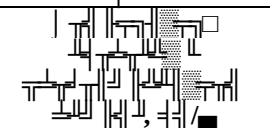
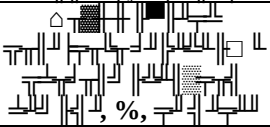
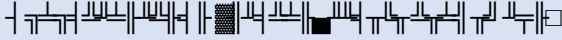
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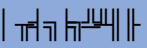
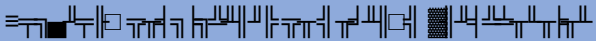
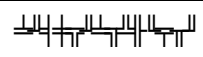
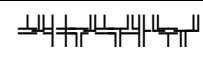
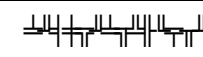
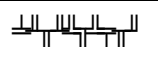
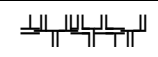
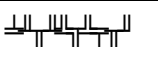
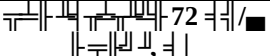
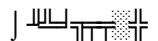
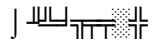
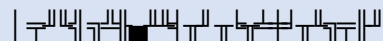
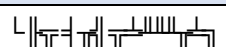
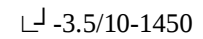
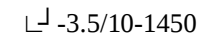
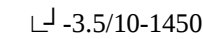
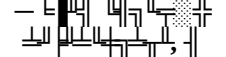
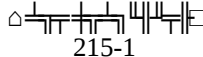
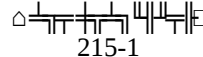
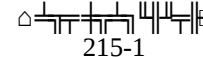


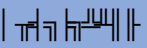
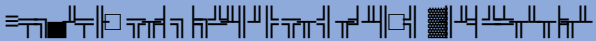
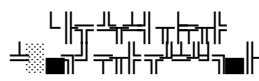
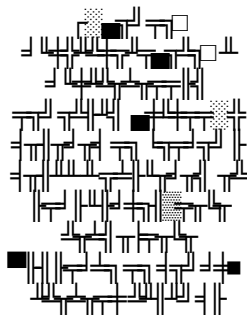
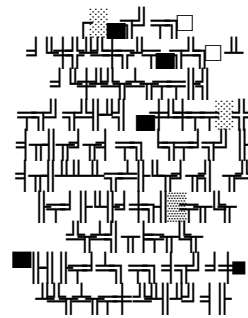
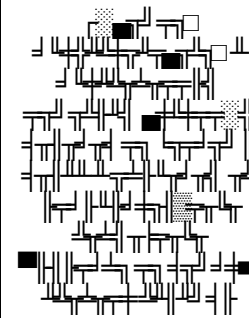
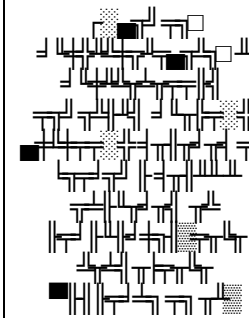
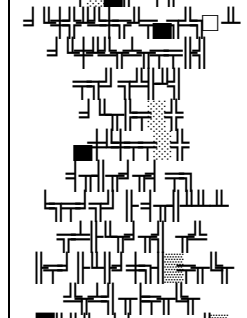
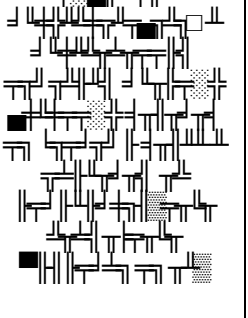
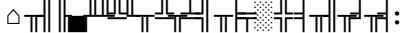
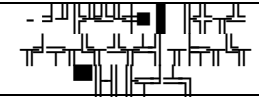
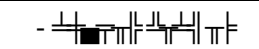
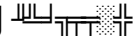
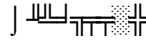
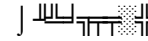
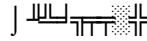
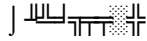
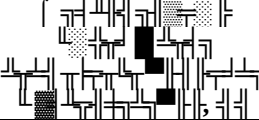
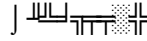
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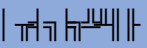
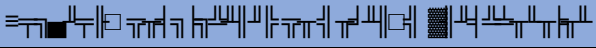
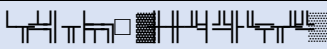
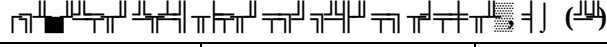
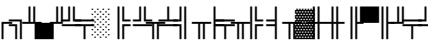
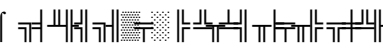
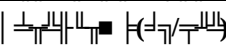
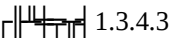
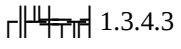
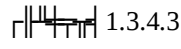
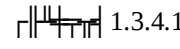
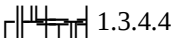
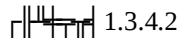
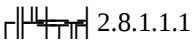
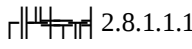
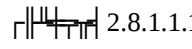
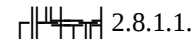
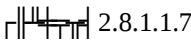
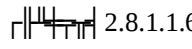


1.3.2.2.4 2 L116, 2 L116 Δ , 2 L116 $\downarrow$, 2 L116 $\uparrow$, 2 L116 $\downarrow$, 3 L116 $\downarrow$
 1 ñ 2 ñ 3 ñ 4 ñ 5 ñ 6 ñ 7 ñ 8 ñ 9 ñ 10 ñ 11 ñ 12 ñ 13 ñ 14 ñ 15 ñ 16 ñ 17 ñ 18 ñ

						
	 1	 1	 1	 4	 4	 8
	22500	22532	22532	19980	19 980	33740
	1250	1250	1250	1250	1250	1250
						
	4700	4700	4700	5100	5100	
	230	230	270	174	174	
	70	70	60	107,1	107,1	
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	72	72	61	109,1	109,1	103,7
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	85,5	85,5	85,5	93,7	93,7	93
	3,27	3,27	3,83	2,64	2,64	264
						

						
	 1	 1	 1	 4	 4	 8
						
				-	-	-
	-	-	-	5000	5000	7400
						
	216	216	250			
	100	100	150			
						
	 -3.5/10-1450	 -3.5/10-1450	 -3.5/10-1450	 2	 2	 3
	3,5	3,5	3,5	2	2	2
	1020	1020	1020	980 ñ 1080	980 ñ 1080	1010
	395	395	395	395	395	395
	 215-1	 215-1	 215-1	254	254	254
	 356	 356	 356	304	304	304
	242-1, 305	242-1, 305	242-1, 305	242, 305	242, 305	242, 305
						

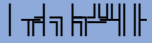
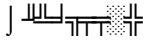
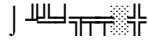
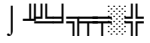
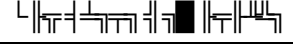
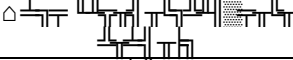
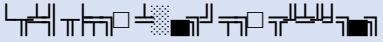
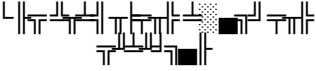
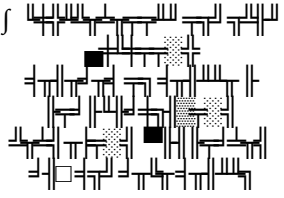
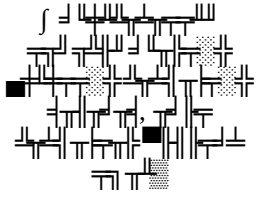
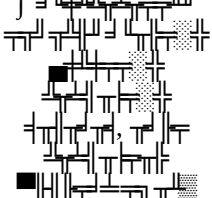
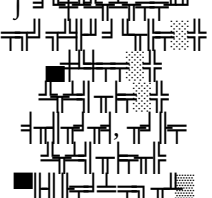
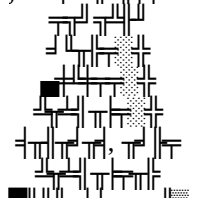
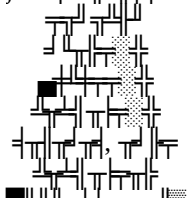
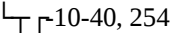
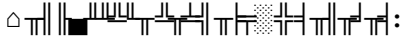
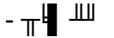
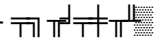
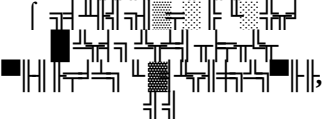
						
	 1	 1	 1	 4	 4	 8
						
 :						
	4	4	4	8	8	8
	24	24	24	2*24	2*24	64
						
	70-85	70-85	70-85			
	150	150	150			
						
	1,43	1,43	1,43	9,74	9,74	7,62
	-	-	-	9,58	-	-
	2	2	2	2	2	2
						

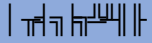
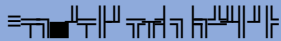
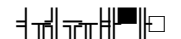
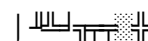
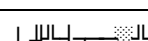
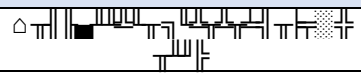
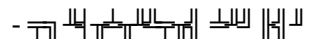
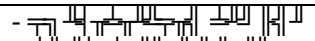
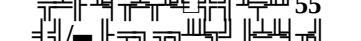
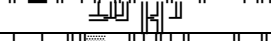
						
	 1	 1	 1	 4	 4 ^L	 8
						
	6	6	6	6	6	8
						
	180	180	180	160	160	160
	140	140	140	120	120	120
						
	0,80	0,82	0,82	0,76	0,76	0,73
	0,62	0,62	0,62	0,57	0,57	0,55
	55	55	55	60	60	60
						
	1180	1108	1080	1560	1560	2000
	1100	1100	1010	1470	1470	1900
						
	 1.3.4.3	 1.3.4.3	 1.3.4.3	 1.3.4.1	 1.3.4.4	 1.3.4.2
	 2.8.1.1.1	 2.8.1.1.1	 2.8.1.1.1	 2.8.1.1.7	 2.8.1.1.7	 2.8.1.1.6

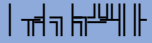
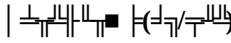
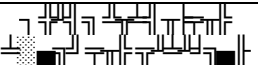
1.3.3.2 | תוכנית חלוקת שטח למבנים

שם המבנה	פרטים כלכליים					
	2006	2014	2017	2020	2026	2027
סך הכל						
מבנה מס' 1	2006	1964	1972	1974	1976	1983
מבנה מס' 2	2006	1964	1972	1974	1976	1983
מבנה מס' 3	160	160	160	220	190	180
מבנה מס' 4	30-30	30-30	30-30	2(20-20)	2(20-20)	2(20-20)
מבנה מס' 5	135	126	128	156	164	172
מבנה מס' 6	132	125	127	154	162	168
מבנה מס' 7	744	1200	1200	1200	1200	1200
מבנה מס' 8	221+3%	216,7	215	215	215	215
סך הכל						
פרטים כלכליים						
מבנה מס' 9	5100	4800	5120	5120	5120	5120
מבנה מס' 10	5500-7000	5 400 - 6 900	5400-6900	5400-6900	5400-6900	5400-6900
מבנה מס' 11	21800	18920	18 920	33080	33080	34040
מבנה מס' 12	1250	1250	1250	1250	1250	1250
סך הכל						

	4800	4200	6×770	8 × 1050	8 × 1050	
	302	263	302	348	412	418
	192,8	16,5	19 400	217	254,8	
	87,8	91,5	89	135,9	115,8	
	4320	3708	6×680	8 × 1000	8 × 1000	
	91	96,9	93	137,8	117,4	
	2,45	1,75	1,75	1,79	2,16	1,73
	167,4	137	162	204	239	
	4000	1300	4400	7000	7000	6500
				65		
				210		

						
	 2Δ	 2Δ	 2L	 200	 6	 7
	3,2	3,5	2			
	1000	960	981 ñ 1080	1010	1010	1010
	395	395	395	395	395	395
	254	254	254	254	254	254
	242-1, 305	242-1, 305	242-1, 305	242-1, 305	242-1, 305	242-1, 305
						
						
	 10-40, 254	254	254	254	254	254
						
	2	8	8	8	8	8
	24	48	48	48	48	48
	4	8	8	8	8	8
	40±3	75-100	75-100	75-100	75-100	75-100
		120	120	120	120	120

						
	 2Δ	 2Δ	 2 L	 200	 6	 7
						
	4,7	6,29	6,29	6,95	6,95	7,62
	-	6,42	6,42	-	-	-
		0,9	0,9	0,9	0,9	0,9
	2	2	2	2	2	2
						
						
	6	6	6	8	8	8
						
	180	160	160	160	160	160
	130	120	120	120	120	120
	55	60	60	60	60	60
	0,80	0,76	0,75	0,82	0,78	0,74
	0,58	0,57	0,56	0,62	0,59	0,56
						
	1180	1560	1560	2200	2200	2000

						
	 2 Δ	 2 Δ	 2 Δ	 200	 6	 7
	1200	1470	1470	2100	2100	1900
						
	 1.3.4.5	 1.3.4.1	 1.3.4.4	 1.3.4.6	 1.3.4.6	 1.3.4.2
	 2.8.1.1.1	 2.8.1.1.7	 2.8.1.1.7	 2.8.1.1.6	 2.8.1.1.6	 2.8.1.1.6

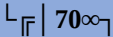
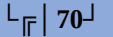
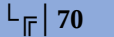
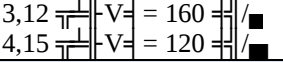
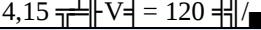
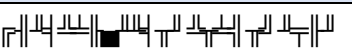
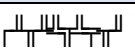
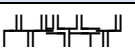
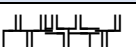
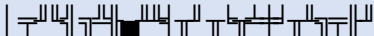
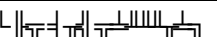
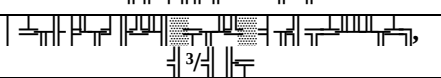
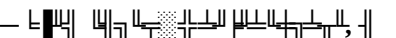
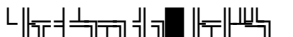
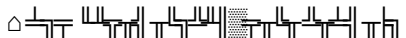
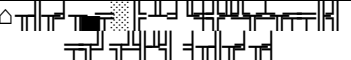
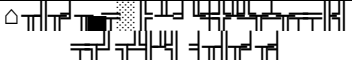
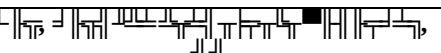
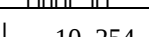
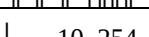
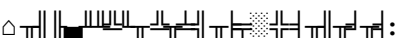
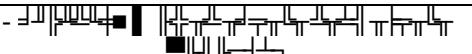
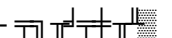
1.3.3.3 | תוכנית התכנון והבנייה

פרטים	פרטים	
	10	20
פרטים כלליים		
שטח בנייה	1000	1000
שטח חיצוני	1998	2011
שטח פנימי	160	200
שטח חיצוני	200	200
שטח פנימי	135±3	135±3
שטח חיצוני	132	132
שטח פנימי	280	600
שטח חיצוני	221,5±4,9	215
פרטים טכניים		
שטח בנייה	1040-1080	1040-1080
שטח חיצוני	22532	22550
פרטים כלכליים		
שטח בנייה	5100	5100
שטח חיצוני	5500-7000	5500-7000
שטח פנימי	1050	1050
פרטים סביבתיים		
שטח בנייה	7200	7200

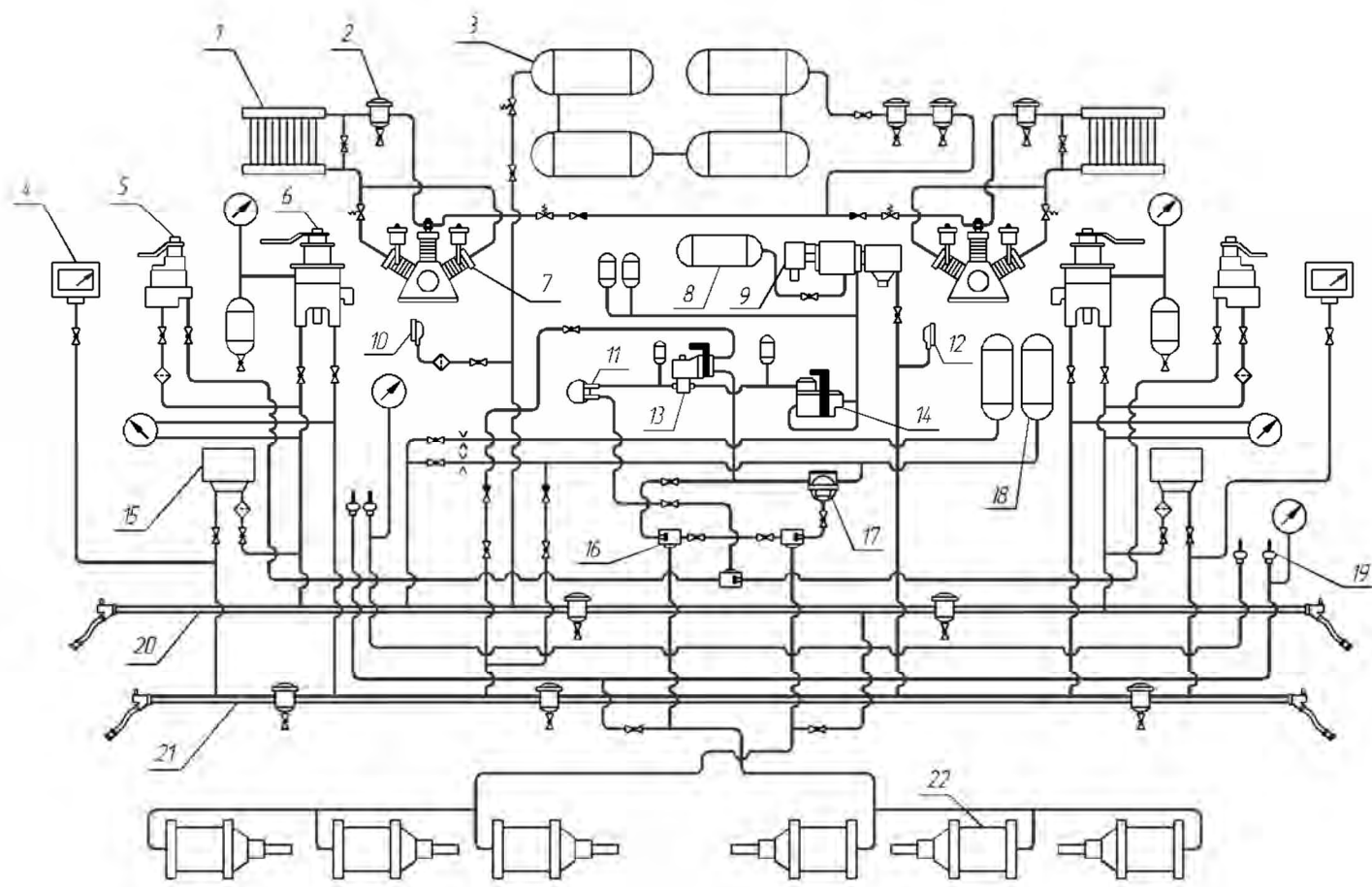
	10	20
	5700	3200
	3,5/10-1000	
	3,5	2
	1000	1020
	395-4-01-2	
	215	
	292	
	254	
	2	-
	24	-
	4	-
	50-70	
	170	

1.3.3.4 | תכנון מערכת הביובים

פרמטר	פרמטרים		
	700 ל"ס	70 ל"ס	70 ל"ס
פרמטרים כלליים			
שנת תכנון	2002	2006	1973
מיקום תחנת הביוב	התחנת	התחנת	התחנת
מיקום תחנת הביוב	120 מ' / 160 מ'	160	160
מיקום תחנת הביוב	300 300	300 300	300 300
מיקום תחנת הביוב	137	137	137
מיקום תחנת הביוב	131	131	131
מיקום תחנת הביוב	800	600	800
מיקום תחנת הביוב	220,6	220,6	220,6
פרמטרים טכניים			
מיקום תחנת הביוב	1060±20	1060±20	1060±20
מיקום תחנת הביוב	21700	21700	21700
מיקום תחנת הביוב	1220	1220	1220
פרמטרים נוספים			
מיקום תחנת הביוב	2942	3000	2942
מיקום תחנת הביוב	3200	3200	3200
מיקום תחנת הביוב	280 = 373	280	280
מיקום תחנת הביוב	167 = 222	167	167

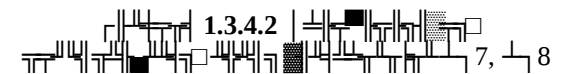
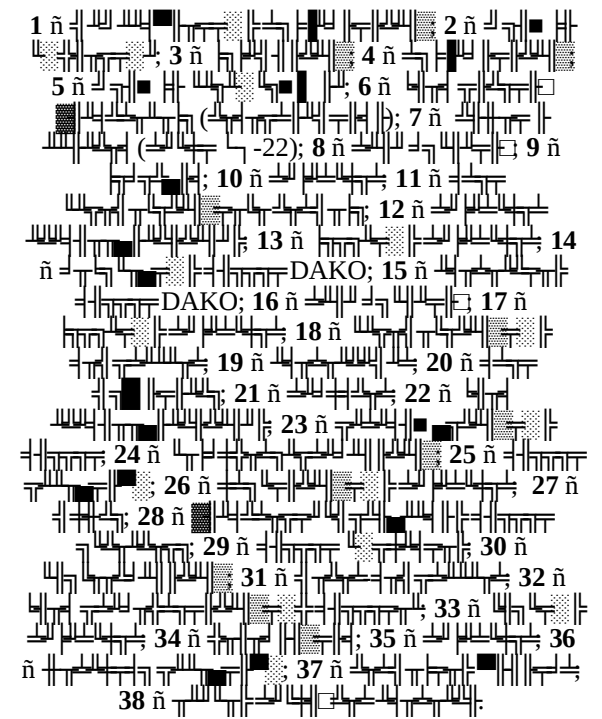
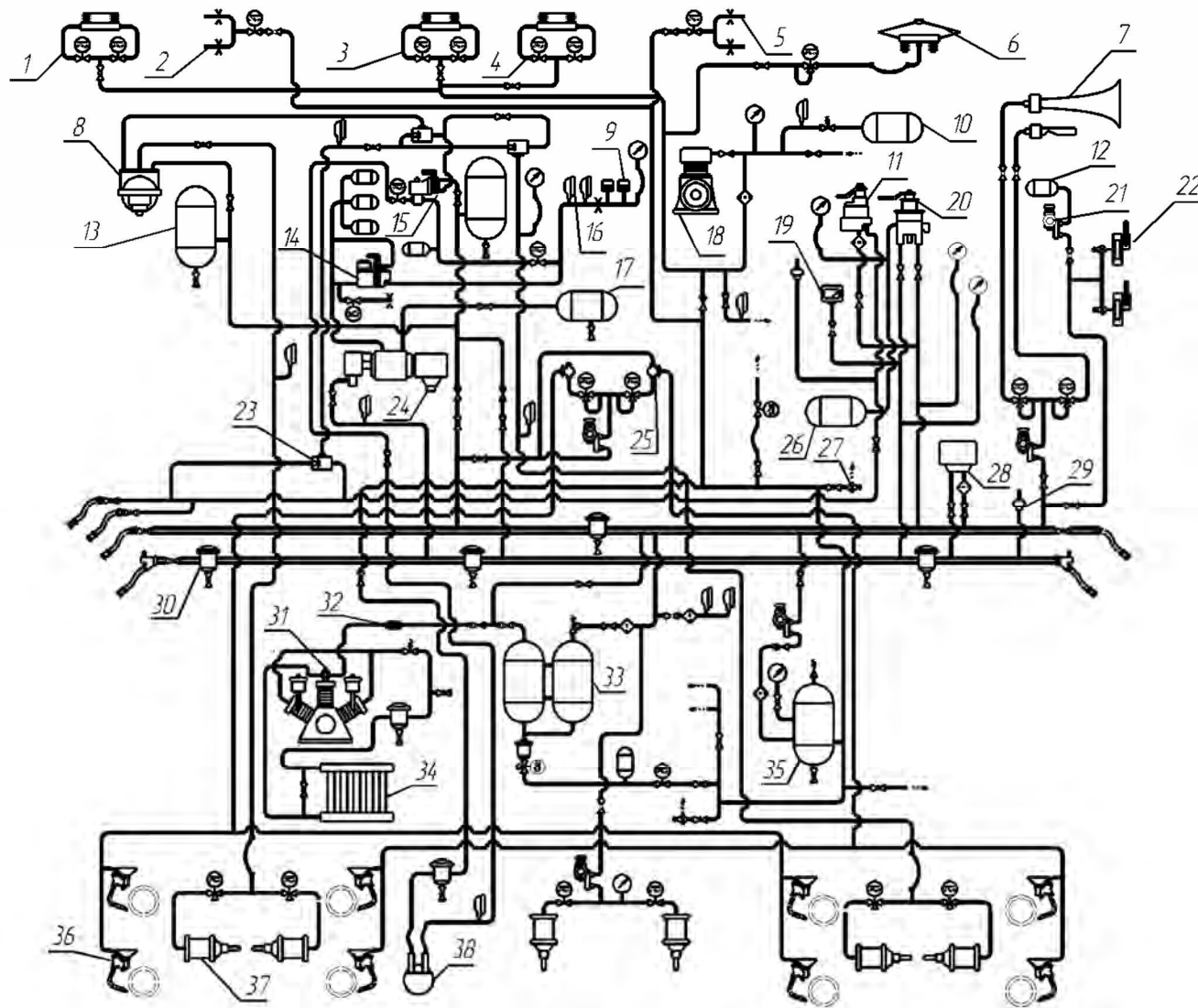
			
	 70 ∞	 70	 70
	 	48 - 50	48 - 50
	 	3,12	3,12
			
			
	3200	3200	3200
			
	Δ -5.25v	Δ -5.25v	Δ -5.25v
	3,2	3,2	3,2
	1000	1000	1060
	σ 395 Γ -4	σ 395-000	σ 395-000
	215	215	254
			
			
			254
			
	2	2	3
	24	24	24
	4	4	4
	60 $\pm$ 3	60 $\pm$ 3	50-75

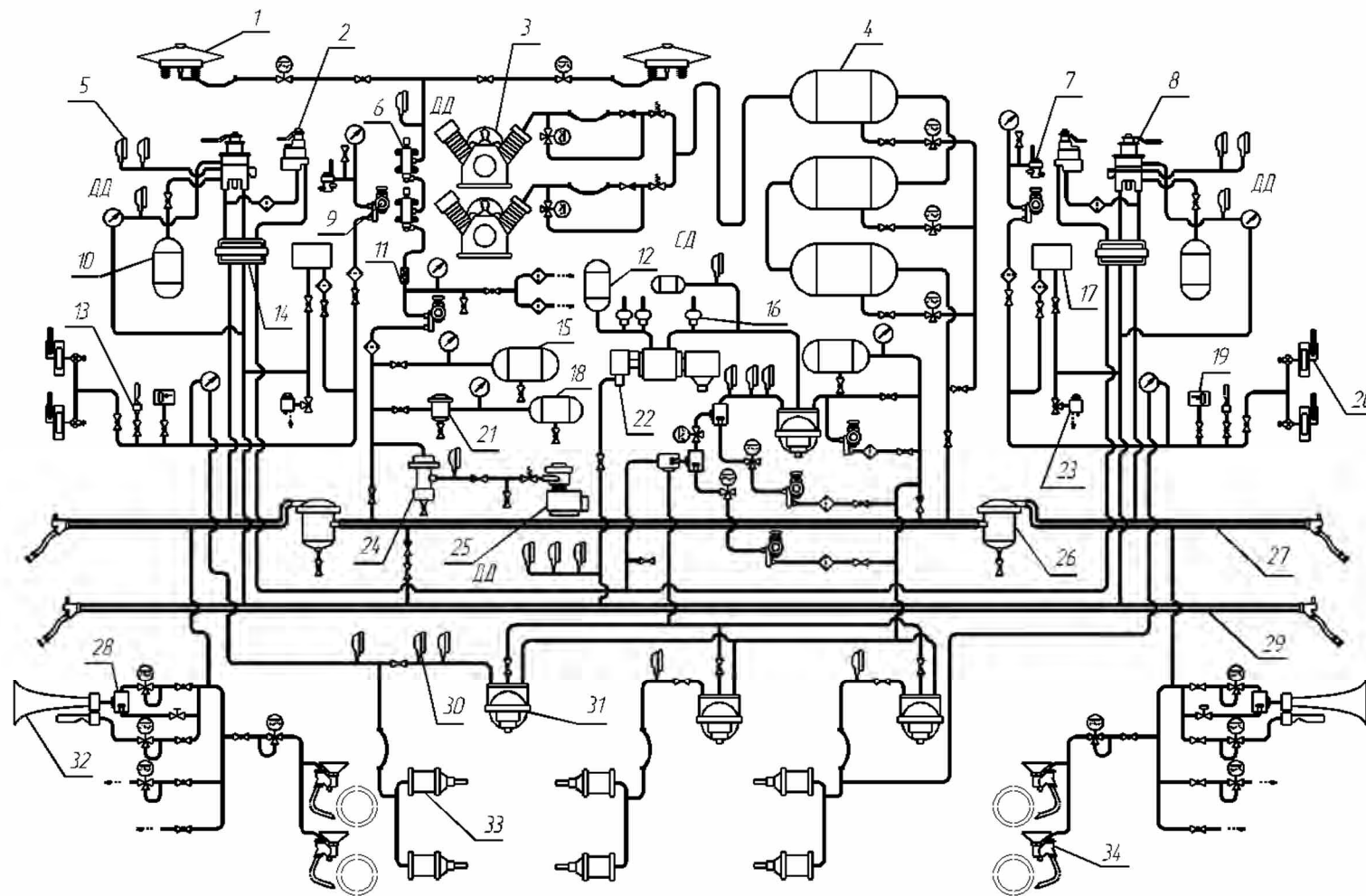
1.3.4 |



1.3.4.1

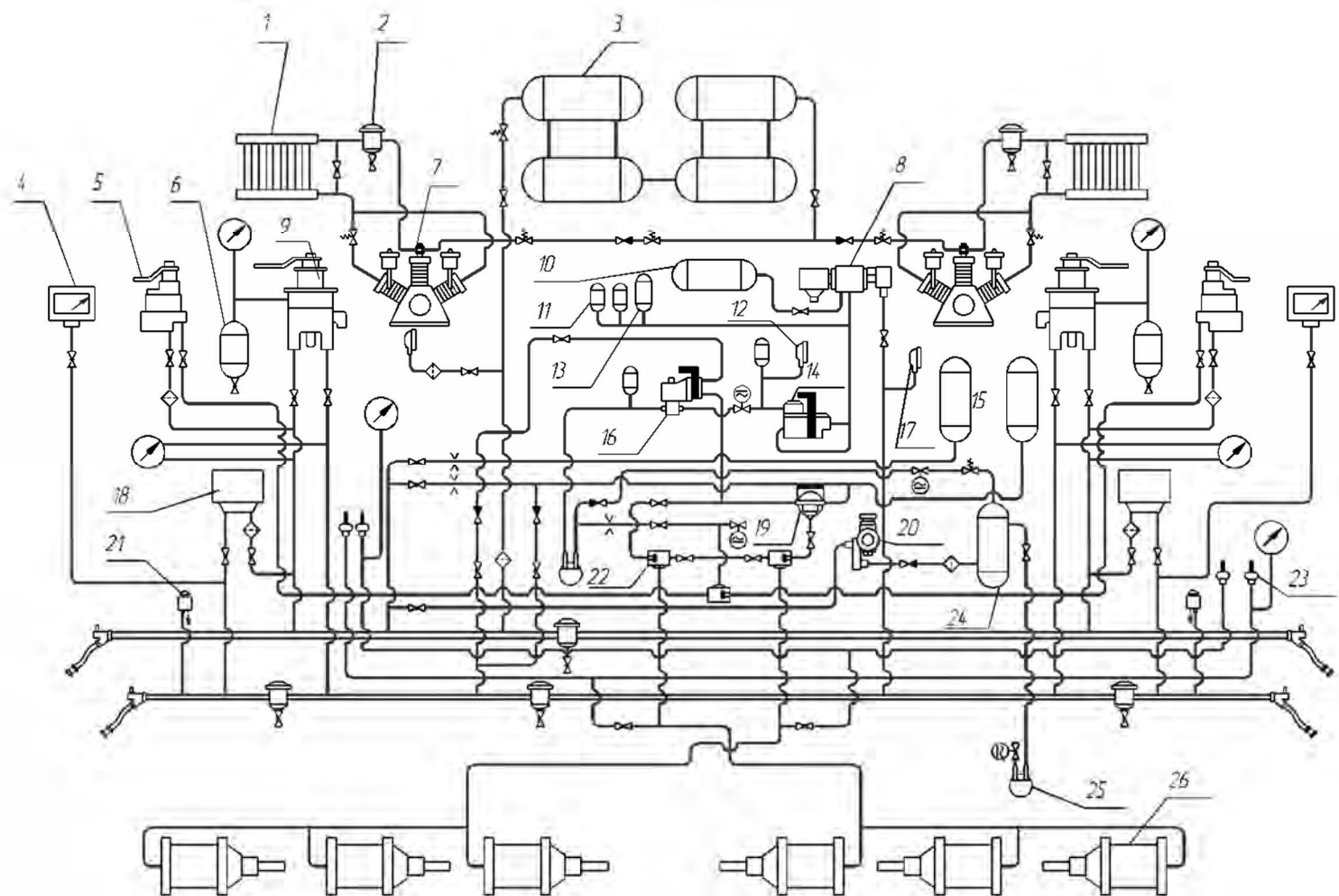
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1.3.4.3

1 ñ; 2 ñ; 3 ñ; 4 ñ; 5 ñ; 6 ñ; 7 ñ; 8 ñ; 9 ñ; 10 ñ; 11 ñ; 12 ñ; 13 ñ; 14 ñ; 15 ñ; 16 ñ; 17 ñ; 18 ñ; 19 ñ; 20 ñ; 21 ñ; 22 ñ; 23 ñ; 24 ñ; 25 ñ; 26 ñ; 27 ñ; 28 ñ; 29 ñ; 30 ñ; 31 ñ; 32 ñ; 33 ñ; 34 ñ

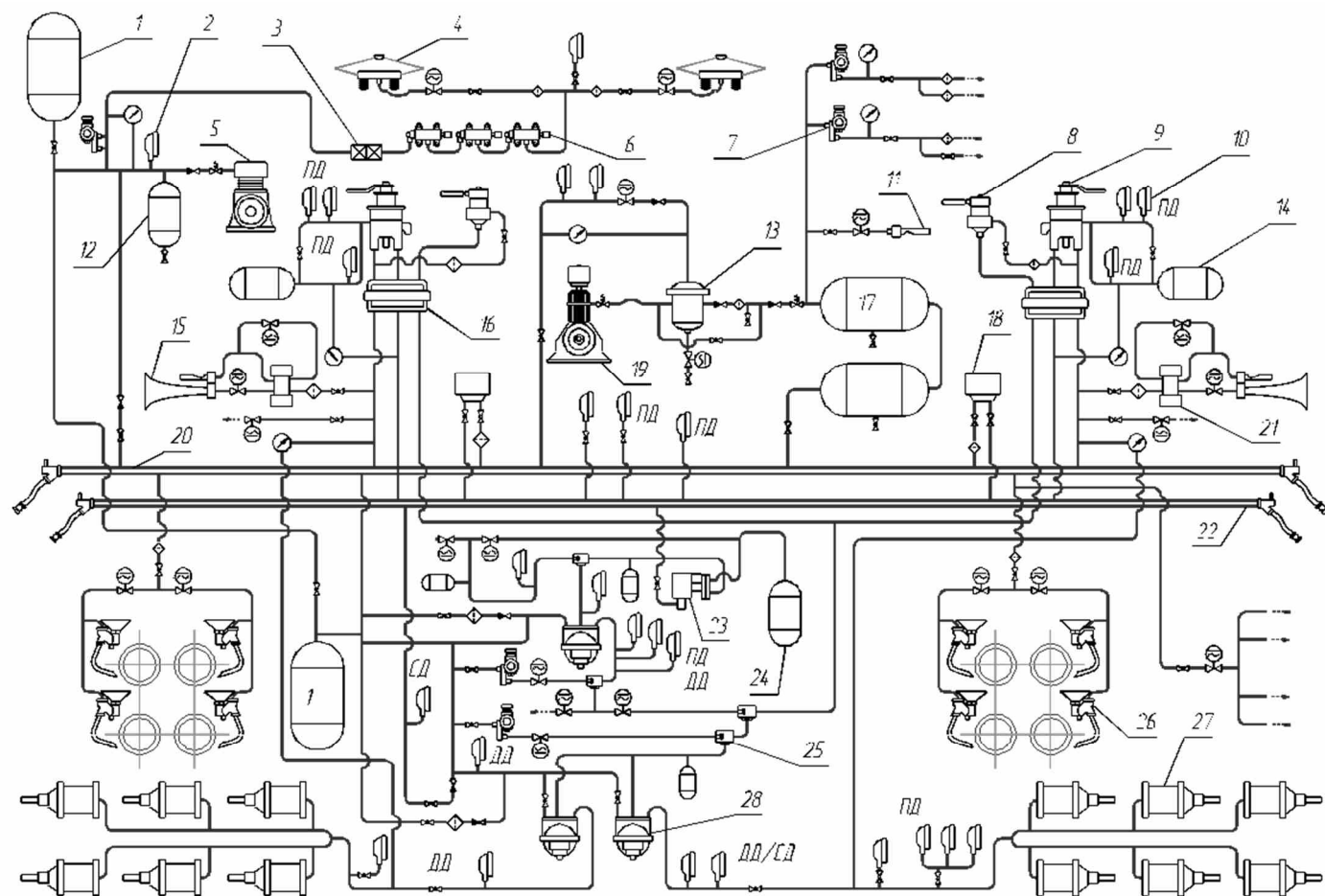


1.3.4.4

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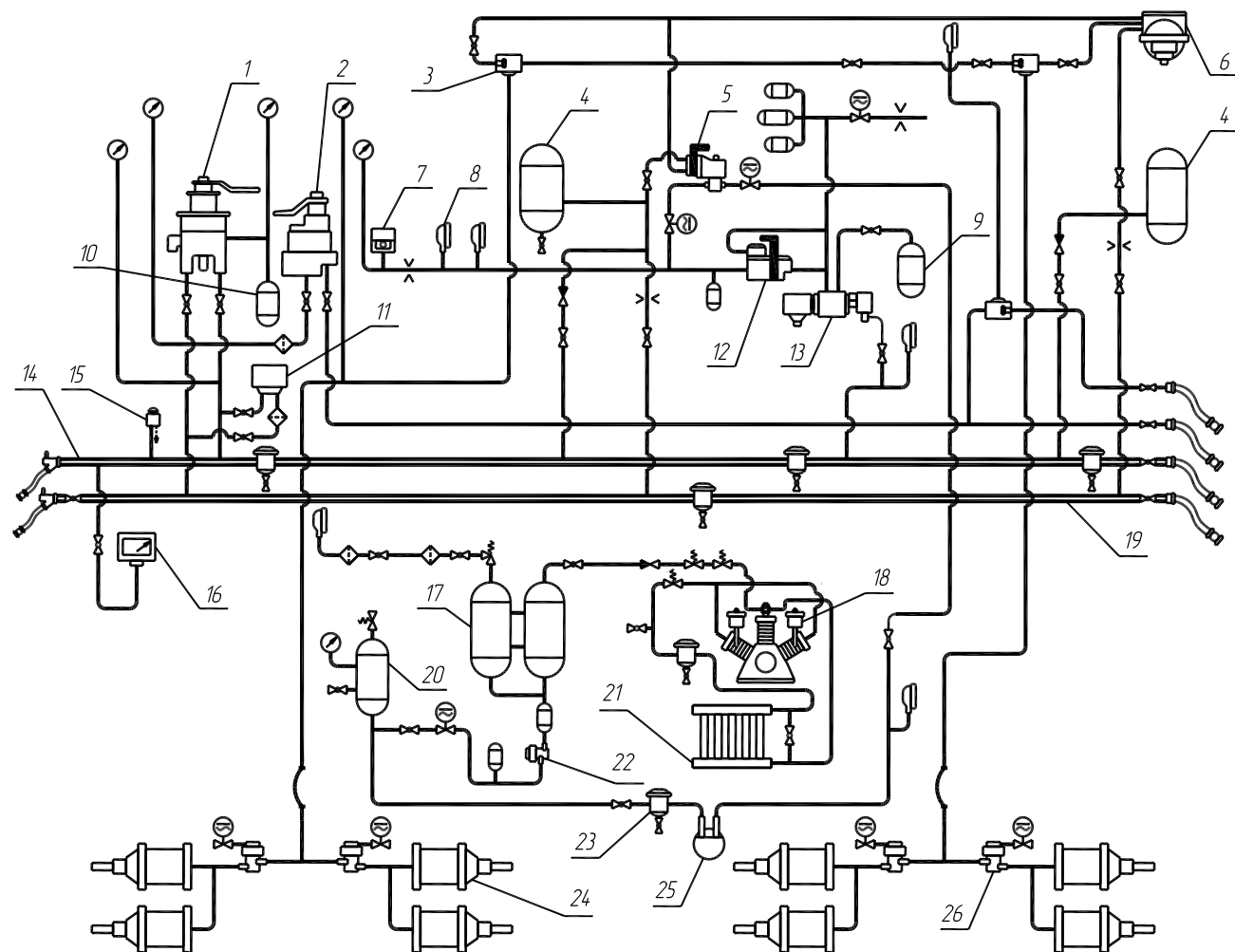
2 L, 4 L

(DAKO-D); (DAKO);



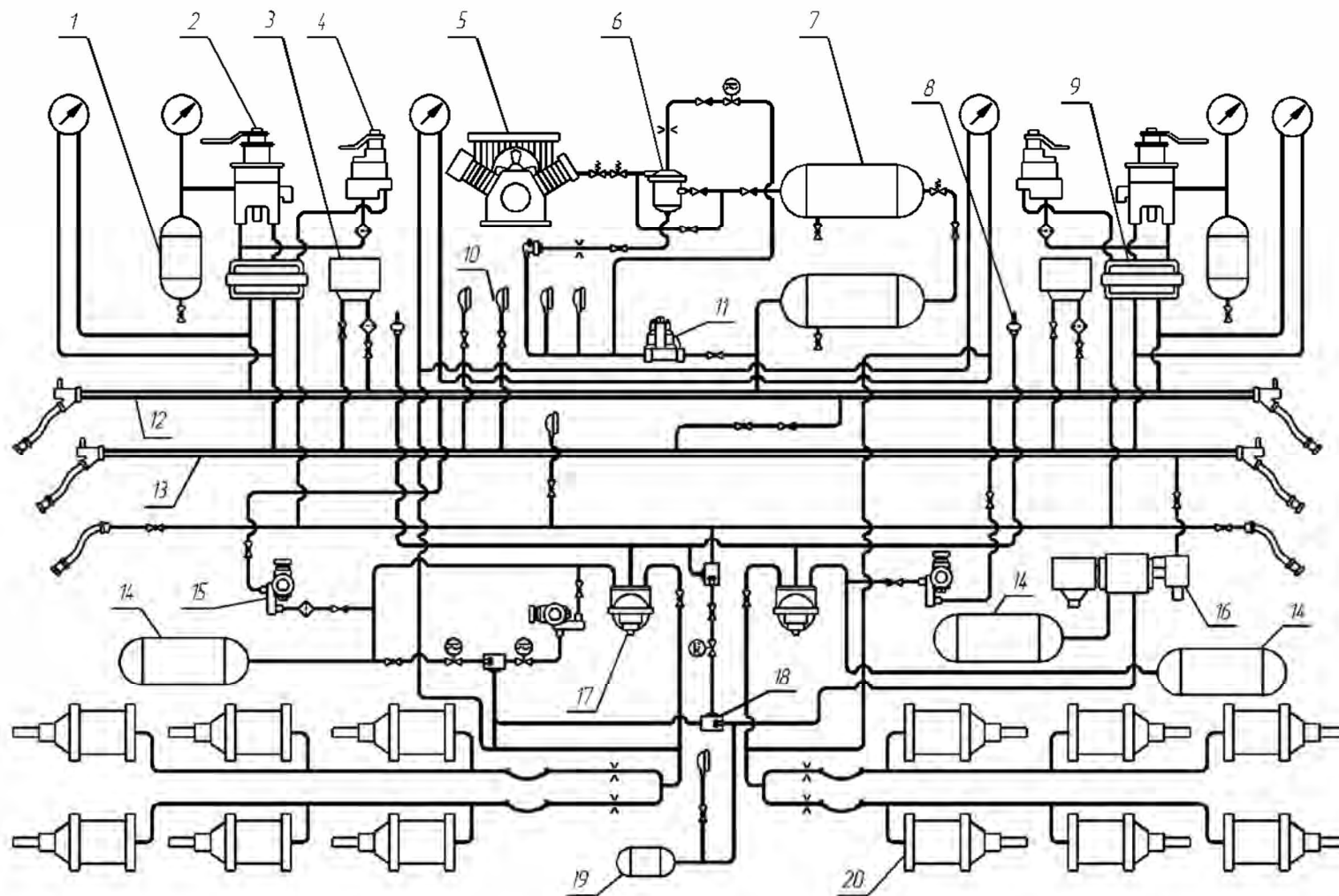
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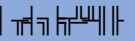
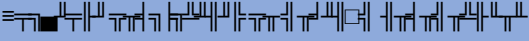
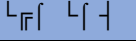
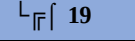
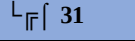
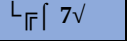
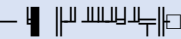
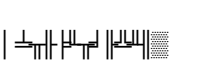
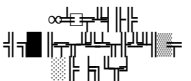
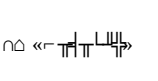
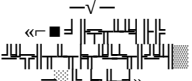
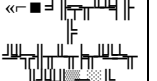
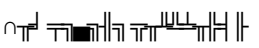
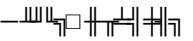
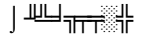
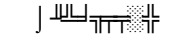
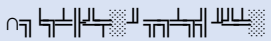
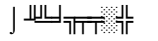
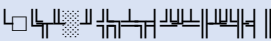
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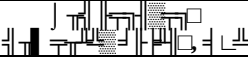
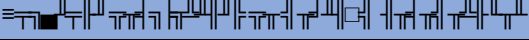
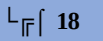
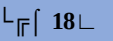
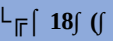
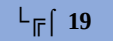
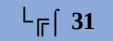
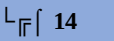
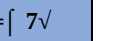
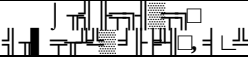
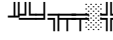
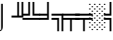
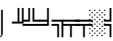
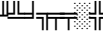
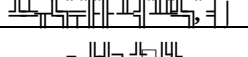
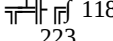
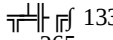
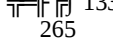
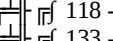
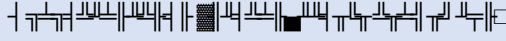
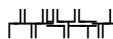
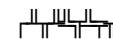
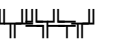
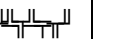
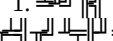
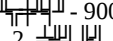
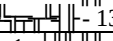
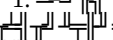
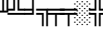
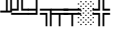
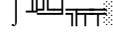
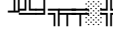
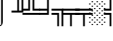
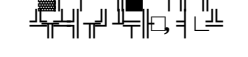
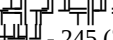
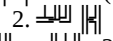
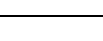
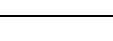
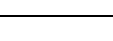
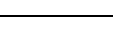
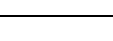
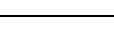
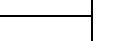
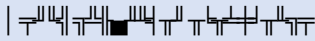
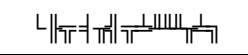
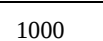
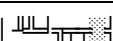
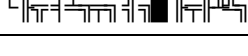
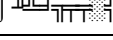
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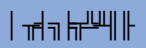
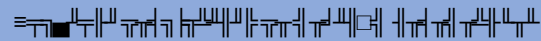
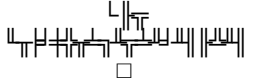
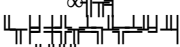
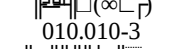
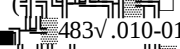
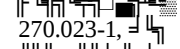
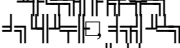
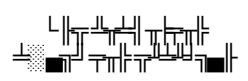
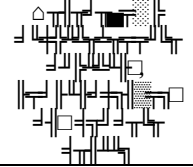
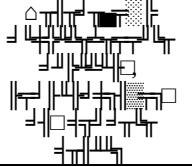
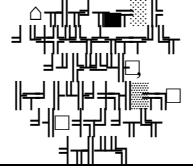
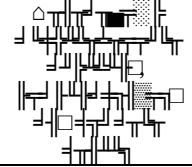
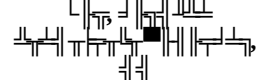
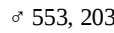
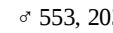
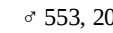
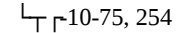
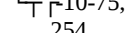
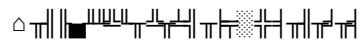
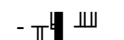
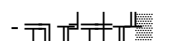
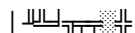


1.2.5 [—]

1.2.5.1 [—]

								
								
								
								
	2009	1992	2011	2007	2013	2009	2011	2008
	100	100	100	100	100	80	100	100
	3π3π	3π3π	3π3π	3π3π	3π3π	2π	2π+2π+2π+2π	2π+2π+2π+2π
	126±3%	126-3,78	126-3,78	126	126±3%	46	184±3%	180±3%
		121,1	121,1	121,1	123,4			173,4±3%
	2000	2000	2000	2000	400	400	1500	2000
	206	206±6,18	206	206±6,18	206	225,6	225,6	220±3%
								
	1060±20	1060	1060±20	1060±20	1060±20		1060±20	1060±20
	16900	16900	16900	16900	20000	11000	21500	21540
	1050	1050	1050	1050	1050	1050	1050 ⁺¹⁰	1050 ⁺¹⁰
								

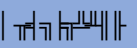
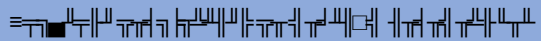
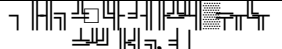
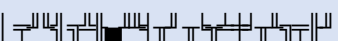
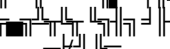
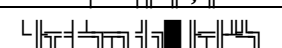
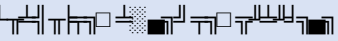
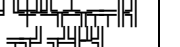
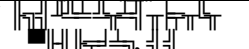
								
								
	970	882	882	882	880	440	1764	1500
	768	630  648	630	648			1520	1088
	4,41	4,41	4,41	4,41	4,41		4,41	4,41
	367		319	319	319	107,8	582,12	582
	1.  118 ñ 223 2.  133 - 265	200 (20,4)	206	206	206	102	431,2	300
	1.  118 - 9,9 2.  133 - 8,3	11,23	10,5	10,5	10,5	13	10,5	14,4
								
								
	1.   - 900 2.   - 1300						1400	1400
	1.   - 245 (25) 2.   - 225 (23)			 49,0  156,9				
								
	$\sqrt{\Delta} \frac{3.2}{1000} \downarrow 2 \uparrow 1$	$\Delta \text{ } 6$	$\Delta \text{ } 6 \downarrow 2$	$\Delta \text{ } 6 \downarrow 2$	$\sqrt{\Delta} \frac{3.2}{10-1000} \downarrow 2-01 \uparrow 2$	$\sqrt{\Delta} \text{ } 1.7/1 \uparrow 2$	$\frac{\Delta-5.25\sqrt{\Delta}}{\sqrt{\Delta} \text{ } 5.25/1} \downarrow 2^*$	$\Delta-5.25\sqrt{\Delta}$
	3,2		4,6	4,6	3,2	1,7	5,25	5,25
	1000	1000	1000	1000	1000		1000	1000
	 130	$\sigma \text{ } 395 \uparrow -01$	 130	$\sigma \text{ } 395 \uparrow -3$	$\sigma \text{ } 395 \uparrow -4-01$		$\sigma \text{ } 395 \uparrow -3-01$	$\sigma \text{ } 395 \uparrow -3-01$

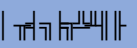
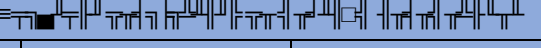
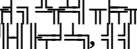
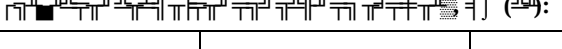
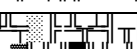
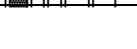
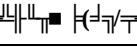
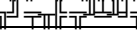
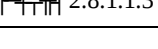
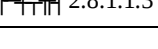
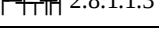
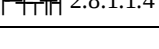
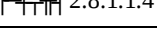
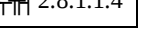
								
		 18	 18	 18f (f f)	 19	 31	 14	 7√
	 224f	 254-1	 224f f f =	 254-1	 254-2		 254-2	 254-2
	       	 483 f	 483v/-03	 483 f	 483v/-03	 483	 483v/-03	 483v/-03
								
								
		 553, 203	 553, 203	 553, 203	 553, 203		 10-75, 254	 10-75, 254
								
	2	2	2	2	2			
	24	24	24	24	24	32	32	32
	4	4	4	4	4	4	4	4
	55	55+5		55+5	55 - 60		50 - 75	50 - 75
	100	100	100	100	125		190	190

			7,8	7,8				
	2	2	2	2	2		2	2
	6	6	6	6	6		8	8
	118,7 (11,9)	118,7 (11,9)	118,7 (11,9)	118,7 (11,9)	118,7 (11,9)		127,5 (13)	127,5 (13)
	84,4 (8,4)	84,4 (8,4)	84,4 (8,4)	84,4 (8,4)	84,4 (8,4)		54 (5,5)	54 (5,5)
	0,57	0,57	0,57	0,57	0,57		0,57	0,58
	830	830	830	830	830	550	830	830
		1.3.6.1	1.3.6.1	1.3.6.1	1.3.6.1	1.3.6.1	1.3.6.2	1.3.6.2
	2.8.1.1.1	2.8.1.1.1	2.8.1.1.1	2.8.1.1.1	2.8.1.1.1	2.8.1.1.1	2.8.1.1.1	2.8.1.1.1

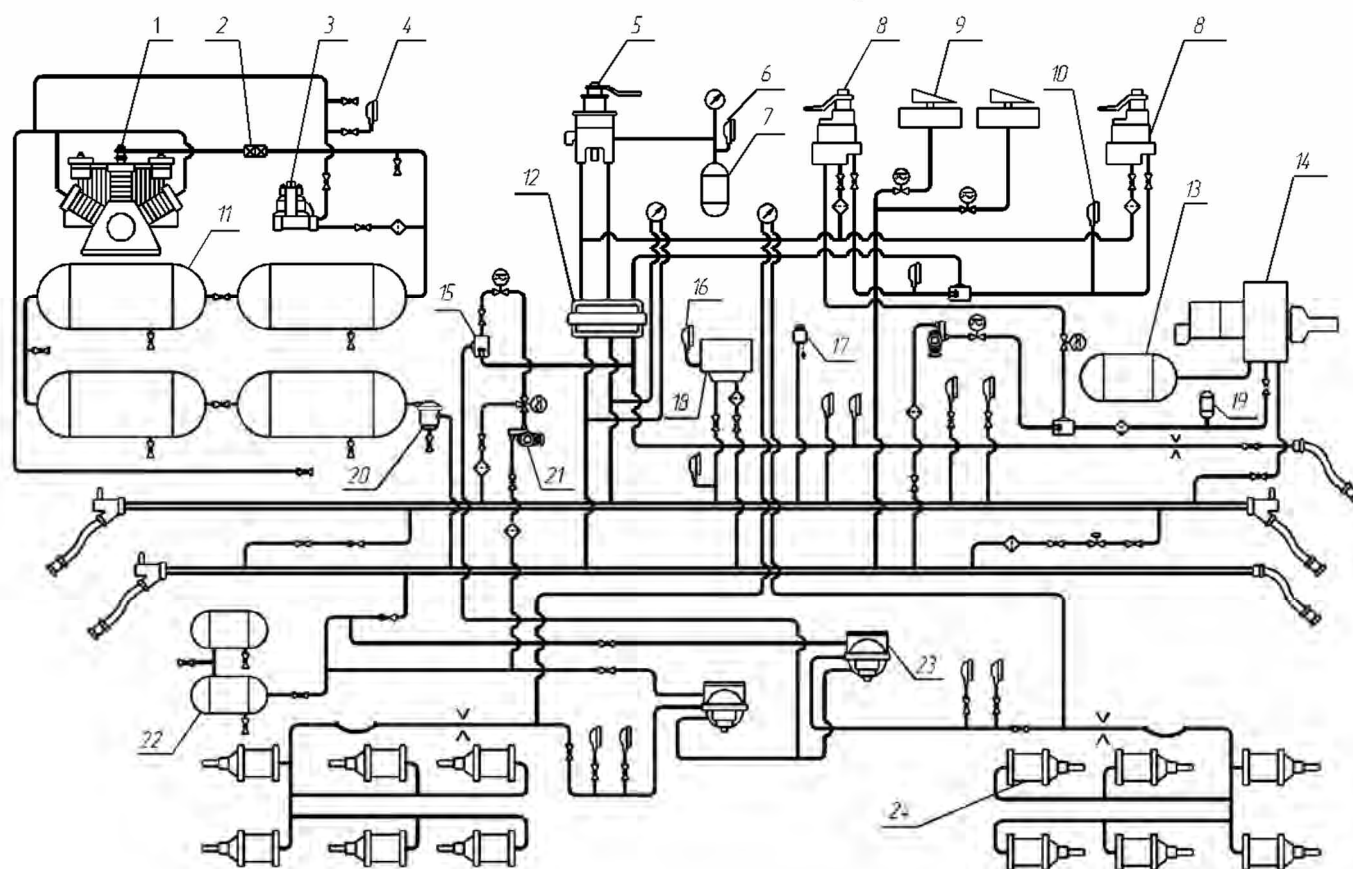
1.3.5.1

	2	2V	2 ¹	3	3 ^L	3 ^{IF}
	1960-2000	1960-2000	1978	1963	1984	1987
	100	100	100	95	95	95
	30i 30	30i 30	30i 30	30i 30	30i 30	30i 30
	123,6-3%	123,6-3%	123,6-3%	123	123	123
	114	116	114	116	116	116
	2000	2000	2000	1500	1500	1500
	5400	5400	5400	6000	5300	6000
	196±3%	196±3%	196±3%	205±3%	205±3%	205±3%
	16910-17275	16910-17275	16910-17275	17 220	17 220	17 220
	1050	1050	1050	1050	1050	1050
	882	882	882	993	993	993
	105	105	105	6×134 = 1 ^L	6×134 = 1 ^L	6×134 = 1 ^L
	4,41	4,41	4,41	5,2	5,2	5,2
				369	369	369

						
	 2	 2√	 2 ¹	 3	 3 ^L	 3 ^{ff}
	200	200	200	230	230	230
	11,1	11,1	11,1	11,4	11,4	11,4
						
						
					720	
					267	
						
	△ L ₆	△ L ₆	△ L ₆	△2	△2	△2
	5,7	5,7	5,7	2,63	2,63	2,63
	750-4,62	750-4,62	750-4,62	350-2000 750-3900	350-2000 750-3900	350-2000 750-3900
	1000	1000	1000	1000	1000	1000
	394	394	394	394	394	394
	254	254	254	254	254	254
	483	483	483	483  270.002	483  270.002	483  270.002
						
						
	254	254	254	203	203	203
						
	3	3	3	3	3	3

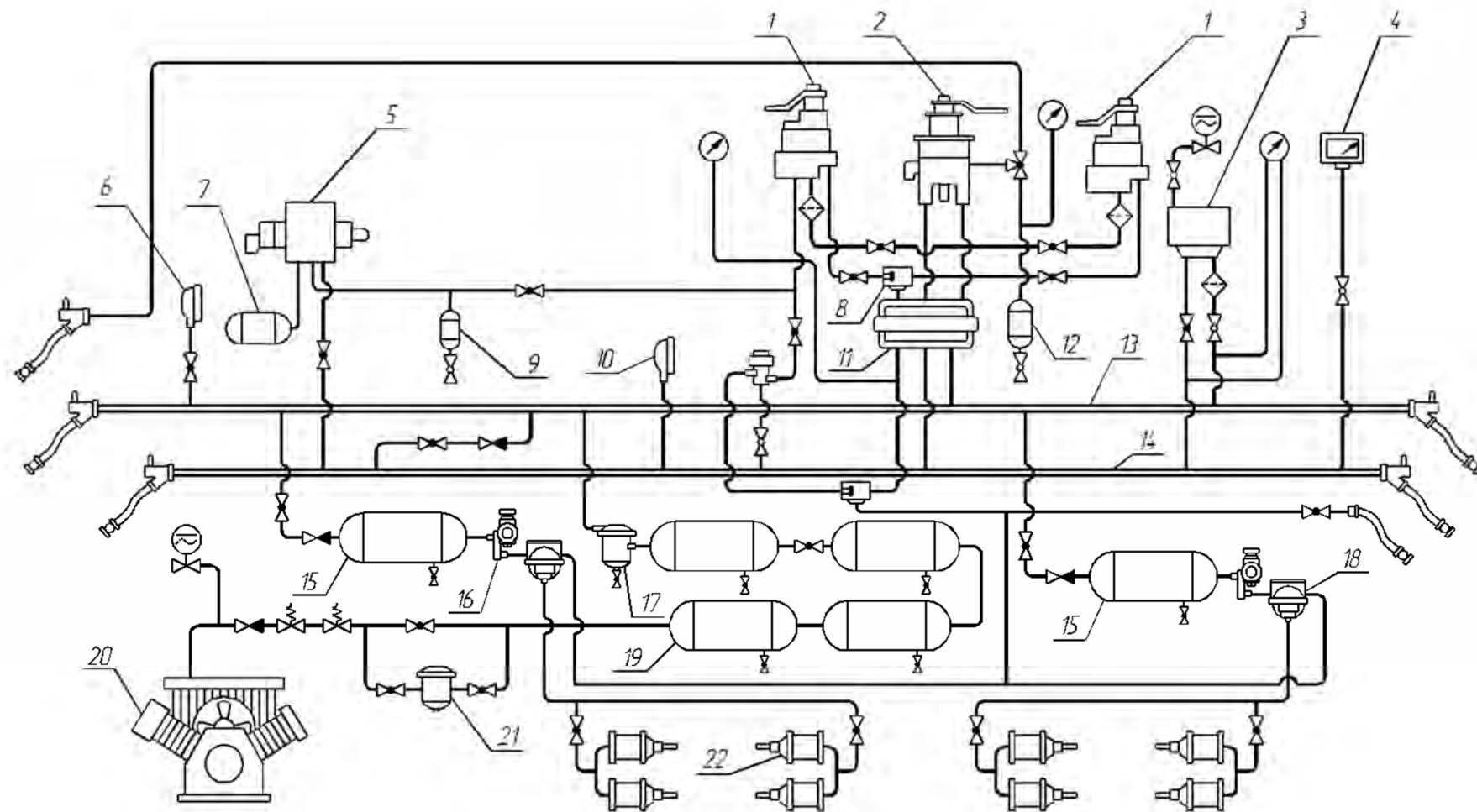
						
	 2	 2√	 2J	 3	 3L	 3F
 -	12	12	12	24	24	24
 -	2	2	2	4	4	4
	75-100	75-100	75-100	75-100	75-100	75-100
	125	125	125	125	125	125
	10,77	10,77	10,77	5,4	5,4	5,4
	2	2	2	2	2	2
						
						
	6	6	6	6	6	6
 :						
 -	98 (10)	107,9 (11)	107,9 (11)	107,9 (11)	107,9 (11)	107,9 (11)
 -	49 (5)	49 (5)	49 (5)	49 (5)	49 (5)	49 (5)
	0,49	0,54	0,54	0,54	0,54	0,54
 :						
 -	830	830	830	830	830	830
						
	 1.3.6.3	 1.3.6.3	 1.3.6.3	 1.3.6.4	 1.3.6.4	 1.3.6.4
	 2.8.1.1.3	 2.8.1.1.3	 2.8.1.1.3	 2.8.1.1.4	 2.8.1.1.4	 2.8.1.1.4

1.3.6



1.3.6.1

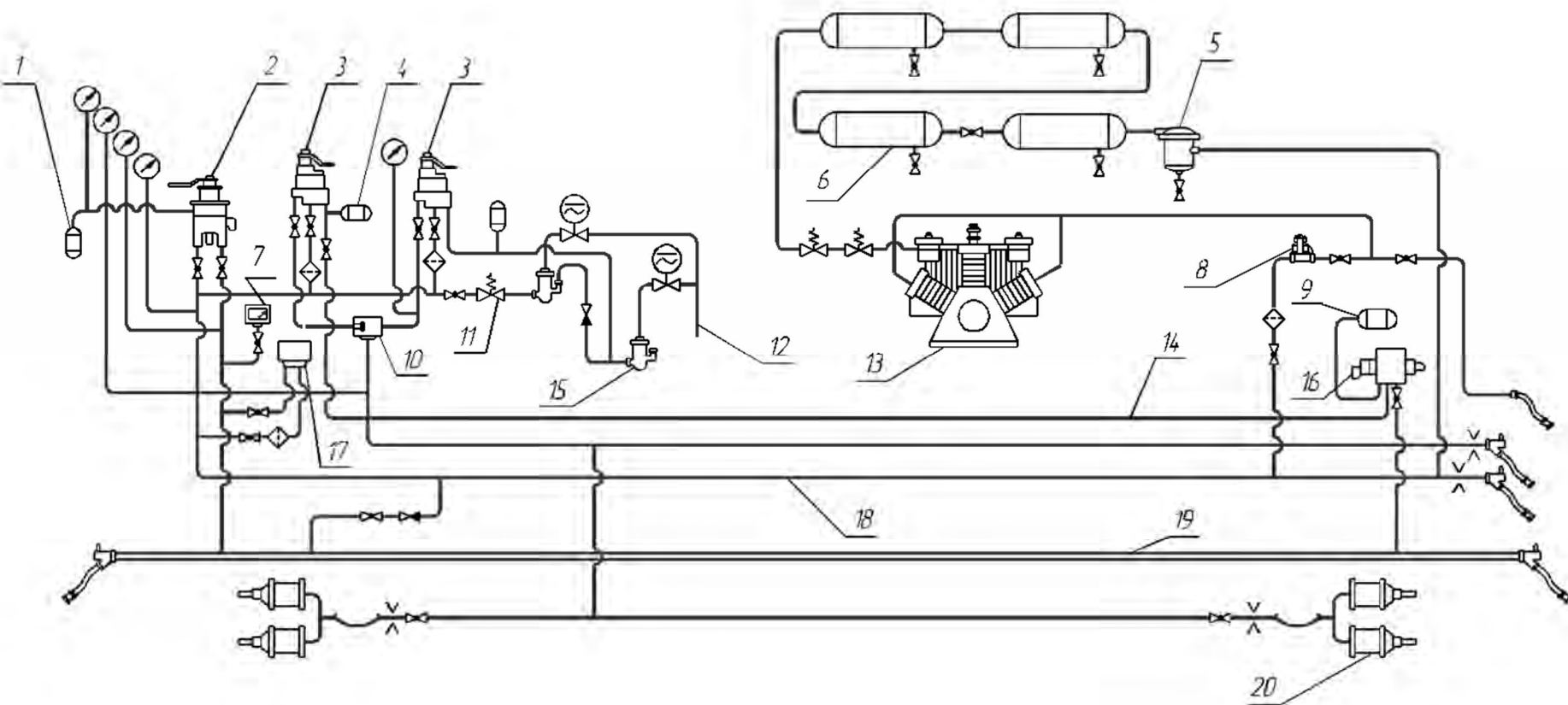
1 ñ ; 2 ñ ; 3 ñ ; 4 ñ ; 5 ñ ; 6 ñ ; 7 ñ ; 8 ñ ; 9 ñ ; 10 ñ ; 11 ñ ; 12 ñ ; 13 ñ ; 14 ñ ; 15 ñ ; 16 ñ ; 17 ñ ; 18 ñ ; 19 ñ ; 20 ñ ; 21 ñ ; 22 ñ ; 23 ñ ; 24 ñ



1.3.6.2

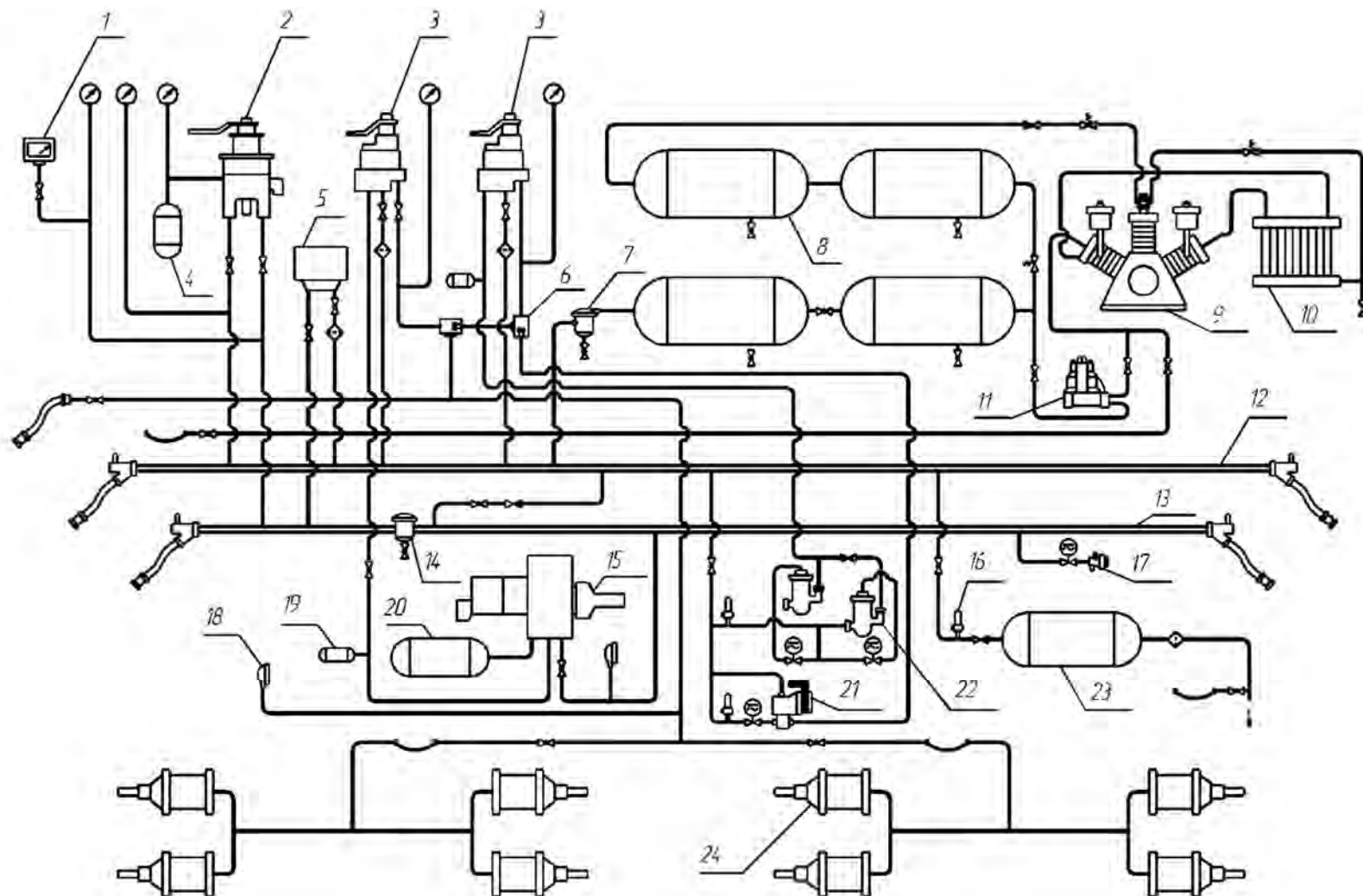
1 ñ 2 ñ 3 ñ 4 ñ 5 ñ 6 ñ 7 ñ 8 ñ 9 ñ 10 ñ 11 ñ 12 ñ 13 ñ 14 ñ 15 ñ 16 ñ 17 ñ 18 ñ 19 ñ 20 ñ 21 ñ 22 ñ

7, 7V, 14



1.3.6.3

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20.

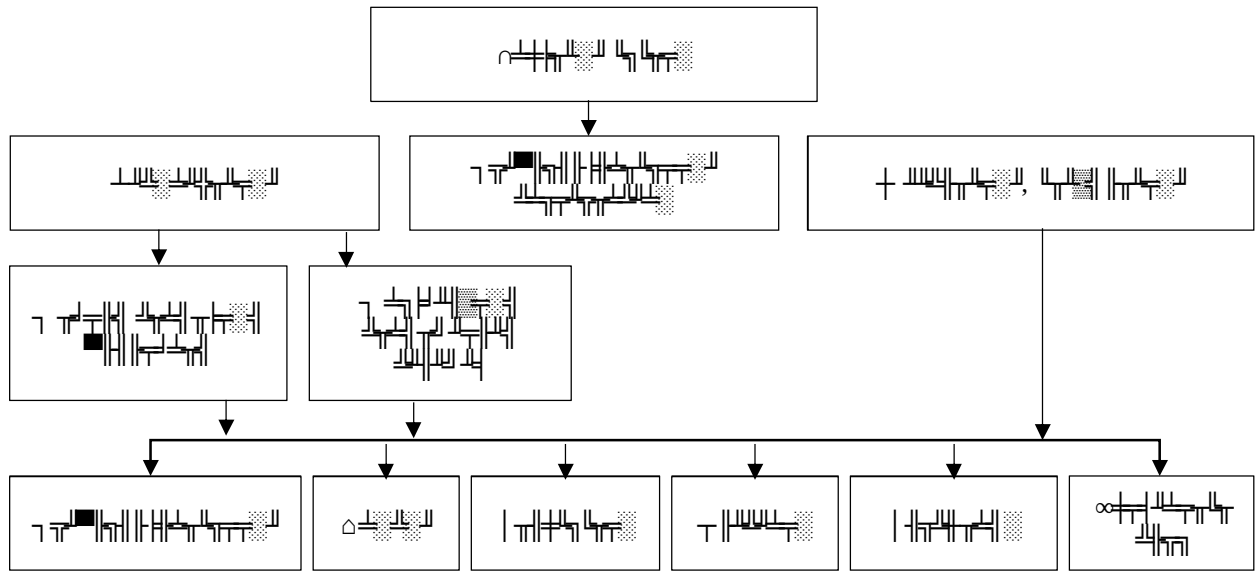


1 ñ 1.3.6.4; 2 ñ 3 ñ 4 ñ 5 ñ 6 ñ 7 ñ 8 ñ 9 ñ 10 ñ 11 ñ 12 ñ 13 ñ 14 ñ 15 ñ 16 ñ 17 ñ 18 ñ 19 ñ 20 ñ 21 ñ 22 ñ 23 ñ 24 ñ

3, 1 3∞ 1 3Δ, 1 3 L

DAKO-H; DAKO-TR;

1.3
1.3.1
1.3.1.1. —



1.3.1.1.1. —

1.3.1.1.1. —

| 1.3.1.1.1. — | 1.3.1.1.1.1. — |
|------------------|----------------|
| 1.3.1.1.1.1.1. — | 34434-2018 |
| 1.3.1.1.1.1.2. — | 51659-2000 |
| 1.3.1.1.1.1.3. — | 26725-97. |
| 1.3.1.1.1.1.4. — | 30243.3-99 |
| 1.3.1.1.1.1.5. — | 26686-96 |
| 1.3.1.1.1.1.6. — | 10935-97 |

| 1.3.1.2 | | | | | | | |
|---|--|------|-----------|------------|------------|------------|------|
| | | 90 | 90
100 | 100
120 | 120
140 | 140
160 | 140 |
| () | | | | | | | |
| | | 1060 | 1040 | 1200 | 1340 | 1130 | 1720 |
| | | 720 | 890 | 1200 | 1340 | 1130 | 1720 |
| | | 0,14 | 0,18 | 0,25 | 0,3 | - | - |
| | | 0,22 | 0,22 | 0,25 | 0,28 | - | - |
| <p>1 140 160 / «-»</p> <p>2 « » « » « » -</p> | | | | | | | |

1.3.1.3

| | 140/180 |
|--|---------|
| | 300/340 |
| | 400/450 |
| | |

1.3.1.4

| | 130/160 | 300/340 |
|--|---------|---------|
| | 160/200 | 400/450 |
| | | |

1.3.1.5

13,5

22,5

| 13,5 16 | 150/170 |
|---------|---------|
| 16 18 | 180/200 |
| 18 22,5 | 210/230 |
| | |

1.3.1.6 –

| | 7-78
52400-2005 | 2.2.3 |
|--|--|--------|
| | 7-135
52400-2005 | 2.2.3 |
| | 188 α
(-01, -02, -03, -04)
31402-2009 | 2.5.1 |
| | 002
31402-2009 | 2.5.1 |
| | 519 $\sqrt{}$
31402-2009 | 2.5.1 |
| | 710
(-01, -02, -03) | 2.5.1 |
| | 6571 $\sqrt{}$ ()
3184-027-10785350-2015 | 2.5.1 |
| | 483 | 2.4.1 |
| | $\Delta\sqrt{}$ L60 | - |
| | 6540
(-01, -02, -03)
3184-017-10785350-2013 | 2.4.1 |
| | 270.023-1
3184-021-05756760-00 | 2.4.1 |
| | 190
24.029.01-76 | 2.10.1 |
| | 4304
24.05.05.054-97 | 2.10.1 |

| ሰነድ ቁጥር | የሰነድ ስም | የሰነድ ዓይነት |
|---------|---|------------|
| ሰነድ ቁጥር | ሰነድ ቁጥር 4304 ሰነድ
3184-014-10785350-2007 | ሰነድ 2.10.1 |
| | ሰነድ ቁጥር 4313
3184-014-10785350-2007 | ሰነድ 2.10.1 |
| | ሰነድ ቁጥር 4314
3184-014-10785350-2007 | ሰነድ 2.10.1 |
| | ሰነድ ቁጥር 4314 α
3184-014-10785350-2007 | ሰነድ 2.10.1 |
| | ሰነድ ቁጥር 271.000
3184-088-05756760-2010 | ሰነድ 2.10.1 |
| | ሰነድ ቁጥር 271 ∞ .000
3184-088-05756760-2010 | ሰነድ 2.10.1 |
| | ሰነድ ቁጥር 190
3184-047-16632558-2006 | ሰነድ 2.10.1 |
| ሰነድ ቁጥር | ሰነድ ቁጥር 372
24.290.16-86 | ሰነድ 2.10.1 |
| | ሰነድ ቁጥር 4300
3184-003-10785350-99 | ሰነድ 2.10.1 |
| | ሰነድ ቁጥር 4300 α
3184-003-10785350-99 | ሰነድ 2.10.1 |
| | ሰነድ ቁጥር 1-20-4
24.05.10.105-94 | ሰነድ 2.10.1 |
| ሰነድ ቁጥር | ሰነድ ቁጥር 122-03
324.05.10.105-94 | ሰነድ 2.10.1 |
| | ሰነድ ቁጥር 100
3184-048-16632558-2006 | ሰነድ 2.10.1 |
| ሰነድ ቁጥር | ሰነድ ቁጥር 4325 α
3184-003-10785350-99 | ሰነድ 2.10.1 |
| ሰነድ ቁጥር | ሰነድ ቁጥር 4316
3184-006-10785350-2007 | ሰነድ 2.10.1 |
| ሰነድ ቁጥር | ሰነድ ቁጥር 573
3184-049-16632558-2006 | ሰነድ 2.10.2 |
| | ሰነድ ቁጥር 573
3184-513-05744521-2002 | ሰነድ 2.10.3 |
| | ሰነድ ቁጥር 4375
3184-011-10785350-2007 | ሰነድ 2.10.3 |
| | ሰነድ ቁጥር 4375-01
3184-011-10785350-2007 | ሰነድ 2.10.3 |

| — | ∫ | ∫ |
|---|---|----------|
| | 4375 ∫
□ 3184-011-10785350-2007 | ∫ 2.10.3 |
| | 4375 ∫-01
□ 3184-011-10785350-2007 | ∫ 2.10.3 |
| | 5342 ≤ (5342 ≤ -01)
□ 3184-016-10785350-2011 | ∫ 2.10.3 |
| + | 4338
□ 3184-021-10785350-2012 | ∫ 2.10.3 |
| | 4370
□ 3184-011-10785350-2007 | ∫ 2.10.3 |
| | 4374
□ 3184-011-10785350-2007 | ∫ 2.10.3 |
| ∫ | 4371
□ 3184-011-10785350-2007 | ∫ 2.10.3 |
| | 4378
□ 3184-011-10785350-2007 | ∫ 2.10.3 |
| | 26300-∫
32 ∫ 2569-2005 | ∫ 2.10.3 |
| ∫ | 4379
□ 3184-011-10785350-2007 | ∫ 2.10.3 |
| | 4379-01
□ 3184-011-10785350-2007 | ∫ 2.10.3 |
| | 5312
□ 3184-011-10785350-2007 | ∫ 2.10.3 |
| √ | 157 ∫
□ 24.05.10.135-98 ∫ 157-4 | ∫ 2.10.2 |
| | 17∞ (17-01)
∫ 2593-2014 | ∫ 2.10.4 |
| | 36 √, 36 ∞, 36 ∫
∫ 2593-94 | ∫ 2.10.4 |
| | 32∞-01 (32∞-01/01, 32∞-01/02)
∫ 2593-2014 | 2.10 |
| | 36∞-01 (36∞-01/01, 36∞-01/02)
∫ 2593-2014 [□ 3184-029-10785350-2015] | 2.10 |
| | 574∞
□ 24.5.264-77 | ∫ 2.8.2 |
| | ∫ -
675 | ∫ 2.8.2 |

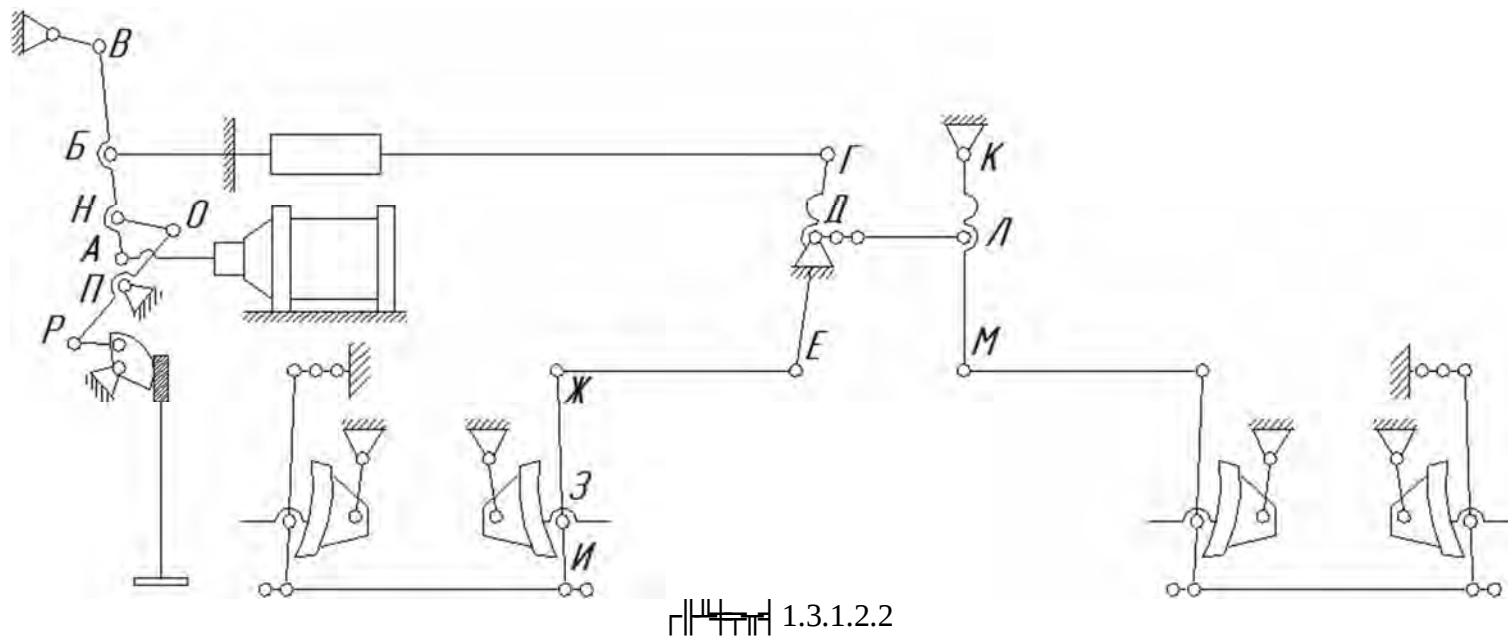
| — | ן | ן |
|---|---|---------|
| | 24.05.928-89 | |
| | ן - 675
24.05.928-89 | ן 2.8.2 |
| | ן - 300
24.05.928-89 | ן 2.8.2 |
| | √ 6581
3184-030-10785350-2015 | ן 2.4.6 |
| ן | ן 4384
3183-015-10785350-2005 | - |
| ן | ן "ן"
32.194-2002 | ן 2.9.1 |
| | ן 25130-ן ,
≤ 300
2571-028-00149386-2000 | ן 2.9.1 |
| | ן 25610-ן ,
≤ 300
2571-028-00149386-2000 | ן 2.9.1 |
| | ן 659.000,
≤ 300
38.114292-94 | ן 2.9.1 |
| | ן 659.000-01,
≤ 300
38.114292-94 | ן 2.9.1 |
| | ן 25130-03-ן , 950
2571-062-05766936-2002 | ן 2.9.1 |
| | ן 126-12-58, 126-12-58-01,
970/2
2571-123-05766936-2007 | ן 2.9.1 |
| √ | √ 1 | - |
| | √ 6532 (6532.1, 6532.2, 6532.3)
3184-020-10785350-2015 | ן 2.4.6 |
| | √ 6532-01 (6532-01.1, 6532-01.2, 6532-01.3)
3184-020-10785350-2015 | ן 2.4.6 |
| | √ 265√ -1
3184-509-05744521-98 | ן 2.4.6 |

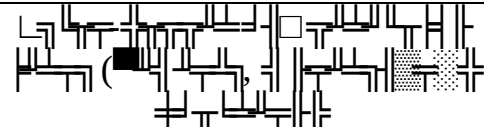
| — | ⌈ | ⌋ |
|---|--|-------|
| | $\sqrt{\text{⌋ 3184-509-05744521-98}}$
$\sqrt{\text{⌋ 3184-548-05744521-2012}}$ | 2.4.6 |
| | $\sqrt{\text{⌋ 3184-548-05744521-2012}}$ | 2.4.6 |
| | $\sqrt{\text{⌋ 3184-548-05744521-2012}}$ | 2.4.6 |

1.3.1.7

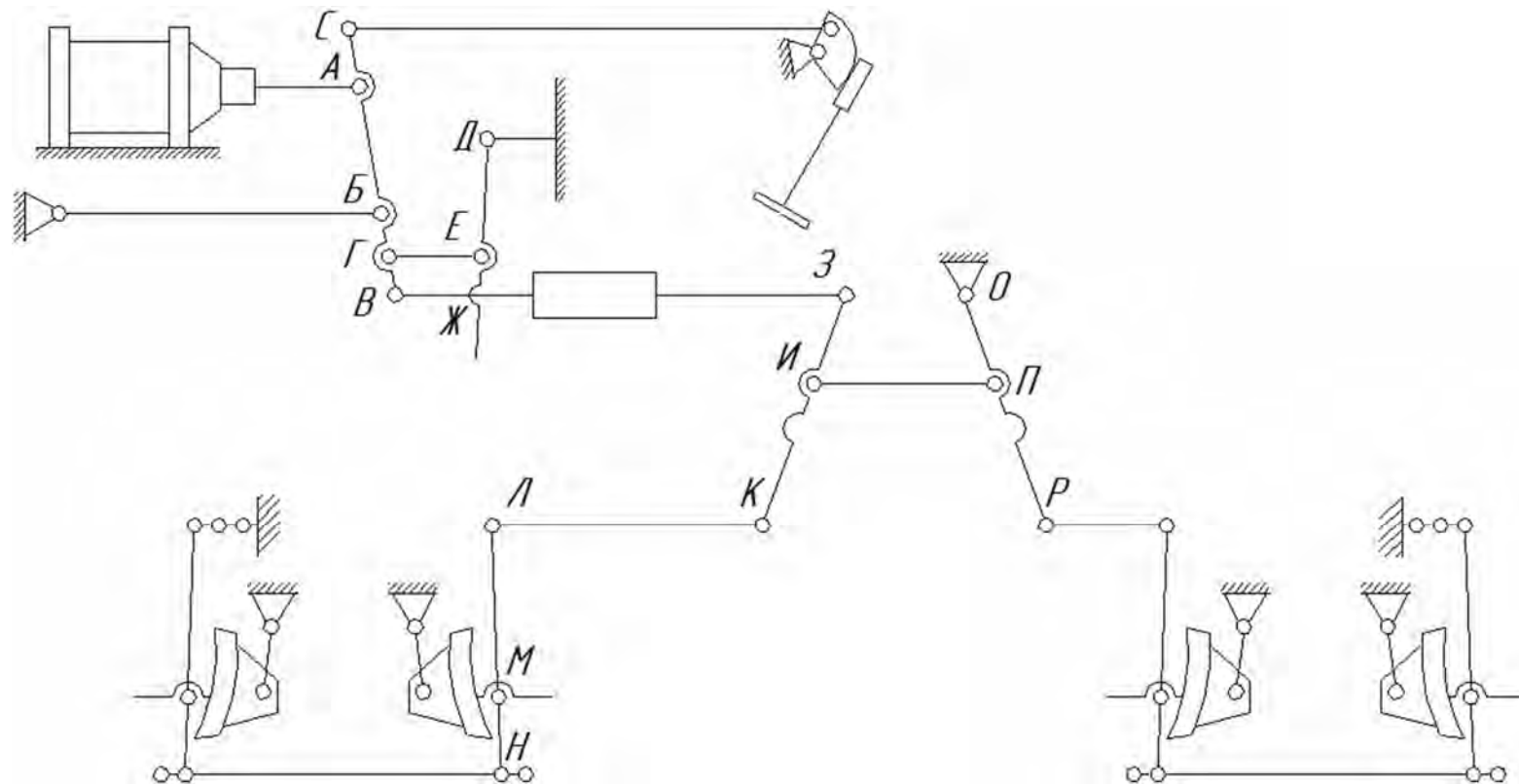
| <p>- ⌋ 33724.1 (⌋ 4.2.3) (⌋ 33223 (⌋ 5.6))</p> <p>- ⌋ 1561</p> <p>≤</p> | |
|--|--|
| ⌋ | ⌋ |
| <p>⌋ 31402 (⌋ 6.5)</p> <p>⌋ 33724.3 (⌋ 3.1)</p> <p>(⌋)</p> <p>- ⌋</p> <p>- ⌋</p> | <p>⌋ 33724.1</p> <p>- ⌋ 33724.1 (⌋)</p> <p>- ⌋</p> |

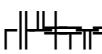
1.3.2.1.2.1.2 

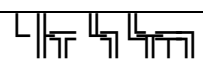


|  | $\sqrt{\infty}$ | ∞L | $\cap \int$
($\Delta \neg$) | $\int \approx$
($\Delta \int$) | $\neq \equiv$ | $\equiv \leq$ |
|--|-----------------|------------|----------------------------------|-------------------------------------|---------------|---------------|
|  | 290 | 370 | $\frac{195}{125}$ | $\frac{480}{550}$ | 400 | 160 |

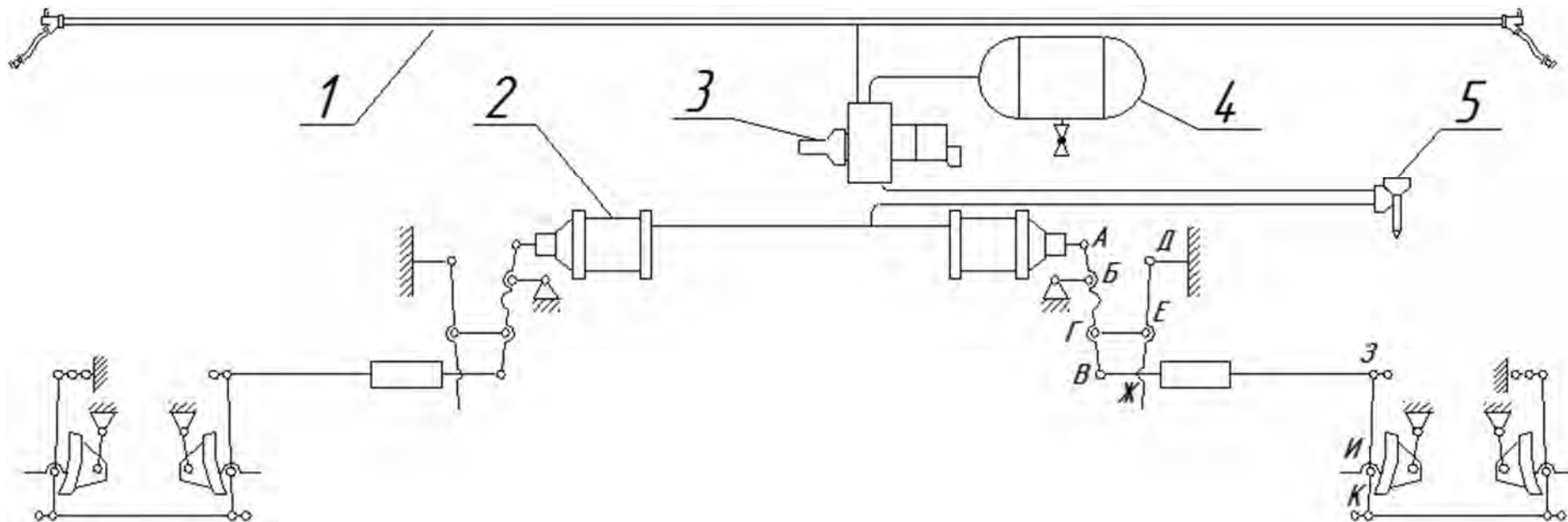
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 1.3.1.2.3

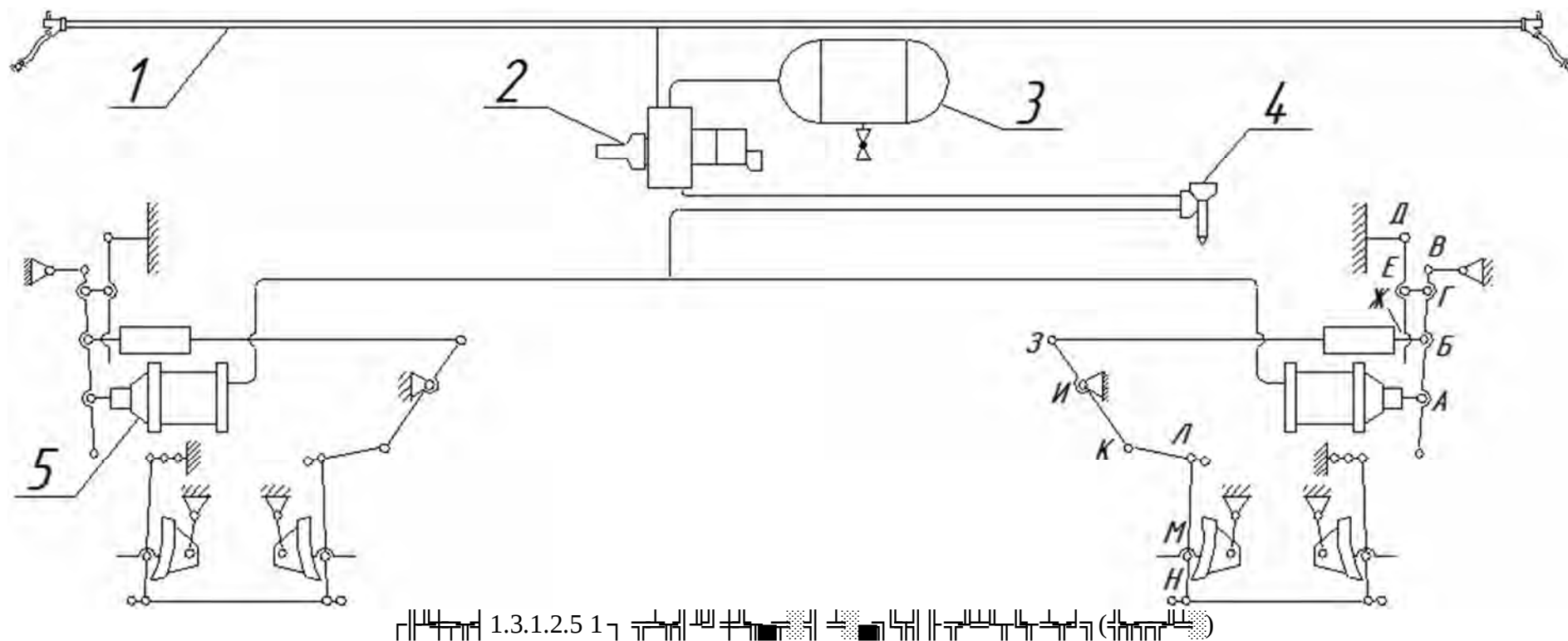
| | | | | | | | | | |
|---|-----------------|------------|----------|----------------|----------------|-------------------------|--------------------------------|-------------|-------------|
|  | $\sqrt{\infty}$ | ∞L | $\sqcup$ | $\int \approx$ | $\approx \neq$ | $\equiv \leq$
$(-)$ | $\leq \triangle$
$(\cap)$ | $\cap \int$ | $\cap \int$ |
|  | 295 | 310 | - | - | - | $\frac{220}{150}$ | $\frac{270}{340}$ | 400 | 160 |

1.3.2.1.2.1.2



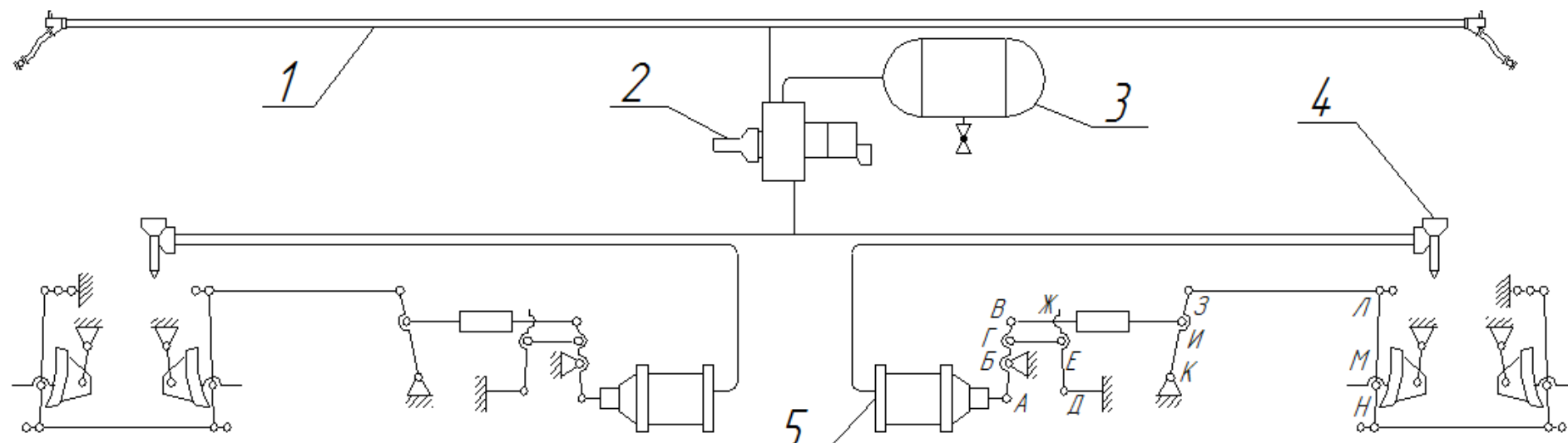
1 ñ 1.3.1.2.4 ∞ 2 ñ 3 ñ 4 ñ 5 ñ

| | $\sqrt{\infty}$ | $\infty \perp$ | $\infty \cap$ | $\int \approx$ | $\approx \neq$ | $\equiv \leq$ | $\leq \triangle$ |
|-----------|-----------------|----------------|---------------|----------------|----------------|---------------|------------------|
| 12-196-01 | 300 | 360 | 150 | 450 | 210 | 380 | 152 |
| 12-2132 | 405 | 255 | 90 | 485 | 165 | 380 | 152 |
| | 310 | 350 | 185 | | | | |
| 12-9853 | 310 | 350 | 140 | 450 | 210 | 400 | 160 |



1 ñ 2 ñ 3 ñ 4 ñ 5 ñ

| | | | | | | | | | |
|--------|-----------------|------------|----------|----------------|----------------|---------------|--------------------|-------------|-------------|
| | $\sqrt{\infty}$ | ∞L | $L \cup$ | $\int \approx$ | $\approx \neq$ | $\equiv \leq$ | $\equiv \triangle$ | $\cap \int$ | $\cap \int$ |
| 19-193 | 470 | 170 | - | - | - | 200
130 | 475
545 | 400 | 160 |

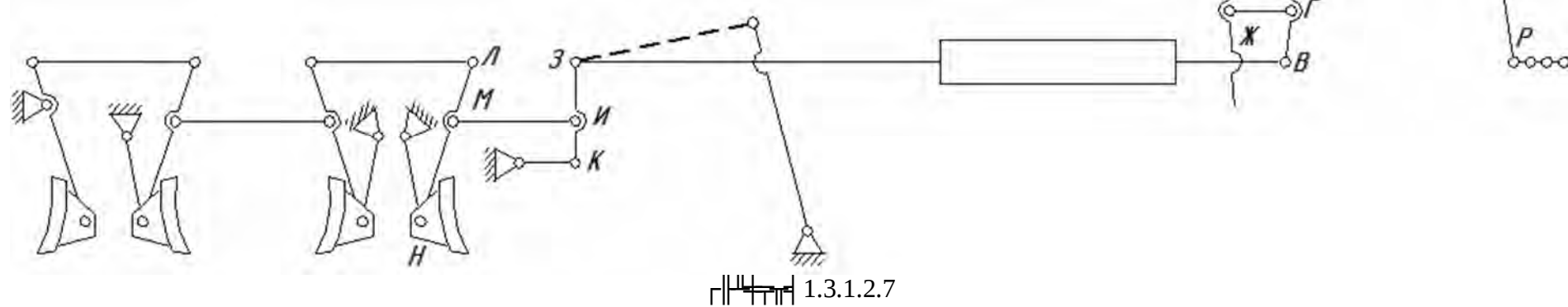
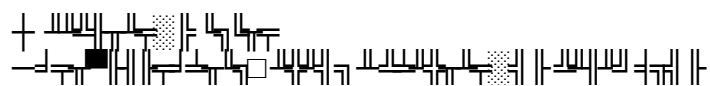


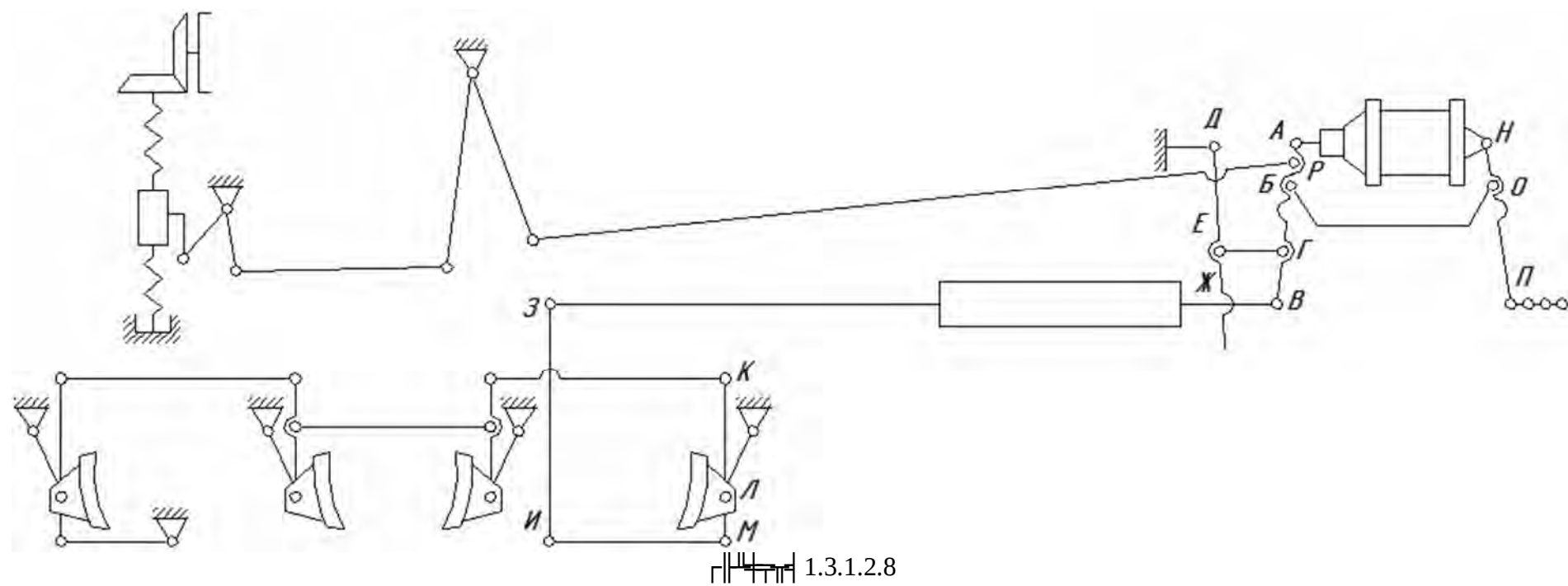
1.3.1.2.1 γ ()

1 ñ 2 ñ 3 ñ 4 ñ 5 ñ

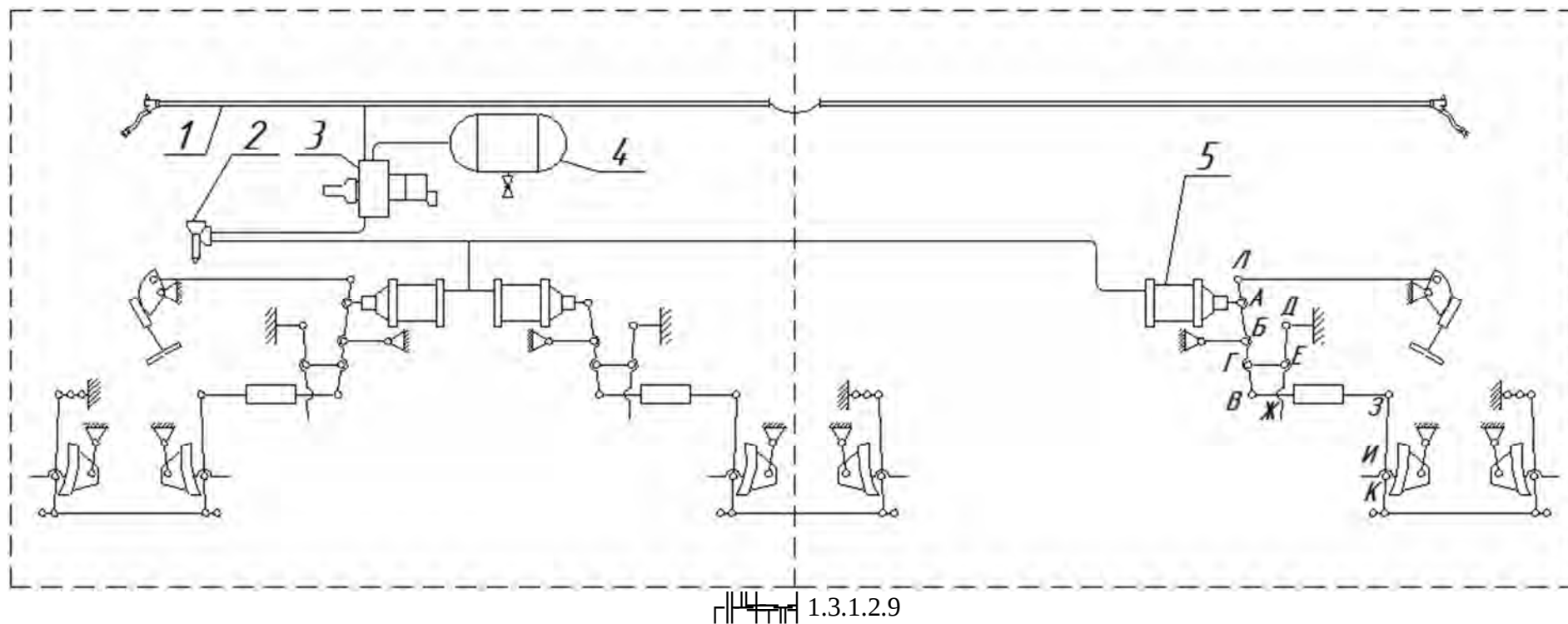
1.3.2.1.2.2

1.3.2.1.2.2.1





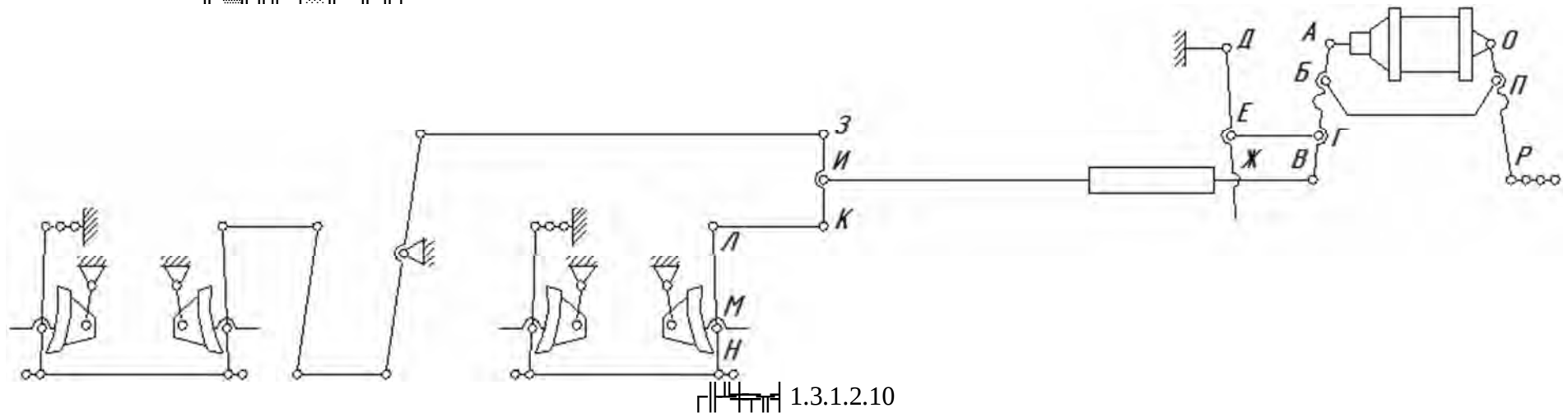
1.3.2.1.2.2.2 +



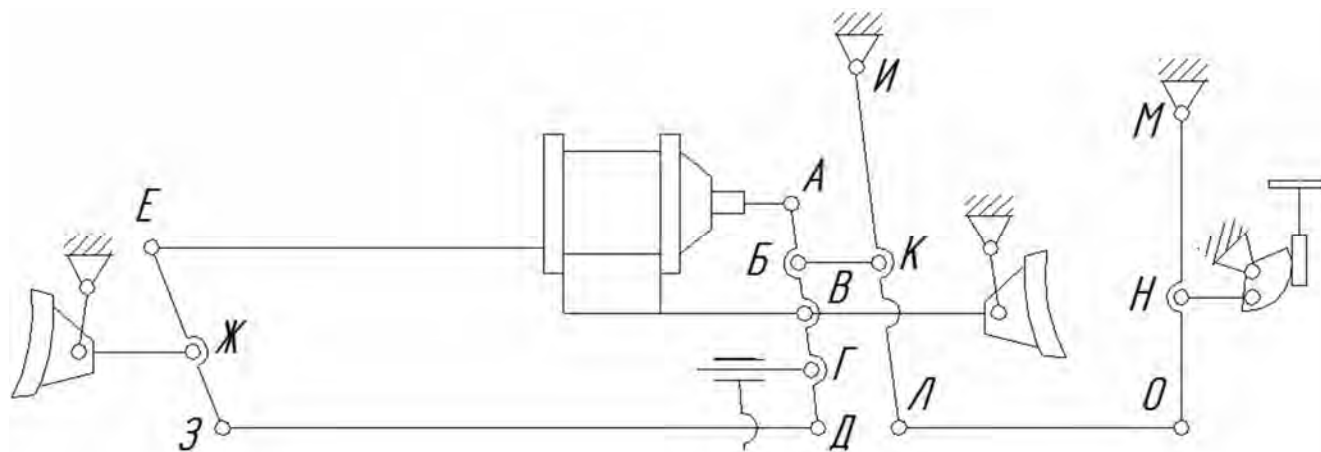
1 ñ 2 ñ ; 3 ñ 4 ñ 5 ñ

| | | | | | | | | |
|------------|-----------------|----------------|---------------|----------------|----------------|---------------|--------------------|------------|
| | $\sqrt{\infty}$ | $\infty \perp$ | $\infty \cap$ | $\int \approx$ | $\approx \neq$ | $\equiv \leq$ | $\equiv \triangle$ | $\sqrt{r}$ |
| 15-5941-01 | 300 | 350 | 190 | 490 | 160 | 400 | 160 | 150 |

1.3.2.1.2.3 



1.3.2.1.2.4



| | | | | | | | | | |
|------------|-----------|----------|---------------|----------------|------------------|------------------|-----------------|------|------------|
| $\sqrt{L}$ | $\lfloor$ | $\lceil$ | $\equiv \neq$ | $\neq \approx$ | $\leq \triangle$ | $\triangle \neg$ | $\sqrt{\infty}$ | $- $ | $\lceil $ |
| 189 | 135 | 65 | 142 | 162 | 124 | 432 | 72 | 120 | 180 |

1.3.2 ለጥንቃቄ የሚገባው የጥንቃቄ ስልጣን

1.3.2.1 - ለጥንቃቄ የሚገባው የጥንቃቄ ስልጣን

1.3.2.1 ለጥንቃቄ የሚገባው የጥንቃቄ ስልጣን ለጥንቃቄ የሚገባው የጥንቃቄ ስልጣን ለጥንቃቄ የሚገባው የጥንቃቄ ስልጣን

| ጥንቃቄ ስልጣን | ጥንቃቄ ስልጣን, ለጥንቃቄ የሚገባው የጥንቃቄ ስልጣን |
|-----------|--|
| ጥንቃቄ ስልጣን | ጥንቃቄ ስልጣን 55182-2012 ለጥንቃቄ የሚገባው የጥንቃቄ ስልጣን - ለጥንቃቄ የሚገባው የጥንቃቄ ስልጣን |

| ጥንቃቄ ስልጣን | ጥንቃቄ ስልጣን |
|--|--------------------------------------|
| ጥንቃቄ ስልጣን 160 - 200 ለጥንቃቄ የሚገባው የጥንቃቄ ስልጣን | ጥንቃቄ ስልጣን 160 ለጥንቃቄ የሚገባው የጥንቃቄ ስልጣን |
| - ጥንቃቄ ስልጣን | - ጥንቃቄ ስልጣን |
| - ጥንቃቄ ስልጣን | - ጥንቃቄ ስልጣን |
| - ጥንቃቄ ስልጣን (ጥንቃቄ ስልጣን) | - ጥንቃቄ ስልጣን (ጥንቃቄ ስልጣን) |
| - ጥንቃቄ ስልጣን | - ጥንቃቄ ስልጣን |
| - ጥንቃቄ ስልጣን | - ጥንቃቄ ስልጣን |

1.3.2.3 ለጥንቃቄ የሚገባው የጥንቃቄ ስልጣን ለጥንቃቄ የሚገባው የጥንቃቄ ስልጣን ለጥንቃቄ የሚገባው የጥንቃቄ ስልጣን

| ጥንቃቄ ስልጣን | ጥንቃቄ ስልጣን, ለጥንቃቄ የሚገባው የጥንቃቄ ስልጣን |
|-----------|-----------------------------------|
| 200 | 2100/1500* |
| 160 | 1450 |
| 140 | 1100 |
| 120 | 1000 |
| 100 | 700 |
| * | ጥንቃቄ ስልጣን ለጥንቃቄ የሚገባው የጥንቃቄ ስልጣን |

1.3.2.4 ለጥንቃቄ የሚገባው የጥንቃቄ ስልጣን ለጥንቃቄ የሚገባው የጥንቃቄ ስልጣን ለጥንቃቄ የሚገባው የጥንቃቄ ስልጣን (0,05-0,08)

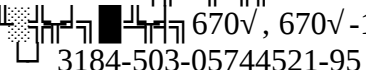
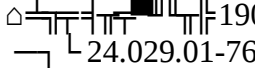
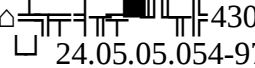
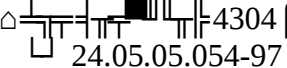
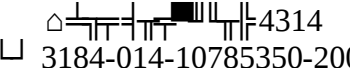
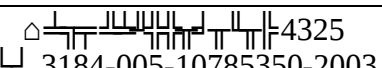
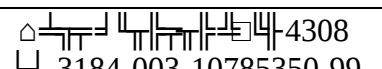
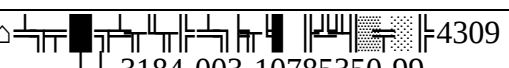
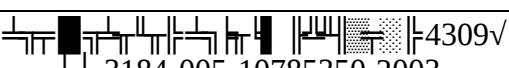
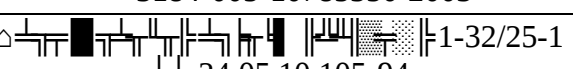
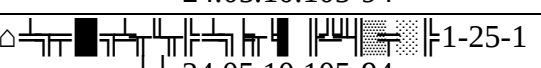
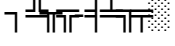
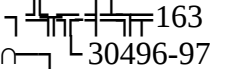
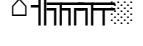
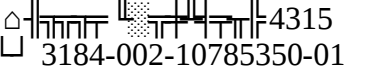
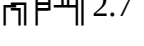
| ጥንቃቄ ስልጣን | ጥንቃቄ ስልጣን, ለጥንቃቄ የሚገባው የጥንቃቄ ስልጣን | | |
|-----------|-----------------------------------|-----|-----|
| | 120 | 100 | 80 |
| 200 | 750 | 500 | 330 |
| 160 | 800 | 550 | 350 |
| 140 | 800 | 550 | 350 |
| 120 | 1000 | 700 | 450 |

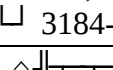
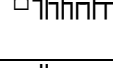
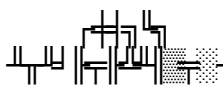
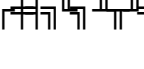
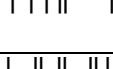
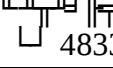
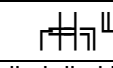
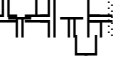
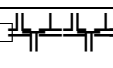
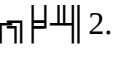
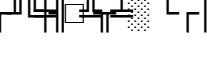
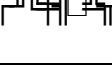
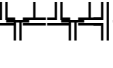
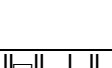
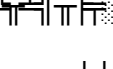
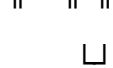
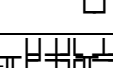
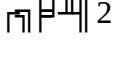
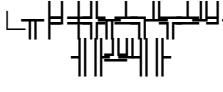
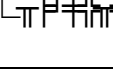
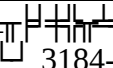
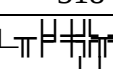
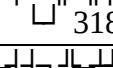
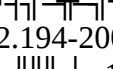
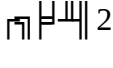
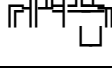
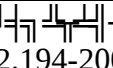
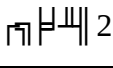
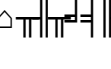
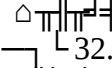
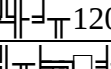
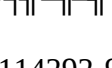
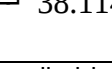
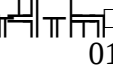
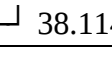
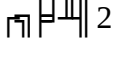
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1.3.2.6 –

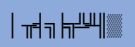
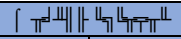
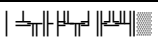
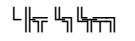
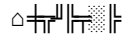
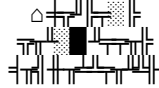
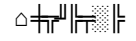
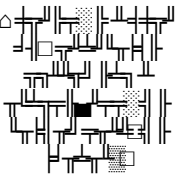
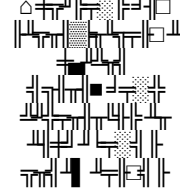
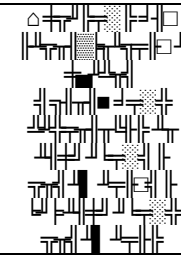
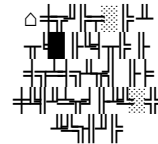
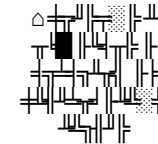
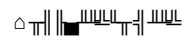
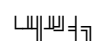
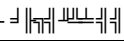
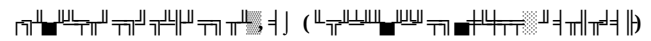
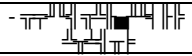
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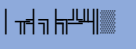
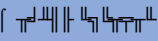
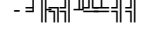
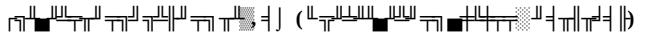
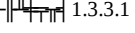
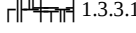
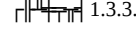
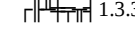
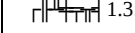
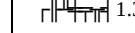
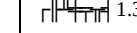
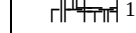
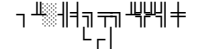
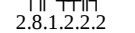
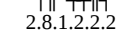
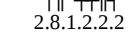
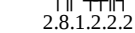
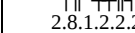
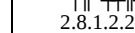
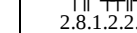
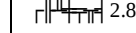
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  24.05.928-89
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  -300
  24.05.928-89 </p> |  2.8.2 |
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  24.05.10.064-87 </p> |  2.4.1 |
| | <p>  305
  3184-004-05756760-00 </p> |  2.4.2 |
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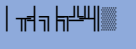
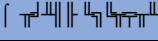
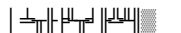
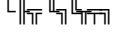
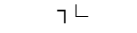
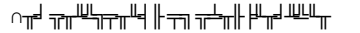
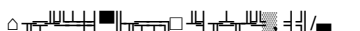
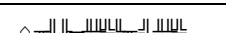
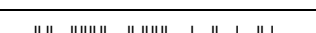
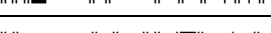
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-21-149</p> <p>2571-007-00149386-2000 ()
120</p> | |
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| J | <p>1479-002-49123292-2005,</p> <p>BECORIT 984</p> <p>ICER IR P 16</p> <p>PROPAD P16</p> | 2.9.2 |
| ∞ | <p>4075.42.100, 4075.42.100-01,</p> <p>WZ, WZK</p> <p>WZT</p> | 2.5.3 |
| 7 | <p>115, 115√
24.05.10.088-92</p> | 2.3.9 |
| △ | <p>1-14 3184-0271-0576760</p> | 2.7 |
| ∞ | <p>050-03
051</p> | 2.4.5 |
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24.05.360</p> | 2.4.3 |
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1.3.2.2 –
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| | 61-817 | 61-820 | 61-4179 | 61-4186 | 61-4517.02 | 61-4517.03 | 61-4440.02 | 61-4440.03 |
|  | —√— «L» | —√— «L» | —√— «L» | —√— «L» | —√— «L» | —√— «L» | —√— «L» | —√— «L» |
|  |  |  |  |  |  |  |  |  |
|  | 1991 | 1996 | 1998 | 1998 | 2019 | 2019 | 2008 | 2008 |
|  | 160 | 160 | 160 | 140 | 160 | 160 | 160 | 160 |
|  | 36 | 36 | 36 (18) | 26 | 36 | 36 | 36 | 18 |
|  | 2 | 2 | 2 (1) | 1 | 1 | 1 | 1 | 1 |
|  | 24537 | 24537 | 24537 | 24537 | 25500±20 | 25500±20 | 25500±20 | 25500±21 |
|  | $\Delta L_{\Sigma} \leq -$ | 68-4065 68-4066 | 68-4065 68-4066 | 68-4065 68-4066 | 68-4065 68-4066 | 68-4065 68-4066 | 68-4065 68-4066 | 68-4065 68-4066 |
|  | 47 | 51,8 | 56,7 | 58,9 | 61,6 | 61,5 | 60,5 | 60,5 |
|  | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 2 |
|  | 356 | 356 | 356 | 356 | 356 | 356 | 356 | 356 |
|  | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
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|  | 10,7 | 11,7 | 13 | 13 | 13 | 13 | 13 | 13 |

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| | 61-4516.02 | 61-4516.03 | 61-4194 | 61-4447 | 61-4447 | 61-4458.1 | 61-4458 | 61-532.3 | 61-4177 |
|  | 61,6 | 61,2 | 54 | 59 | 58 | 57,2 | 57,2 | 48 | 53,5 |
|  | 6 | 6 | 6 | 6 | 6 | 4,2 | 6,2 | 7 | 6 |
|  | 356 | 356 | 356 | 356 | 356 | 356 | 356 | 356 | 356 |
|  | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
|  | | | | | | | | | |
|  | 12,5 | 12,5 | 12,5 | 12,5 | 13 | 13 | 13 | 11,7 | 13 |
|  |  1.3.3.1 |  1.3.3.1 |  1.3.3.1 |  1.3.3.1 |  1.3.3.1 |  1.3.3.1 |  1.3.3.1 |  1.3.3.1 |  1.3.3.1 |
|  |  2.8.1.2.2.2 |  2.8.1.2.2.2 |  2.8.1.2.2.2 |  2.8.1.2.2.2 |  2.8.1.2.2.2 |  2.8.1.2.2.2 |  2.8.1.2.2.2 |  2.8.1.2.2.2 |  2.8.1.2.2.2 |

1.3.2.2.1.3

|  |  | | | | |
|---|---|---|---|---|--|
| | 61-4174 | 61-4193 | 61-4197 | 61-4449 | 61-4456 |
|  | —√— « L _Σ » | —√— « L _Σ » | —√— « L _Σ » | —√— « L _Σ » | —√— « L _Σ » |
|  |  |  |  |  |  |
|  | 1998 |  | 2003 | 2005 | 2005 |
|  | 160 | 160 | 160 | 140 | 160 |
|  | 16+2 | 4 (8) | 4 | 8 (12) | 18 |
|  | 2 | 1 | 1 | 1 | 1 |
|  | 24537 | 24537±20 | 24537 | 24537±20 | 24537±20 |

| השם המלא | הפרטים | | | | |
|---|--------------------|--------------------|--------------------|--------------------|--------------------|
| | 61-4174 | 61-4193 | 61-4197 | 61-4449 | 61-4456 |
| השם המלא | 68-4065 68-4066 | 68-4065 68-4066 | 68-4065 68-4066 | 68-4065 68-4066 | 68-4065 68-4066 |
| גובה | 58,8 | 64 | 64 | 64 | 64 |
| משקל (ק"ג) | 2 | 2 | 2 | 2 | 2 |
| זמן תגובה | 356 | 356 | 356 | 356 | 356 |
| זמן תגובה | 1 | 1 | 1 | 1 | 1 |
| הפרטים (הפרטים, הפרטים, הפרטים, הפרטים, הפרטים) | | | | | |
| זמן תגובה | 13 | 13 | 13 | 13 | 13 |
| הפרטים | 1.3.3.1 | 1.3.3.1 | 1.3.3.1 | 1.3.3.1 | 1.3.3.1 |
| הפרטים | 2.8.1.2.2.2 | 2.8.1.2.2.2 | 2.8.1.2.2.2 | 2.8.1.2.2.2 | 2.8.1.2.2.2 |

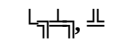
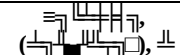
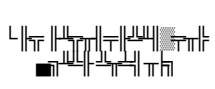
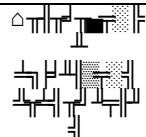
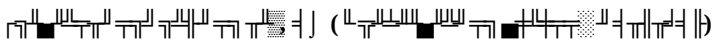
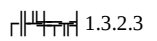
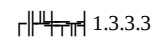
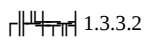
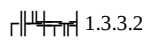
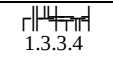
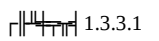
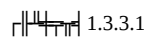
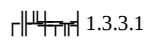
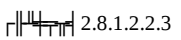
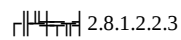
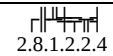
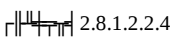
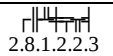
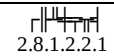
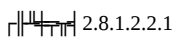
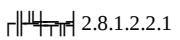
1.3.2.2.1.4 הפרטים (הפרטים, הפרטים, הפרטים, הפרטים, הפרטים)

| השם המלא | הפרטים | | | |
|----------|--|--------------------|--|--------------------|
| | 61-4445 | 61-4460 | 61-4464 | 61-4529 |
| השם המלא | —√— «L» | —√— «L» | —√— «L» | —√— «L» |
| הפרטים | הפרטים | הפרטים | הפרטים | הפרטים |
| הפרטים | 2008 | 2008 | 2010 | 2018 |
| הפרטים | 26 | 35 | 32 | 24 |
| הפרטים | 2,8 | 3 | 3 | 4 |
| הפרטים | 25500±20 | 26232 | 25500±20 | 25500±20 |
| השם המלא | 68-4095 68-4096 68-4065 68-4066 | 68-4065 68-4066 | 68-4095 68-4096 68-4065 68-4066 | 68-4065 68-4066 |

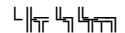
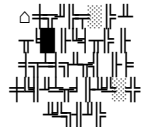
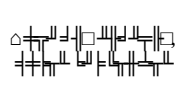
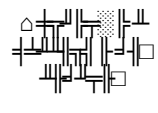
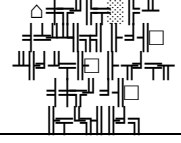
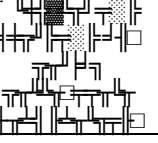
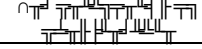
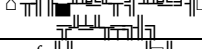
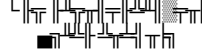
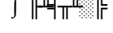
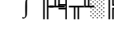
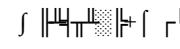
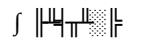
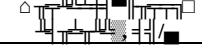
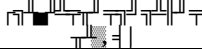
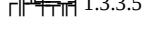
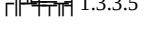
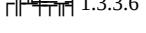
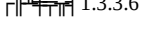
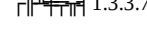
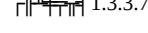
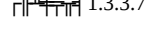
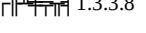
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|---|--|--|--|--|
| | 61-4445 | 61-4460 | 61-4464 | 61-4529 |
| <div> <div></div> <div></div> </div> | 160 | 160 | 160 | 160 |
| <div> <div></div> <div></div> </div> | 59 | 60,5 | 57,3 | <div> <div></div> <div></div> </div> |
| <div> <div></div> <div></div> </div> | 2,8 | 3,5 | 3,5 | <div> <div></div> <div></div> </div> |
| <div> <div></div> <div></div> </div> | 13 | 13 | 13 | <div> <div></div> <div></div> </div> |
| <div> <div></div> <div></div> </div> | <div> <div></div> <div></div> </div> 1.3.3.1 | <div> <div></div> <div></div> </div> 1.3.3.1 | <div> <div></div> <div></div> </div> 1.3.3.1 | <div> <div></div> <div></div> </div> 1.3.3.1 |
| <div> <div></div> <div></div> </div> | <div> <div></div> <div></div> </div> 2.8.1.2.2.2 | <div> <div></div> <div></div> </div> 2.8.1.2.2.2 | <div> <div></div> <div></div> </div> 2.8.1.2.2.2 | <div> <div></div> <div></div> </div> 2.8.1.2.2.2 |

1.3.2.2.1.5

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|---|--|--|--|--|---|--|---|---|
| | 61-905 | 61-906 | 61-4505 | 61-4504 | 61-531 | 61-4185 | 61-524 | 61-524.5 |
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| <div> <div></div> <div></div> </div> | <div> <div></div> <div></div> </div> | <div> <div></div> <div></div> </div> | <div> <div></div> <div></div> </div> | <div> <div></div> <div></div> </div> | <div> <div></div> <div></div> </div> | <div> <div></div> <div></div> </div> | <div> <div></div> <div></div> </div> | <div> <div></div> <div></div> </div> |
| <div> <div></div> <div></div> </div> | 160 | 160 | 160 | 160 | 160 | 160 | 120 | 120 |
| <div> <div></div> <div></div> </div> | 2009 | 2009 | 2015 | 2015 | 2005 | <div> <div></div> <div></div> </div> | <div> <div></div> <div></div> </div> | <div> <div></div> <div></div> </div> |
| <div> <div></div> <div></div> </div> | 2 | 4 | <div> <div></div> <div></div> </div> | <div> <div></div> <div></div> </div> | 4 | 3 | 11 | <div> <div></div> <div></div> </div> |
| <div> <div></div> <div></div> </div> | 24537 | 24537 | 25500 | 25500 | 23962 | 24537 | 24537 | <div> <div></div> <div></div> </div> |
| <div> <div></div> <div></div> </div> | <div> <div></div> <div></div> </div> 4161 <div> <div></div> <div></div> </div> 30.00.000-3-03, <div> <div></div> <div></div> </div> 4161 <div> <div></div> <div></div> </div> 30.00.000-3-05 | <div> <div></div> <div></div> </div> 4161 <div> <div></div> <div></div> </div> 30.00.000-3-03, <div> <div></div> <div></div> </div> 4161 <div> <div></div> <div></div> </div> 30.00.000-3-05 | 68-875 <div> <div></div> <div></div> </div> 68-876 | 68-875 <div> <div></div> <div></div> </div> 68-876 | <div> <div></div> <div></div> </div> <div> <div></div> <div></div> </div> <div> <div></div> <div></div> </div> <div> <div></div> <div></div> </div> | 68-875 <div> <div></div> <div></div> </div> 68-876 | <div> <div></div> <div></div> </div> <div> <div></div> <div></div> </div> <div> <div></div> <div></div> </div> <div> <div></div> <div></div> </div> | <div> <div></div> <div></div> </div> <div> <div></div> <div></div> </div> <div> <div></div> <div></div> </div> <div> <div></div> <div></div> </div> |

|  |  | | | | | | | |
|---|--|--|--|--|--|--|--|--|
| | 61-905 | 61-906 | 61-4505 | 61-4504 | 61-531 | 61-4185 | 61-524 | 61-524.5 |
|  | 47,3 | 46 | 47 | 36,6 | 46,5 | 49,2 | 54,4 |  |
|  | 25 | 22 |  |  | 22 | 20 | 17 |  |
|  |  |  |  |  |  |  |  |  |
|  | | | | | | | | |
| -  | 710  188~ | 710  188~ | 710  188~ | 710  188~ | 710  188~ | 710  188~ | 710  188~ | 710  188~ |
| -  | 254 | 254 | 254 | 254 | 254 | 356 | 356 | 356 |
| -  | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 1 |
|  | | | | | | | | |
| -  | 12 | 12 | 12 | 12 | 12,42 | 8 | 8 | 8 |
|  |  1.3.2.3 |  1.3.3.3 |  1.3.3.2 |  1.3.3.2 |  1.3.3.4 |  1.3.3.1 |  1.3.3.1 |  1.3.3.1 |
|  |  2.8.1.2.2.3 |  2.8.1.2.2.3 |  2.8.1.2.2.4 |  2.8.1.2.2.4 |  2.8.1.2.2.3 |  2.8.1.2.2.1 |  2.8.1.2.2.1 |  2.8.1.2.2.1 |

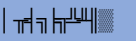
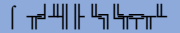
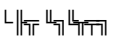
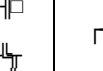
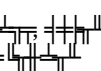
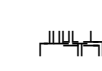
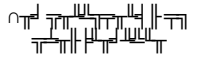
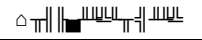
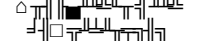
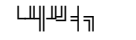
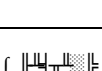
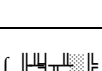
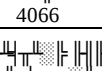
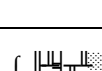
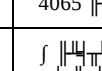
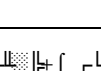
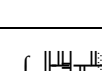
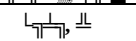
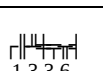
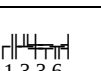
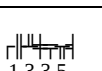
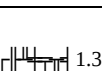
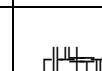
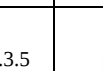
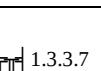
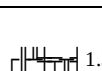
1.3.2.2.2 |
1.3.2.2.2.1

|  |  | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 61-4440.02 | 61-4440.03 | 61-4453 | 61-4441 | 61-4170 | 61-4188 | 61-4188 | 61-4465 |
|  |  |  |  |  |  |  |  |  |
|  | 2008 | 2008 | 2008 | 2004 | 1999 | 1999 | 1999 | 2013 |
|  | 36 | 18 | 32 | 48 | 48 | 38 | 38 | 64 |
|  | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 |
|  | 25500±20 | 25500±21 | 25500 | 25500 | 25500 | 25500 | 25500 | 26232±20 |
|  | 68-4095 68-4096
 68-4065 68-4066 | 68-4095 68-4096
 68-4065 68-4067 | 68-4095 68-4096 | 68-4095 68-4096 | 68-4075 68-4076 | 68-4075 68-4076 | 68-4075 68-4076 | 68-4095 |
|  |  |  |  |  |  |  |  |  |
|  | 160 | 160 | 160 | 160 | 200 | 200 | 200 | 160 |
|  | 60,5 | 60,5 | 57 | 60 | 57 | 57 | 57 | 64,4 |
|  | 4 | 4 | 4 | 4 | 5 | 4 | 4 | 6,4 |
|  | 16 | 16 | 16 | 16 | 18 | 18 | 18 | 16 |
|  |  1.3.3.5 |  1.3.3.5 |  1.3.3.6 |  1.3.3.6 |  1.3.3.7 |  1.3.3.7 |  1.3.3.7 |  1.3.3.8 |

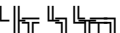
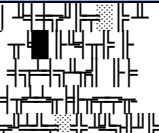
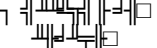
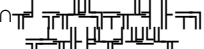
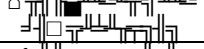
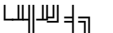
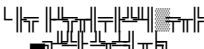
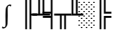
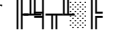
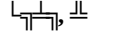
1.3.2.2.2.2

| | 9255 | 61-4443 | 61-4452 | 61-4462.1 | 61-4465 |
|--|--------------------|--------------------|--------------------|--------------------|----------|
| | | | | | |
| | 2003 | 2004 | 2006 | 2010 | 2013 |
| | 5 | 16 | 16 | 18 | 30 |
| | 2 | 2 | 2 | 2 | 2 |
| | 25500±20 | 25500 | 25500 | | 26232±20 |
| | 68-4075 68-4076 | 68-4095 68-4096 | 68-4095 68-4096 | 68-4095 68-4096 | 68-4095 |
| | | | | | |
| | 200 | 160 | 160 | 160 | 160 |
| | 66,3 | 56 | 58,6 | 55,8 | 64,4 |
| | 1 | 2 | 2 | 2 | 3,2 |
| | 13 | 13 | 13 | 13 | 13 |
| | | | | | |

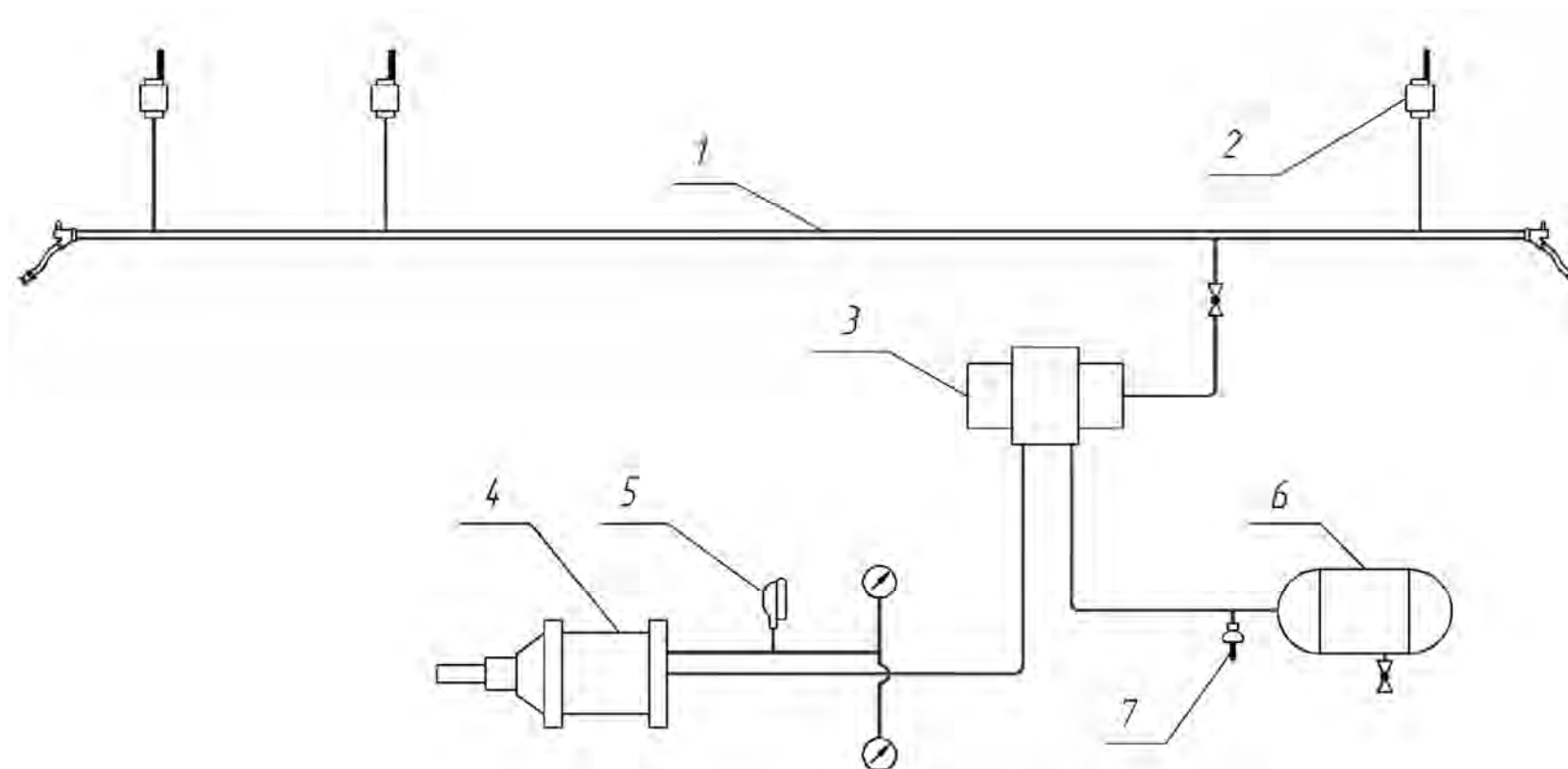
1.3.2.2.2.3 (, , ,)

|  |  | | | | | | | | | |
|---|--|--|--|--|---|--|--|--|--|--|
| | 61-4444 | 61-4455 | 61-4454 | 61-4442 | 61-4445 | 61-4472 | 61-4464 | 61-4189 | 61-4460.04 | 61-4473 |
|  |  |  |  |  |  |  |  |  |  |  |
|  | 2004 | 2008 | 2008 | 2004 | 2008 | 2013 | 2010 | 2002 | 2010 | 2013 |
|  | 48 | 34 | 22 | 14 | 26 | 50 | 32 | 34 | 35 | 48 |
|  | 3 | 3 | 1 | 1 | 3 | 1 | 3 | 1 | 3 | 6 |
|  | 25500 | 25500 | 25500 | 25500 | 25500±20 | 26232±20 | 25500±20 | 25500 | 26232 | 26232±20 |
|  | 68-4095 68-4096 | 68-4095 68-4096 | 68-4095 68-4096 | 68-4095 68-4096 | 68-4095 68-4096 68-4065 68-4066 | 68-4095 | 68-4095 68-4096 68-4065 68-4066 | 68-4075 68-4076 | 68-4095 68-4096 | 68-4095 |
|  |  |  |  |  |  |  |  |  |  |  |
|  | 160 | 160 | 160 | 160 | 160 | 160 | 160 | 200 | 160 | 160 |
|  | 65 | 65 | | 58 | 59 | 66 | 57,3 | 60,2 | 60,3 | 63 |
|  | 3 | 3 | 3 | 3 | 2,8 | 5,6 | 3,5 | 3 | 3,5 | 3,5 |
|  | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 |
|  | 
1.3.3.6 | 
1.3.3.6 | 
1.3.3.6 | 
1.3.3.6 | 
1.3.3.5 | 
1.3.3.8 | 
1.3.3.5 | 
1.3.3.7 | 
1.3.3.8 | 
1.3.3.8 |

1.3.2.2.2.4 | (,)

|  |  | | | | | | |
|---|--|--|--|--|---|---|---|
| | 61-4447 | 61-4447 | 61-4458.01 | 61-4458 | 61-4178 | 61-4192 | 61-4492 |
|  |  |  |  |  |  |  |  |
|  | 2008 | 2008 | 2008 | 2008 | 2008 | 2002 | 2015 |
|  | 54+1 | 54+1 | 40 | 60 | 60 | 68 | 60  102 |
|  | 1 | 1 | 1 | 1 | 1 | 1 | 2 |
|  | 25500±20 | 25500±20 | 25500±20 | 25500±20 | 24537 | 24537 | 26510±20 |
|  | 68-4095  68-4096
 68-4065  68-4066 | 68-4095  68-4096
 68-4065  68-4066 | 68-4095  68-4096
 68-4065  68-4066 | 68-4095  68-4096
 68-4065  68-4066 | 68-4071  68-4072 | 68-4075  68-4076 | 68-4095 |
|  |  |  |  |  |  |   |  |
|  | 160 | 160 | 160 | 160 | 160 | 200 | 160 |
|  | 59 | 58 | 57,2 | 57,2 | 48 | 56 | 64 |
|  | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
|  | 13 | 13 | 13 | 13 | 11,7 | 13 | 13 |
|  |  1.3.3.5 |  1.3.3.5 |  1.3.3.5 |  1.3.3.5 |  1.3.3.6 |  1.3.3.7 |  1.3.3.8 |

1.3.3

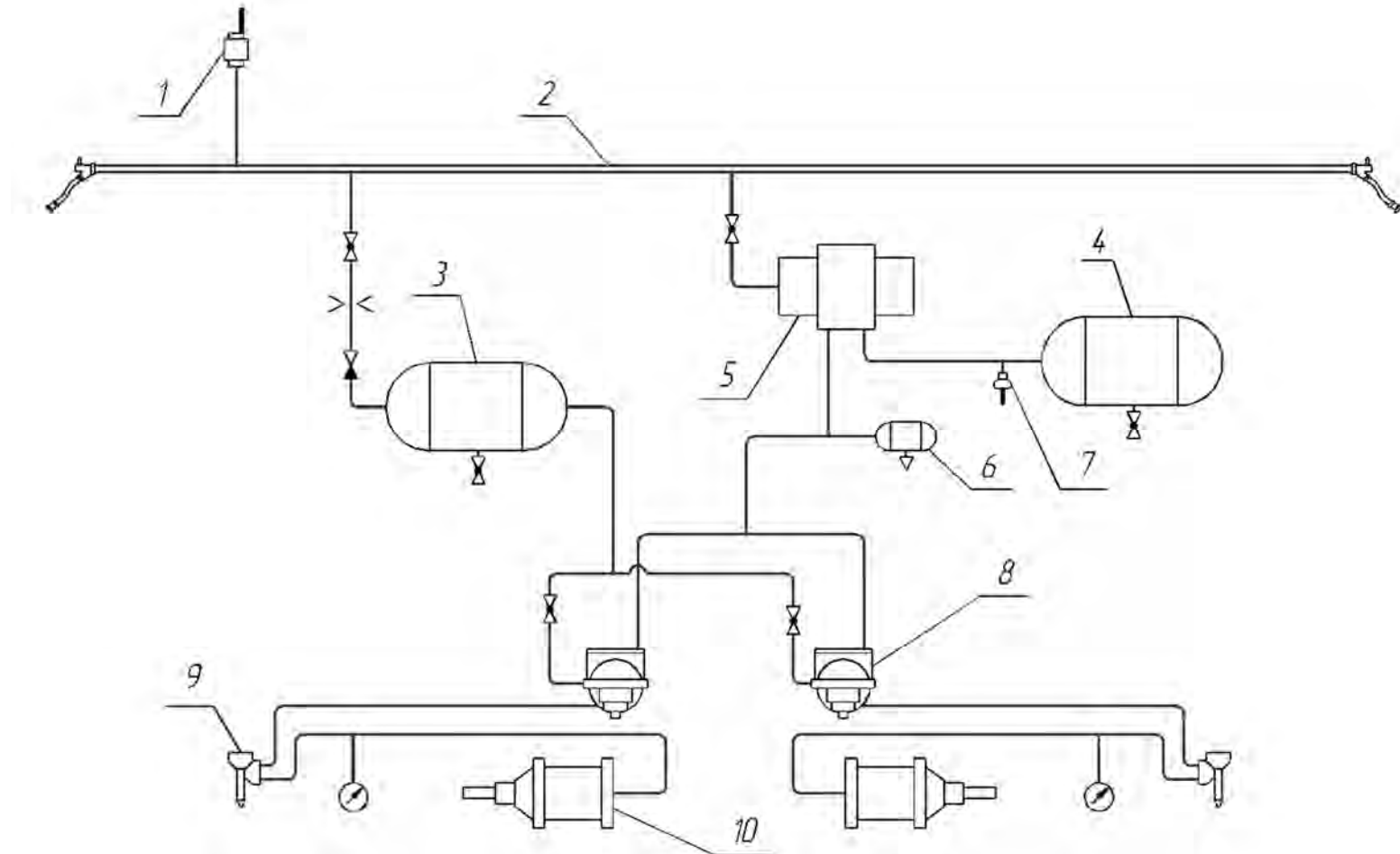


1.3.3.1 -

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

1.3.3.1 ñ $\sqrt{-}$ « $\angle$ » 4505, 4504

| ♂
№ | № | № | № |
|--------|----------|------------------------|---|
| 1 | - | - | - |
| 2 | 163 | 30496-97 | |
| 3 | 242-1-01 | 3184-075-05796760-2006 | |
| | 242-1 | 3184-075-05756760-2006 | |
| | 305 | 93184-004-05756760-00 | |
| 4 | - | - | |
| 5 | 115 | 21.05.10.088-92 | |
| 6 | 7-78 | 5240-2005 | |
| 7 | 4315-1 | 3184-007-10785350-01 | |

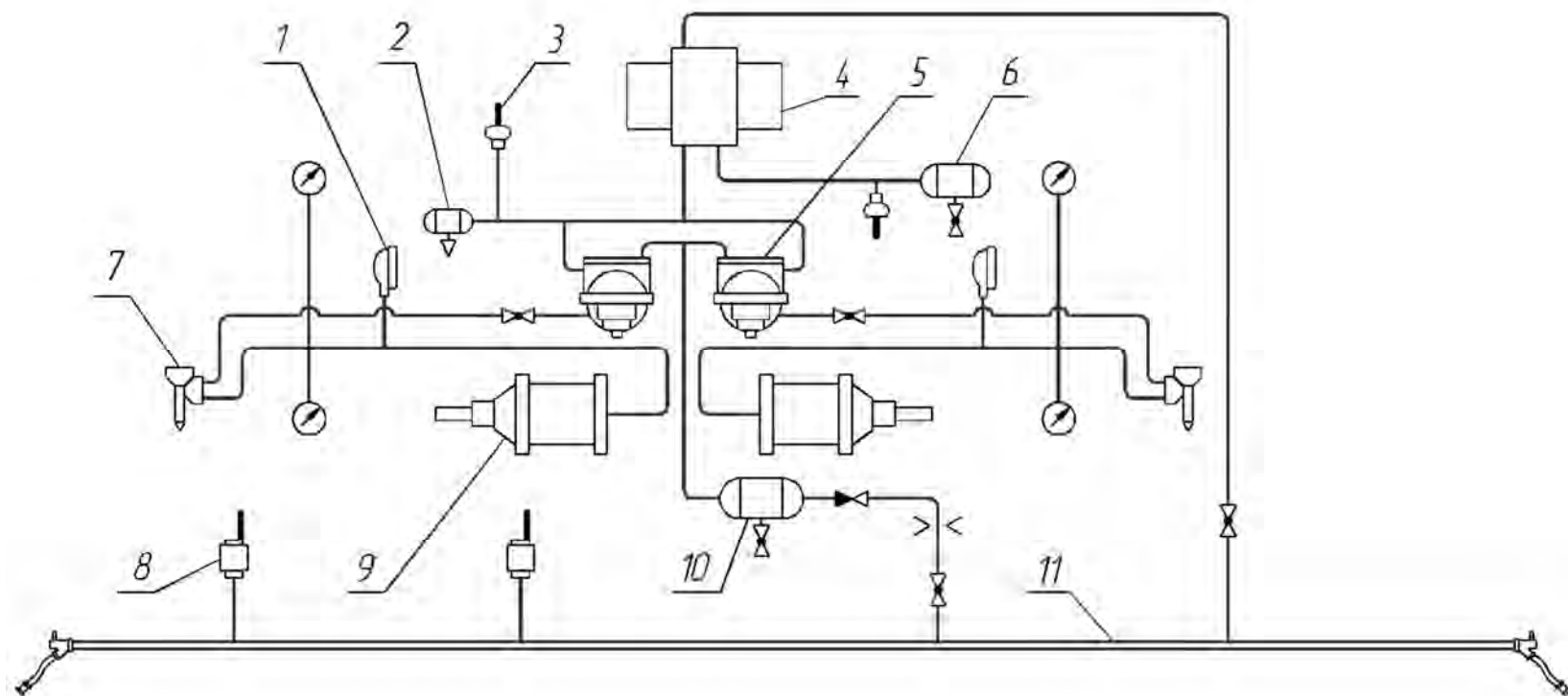


1.3.3.2 - 4505, 4504 - «L»

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

1.3.3.2 ñ $\sqrt{-}$ « $\angle \equiv$ » 4505, 4504

| ♂
7/7 | | |
|----------|--|-----------------|
| 1 | | 163 |
| 2 | | |
| 3 | | 10-170 |
| 4 | | 7-78 |
| 5 | | 242-1 242-1-01 |
| | | 305 |
| 6 | | 7-16 |
| 7 | | 4315 1-1 |
| 8 | | 404 |
| 9 | | 265 ∞ -1 |
| 10 | | 188 ∞ |

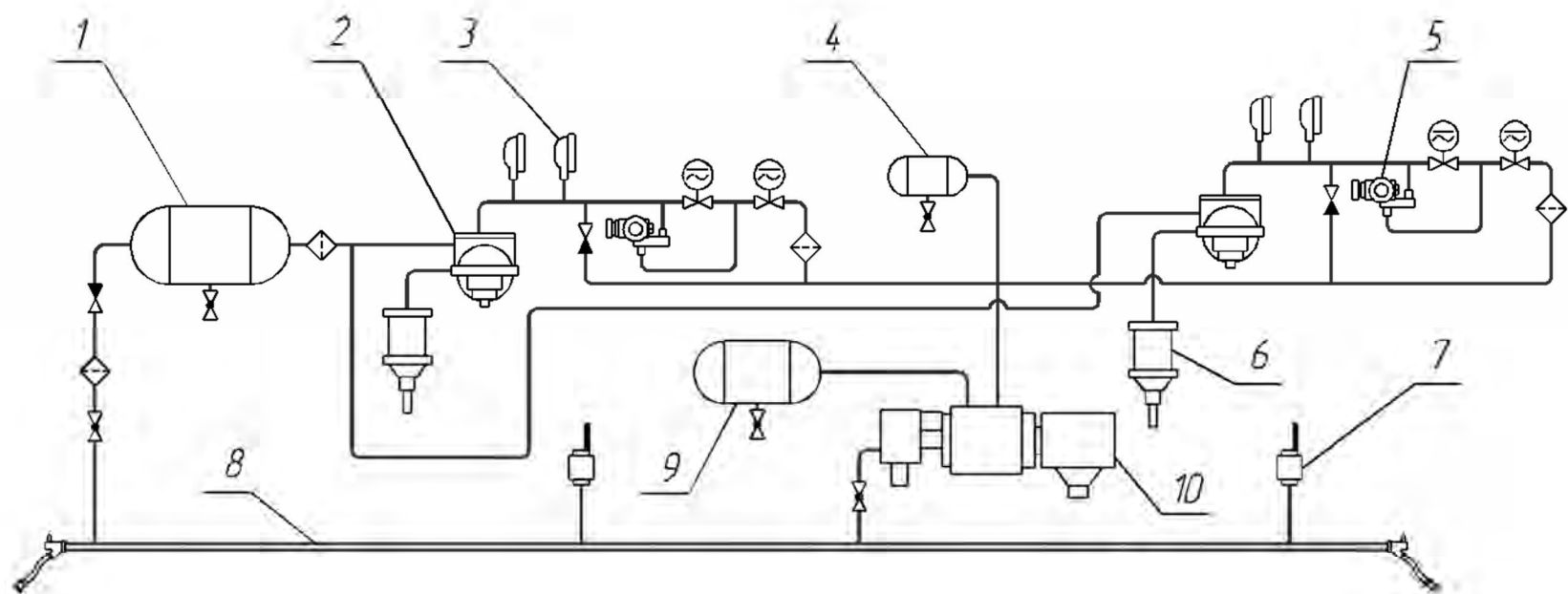


1.3.3.3 - $L_1 \equiv (61-905, 61-906)$

1 ñ ; 2 ñ ; 3 ñ ; 4 ñ ; 5 ñ ; 6 ñ ; 7 ñ ; 8 ñ ; 9 ñ ; 10 ñ ; 11 ñ

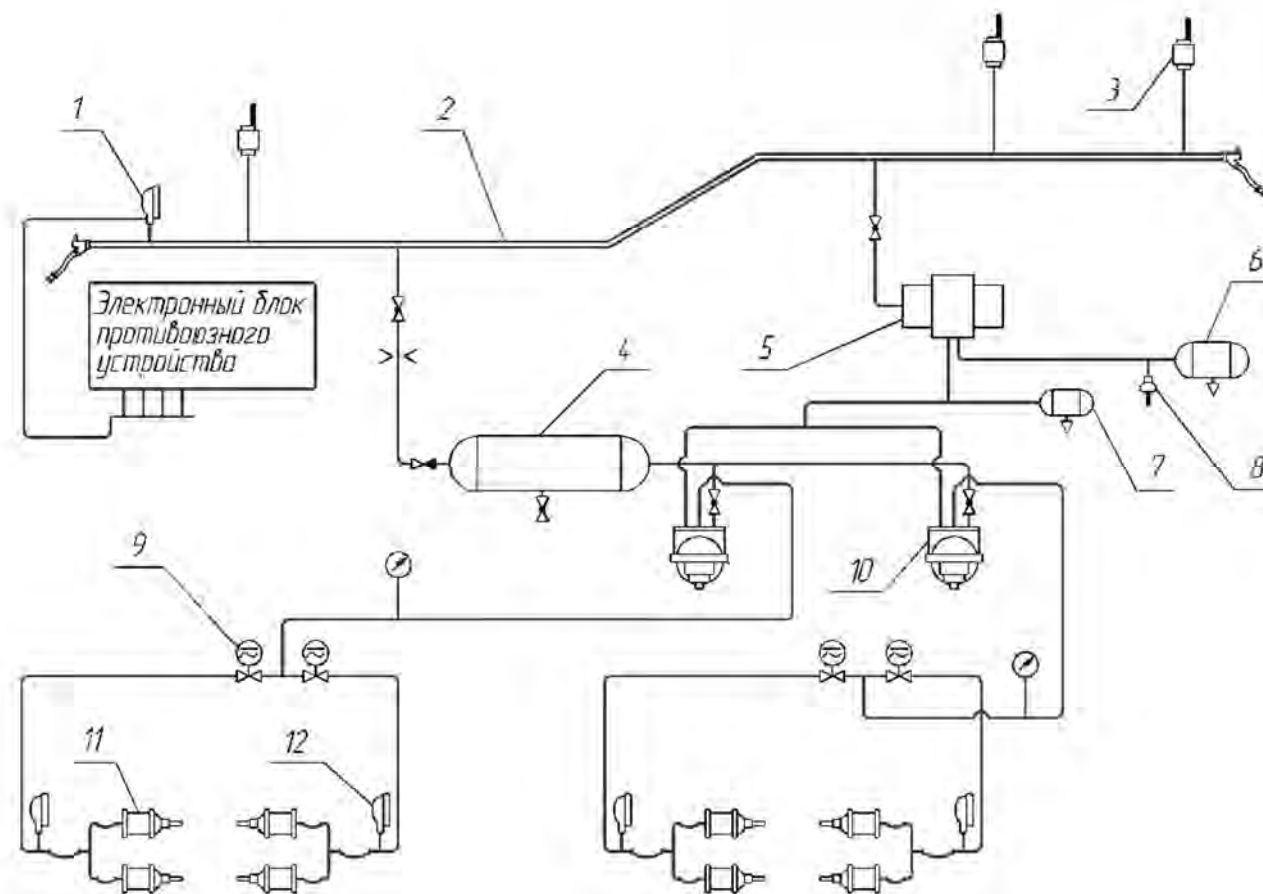
1.3.3.3 ñ $\equiv (61-905, 61-906)$

| ♂ | | |
|----|--|----------|
| 1 | | 115 |
| 2 | | 7-12 |
| 3 | | 4315 1 |
| 4 | | 242-1-01 |
| | | 305 |
| 5 | | 404 |
| 6 | | 7-55 |
| 7 | | 265∞1 |
| 8 | | 138- 1 1 |
| 9 | | 710 1885 |
| 10 | | 10-170 |
| 11 | | - |



1.3.3.4 - 61-531

1 ñ 2 ñ 3 ñ 4 ñ 5 ñ 6 ñ 7 ñ 8 ñ 9 ñ 10 ñ

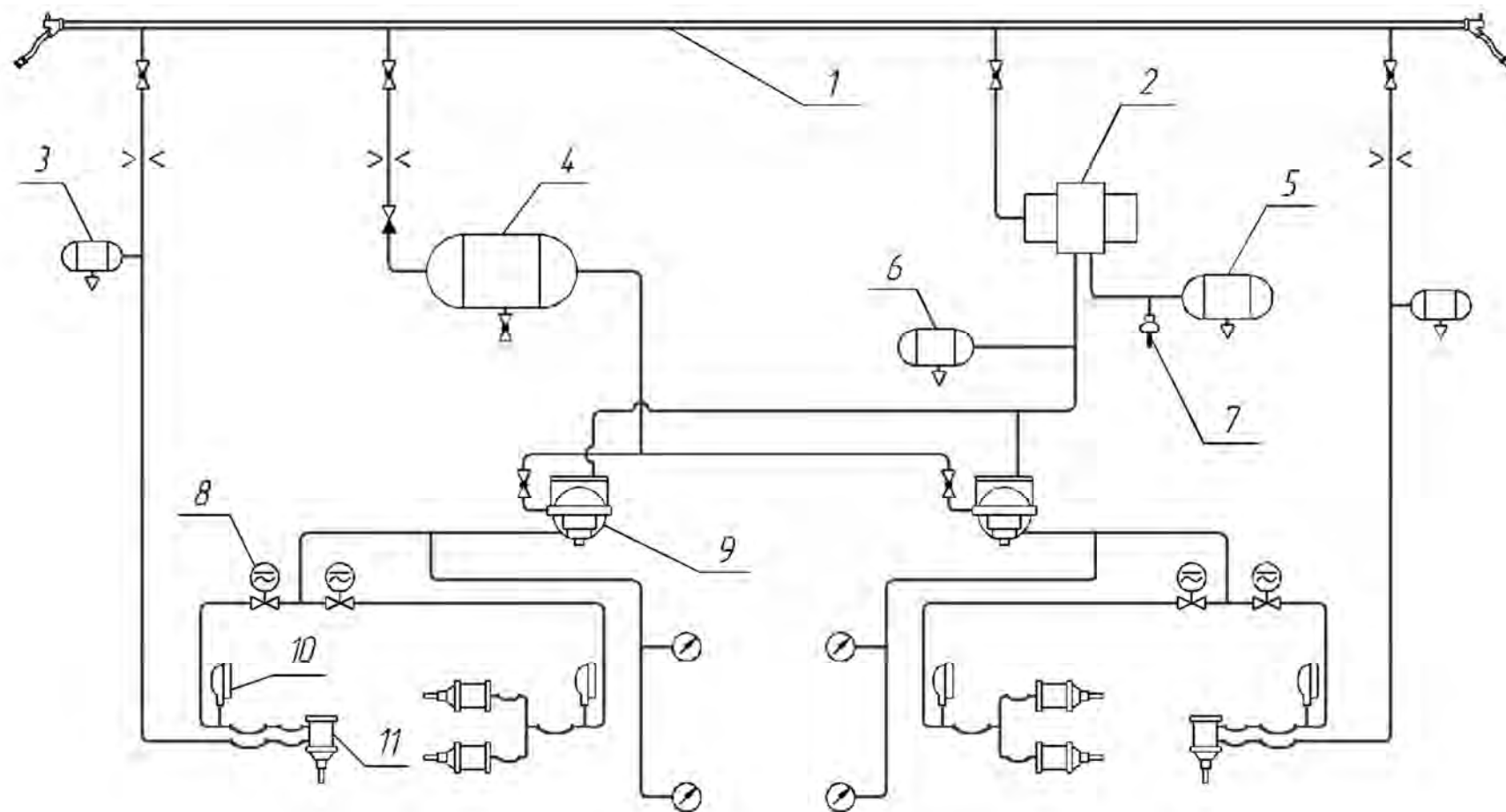


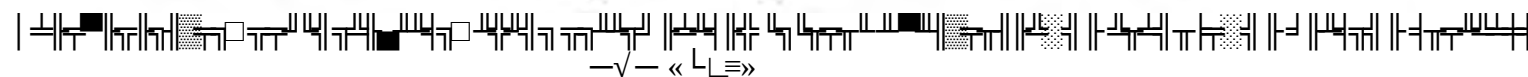
1.3.3.5 - Δ NORR-BREMSE $\perp$

1 ñ 2 ñ 3 ñ 4 ñ 5 ñ 6 ñ 7 ñ 8 ñ 9 ñ 10 ñ 11 ñ 12 ñ

1.3.3.5 ñ
 ΔNORR-BREMSE

| σ | | |
|----|--|----------------|
| 1 | | - |
| 2 | | - |
| 3 | | 163 |
| 4 | | 10-170 |
| 5 | | 242-1 242-1-01 |
| | | 305 |
| 6 | | 7-78 |
| 7 | | 7-16 |
| 8 | | 4315 1 |
| 9 | | - |
| 10 | | 404 |
| 11 | | - |
| 12 | | 115 |

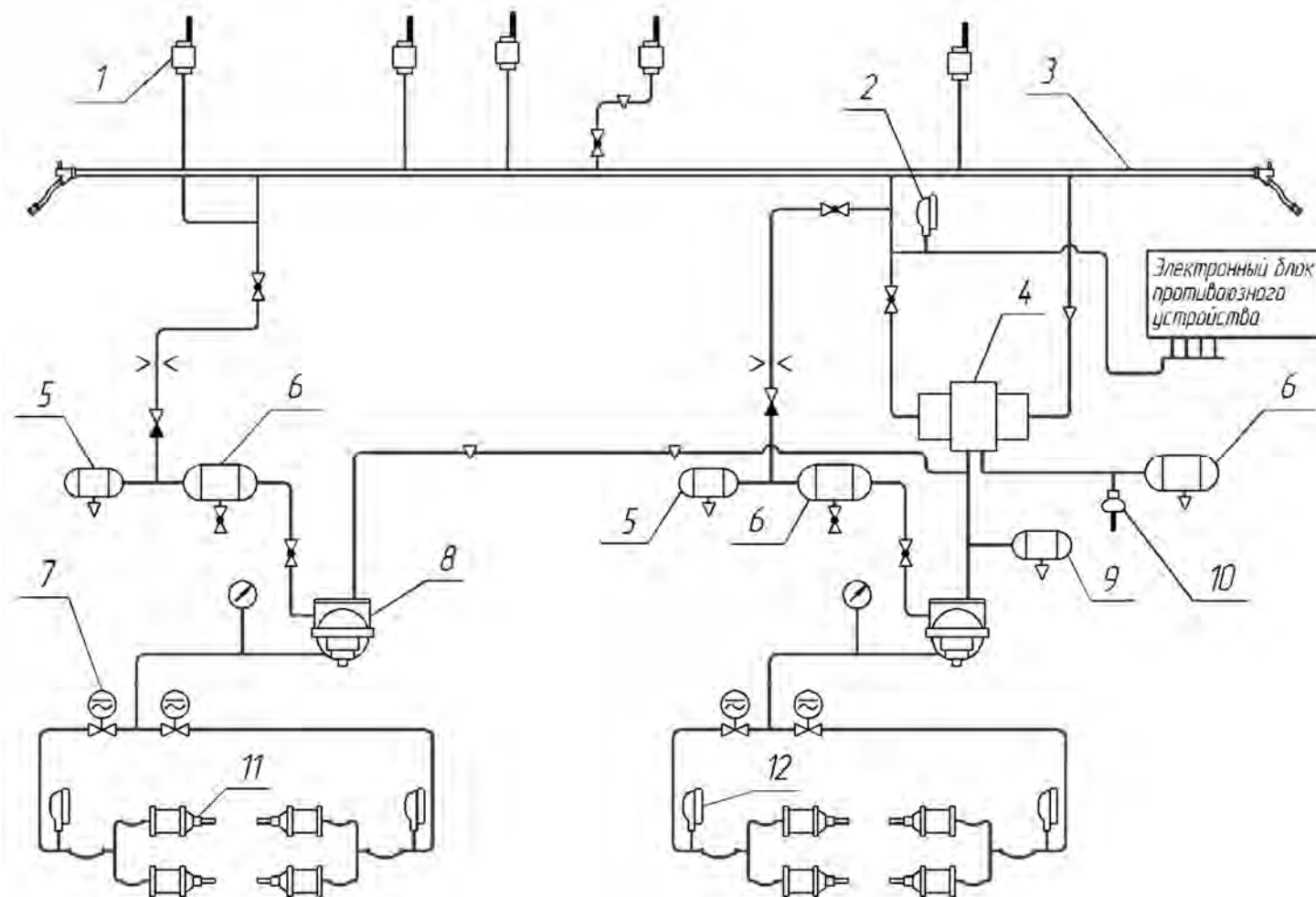


1.3.3.6 -  -√- « L L »

1 ñ  2 ñ  3 ñ ; 4 ñ  5 ñ 
6 ñ  7 ñ  8 ñ  9 ñ  10 ñ  11 ñ 

1.3.3.7 ñ

| ♂ | | |
|----|---|--------|
| 1 | | ♂ 163 |
| 2 | | - |
| 3 | | ♂ 292 |
| | | ♂ 305 |
| 4 | | - |
| 5 | | - |
| 6 | | 100 |
| 7 | | 55 |
| 8 | | 78 |
| 9 | | 170 |
| 10 | | ♂ 115 |
| 11 | « | 12 |
| 12 | | ♂ 4310 |
| 13 | | ♂ 404 |
| 14 | | ♂ 670 |



1.3.3.8. Δ NORR-BREMSE $\perp$

1 ñ 2 ñ 3 ñ 4 ñ 5 ñ 6 ñ 7 ñ 8 ñ 9 ñ 10 ñ 11 ñ 12 ñ

1.3.3.8 - Δ NORR-BREMSE

| σ | | |
|----------|--|-----------------|
| 1 | | 163 |
| 2 | | - |
| 3 | | - |
| 4 | | 242-1; 242-1-01 |
| | | 305 |
| 5 | | 7-16 |
| 6 | | 7-78 |
| 7 | | GV-12-5 |
| 8 | | 404 |
| 9 | | 7-12 |
| 10 | | 4315 1 |
| 11 | | - |
| 12 | | 115 |

1.4.4 -

| | |
|-----|-------|
| | |
| 200 | 0,15 |
| 200 | 0,117 |
| 300 | 0,117 |
| | 0,30 |

1.4.5 ñ

| | |
|--|-----|
| | |
| | 30q |
| | 30q |
| | 30q |
| | 15q |

1.4.6 -

| | |
|---|---|
| | |
| - | - |
| - | - |
| - | - |
| - | - |

1.4.7 -

| ♂
♀ | |
|--------|---------|
| 1. | L 10393 |
| 2. | |

| ♂
ד/ר | ד/ר |
|----------|-----|
| 3. | ד/ר |
| 4. | ד/ר |
| 5. | ד/ר |
| 6. | ד/ר |
| 7. | ד/ר |
| 8. | ד/ר |
| 9. | ד/ר |
| 10. | ד/ר |
| 11. | ד/ר |
| 12. | ד/ר |

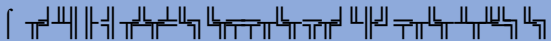
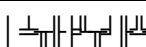
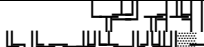
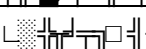
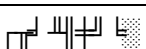
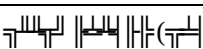
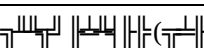
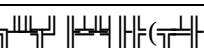
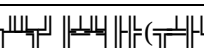
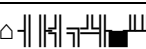
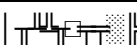
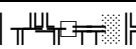
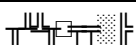
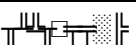
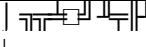
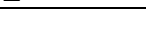
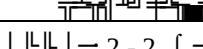
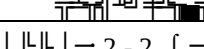
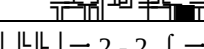
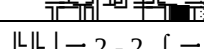
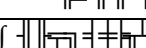
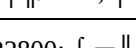
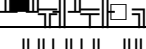
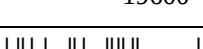
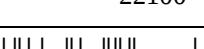
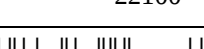
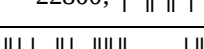
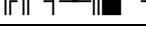
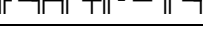
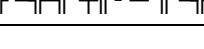
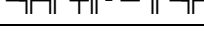
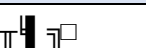
1.4.8

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32

| החומר והמדידה | המדידות והמדידות הממוצעות | | | | |
|----------------------------|---|-------------|-------------|-------------|-------------|
| | 2 L | 4 | 4 Δ | 4 Δ | 4 F |
| המדידה 60 ± 0,65 | 0,65 | 0,62 | 0,62 | 0,62 | 0,62 |
| המדידה 0,6 | 0,6 | 0,65 | 0,65 | 0,65 | 0,65 |
| המדידה 5076±50 | 5076±50 | - | - | - | - |
| המדידות והמדידות הממוצעות: | | | | | |
| המדידה 1070 | 1070 | 1060 | 1060 | 1060 | 1060 |
| המדידה 1150 | 1150 | 1120 | 1120 | 1120 | 1120 |
| המדידות והמדידות הממוצעות: | | | | | |
| המדידה 1050 | 1050 | 1050 | 1051 | 1050 | 1050 |
| המדידה 950 | 950 | 957 | 958 | 957 | 957 |
| המדידה 3,41 | 3,41 | 3,41 | 4,41 | 3,41 | 3,41 |
| המדידה 0,45 (4,5) | 0,45 (4,5) | 0,45 (4,5) | 0,45 (4,5) | 0,45 (4,5) | 0,45 (4,5) |
| המדידה 395 | 395 | 395 | 395 | 395 | 395 |
| המדידה 340 | 340 | 60 | 60 | 340 | 340 |
| המדידה - | - | √ Δ L-0,65 | √ Δ L-0,65 | Δ L-0,6- F | - |
| המדידה 0,29 ± 0,29 | 0,29 ± 0,29 | 0,29 ± 0,29 | 0,29 ± 0,29 | 0,29 ± 0,29 | 0,29 ± 0,29 |
| המדידה 0,63 ± 0,82 | 0,63 ± 0,82 | 0,63 ± 0,82 | 0,63 ± 0,83 | 0,63 ± 0,82 | 0,63 ± 0,82 |
| המדידה 0,36 | 0,36 | 0,36 | 0,37 | 0,36 | 0,36 |
| המדידה 28186-89 | המדידות והמדידות הממוצעות: 28186-89, 187 ± 241, 1,0 % ± 1,5 %, 21.30.444.00 ± ∞ | | | | |

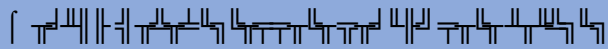
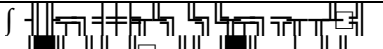
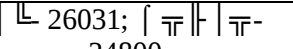
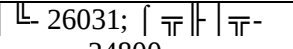
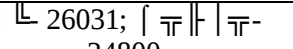
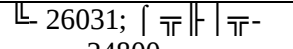
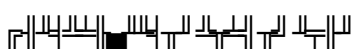
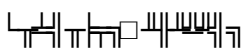
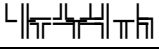
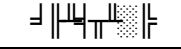
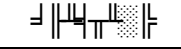
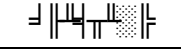
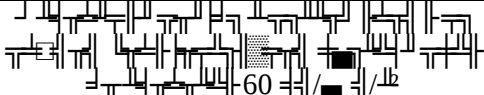
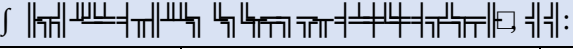
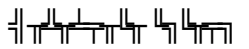
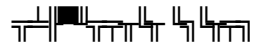
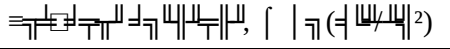
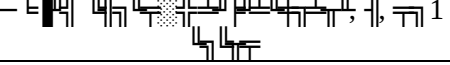
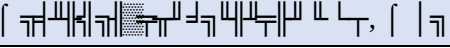
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| <div> <div></div> <div></div> </div> | 180 | 180 | 180 | 180 | 180 |
| <div> <div></div> <div></div> </div> | 210 | 210 | 210 | 210 | 210 |
| <div> <div></div> <div></div> </div> | 9 | 9 | 9 | 9 | 9 |
| <div> <div></div> <div></div> </div> | 9 | 8,56 | 9 | 8,56 | 8,56 |
| <div> <div></div> <div></div> </div> | 10 | 10 | 13 | 13 | 13 |
| <div> <div></div> <div></div> </div> | <div> <div></div> <div></div> </div> | <div> <div></div> <div></div> </div> | <div> <div></div> <div></div> </div> | <div> <div></div> <div></div> </div> | <div> <div></div> <div></div> </div> |

1.4.9 - 

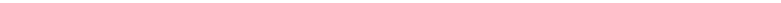
|  |  | | | |
|---|---|---|---|---|
| |  |  |  |  |
|  |  |  |  | $-\sqrt{-} \int \equiv$ |
|  | 1999 | 1999 | 2011 | 2015 |
|  | 130 | 130 | 120 | 120 |
|  | 9,6 | | | |
|  |  |  |  |  |
|  |  | | | |
|  |  |  |  |  |
|  | 2200 - 4000 | 3000 | 3000 | 3000 |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  | 19600 | 22100 | 22100 |  |
|  |  |  |  |  |
|  |  |  |  |  |
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|  | | | | |
|  | 4800 | 7600 | 9000 | 5000 |

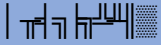
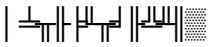
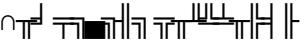
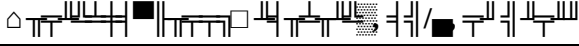
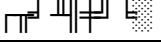
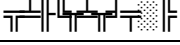
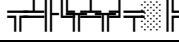
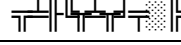
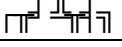
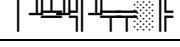
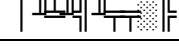
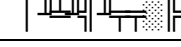
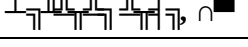
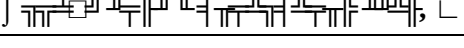
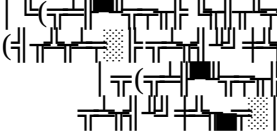
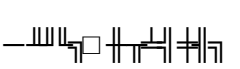
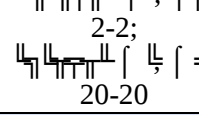
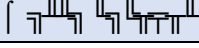
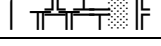
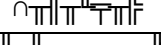
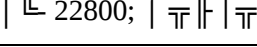
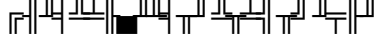
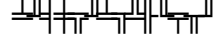
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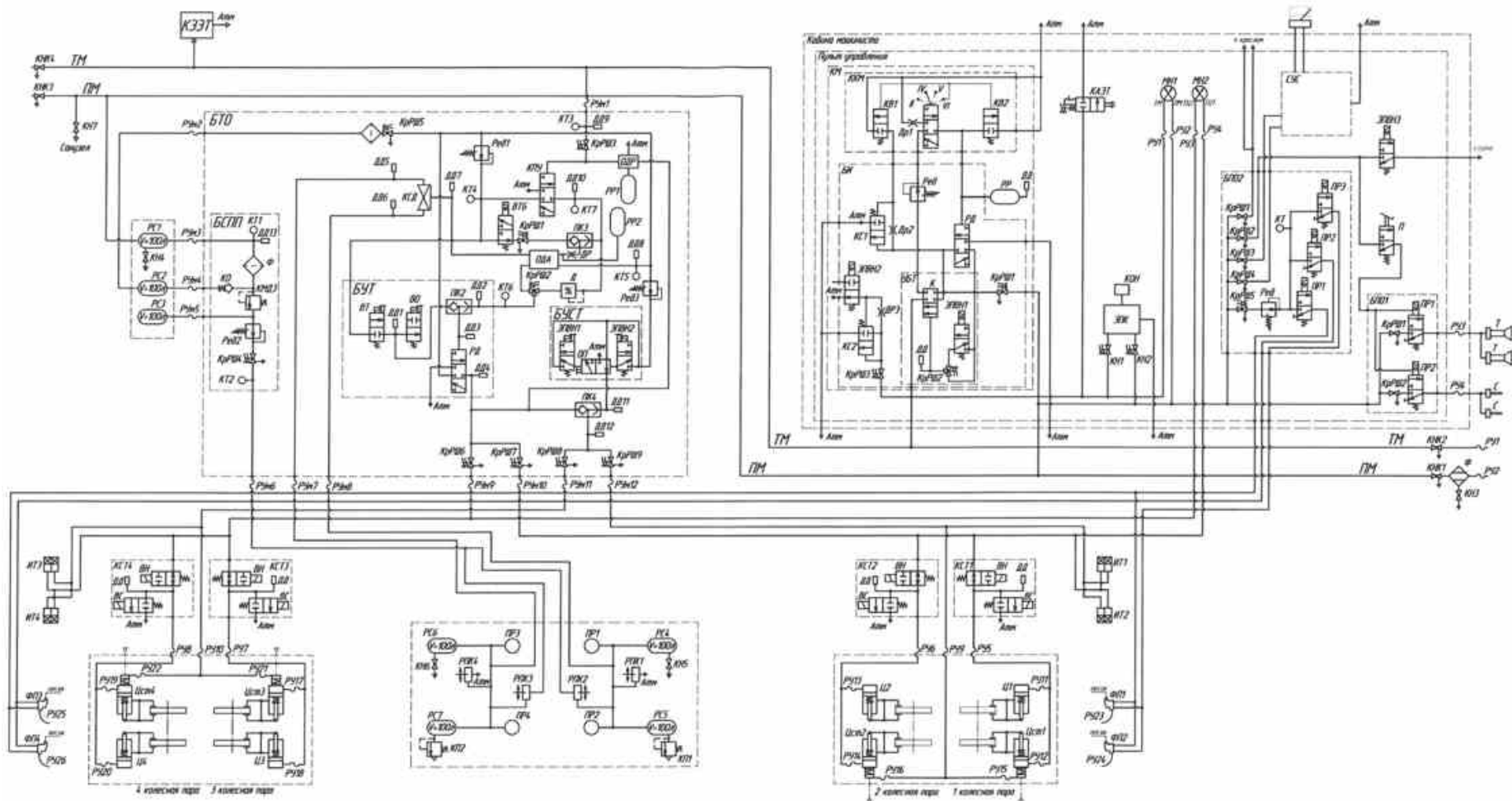
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|  | 920 | 920 | 920 | 920 |
|  | 840 | 840 | 840 | 840 |
|  | 4,85 | 4,85 | 4,85 | 4,85 |
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|  | | 100 | 100 | 100 |
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| <div> <div></div> <div></div> </div> | 150 | 150 | 150 | 150 |
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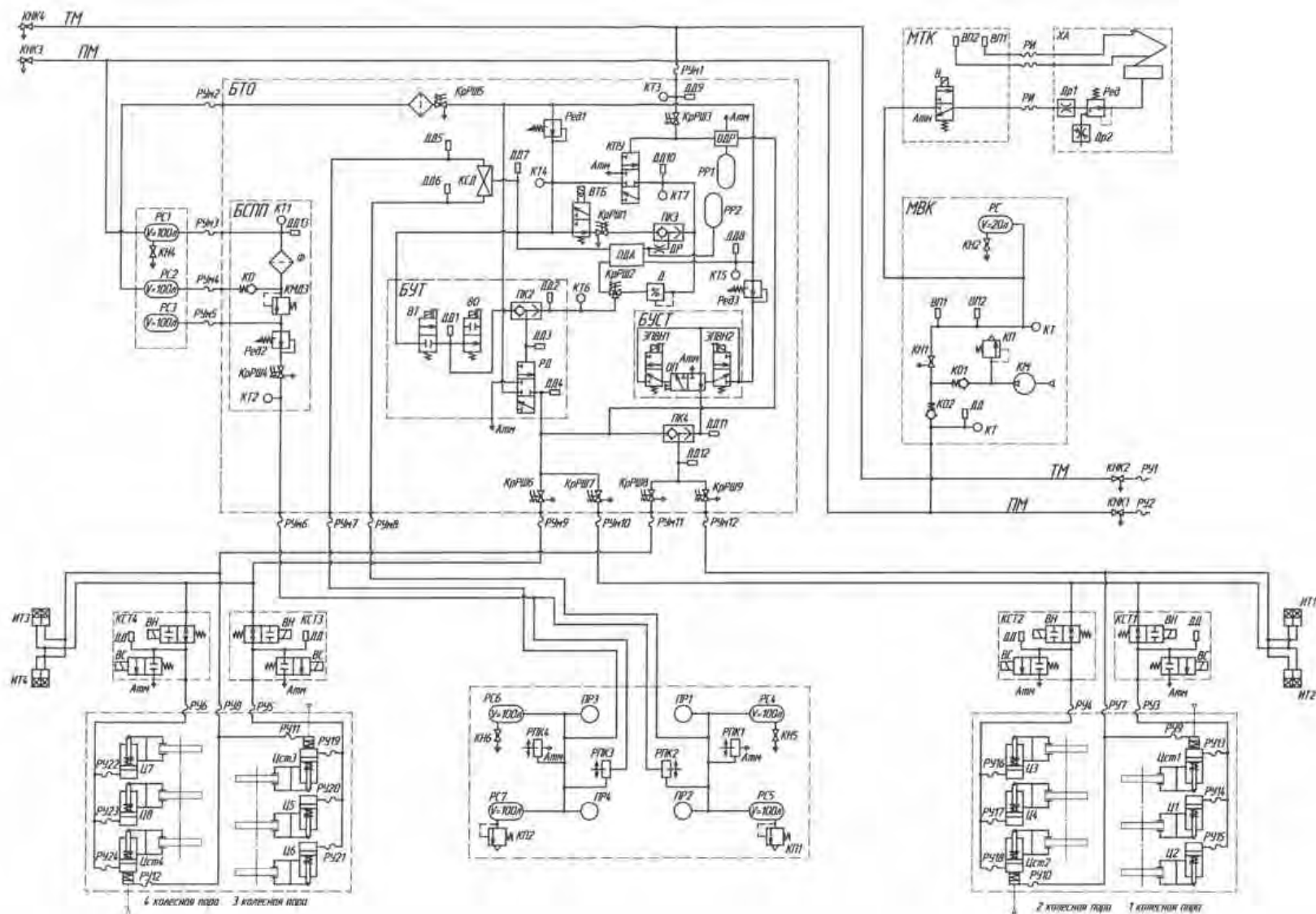
1.4.11 - 

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|  | 66800 | 67000 | 70000 |
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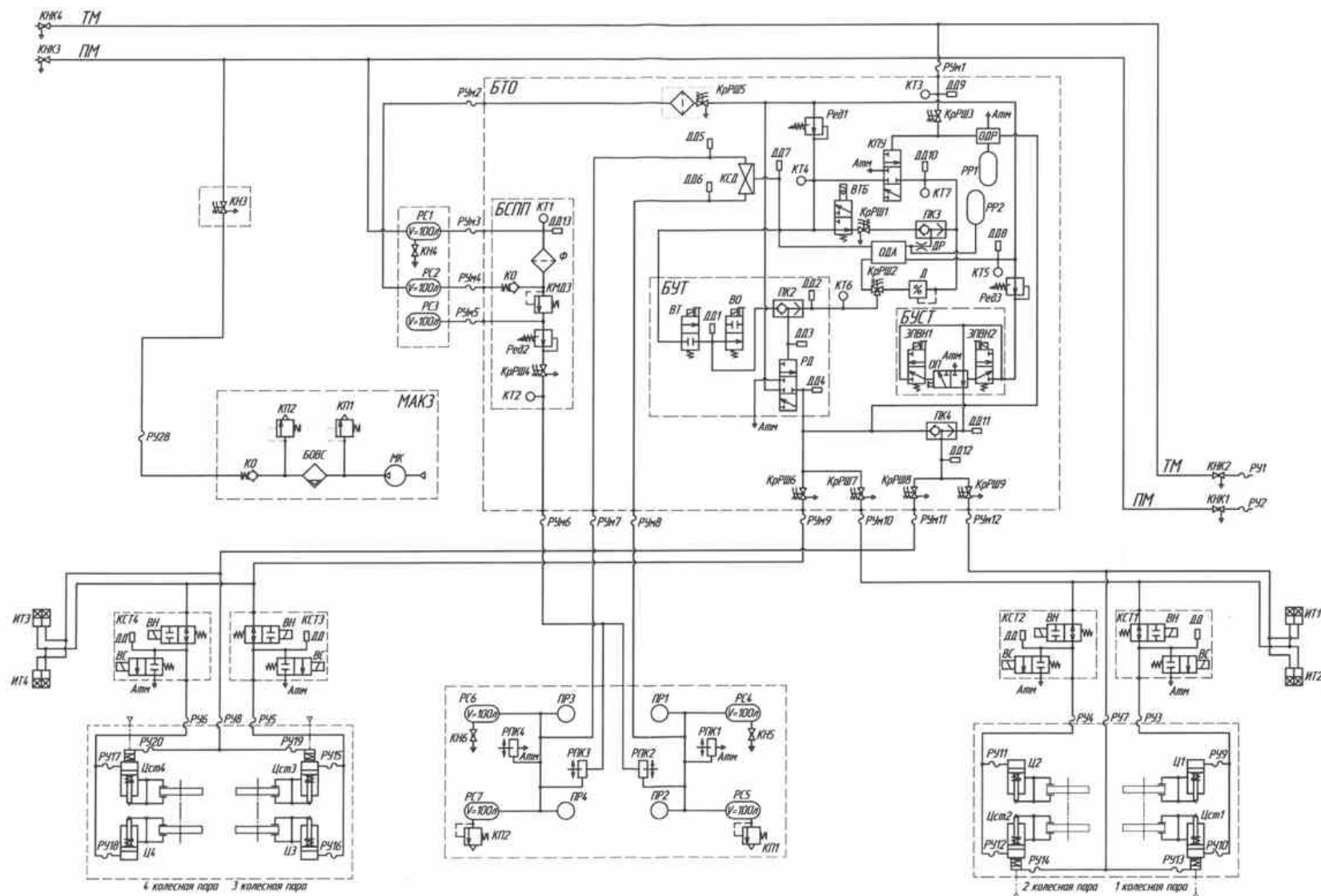
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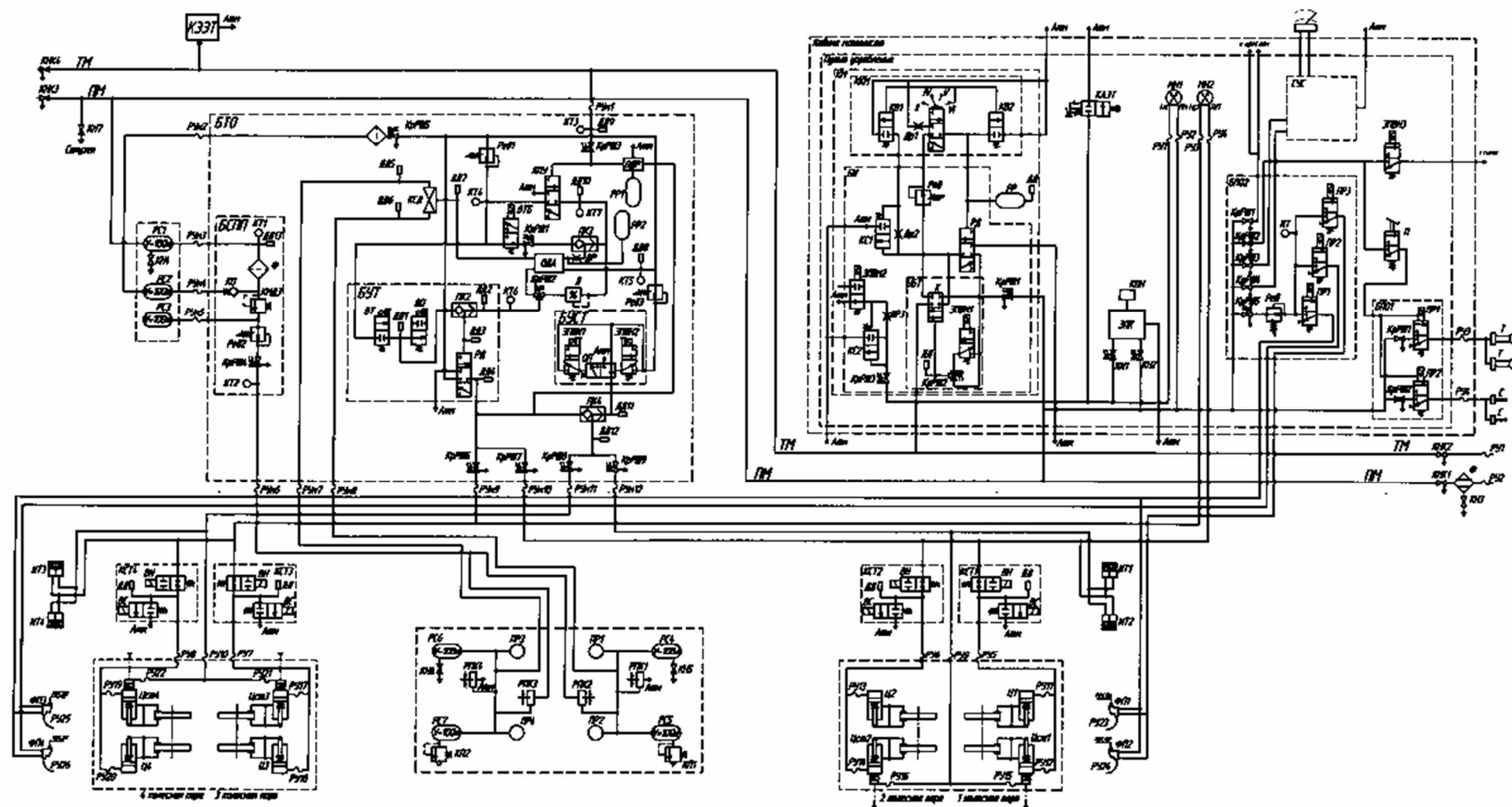
1.4.1 - Схематическое изображение системы управления котлом



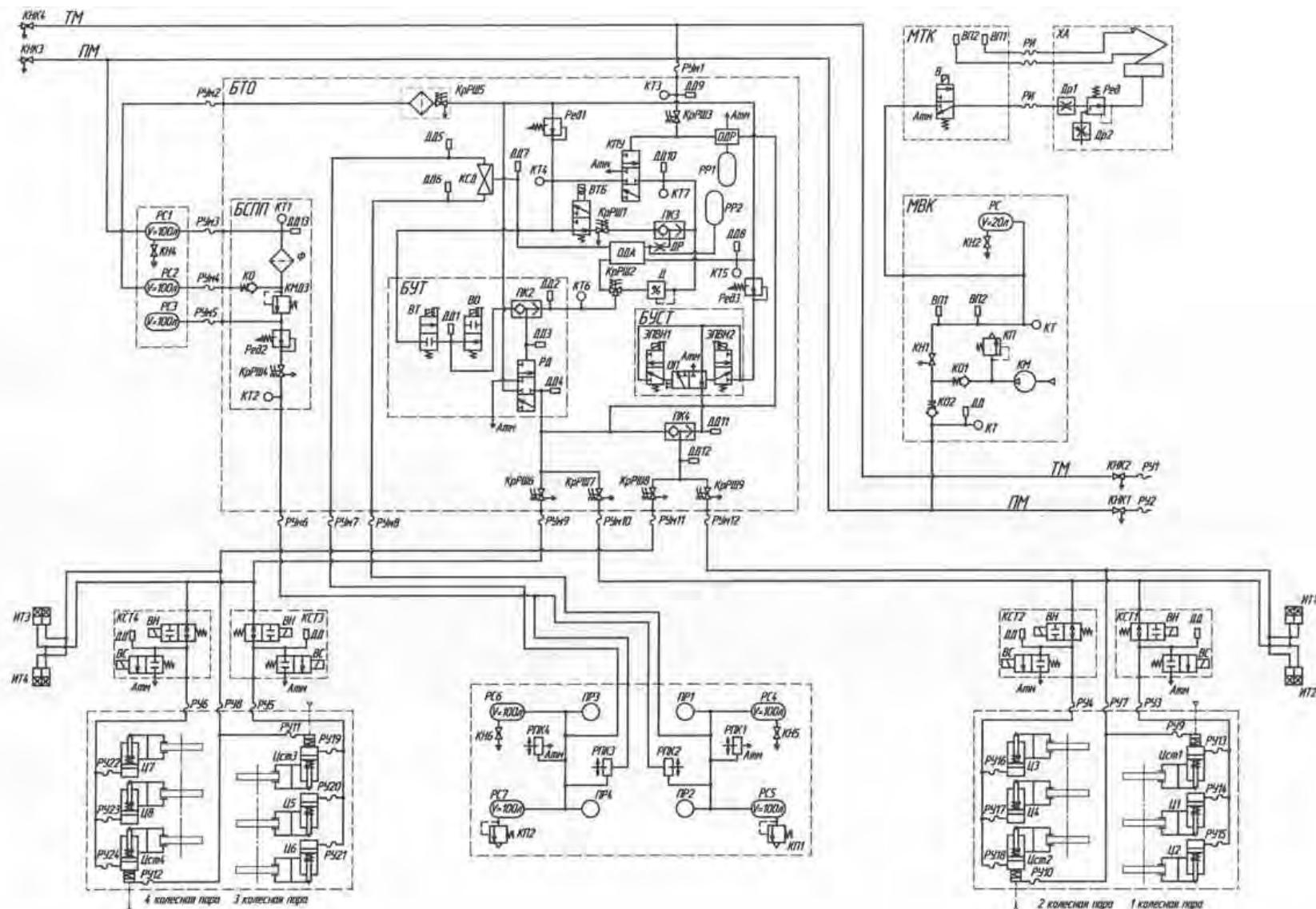
1.4.2 - 20. 2,4,6



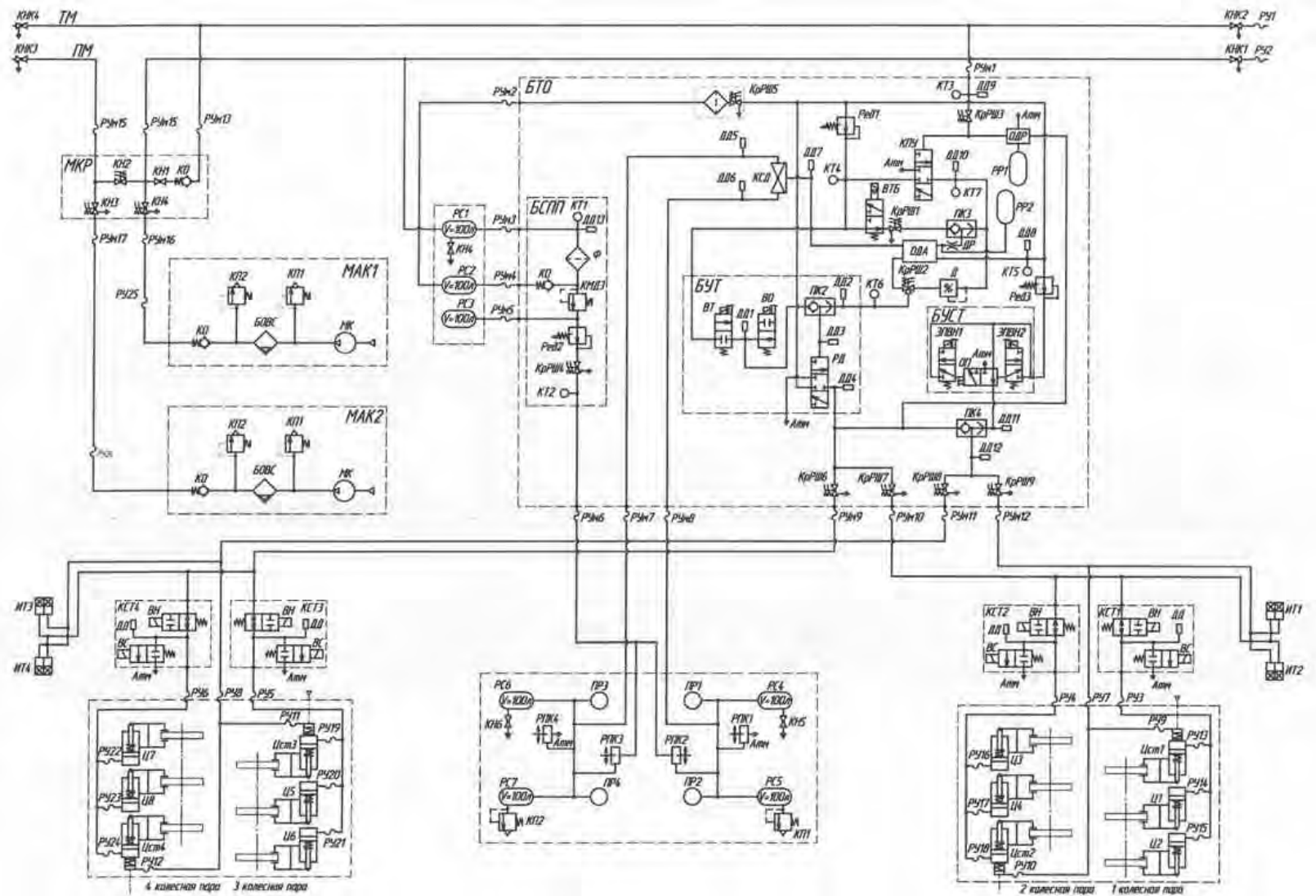
1.4.4 - 20. 4 7



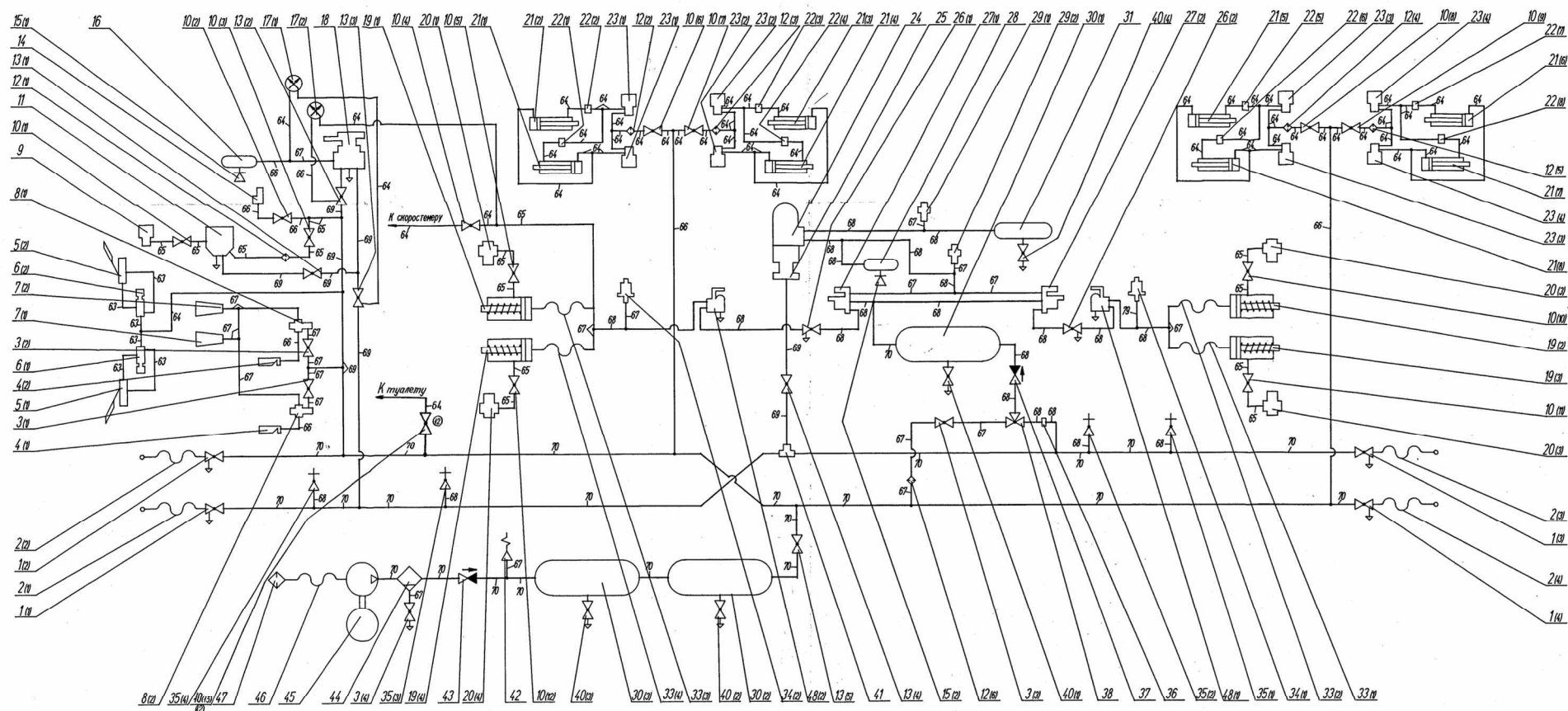
1.4.5 - 1 1.5



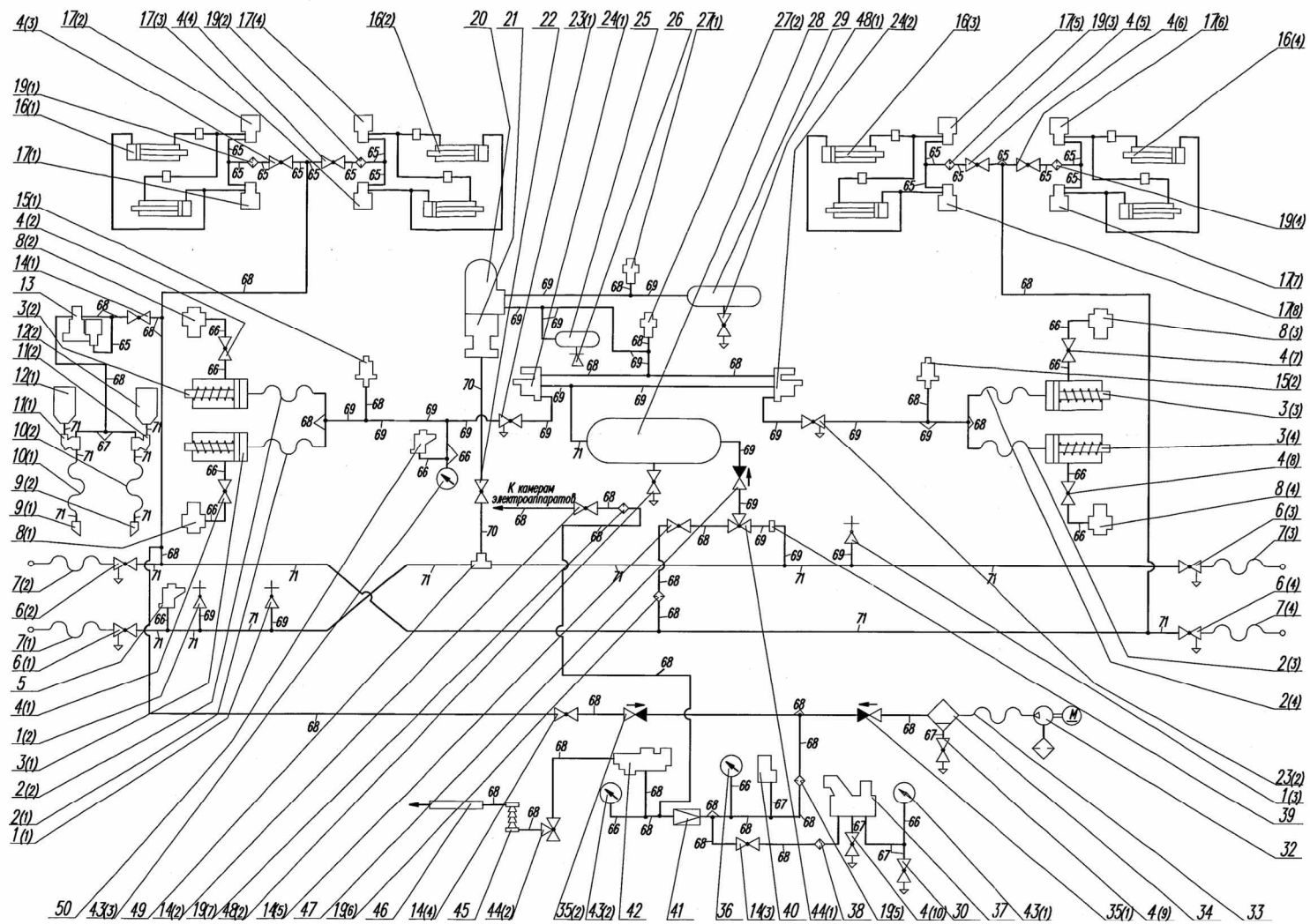
1.4.6 - 1 | 2,4



1.4.7 - 1 3

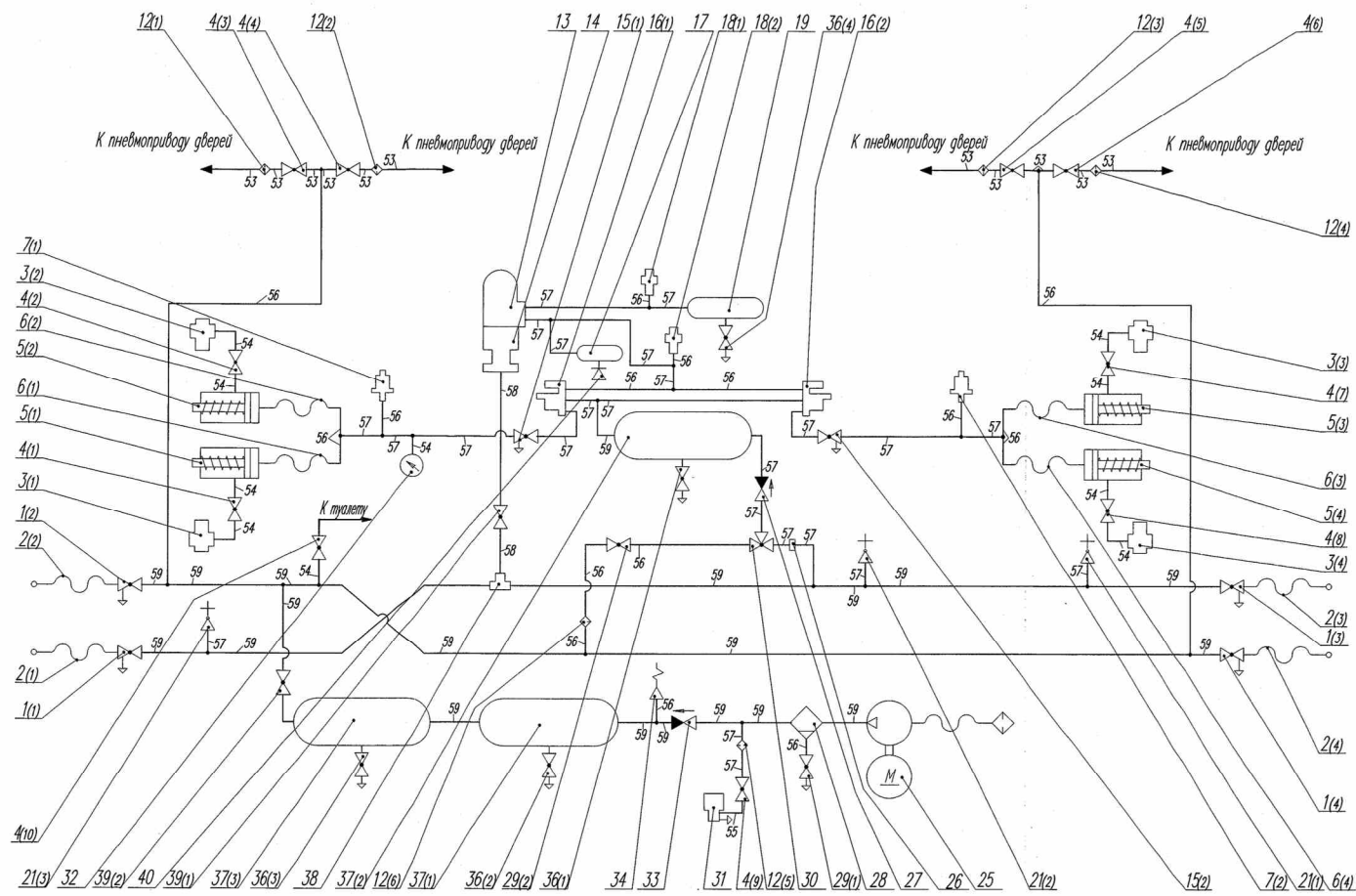


1.4.9 - [Symbolic representation of a hydraulic or pneumatic circuit] 4 [Symbolic representation of a hydraulic or pneumatic circuit] 4.

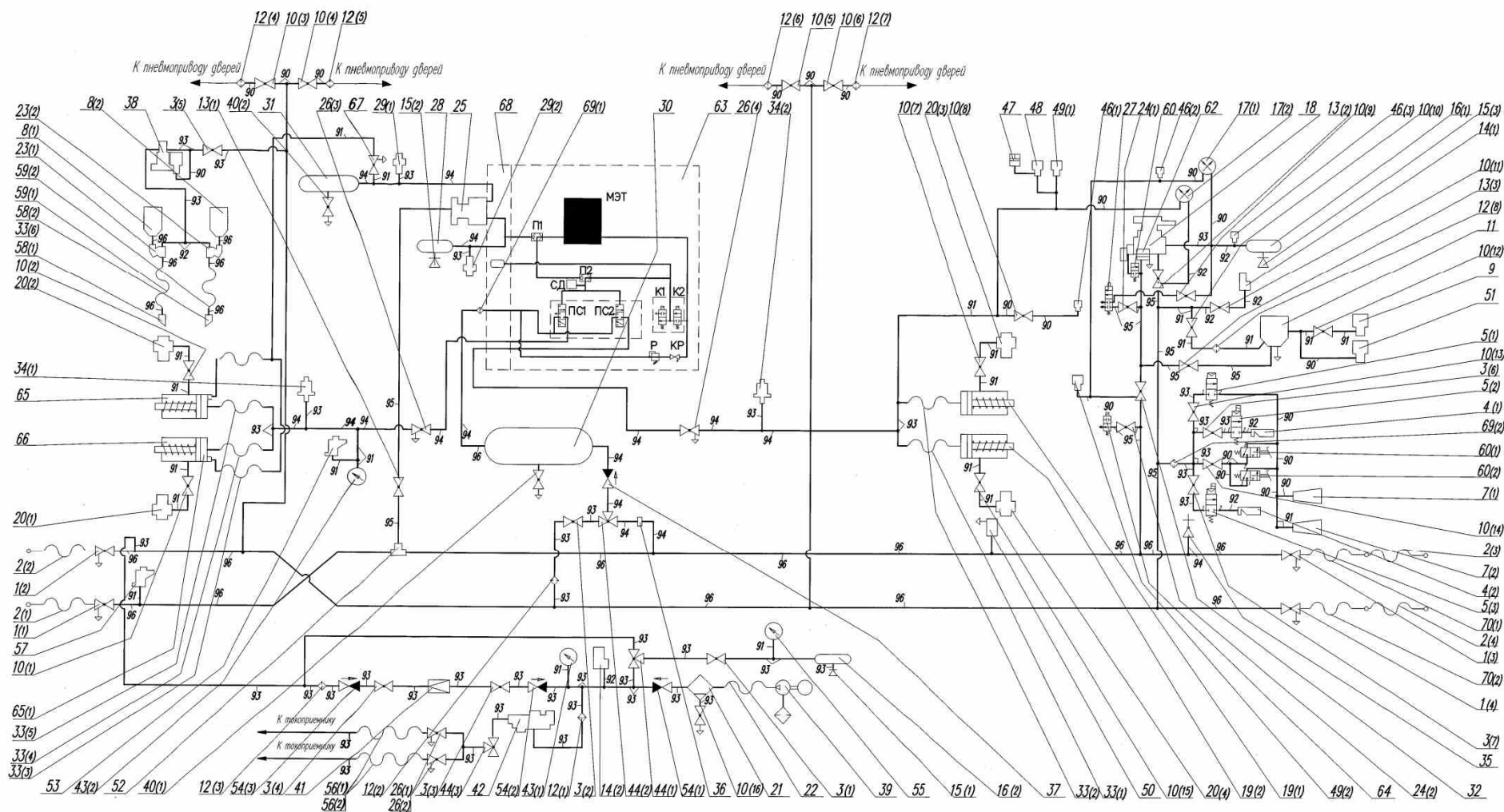


1.4.11 - 9, 9 |

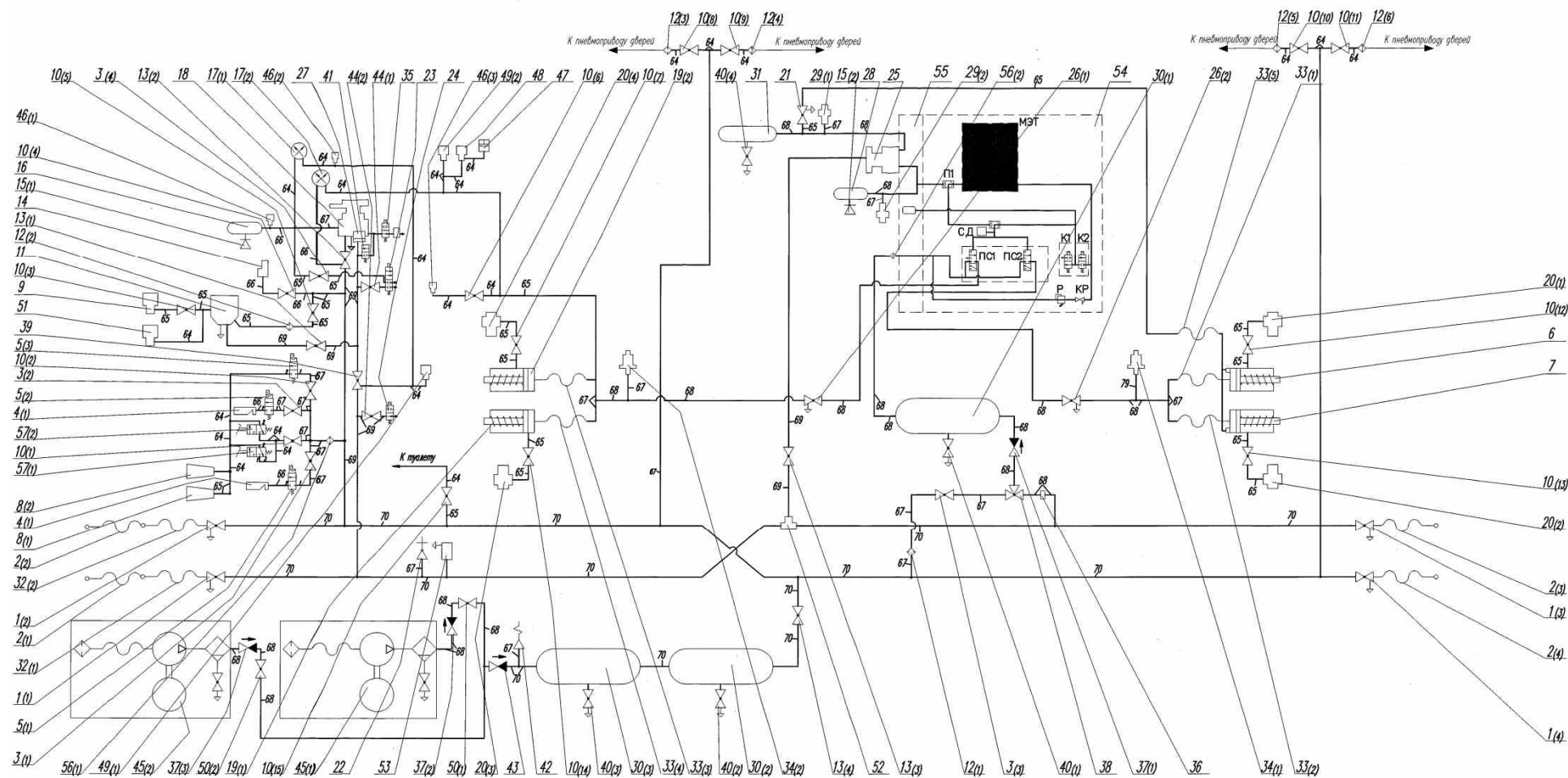
1.4.12 - |          9, 9 | .



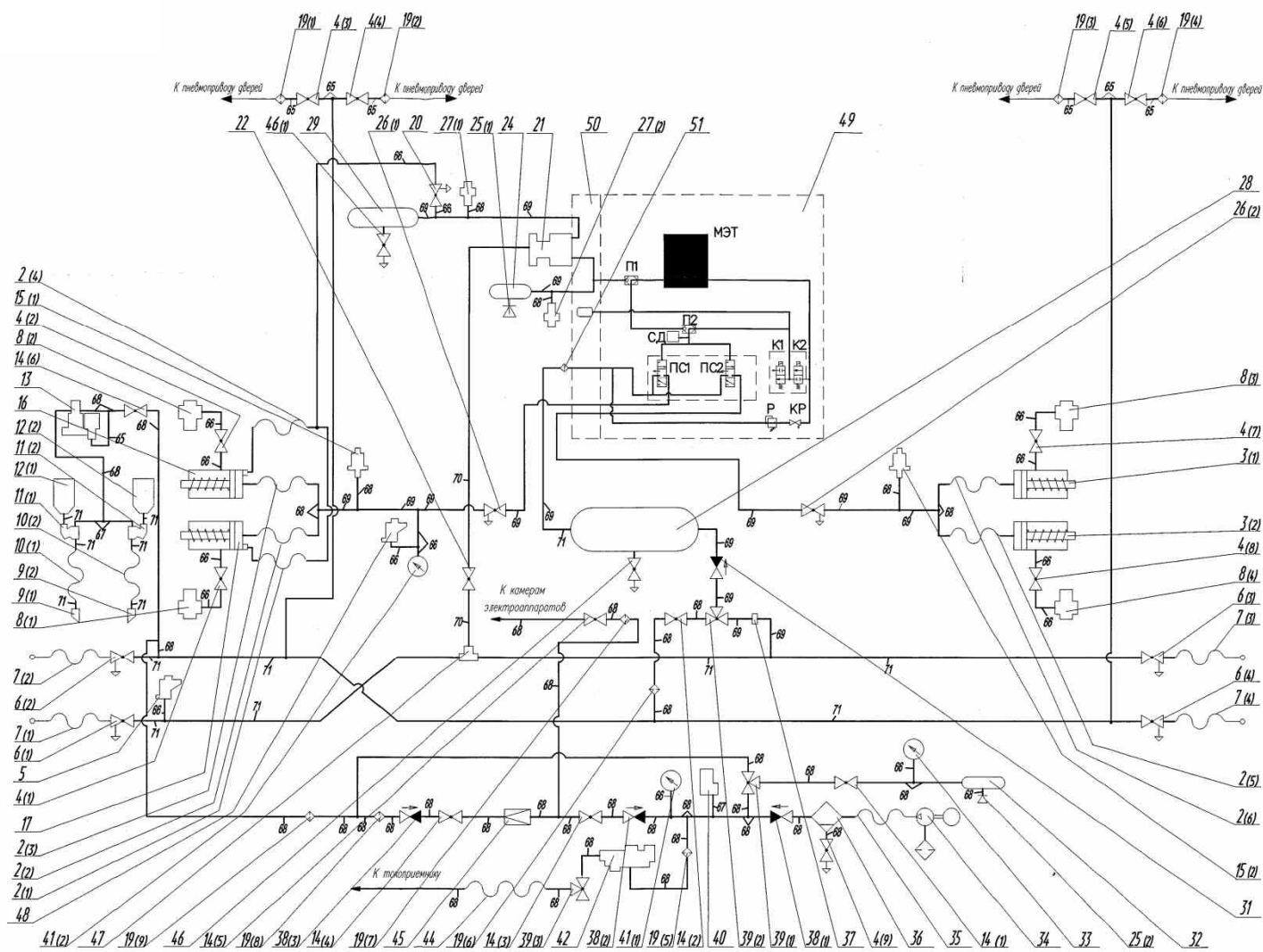
1.4.13 - [Symbolic representation of the diagram's components and connections]



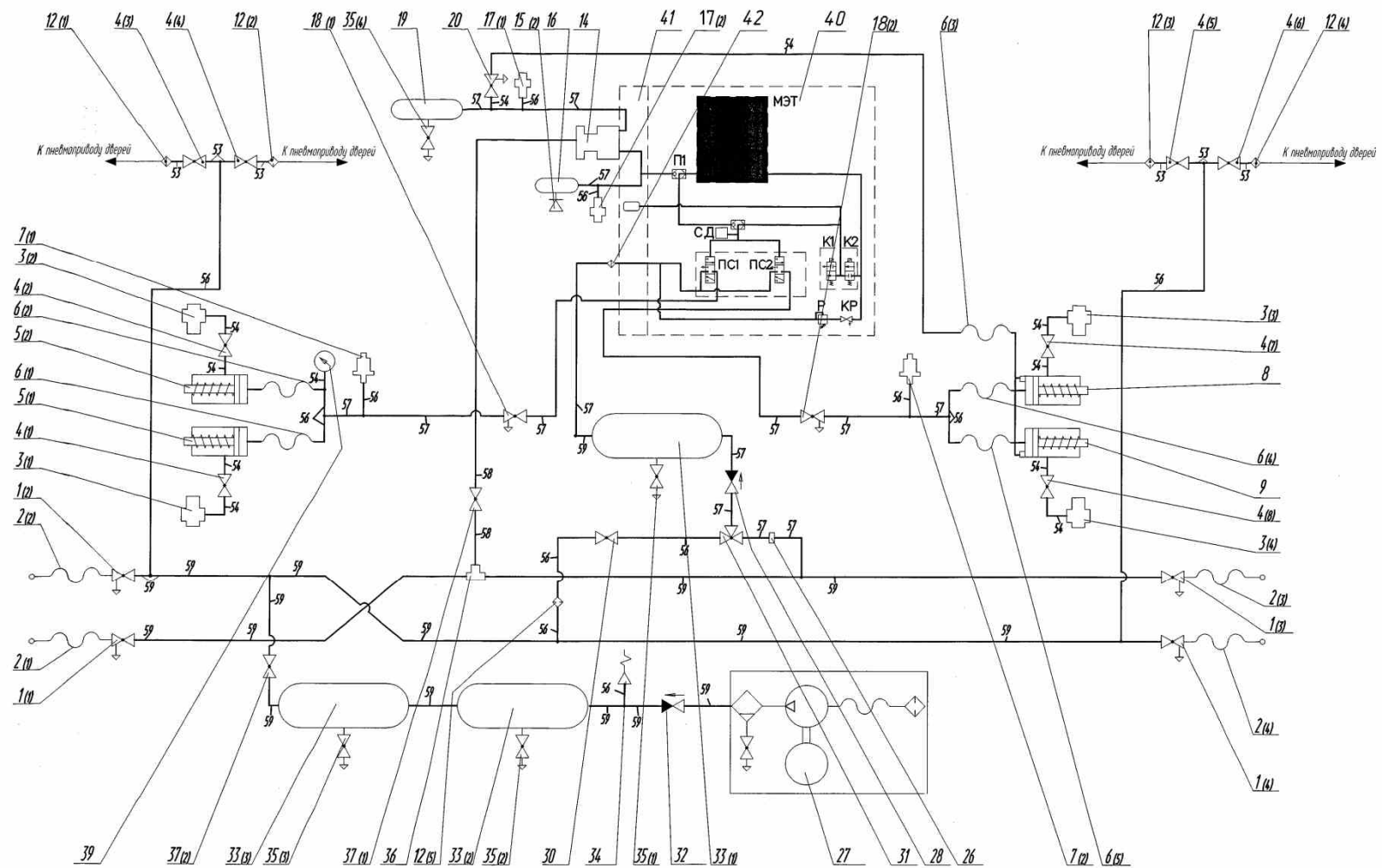
1.4.14 -



1.4.15 - 3f .



1.4.16 - [Symbolic representation of the diagram's components and connections]



1.4.17 - | | 3) .

2.1

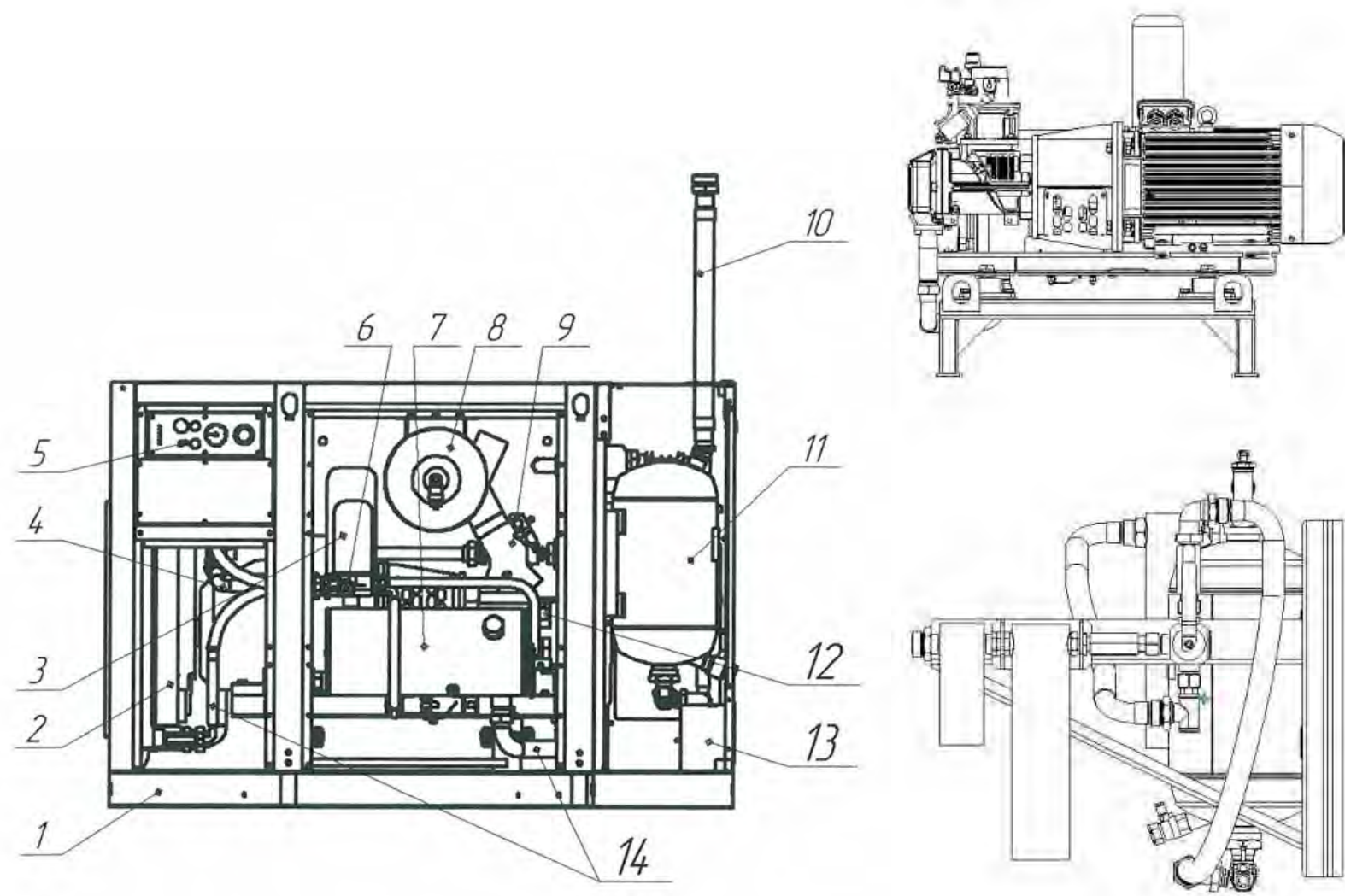
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2.2.1.2 ስርዓተ ስራ ለጥንቃቄ

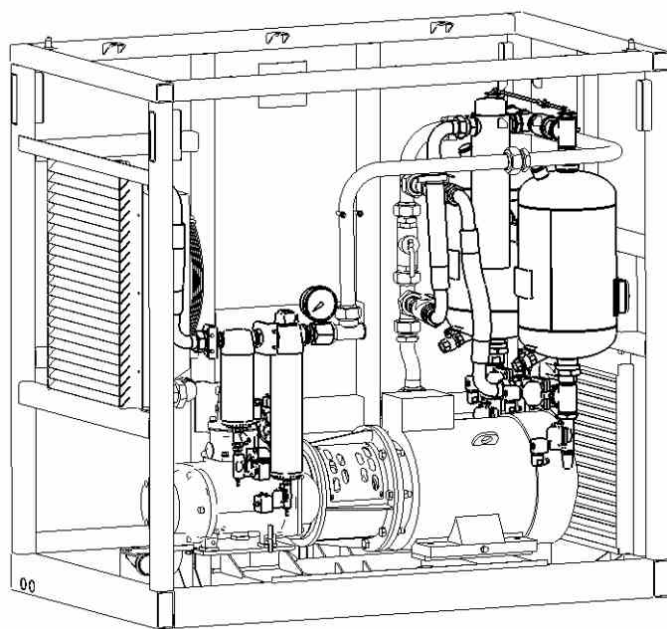
2.2.1.2.1 ለጥንቃቄ ስርዓተ ስራ

2.2.1.2.1.1 ለጥንቃቄ ስርዓተ ስራ

| ስርዓተ ስራ | ስርዓተ ስራ ለጥንቃቄ | | | | | | | |
|---------------|----------------------|---------------------------------|-----------------|----------------------|---|---|---|------------------------|
| | √ΔL 3,5/1 ስር 2 | √ΔL 5,25/1 ስር 2 | √ΔL 0,81/1 ስር 2 | √ΔL 0,75/0,8 ስር 1-01 | √ΔL 4,5/1 ስር 2-01 ስር 1 | √ΔL 4,5/1 ስር 2-03 ስር 1 | √ΔL 4,5/1 ስር 2-05 ስር 1 | √ΔL 6/1 ስር 2 |
| — ስርዓተ ስራ | | | | | | | | |
| ስርዓተ ስራ | «ስርዓተ ስራ» | «ስርዓተ ስራ» | «ስርዓተ ስራ» | «ስርዓተ ስራ» | «ስርዓተ ስራ» | «ስርዓተ ስራ» | «ስርዓተ ስራ» | «ስርዓተ ስራ» |
| ስርዓተ ስራ | ስርዓተ ስራ 10393 | ስርዓተ ስራ 10393 | ስርዓተ ስራ 10393 | ስርዓተ ስራ 10393 | ስርዓተ ስራ 3184-028-05744521-2009 | ስርዓተ ስራ 3184-028-05744521-2009 | ስርዓተ ስራ 3184-028-05744521-2009 | ስርዓተ ስራ 10393 |
| ስርዓተ ስራ | ስር 2 | ስር 2 | ስር 2 | ስር 1 | ስር 2 | ስር 2 | ስር 2 | ስር 2 |
| ስርዓተ ስራ | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 |
| ስርዓተ ስራ | ስርዓተ ስራ 2 ስር 6 ስር 10 | ስርዓተ ስራ 9 ስር 9 ስር 7 ስር 14 ስር 16 | ስርዓተ ስራ 2 ስር | ስርዓተ ስራ | ስርዓተ ስራ 2 ስር 25v ስር 25v ስር 25v ስር 25Δ ስር 25Δ ስር 25Δ | ስርዓተ ስራ 2 ስር 25v ስር 25v ስር 25v ስር 25Δ ስር 25Δ ስር 25Δ | ስርዓተ ስራ 2 ስር 25v ስር 25v ስር 25v ስር 25Δ ስር 25Δ ስር 25Δ | ስርዓተ ስራ 9 ስር (ስርዓተ ስራ) |
| ስርዓተ ስራ ለጥንቃቄ | | | | | | | | |
| ስርዓተ ስራ | 1820±10 | 1540±10 (ስርዓተ ስራ 1205±10) | 1540 | 1513 | 1742 | 1700 | 1600 | 1550 |
| ስርዓተ ስራ | 910±10 | 760±10 | 992 | 856 | 842 | 842 | 830 | 1020 |
| ስርዓተ ስራ | 1210±10 | 1050±10 | 658 | 855 | 1110 | 1110 | 1110 | 1410 |
| ስርዓተ ስራ | 1000 | 700 | 450 | 400 | 1100 | 1460 | 1000 | 1460 |
| ስርዓተ ስራ ለጥንቃቄ | | | | | | | | |



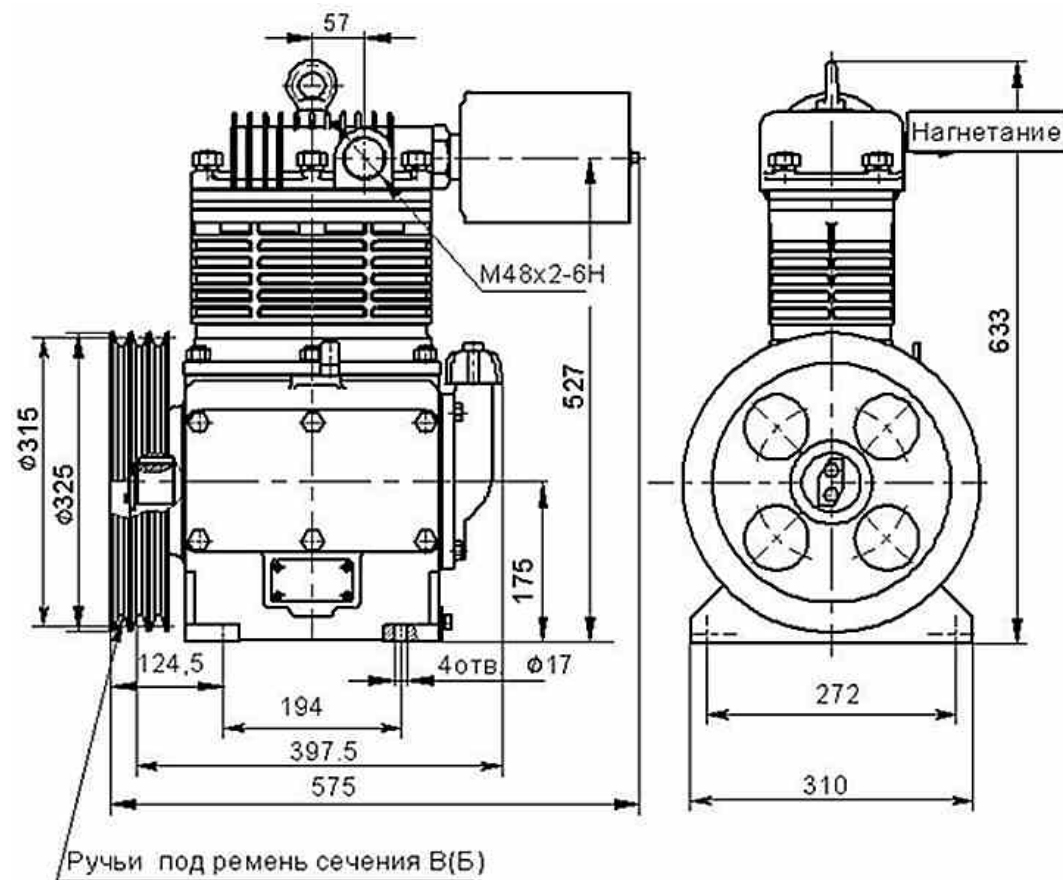
2.2.1.2.1 $\sqrt{\Delta} \leq 3,5/1 \text{ r } \downarrow 2$



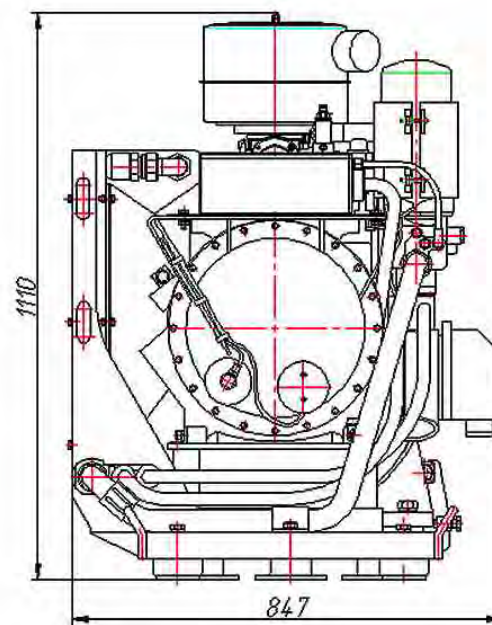
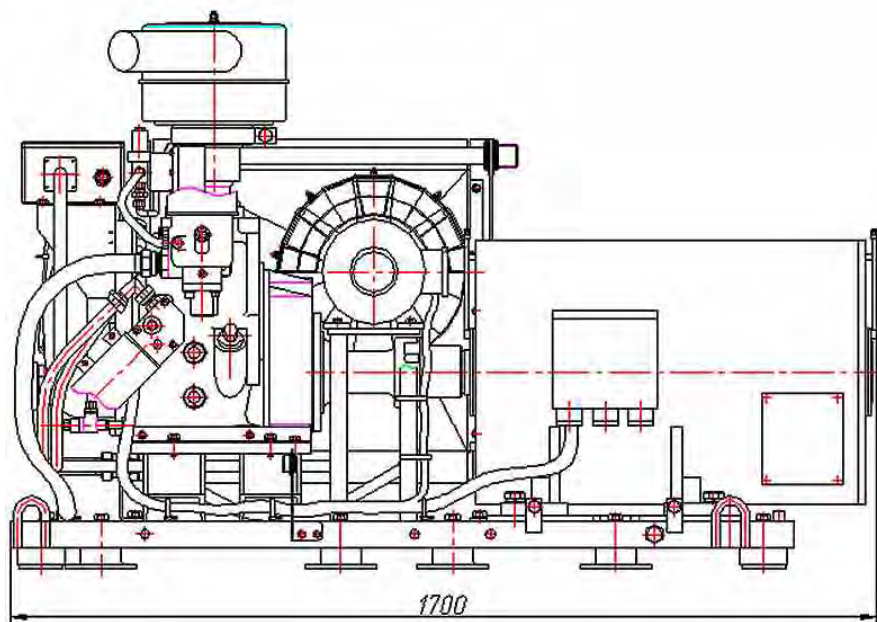
2.2.1.2.2 $\sqrt{\Delta} \leq 5,25/1$ | 2



2.2.1.2.3 $\sqrt{\Delta} \leq 0,81/1$ $\Gamma \cdot 2$



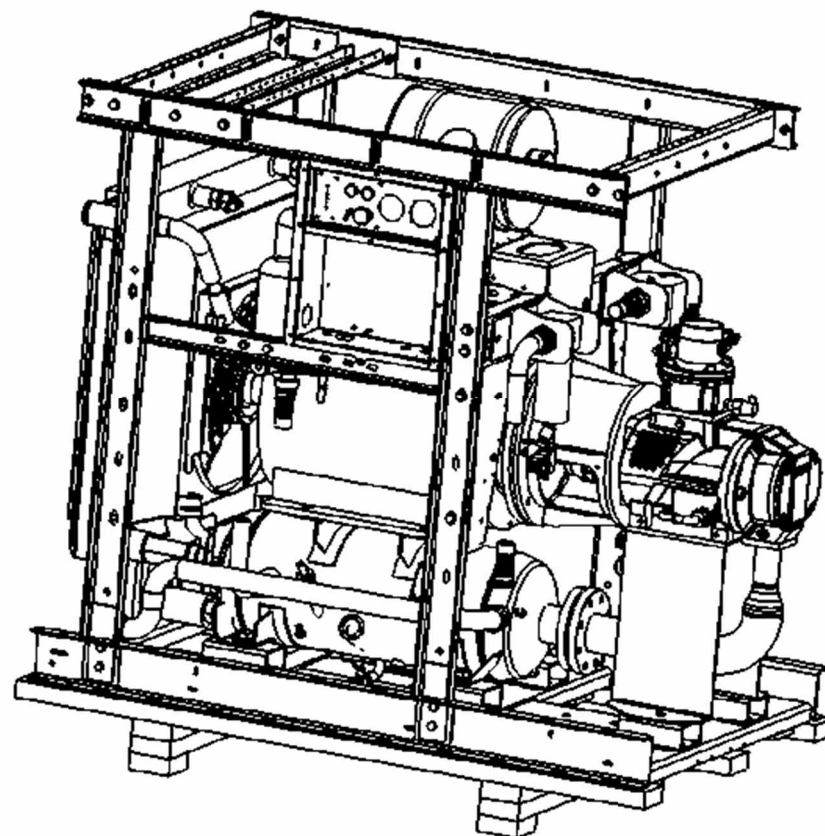
2.2.1.2.4 0,75/0,8-1-01



2.2.1.2.5

 $\sqrt{\Delta} 4,5$

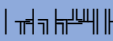
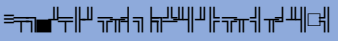
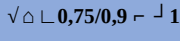
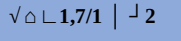
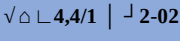
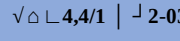
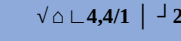
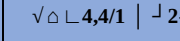
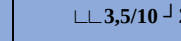
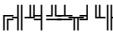
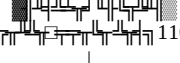
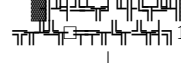
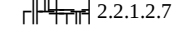
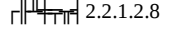
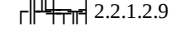
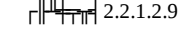
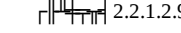
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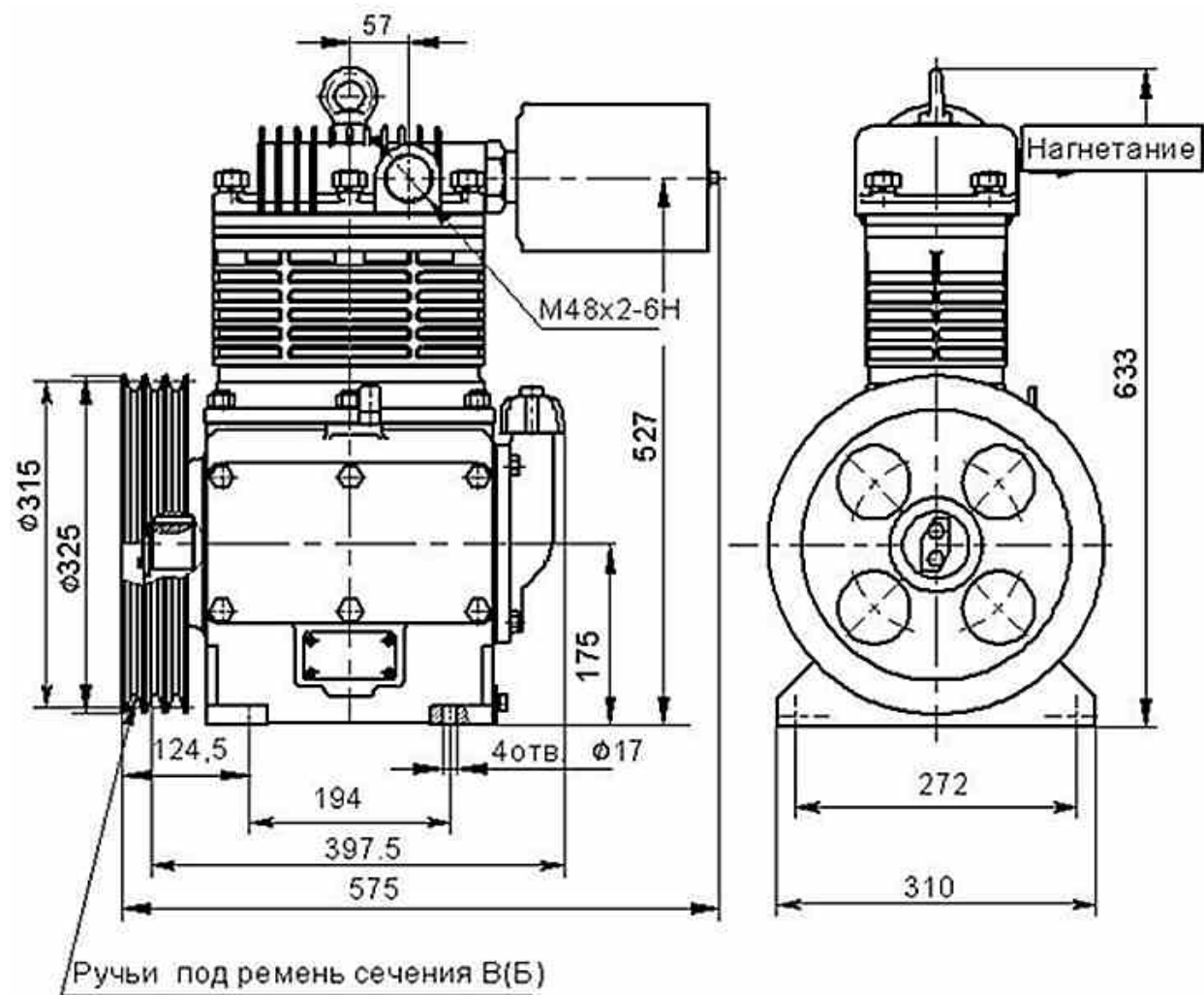


2.2.1.2.6 - 6/1 2

2.2.1.2.2 ለግንባታው የሚያስፈልጉ የፍጥነት ምዕራፍ (የግንባታው የፍጥነት ምዕራፍ)

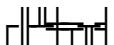
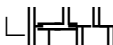
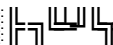
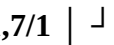
| የግንባታው የፍጥነት ምዕራፍ | የፍጥነት ምዕራፍ ምዕራፍ | | | | | | |
|-------------------|--|--|--|--|--|--|----------------------------------|
| | √ΔL 0,75/0,9 ምዕራፍ 1 | √ΔL 1,7/1 ምዕራፍ 2 | √ΔL 4,4/1 ምዕራፍ 2-02 | √ΔL 4,4/1 ምዕራፍ 2-03 | √ΔL 4,4/1 ምዕራፍ 2 | √ΔL 4,4/1 ምዕራፍ 2-01 | LL 3,5/10 ምዕራፍ 2 |
| የፍጥነት ምዕራፍ ምዕራፍ | | | | | | | |
| የፍጥነት ምዕራፍ ምዕራፍ | «√-
የፍጥነት ምዕራፍ ምዕራፍ» | «√-
የፍጥነት ምዕራፍ ምዕራፍ» | «√-
የፍጥነት ምዕራፍ ምዕራፍ» | «√-
የፍጥነት ምዕራፍ ምዕራፍ» | «√-
የፍጥነት ምዕራፍ ምዕራፍ» | «√-
የፍጥነት ምዕራፍ ምዕራፍ» | «√-
የፍጥነት ምዕራፍ ምዕራፍ» |
| የፍጥነት ምዕራፍ ምዕራፍ | የፍጥነት ምዕራፍ ምዕራፍ 3020-065-05744521-2017 | የፍጥነት ምዕራፍ ምዕራፍ 3020-065-05744521-2017 | የፍጥነት ምዕራፍ ምዕራፍ 3020-063-05744521-2017 | የፍጥነት ምዕራፍ ምዕራፍ 3020-063-05744521-2017 | የፍጥነት ምዕራፍ ምዕራፍ 3020-063-05744521-2017 | የፍጥነት ምዕራፍ ምዕራፍ 3020-063-05744521-2017 | - |
| የፍጥነት ምዕራፍ ምዕራፍ | ምዕራፍ 1 | ምዕራፍ 1 | ምዕራፍ 2 | ምዕራፍ 2 | ምዕራፍ 2 | ምዕራፍ 2 | ምዕራፍ 2 |
| የፍጥነት ምዕራፍ ምዕራፍ | 40 | 40 | 40 | 40 | 40 | 40 | 40 |
| የፍጥነት ምዕራፍ ምዕራፍ | የፍጥነት ምዕራፍ ምዕራፍ | የፍጥነት ምዕራፍ ምዕራፍ | የፍጥነት ምዕራፍ ምዕራፍ | የፍጥነት ምዕራፍ ምዕራፍ | የፍጥነት ምዕራፍ ምዕራፍ | የፍጥነት ምዕራፍ ምዕራፍ | የፍጥነት ምዕራፍ ምዕራፍ 2 ምዕራፍ 6 ምዕራፍ 10 |
| የፍጥነት ምዕራፍ ምዕራፍ | | | | | | | |
| የፍጥነት ምዕራፍ ምዕራፍ | 1541 | 1480 | 1735 | 1700 | 1735 | 1735 | 1850 |
| የፍጥነት ምዕራፍ ምዕራፍ | 992 | 1035 | 875 | 855 | 875 | 855 | 880 |
| የፍጥነት ምዕራፍ ምዕራፍ | 730 | 709 | 1230 | 1230 | 1050 | 1050 | 1330 |
| የፍጥነት ምዕራፍ ምዕራፍ | 450 | 650 | 1220 | 1120 | 1100 | 1000 | 915 |
| የፍጥነት ምዕራፍ ምዕራፍ | | | | | | | |
| የፍጥነት ምዕራፍ ምዕራፍ | የፍጥነት ምዕራፍ ምዕራፍ | የፍጥነት ምዕራፍ ምዕራፍ | የፍጥነት ምዕራፍ ምዕራፍ | የፍጥነት ምዕራፍ ምዕራፍ | የፍጥነት ምዕራፍ ምዕራፍ | የፍጥነት ምዕራፍ ምዕራፍ | የፍጥነት ምዕራፍ ምዕራፍ |
| የፍጥነት ምዕራፍ ምዕራፍ | 0,6 | 1,7 | 4,4 | 4,4 | 4,4 | 4,4 | 4 |
| የፍጥነት ምዕራፍ ምዕራፍ | 0,9 | 1,0 | 1,0 | 1,0 | 1,0 | 1,0 | 1 |
| የፍጥነት ምዕራፍ ምዕራፍ | | | | | | | |

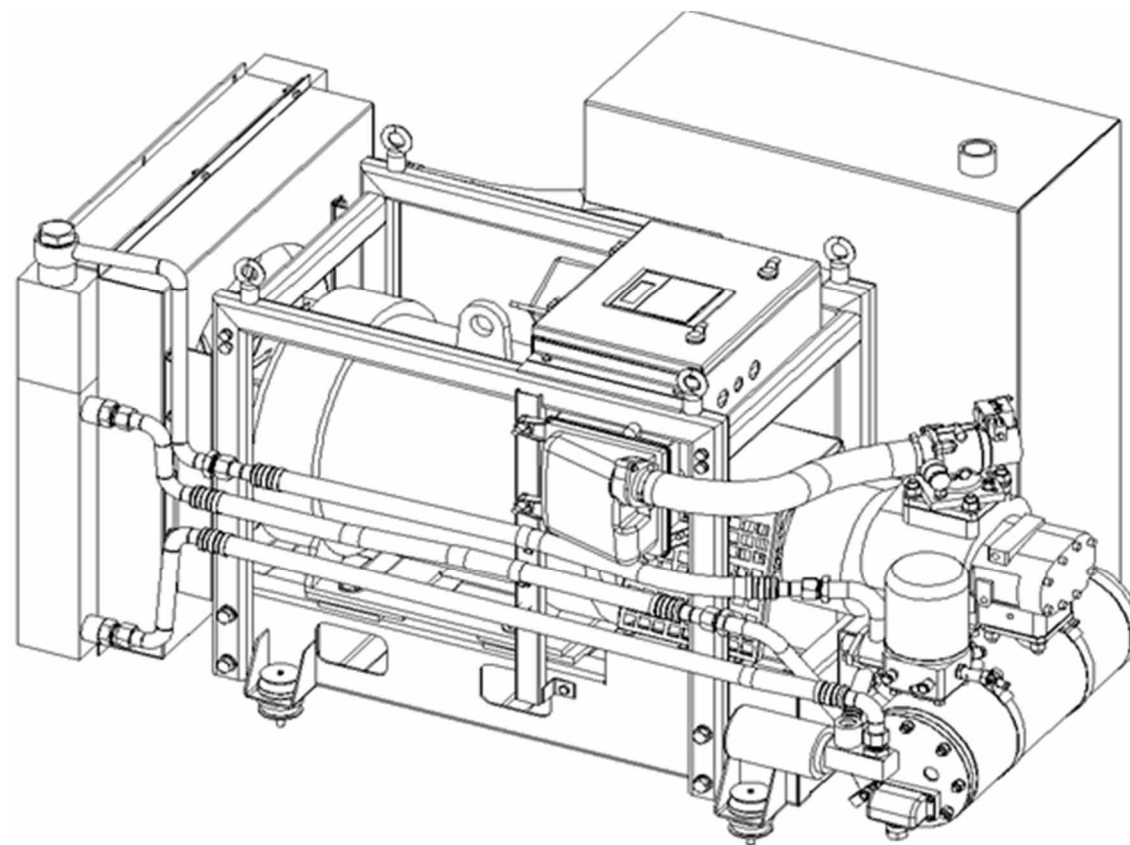
|  |  | | | | | | |
|---|---|---|--|---|---|---|---|
| |  |  |  |  |  |  |  |
|  |  |  |  |  |  | - |  |
|  | 380 | 380 | 110 | 380 | 110 | 380 | 380 |
|  | - | - | 110 | - | 110 | - | - |
|  |  |  |  |  |  |  |  |

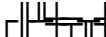
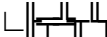
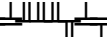


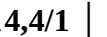
2.2.1.2.7 $\sqrt{\Delta} \leq 0,75/0,9 \cdot \sqrt{1}$




 2.2.1.2.8
 


 1,7/1 | 2

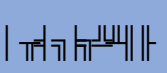
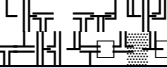
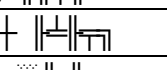
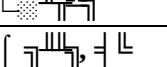
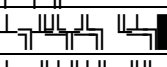
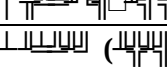


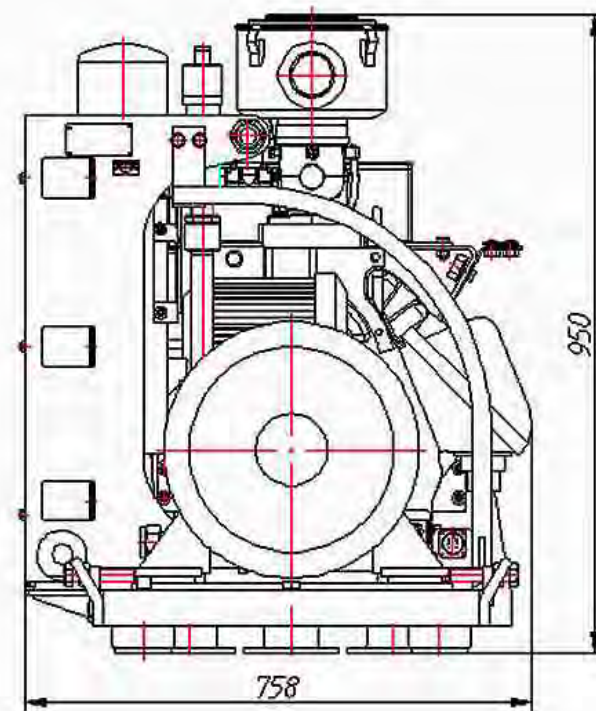
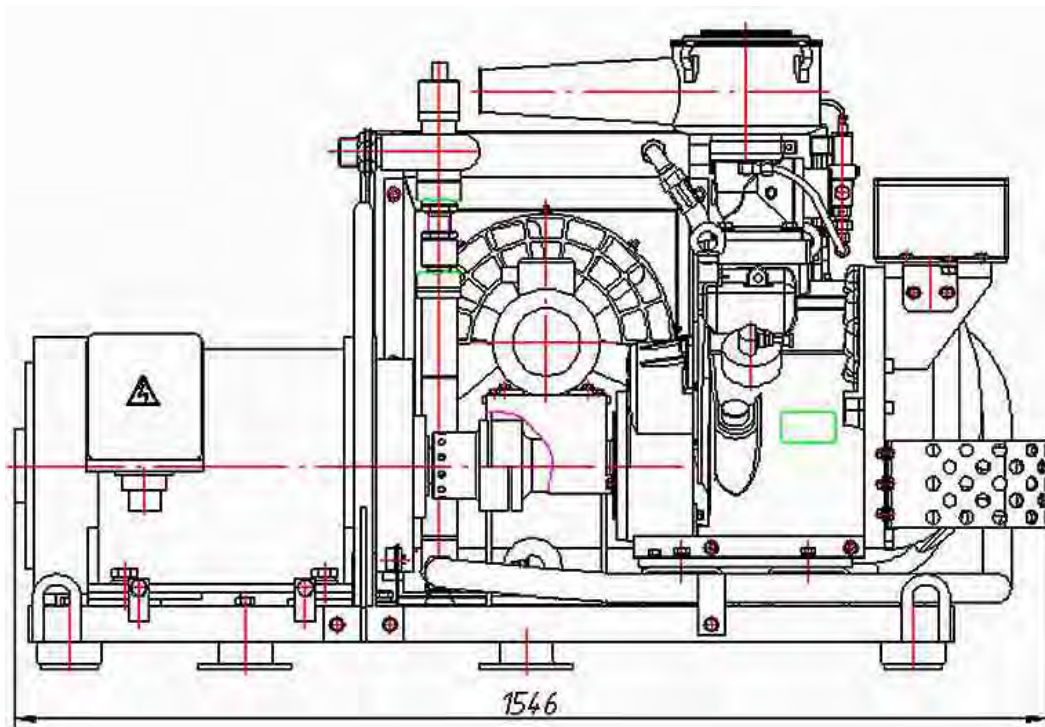
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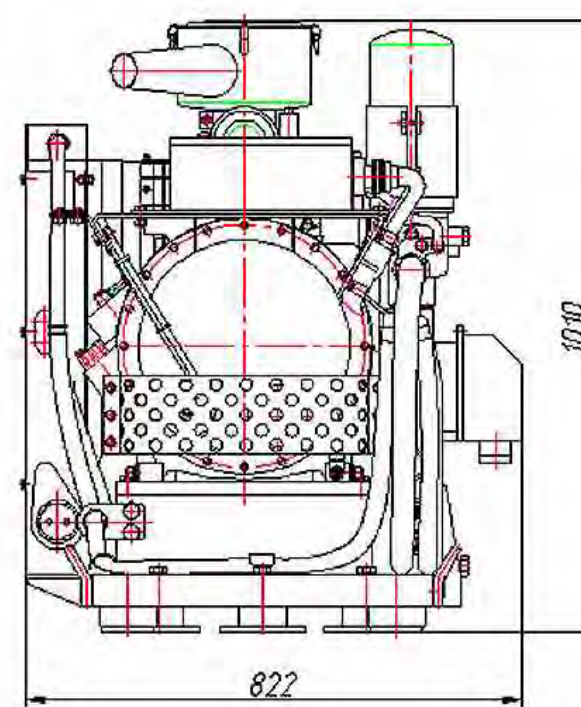
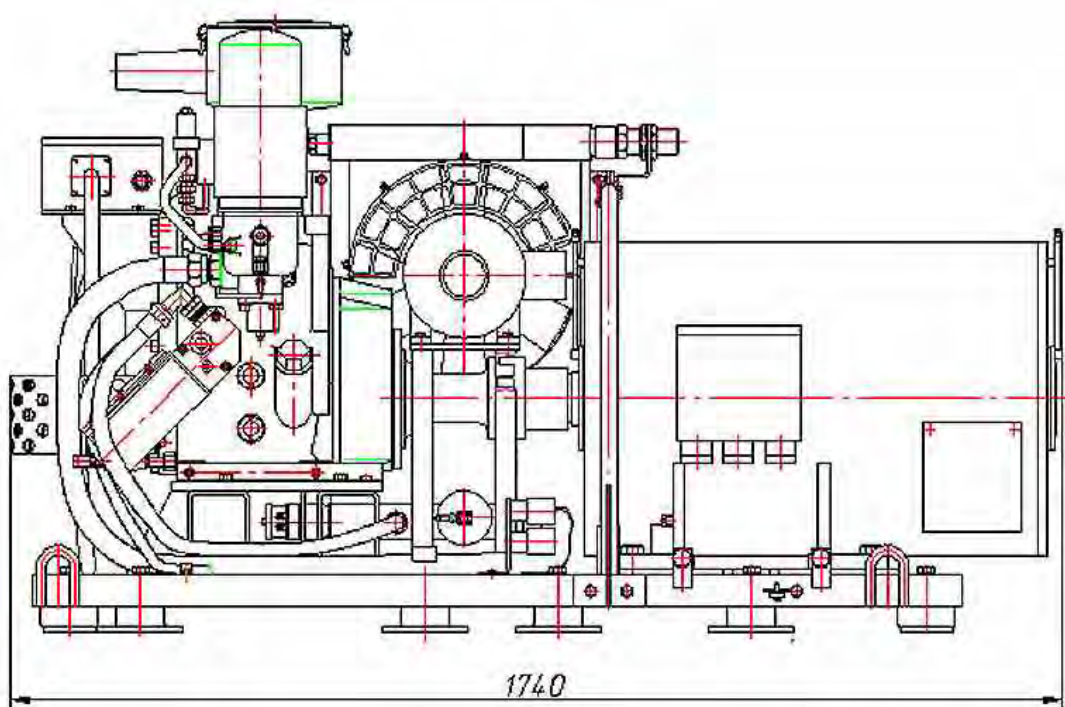
 4,4/1 | 2-03

2.2.1.2.2

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2.2.1.2.11 3,2/10-1000 2 1



2.2.1.2.12 3,2/10-1000 2 1

2.2.1.2.3 |

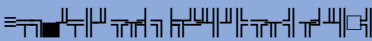
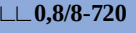
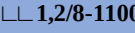
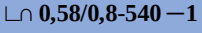
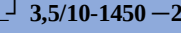
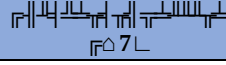
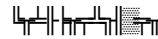
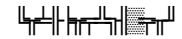
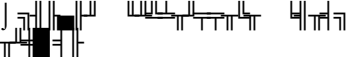
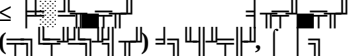
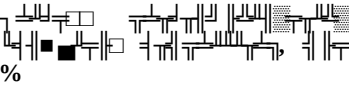
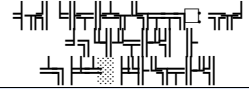
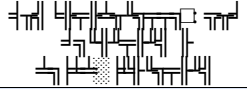
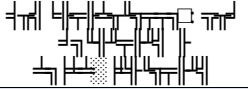
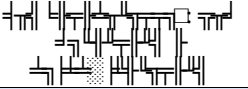
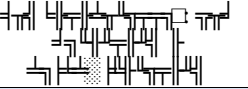
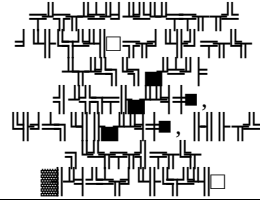
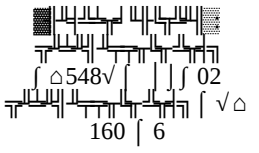
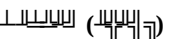
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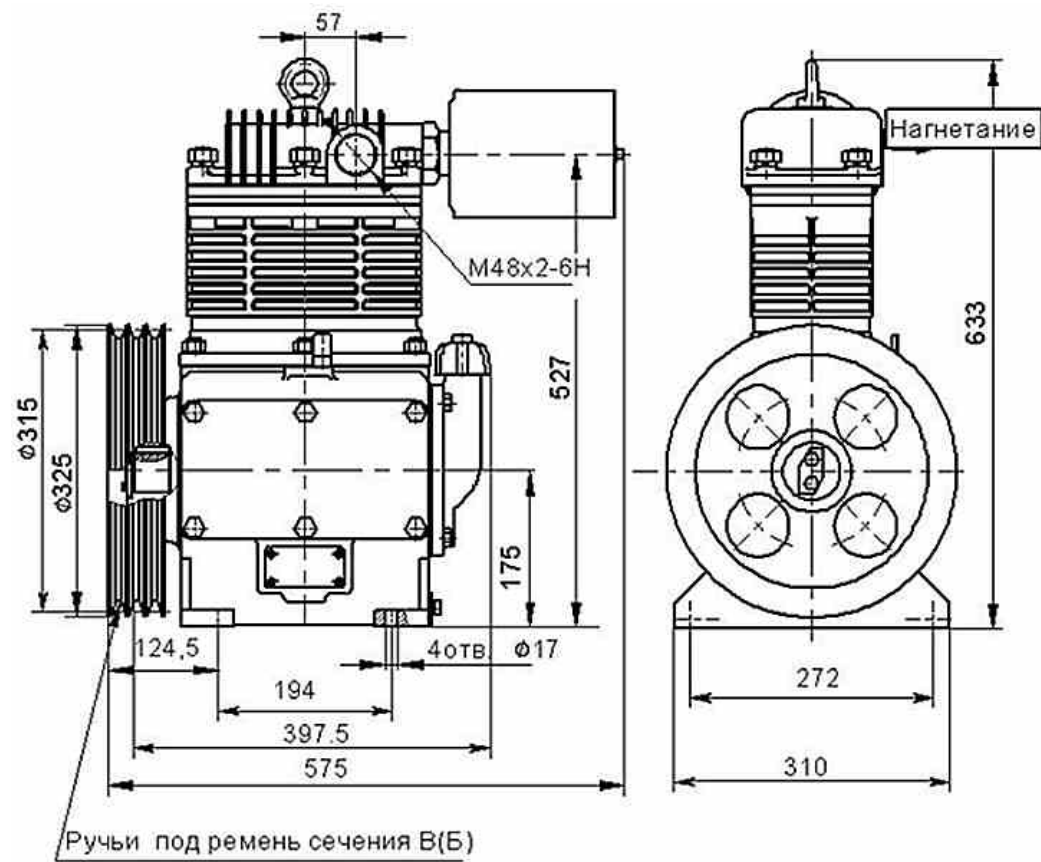
2.2.1.3. ስራዎች

2.2.1.3.1 | ስራዎች

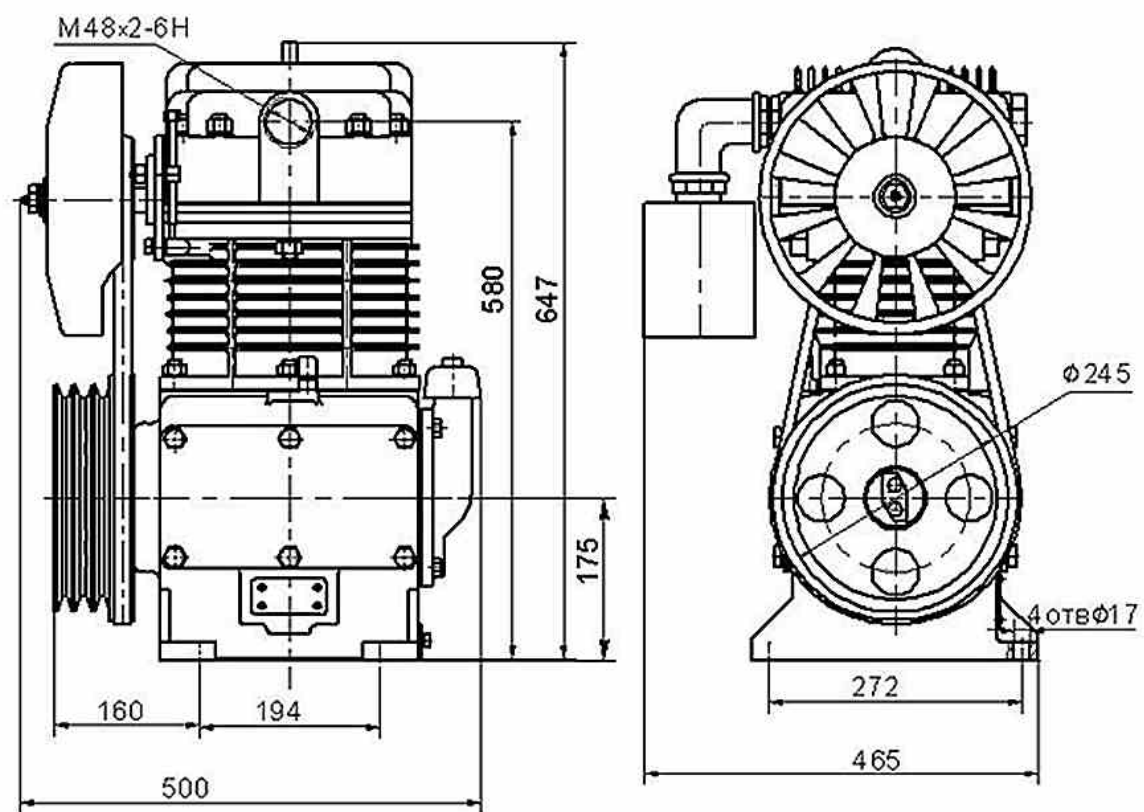
2.2.1.3.1 | ስራዎች

| ስራዎች | ስራዎች | | | | |
|------|--------------|------------------------|-----------------|----------------------|--------------|
| | 0,8/8-720 | 1,2/8-1100 | 0,58/0,8-540 -1 | 3,5/10-1450 -2 | ስራዎች 7 |
| ስራዎች | | | | | |
| ስራዎች | ✓ - «ስራዎች» | ✓ - «ስራዎች» | ✓ - «ስራዎች» | ✓ - «ስራዎች» | ✓ - «ስራዎች» |
| ስራዎች | 24.05.197-80 | 3184-010-05744521-2000 | 24.05.126-80 | 3184-008-05744521-98 | 24.05.126-80 |
| ስራዎች | 1 | 1 | 1 | 1 | 1 |
| ስራዎች | ስራዎች | ስራዎች | ስራዎች | ስራዎች | ስራዎች |
| ስራዎች | | | | | |
| ስራዎች | 575 | 500 | 520 | 904 | 949 |
| ስራዎች | 325 | 465 | 438 | 666 | 704 |
| ስራዎች | 633 | 647 | 583 | 972 | 438 |
| ስራዎች | 105 | 133,5 | 118 | 310±5% | 454 |
| ስራዎች | | | | | |
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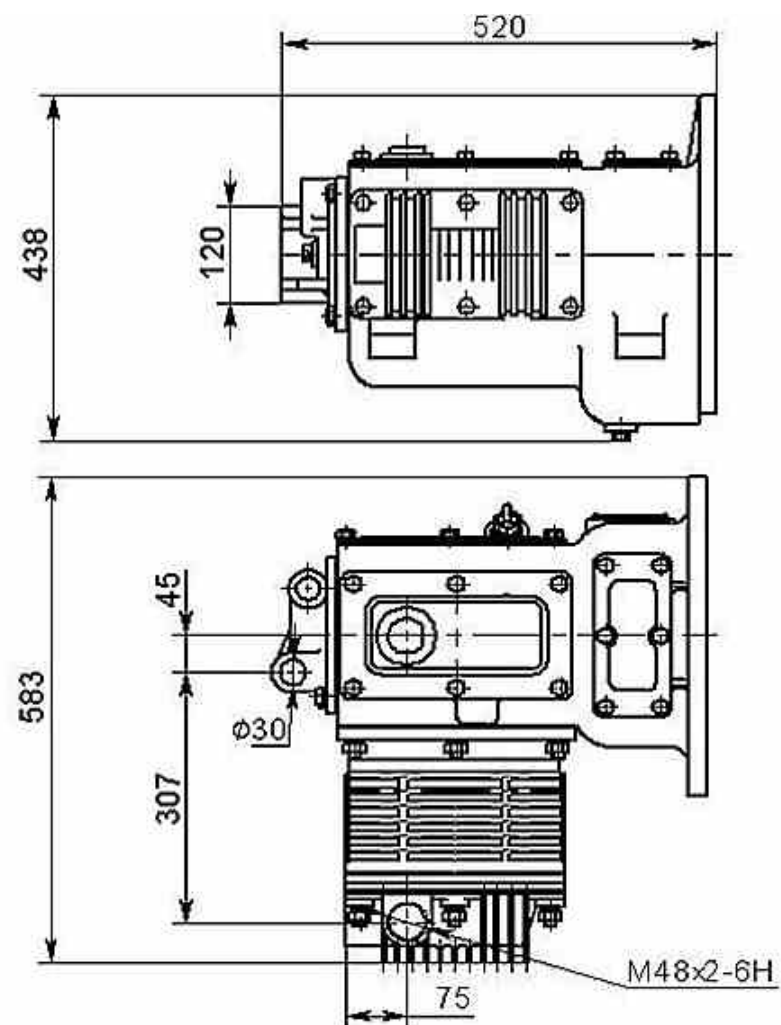
|  |  | | | | |
|---|---|---|--|---|--|
| |  0,8/8-720 |  1,2/8-1100 |  0,58/0,8-540 – 1 |  3,5/10-1450 – 2 |  |
|  |  |  |  | V -  |  |
|  |  |  |  |  |  |
|  | 0,8 | 1,2-0,1 | 0,58 | 3,5±5% | 0,58 |
|  | 0,78 | 0,78 | 0,8 | 0,98 | 0,8 |
|  | 720 | 1100 | 540 | 1450 | 540 |
|  | 6,3 | 10,2 | 4,7 | 29.5±5% | 4,7 |
|  | 10  50% | 10  50% | 10  50% | 10  50% | 10  50% |
|  |  |  |  |  |  |
|  | | | | | |
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|  | 2.2.1.3.1 | 2.2.1.3.2 | 2.2.1.3.3 | 2.2.1.3.4 | 2.2.1.3.5 |



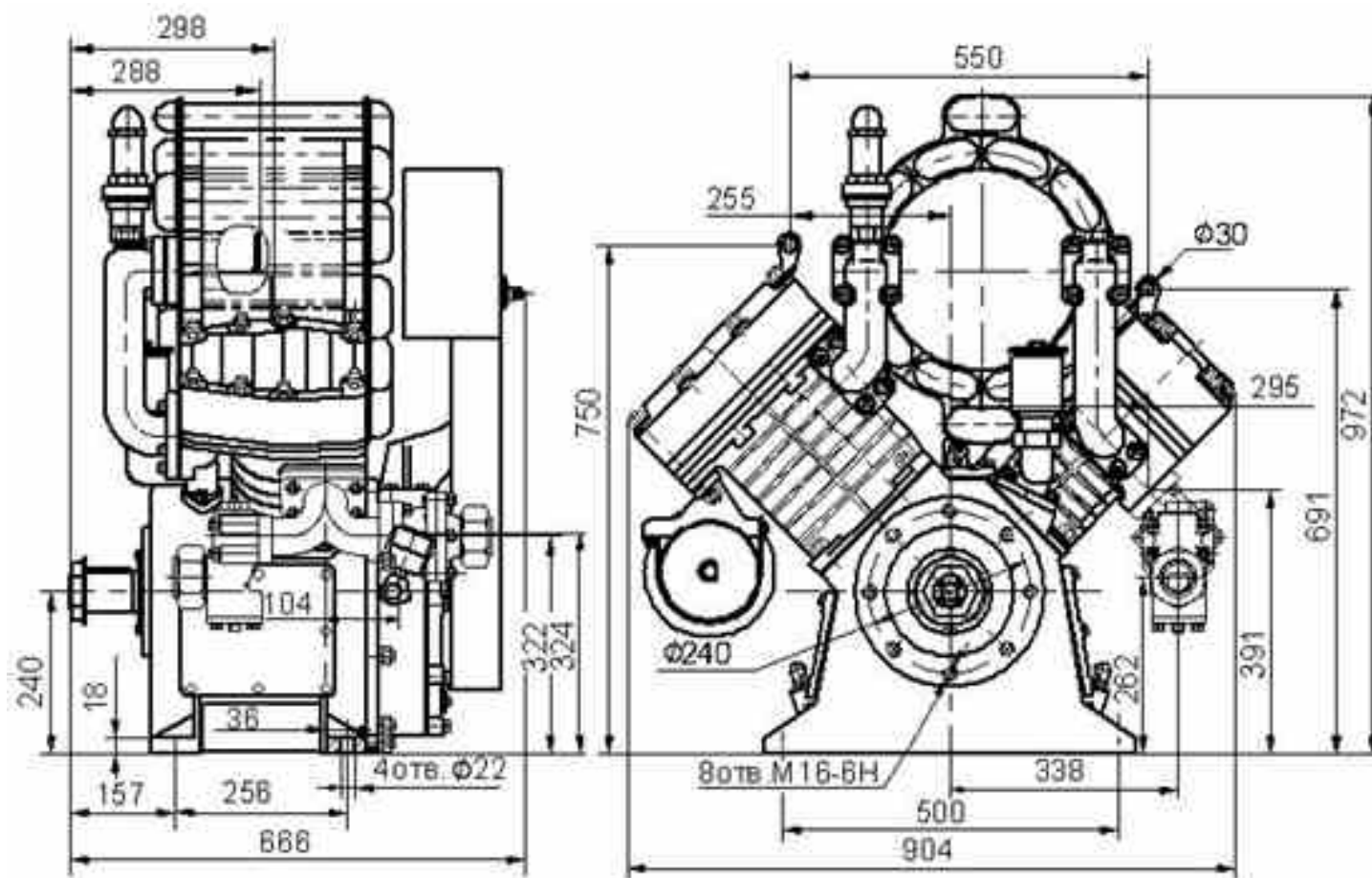
2.2.1.3.1 - 0,8/8-720



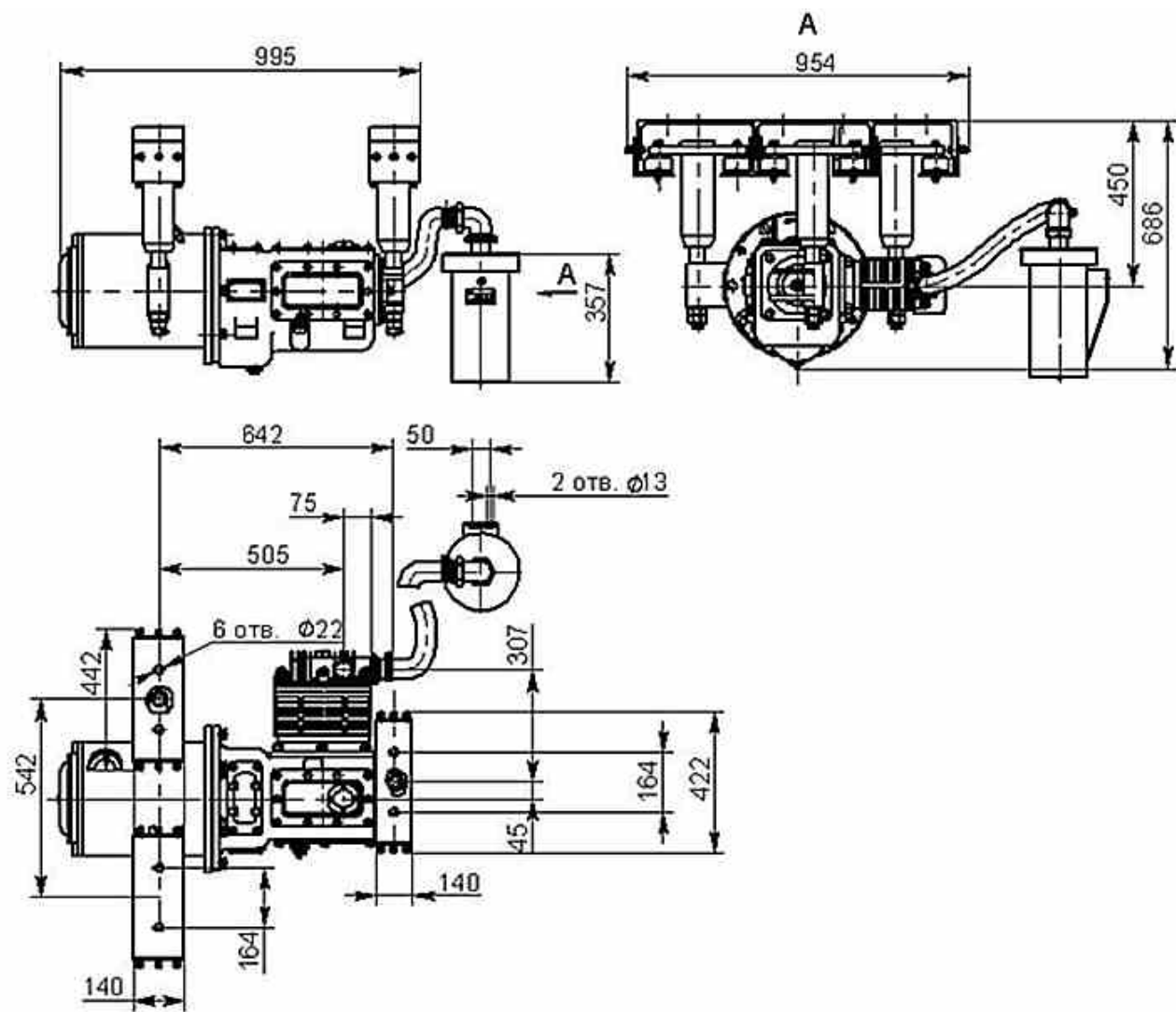
2.2.1.3.2 - LL 1,2/8-1100



2.2.1.3.3 - 0,58/0,8-540 -1



2.2.1.3.4 - 3,5/10-1450-2

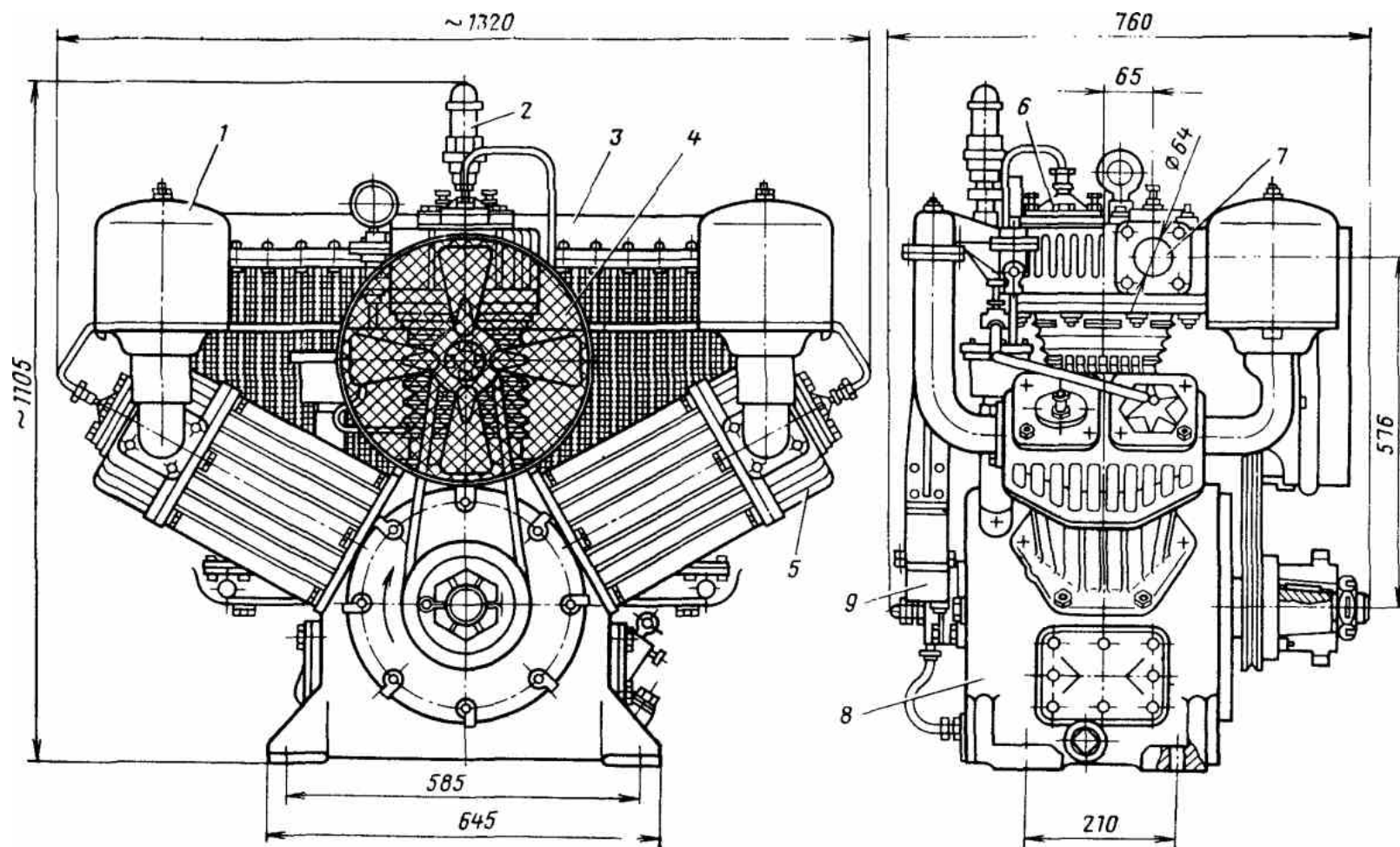


2.2.1.3.5 - 7L

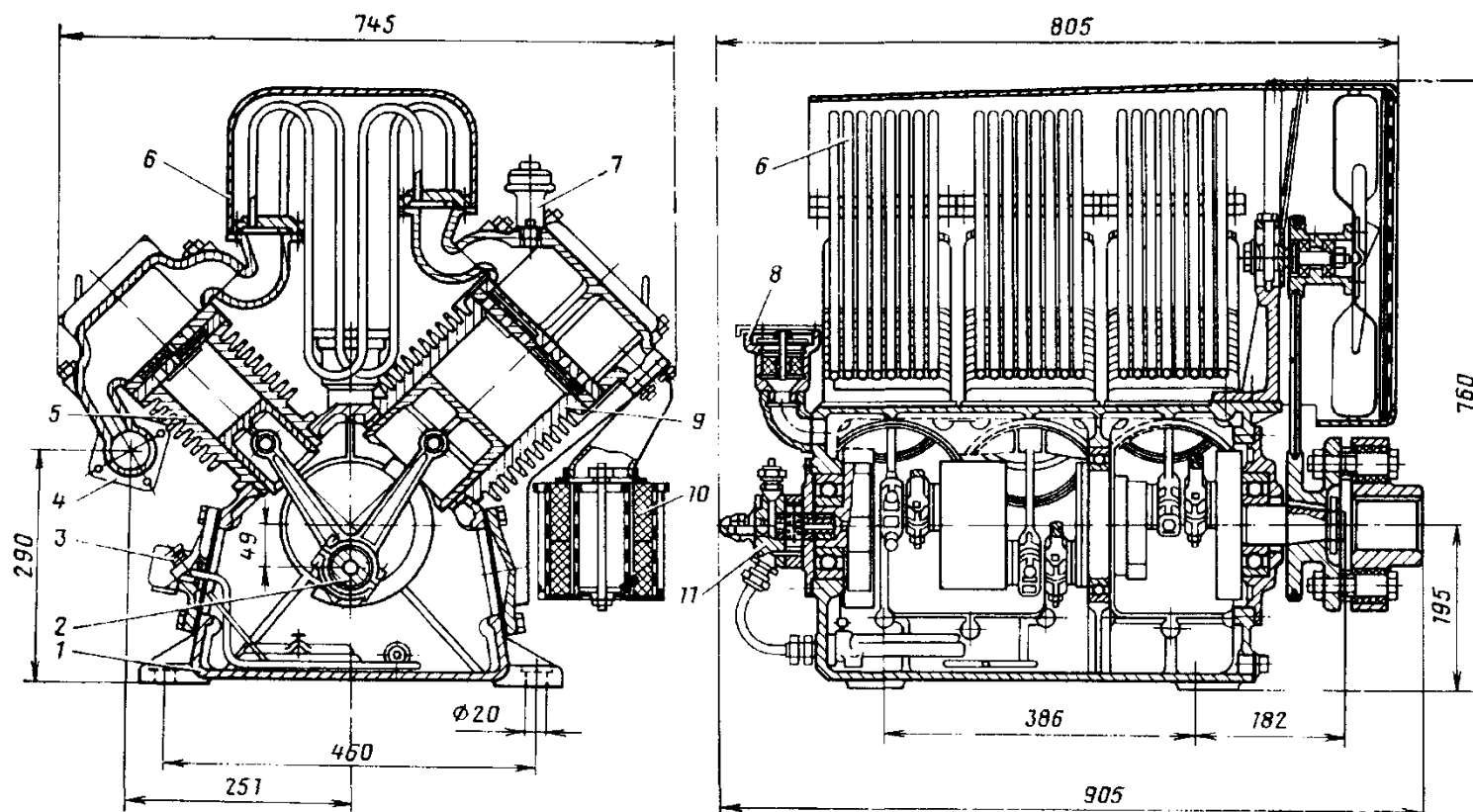
2.2.1.3.1 $\left| \begin{array}{c} \text{[Diagram 1]} \\ \text{[Diagram 2]} \end{array} \right| - \left| \begin{array}{c} \text{[Diagram 3]} \\ \text{[Diagram 4]} \end{array} \right|$

[illegible]

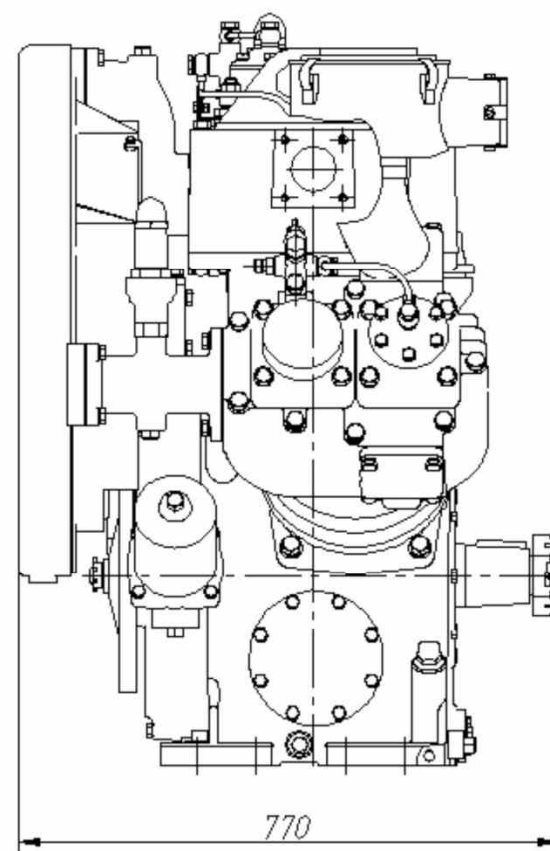
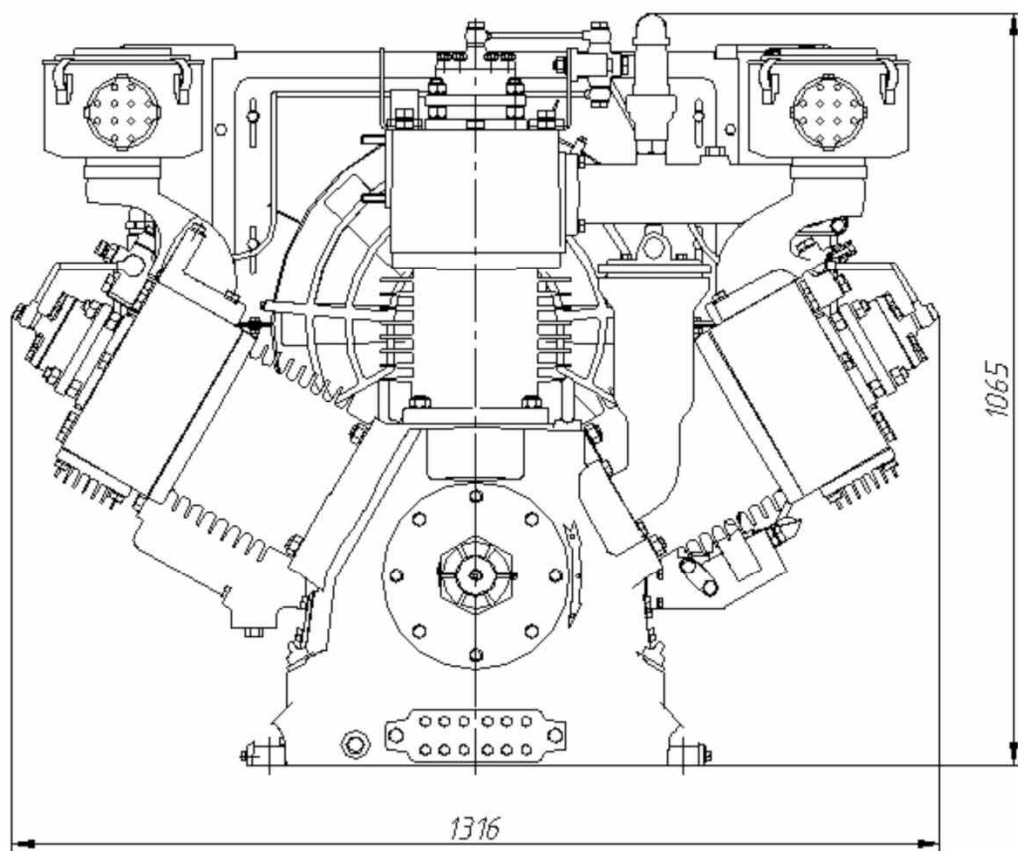
| <div> <div></div> <div> <div></div> <div></div> </div> </div> | <div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> </div> | | | | | | |
|---|--|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|
| | <div> <div></div> <div></div> </div> | <div> <div></div> <div></div> </div> | <div> <div></div> <div></div> </div> | <div> <div></div> <div></div> </div> | <div> <div></div> <div></div> </div> | <div> <div></div> <div></div> </div> | <div> <div></div> <div></div> </div> |
| <div> <div></div> <div></div> </div> | 850 | 850 | | 1450 | 540 | 850 | 1475 |
| <div> <div></div> <div></div> </div> | 44 | 44 | 44 | 29.5±5% | 4,7 | 8,3 | 33,0 |
| <div> <div></div> <div></div> </div> | 10 ׀ 50% | 10 ׀ 50% | 10 ׀ 50% | 10 ׀ 50% | 10 ׀ 50% | | 100% |
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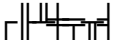


2.2.1.3.6 L-6



2.2.1.3.10 | $\triangle -5,25$



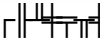

2.2.1.3.11 |
 
 5,4/1 $\perp$ 2

2.2.2 —————

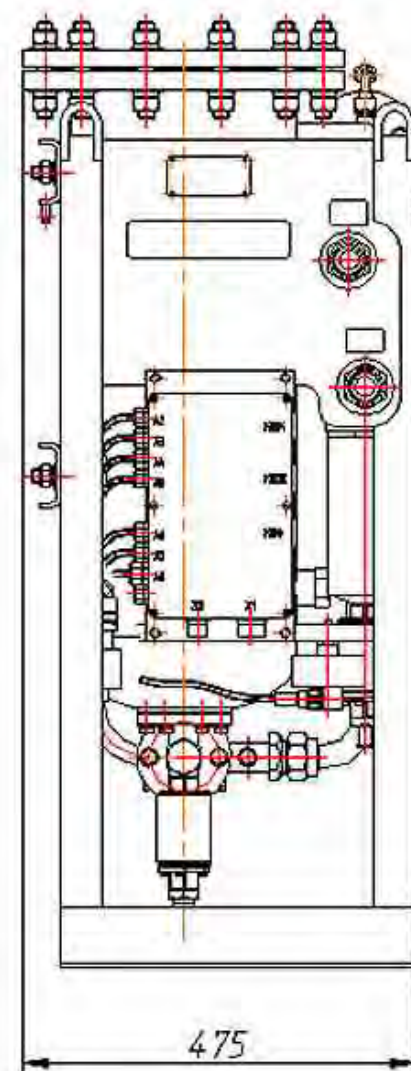
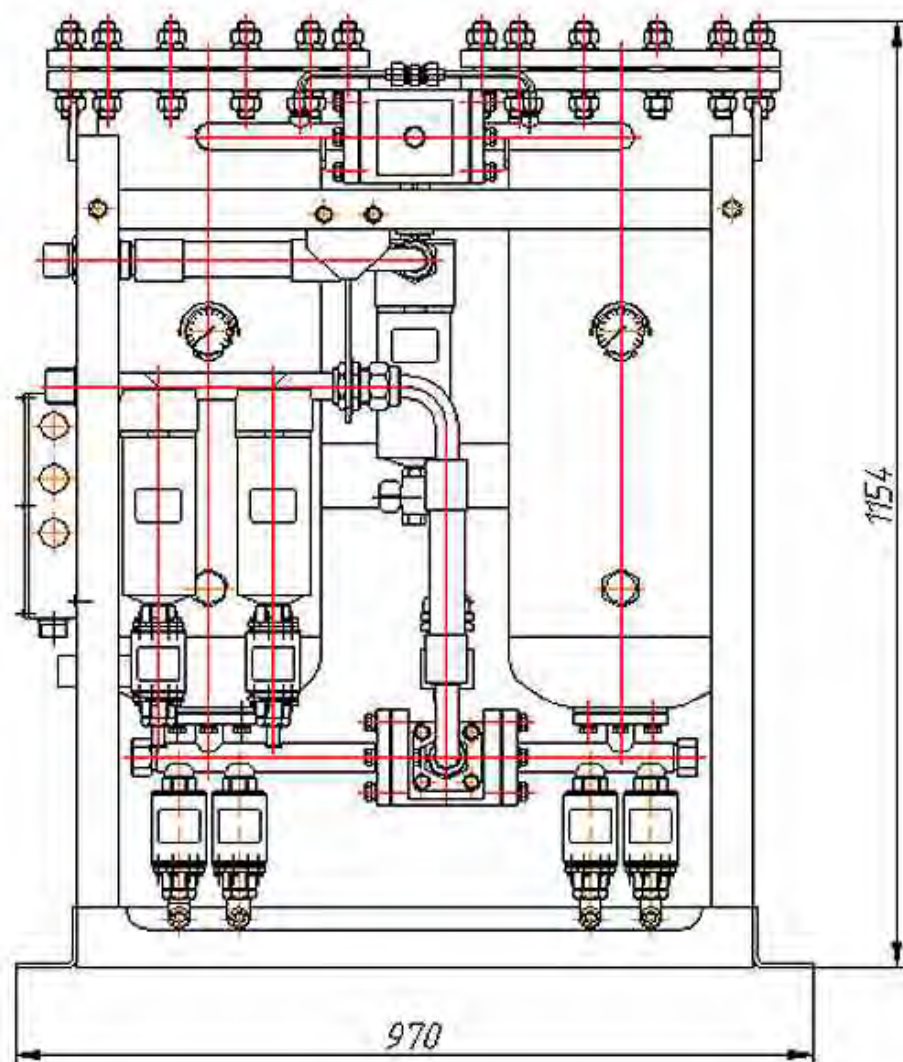
2.2.2.1 ————— () ————— (|)

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|-------|------------------------|------------------------|------------------------|------------------------|------------------------|-------------|
| | — 2/2 5,0/1 2-01, 02 | — 2/2 5,0/1 2-03 | — 2/2 5,0/1 2-04 | — 2/2 5,0/1 2-05 | — 2/2 2,5/1 2 | — 4.5/1 2 |
| — | √—
«—» | √—
«—» | √—
«—» | √—
«—» | √—
«—» | √—
«—» |
| —, — | 3184-052-05744521-2015 | 3184-052-05744521-2015 | 3184-052-05744521-2015 | 3184-052-05744521-2015 | 3020-067-05744521-2017 | - |
| — | — | — | — | — | — | — |
| — | | | | | | |
| — | 1050 | 1140 | 1177 | 1100 | 1065 | 970 |
| — | 605 | 700 | 700 | 600 | 550 | 475 |
| — | 1240 | 1120 | 1050 | 1240 | 990 | 1154 |
| — | 380 | 400 | 400 | 410 | 280 | 260 |
| — | 4,0 ÷ 5,0 | 4,0 ÷ 5,0 | 4,0 ÷ 5,0 | 4,0 ÷ 5,0 | 1,4 ÷ 4,68 | 3.0÷ 4.5 |
| — | 0,05 | 0,05 | 0,05 | 0,05 | 0,05 | 0,05 |
| — | 1,0 | 1,0 | 1,0 | 1,0 | 1,0 | 0,98 |
| — | 1,5 | 1,5 | 1,5 | 1,5 | 0,4 | — |
| — | 20 | 20 | 20 | 20 | 20 | 18 |
| — (—) | — 2.2.2.1.1 | — 2.2.2.1.1 | — 2.2.2.1.1 | — 2.2.2.1.1 | — 2.2.2.1.1 | — 2.2.2.1.2 |

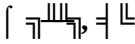
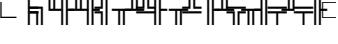


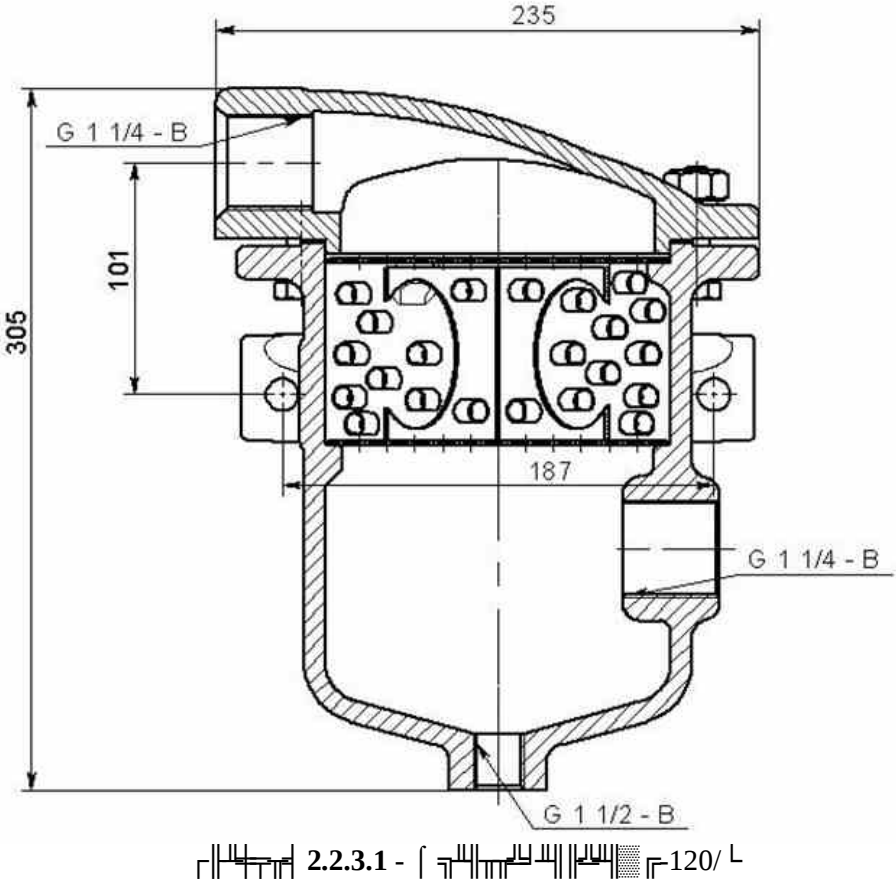

 2.2.2.1.1 - ∞

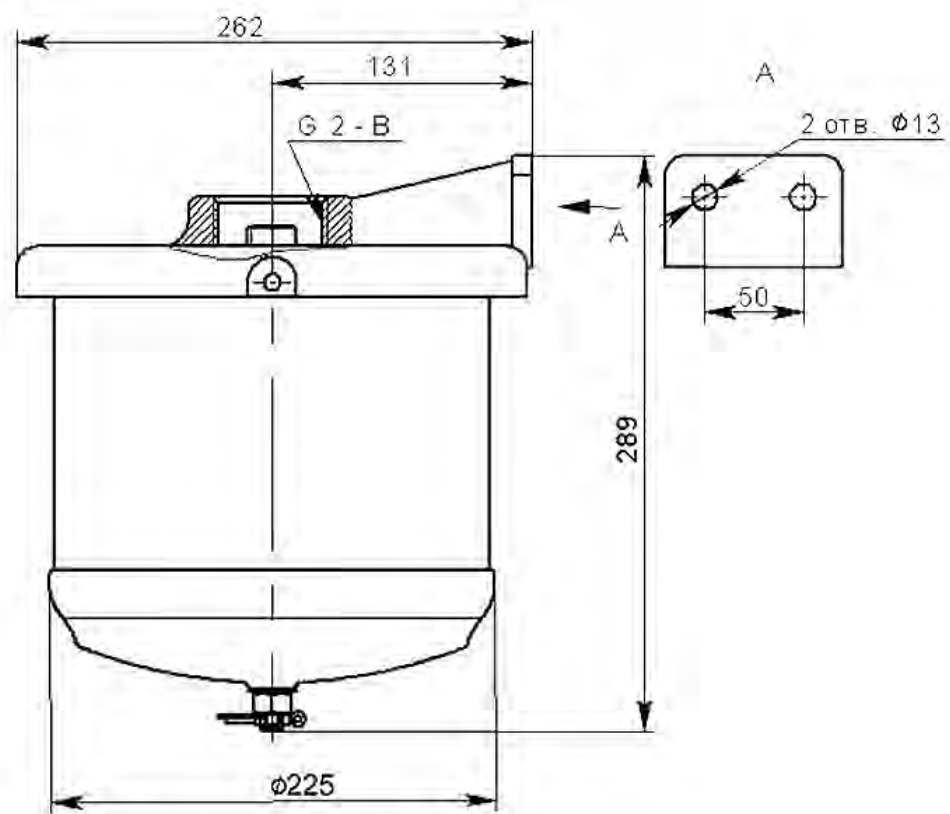
 L 2/2 5,0/1
 
 2-01, 02



2.2.2.1.6 - 7 | L4.5/1 2

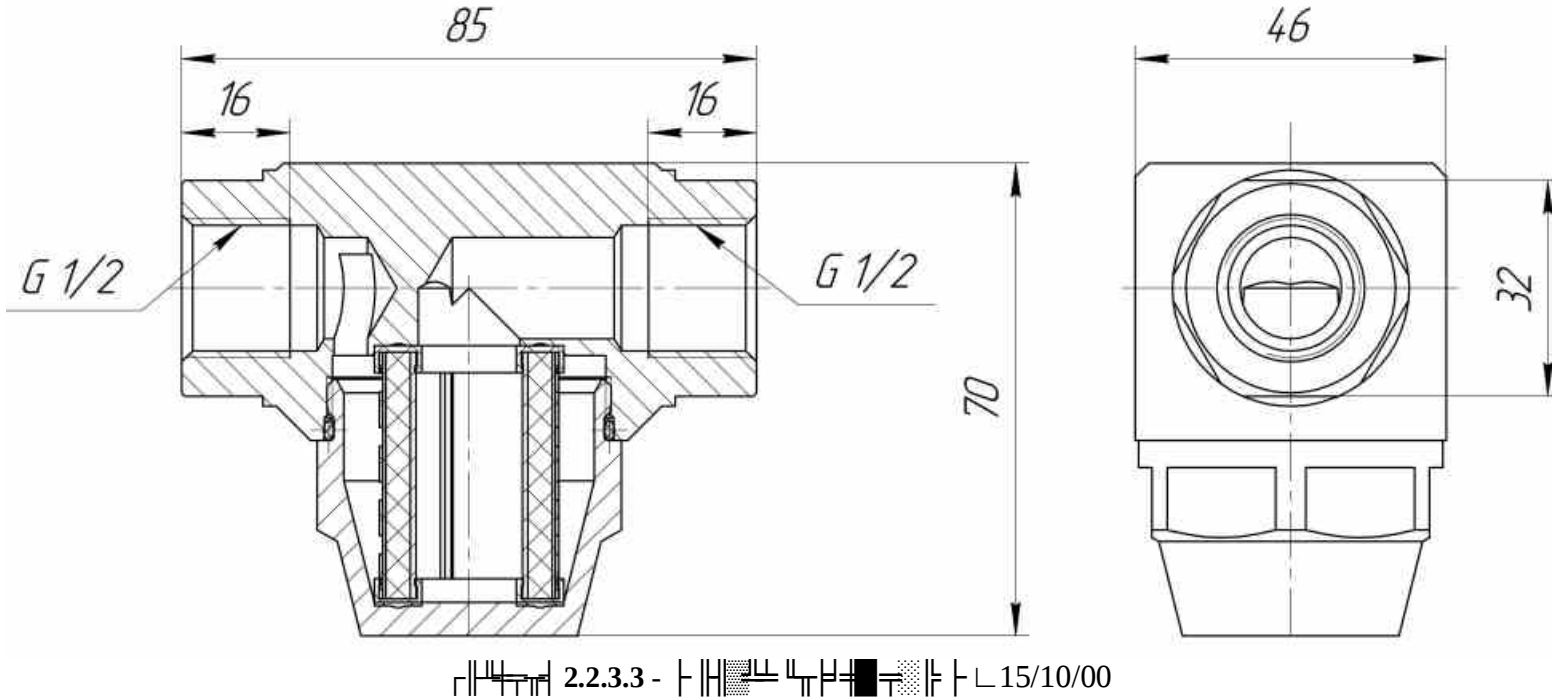
| | | | |
|---|---|---|---|
|  | 16,9 | 8,6 |  |
|  |  2.2.3.1 |  2.2.3.2 |  2.2.3.3
 2.2.3.4
 2.2.3.5 |



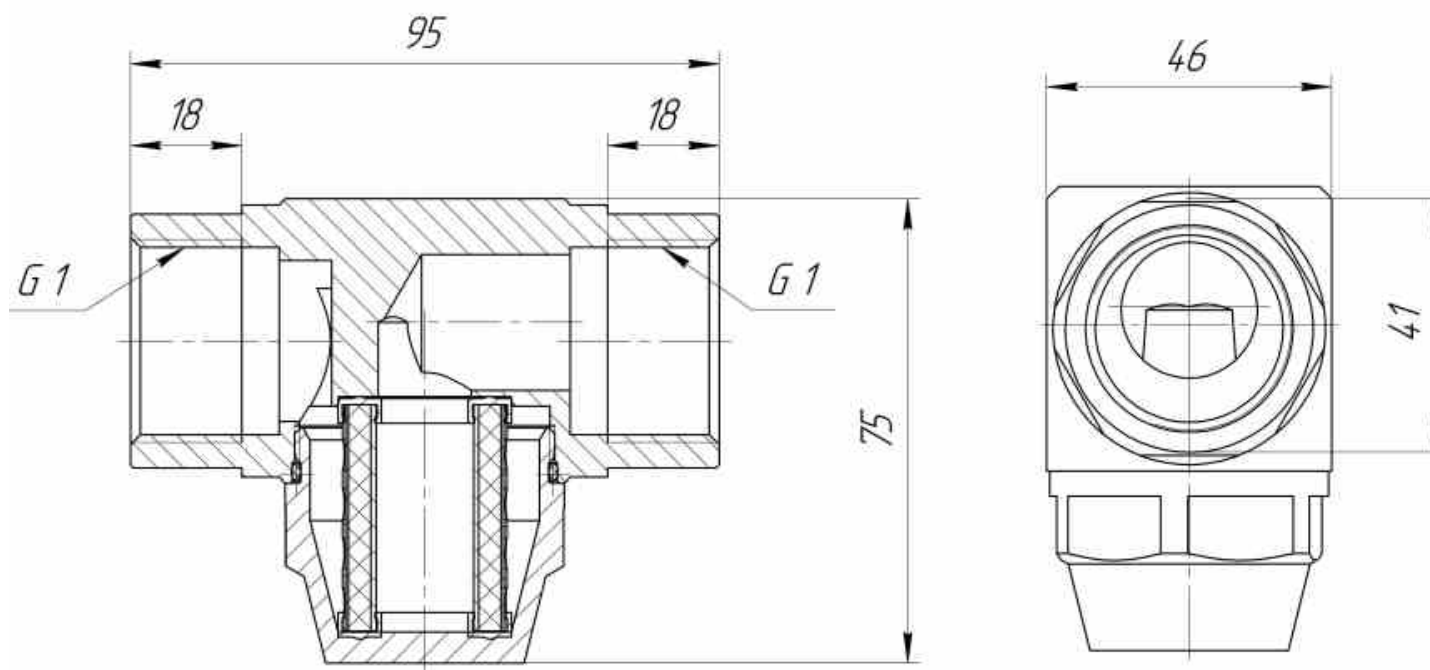


2.2.3.2 - F-120/ L

ФВ 15/10/00
ТУ 3184-001-53711114-2010
Масса: 0,8 кг

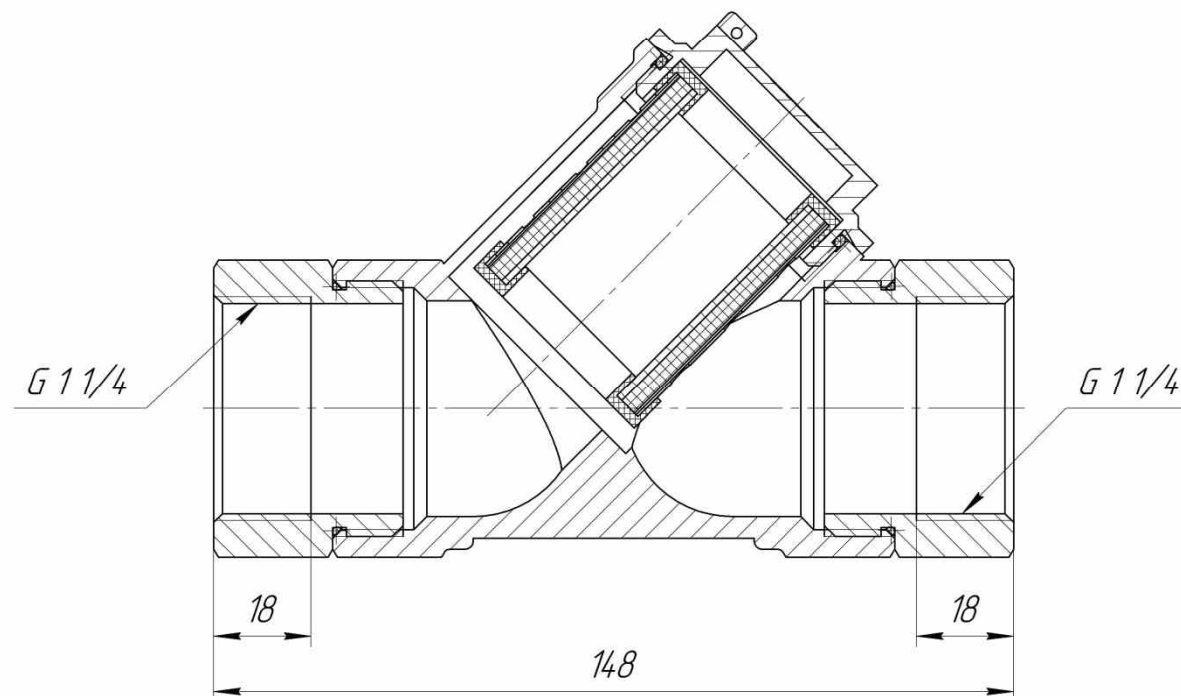
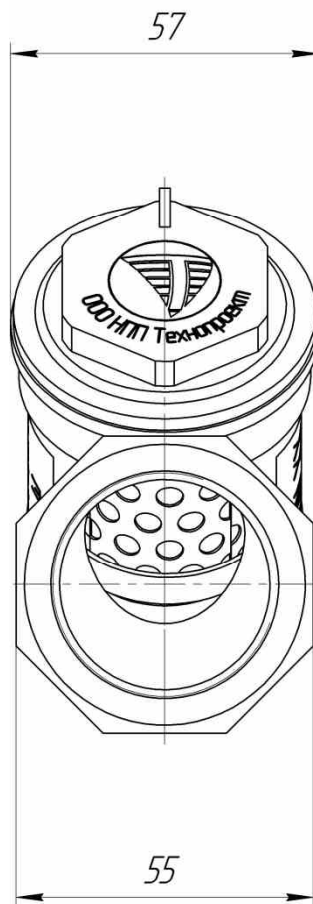


ФВ 25/10/01
 ТУ 3184-001-53711114-2010
 Масса: 0,97 кг



2.2.3.4 - 25/10/01

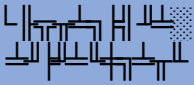
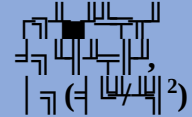
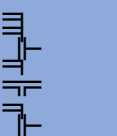
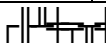
ФВ 32/10/00
 ТУ 3184-001-53711114-2010
 Масса: 1,4 кг

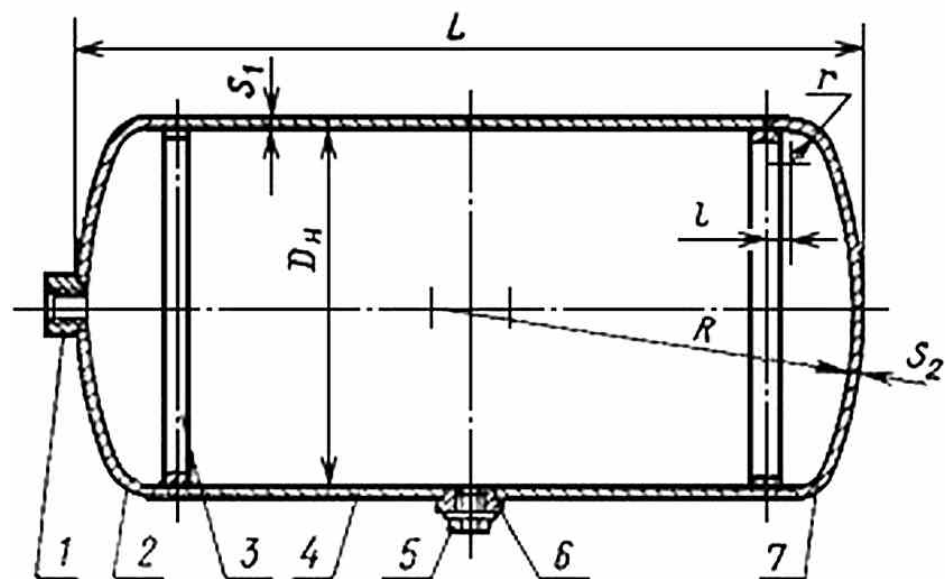


2.2.3.5 - 32/10/100

2.2.4

2.2.4.1 1561-75

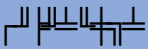
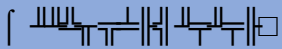
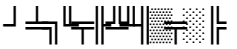
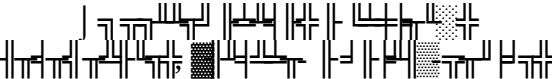
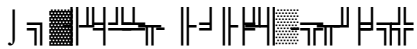
|  |  |  |  | | | | | | |  | | | | | |
|---|---|---|---|----------------|-----|-------|-------|---|-----|---|---|--|----------------|---------------|------------------|
| | | | L | $D_{\text{ф}}$ | R | S_1 | S_2 | r | l |  |  | | | | |
| | | | | | | | |  | | | | | | | |
| 7-8 | 0,7 (7) | 8 | 210 | 250 | 300 | 2,5 | 3,0 | 0,1R | 16 | $\frac{1}{2}$ | $\frac{3}{4}$ | | | | |
| 7-12 | | 12 | 300 | | | | | | | | $\frac{1}{2}$ | | | | |
| 7-24 | | 24 | 550 | | | | | | | | $1; \frac{3}{4}$ | | | | |
| 7-38 | | 38 | 605 | 300 | | | | | | | 3,0 | 0,1R | 16 | $\frac{1}{2}$ | $\frac{3}{4}$ |
| 7-55 | | 55 | 860 | | | | | | | | | | | | $1; \frac{3}{4}$ |
| 7-78 | | 78 | 1210 | | | | | | | | | | | | $\frac{3}{4}$ |
| 7-100 | | 100 | 1510 | | | | | | | | | | | | |
| 7-110 | | 110 | 1653 | | | | | | | | | | | | |
| 7-135 | | | 135 | 1180 | | | | | | | 400 | | | | |
| 10-9 | 1,0 (10) | 9,5 | 234 | 250 | 400 | 3,9 | 3,9 | 0,1R | 24 | $\frac{3}{4}$ | $\frac{1}{2}$ | | | | |
| 10-20 | | 20 | 475 | | | | | | | | $\frac{3}{8}$ | | | | |
| 10-55 | | 55 | 860 | 303 | | | | | | | $\frac{3}{4}$ | | | | |
| 10-100 | | 100 | 1050 | 358 | | | | | | | $\frac{3}{4}$ | | | | |
| 10-170 | | 170 | 1362 | 416 | | 4,0 | 5,0 | | 24 | | $\frac{3}{4}$ | $1\frac{1}{4}; \frac{3}{4}; \frac{1}{2}$ | | | |
| 10-300 | | 300 | 1172 | 610 | | 502 | 5,0 | | 6,0 | | 50 | $\frac{1}{2}; 1$ | $1\frac{1}{4}$ | | |
|  2.2.3.1 | | | | | | | | | | | | | | | |



2.2.4.1

2.2.4.2

| ♂ 295-001 | (6) 270-002. 270-005-1 (4.5) | |
|-----------|------------------------------|--|

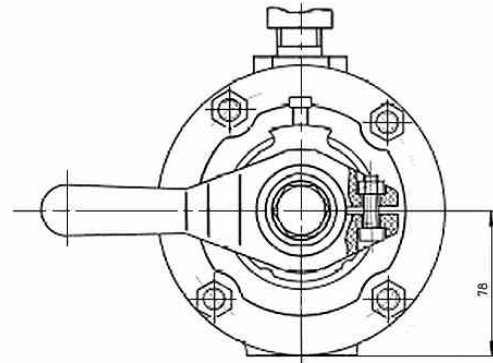
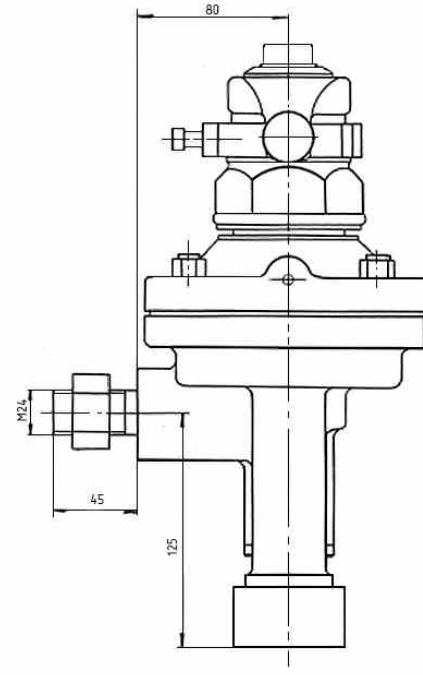
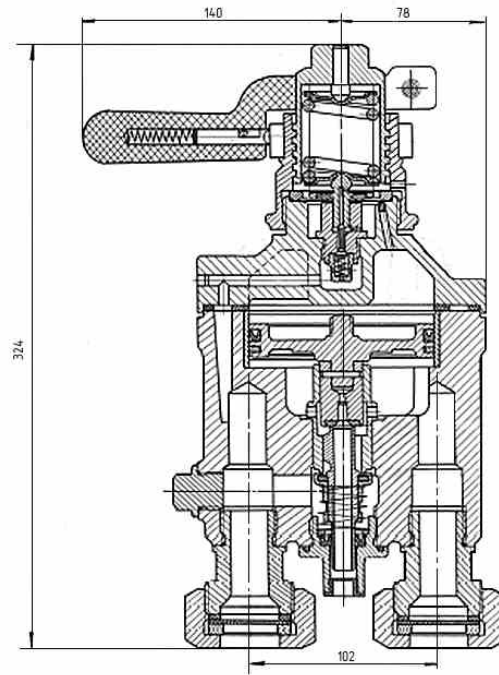
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|---|--|---|
|  |  |  |
|  |  |  |
|  |  |  |

2.3.1.2.

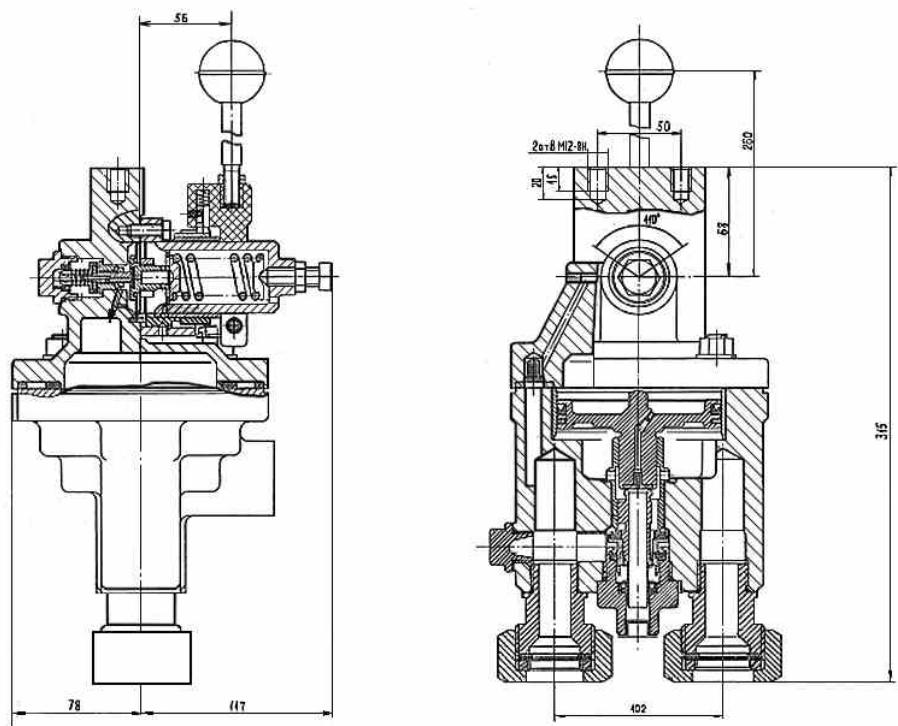
| 334, 394 395 | 326 | 013 | 130 230f , 345 347 |
|-----------------|-----|-----|--------------------------|

2.3.1.3.

| | 324 220 203 | 324 220 203 | 315 195 180 |
|--|---------------|----------------|---------------|
| | 10 | 12 ()
10 () | 9 |
| | 3 | 3 | 3 |
| | - | - | - |
| | 0,7-0,9 | 0,7-0,9 | 1,0 |
| | - | - | 0,7 - 0,9 |
| | 0,5-0,52 | 0,5-0,52 | |



2.3.1.1 326

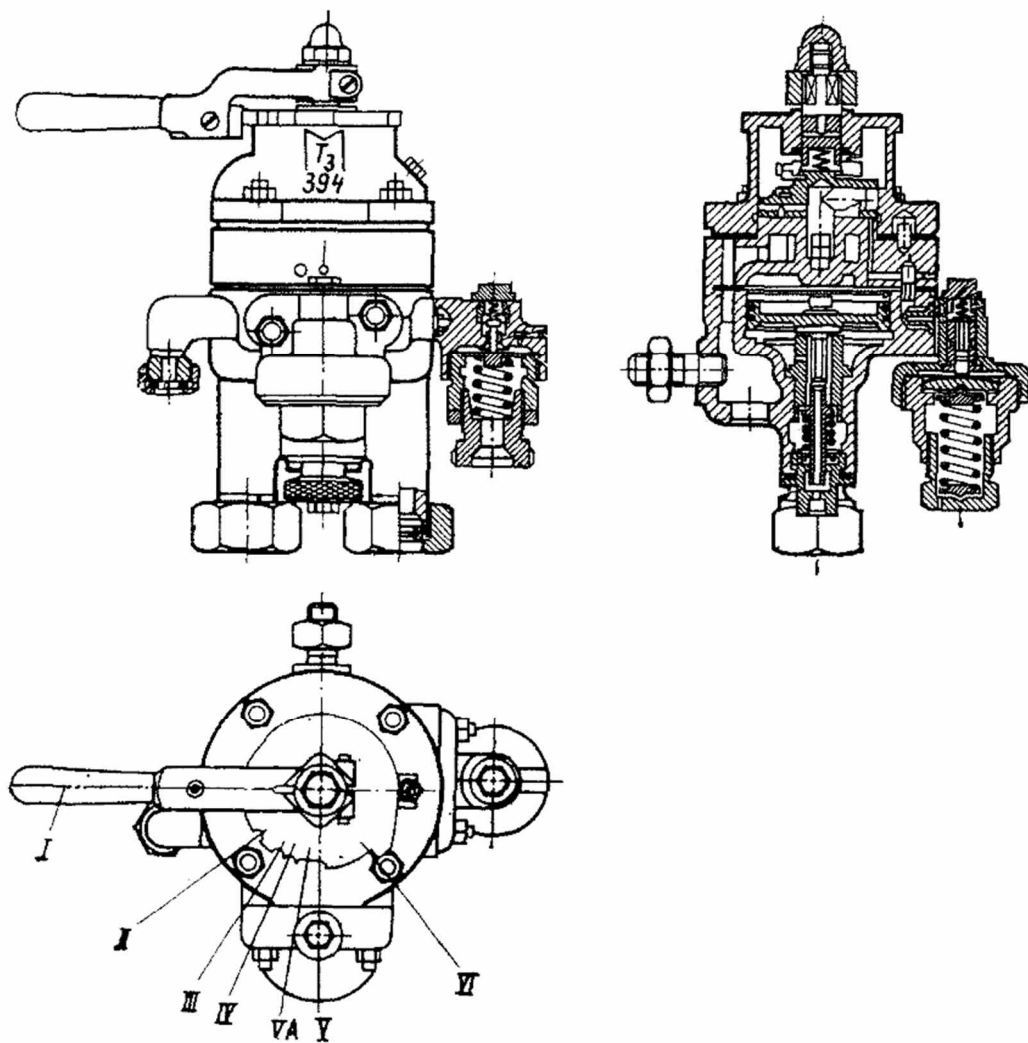


2.3.1.2 090

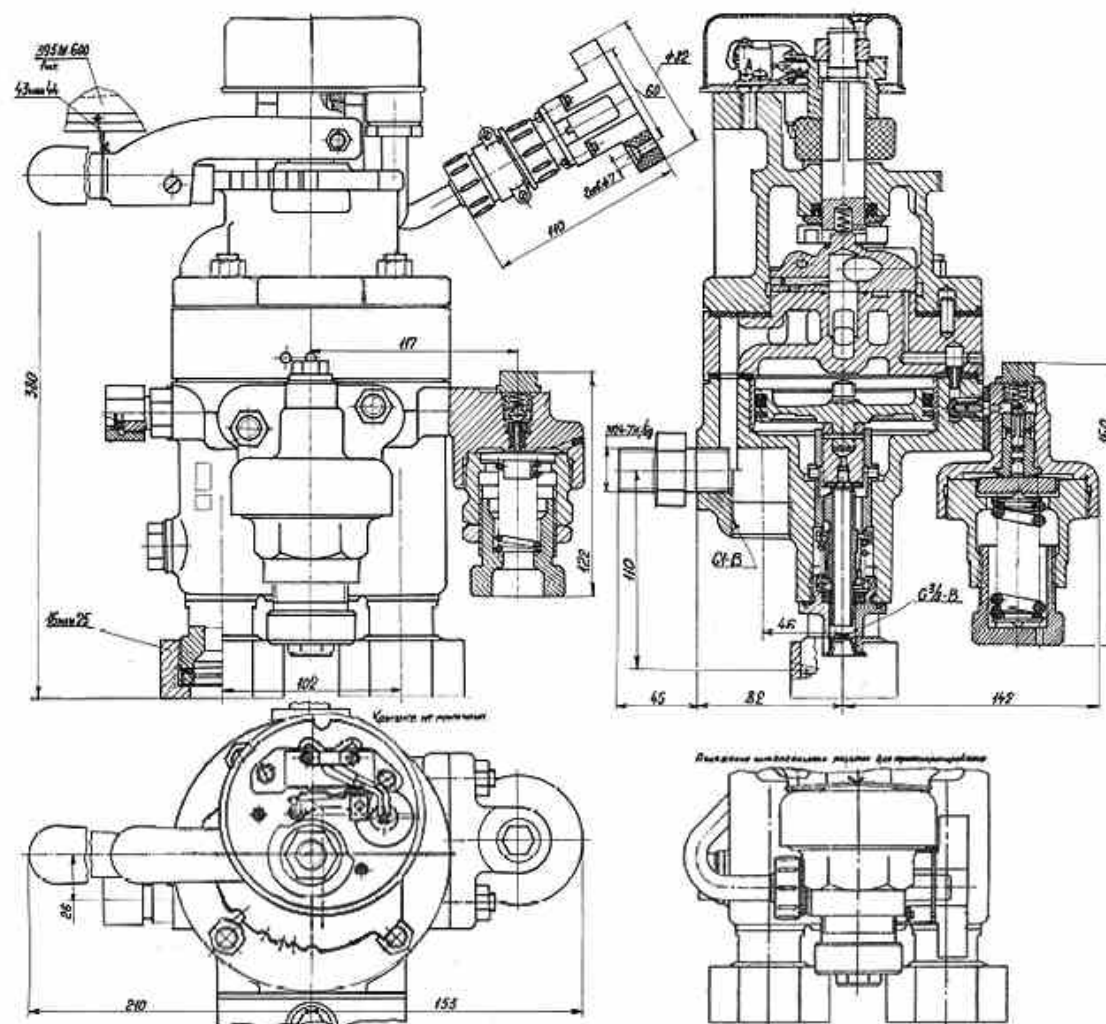
2.3.1.3.

353-1363-1269

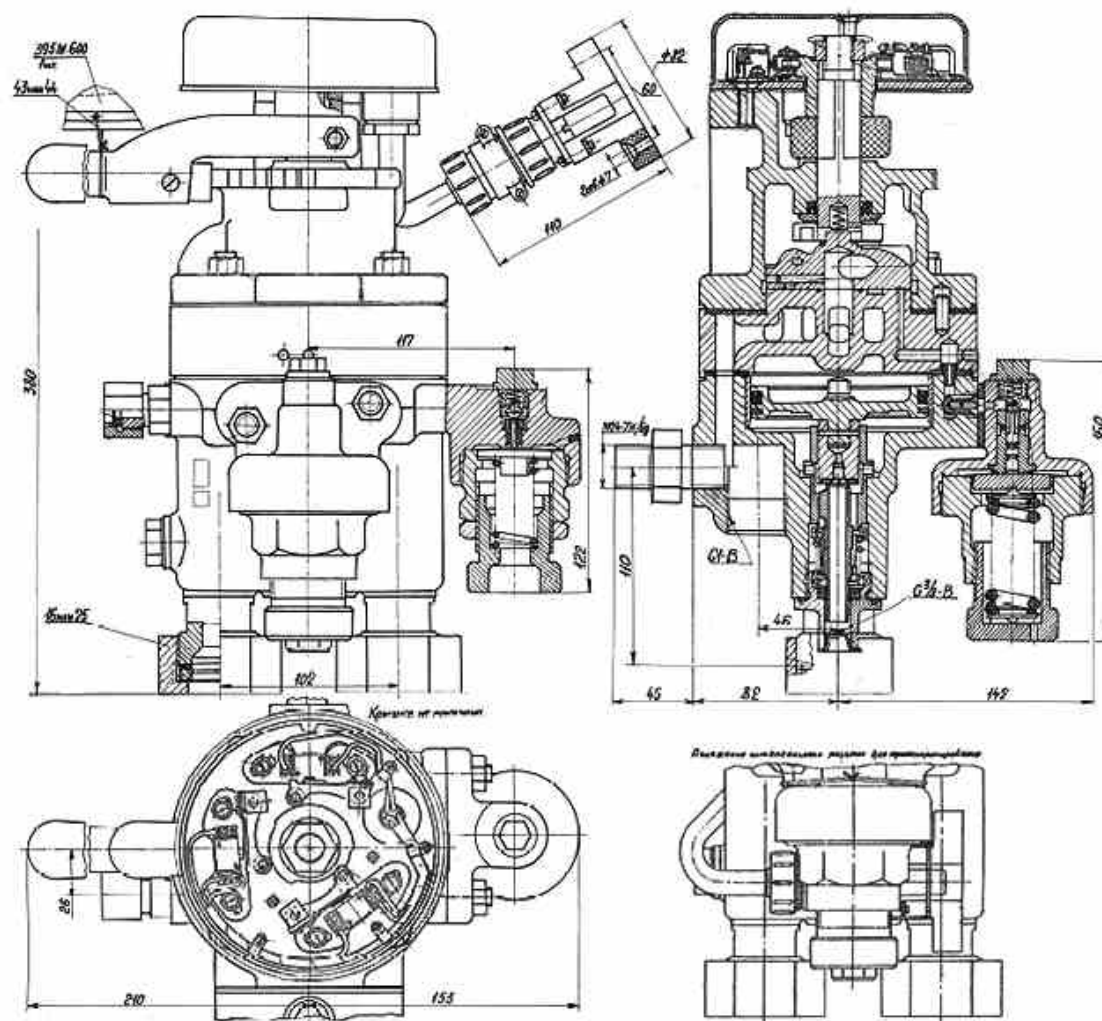
| <div> <div></div> <div></div> </div> | <div> <div></div> <div></div> </div> | | | | | | |
|--------------------------------------|--|--|--|--|--|--|--|
| | <div> <div></div> <div>394</div> </div> | <div> <div></div> <div>395 -3</div> </div> | <div> <div></div> <div>395 -4-2</div> </div> | <div> <div></div> <div>395 -4-3-01</div> </div> | <div> <div></div> <div>395 -4-4</div> </div> | <div> <div></div> <div>395 -5</div> </div> | <div> <div></div> <div>395 -6</div> </div> |
| <div> <div></div> <div></div> </div> | | | | | | | |
| <div> <div></div> <div></div> </div> | 0,54 ^{+0.01} | 0,54 ^{+0.01} | 0,54 ^{+0.01} | 0,54 ^{+0.01} | 0,54 ^{+0.01} | 0,54 ^{+0.01} | 0,54 ^{+0.01} |
| <div> <div></div> <div></div> </div> | 0,74-0,88 | 0,74-0,88 | 0,74-0,88 | 0,74-0,88 | 0,74-0,88 | 0,74-0,88 | 0,74-0,88 |
| <div> <div></div> <div></div> </div> | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| <div> <div></div> <div></div> </div> | <div> <div></div> <div>+60</div> <div>-55</div> </div> | <div> <div></div> <div>+60</div> <div>-55</div> </div> | <div> <div></div> <div>+60</div> <div>-55</div> </div> | <div> <div></div> <div>+60</div> <div>-55</div> </div> | <div> <div></div> <div>+60</div> <div>-55</div> </div> | <div> <div></div> <div>+60</div> <div>-55</div> </div> | <div> <div></div> <div>+60</div> <div>-55</div> </div> |
| <div> <div></div> <div></div> </div> | <div> <div></div> <div>2.3.1.3</div> </div> | <div> <div></div> <div>2.3.1.4</div> </div> | <div> <div></div> <div>2.3.1.5</div> </div> | | | <div> <div></div> <div>2.3.1.6</div> </div> | <div> <div></div> <div>2.3.1.7</div> </div> |



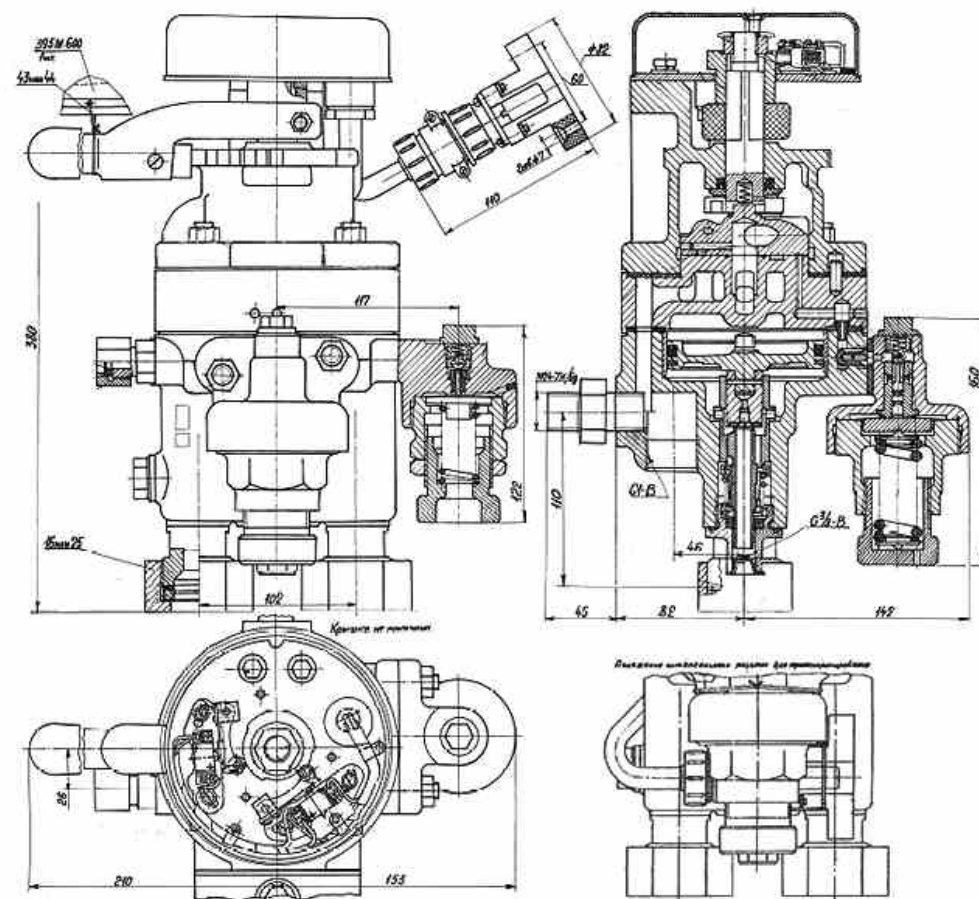
2.3.1.3 - 394



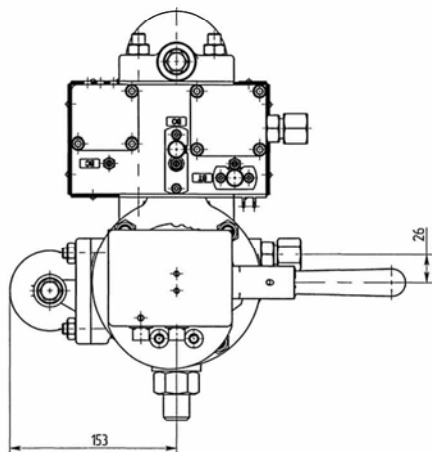
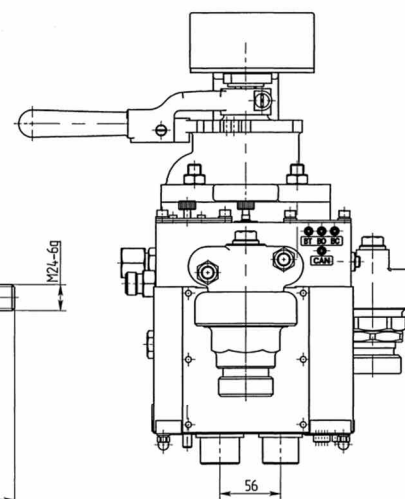
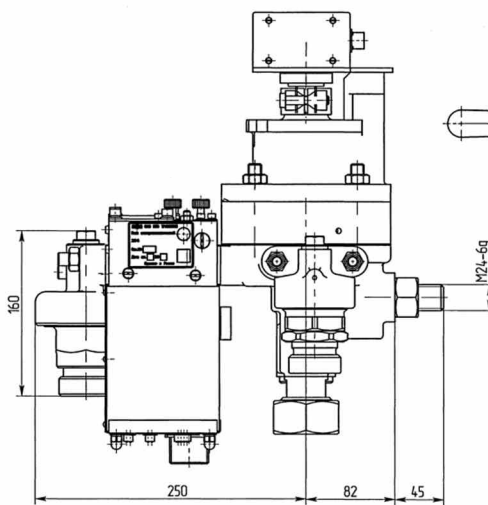
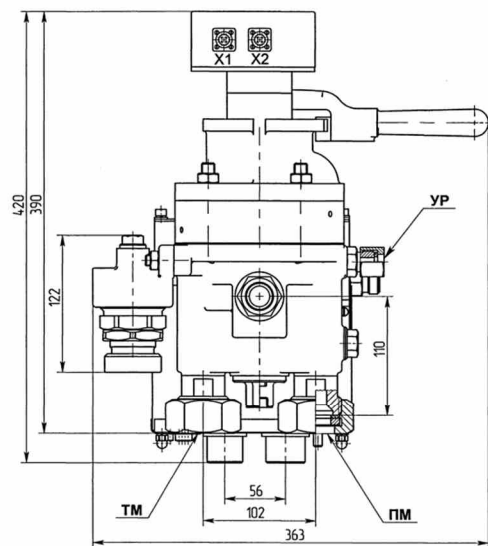
2.3.1.4 - 395 -3



2.3.1.5 - 395 -4



2.3.1.6 - 395 -5

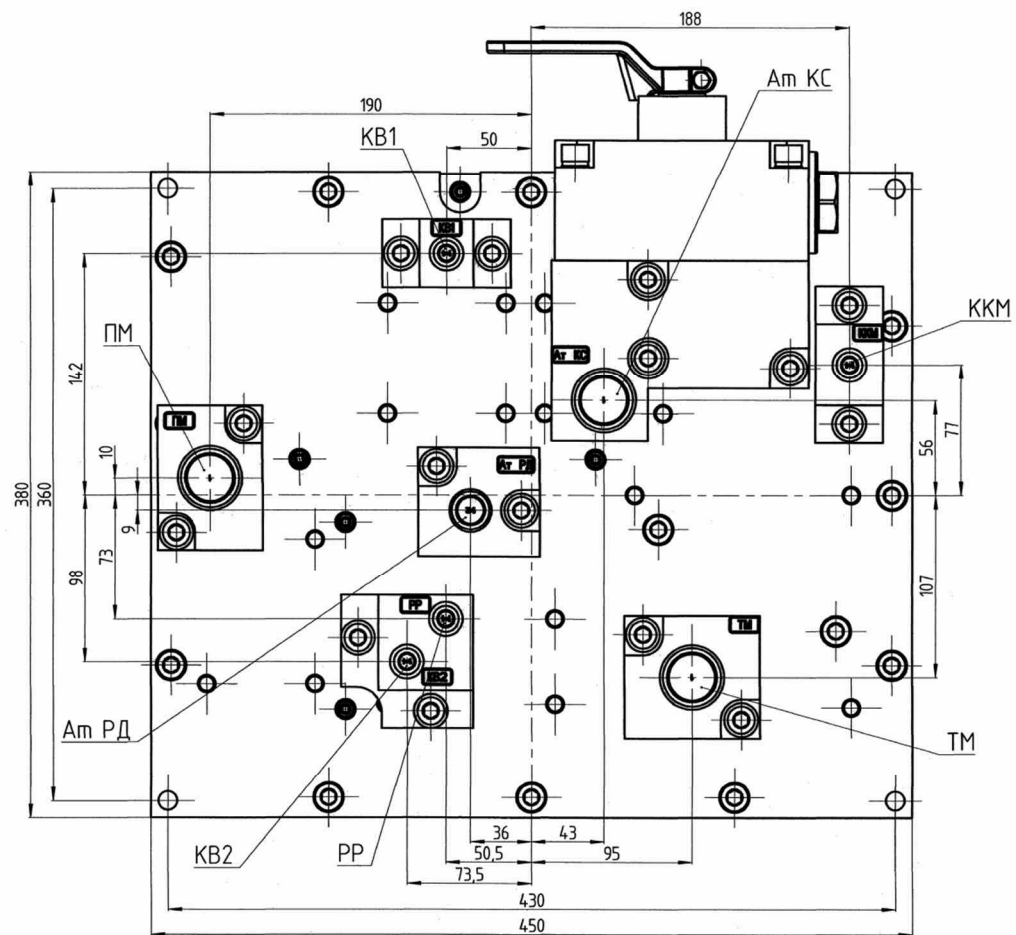


2.3.1.7 395 -6

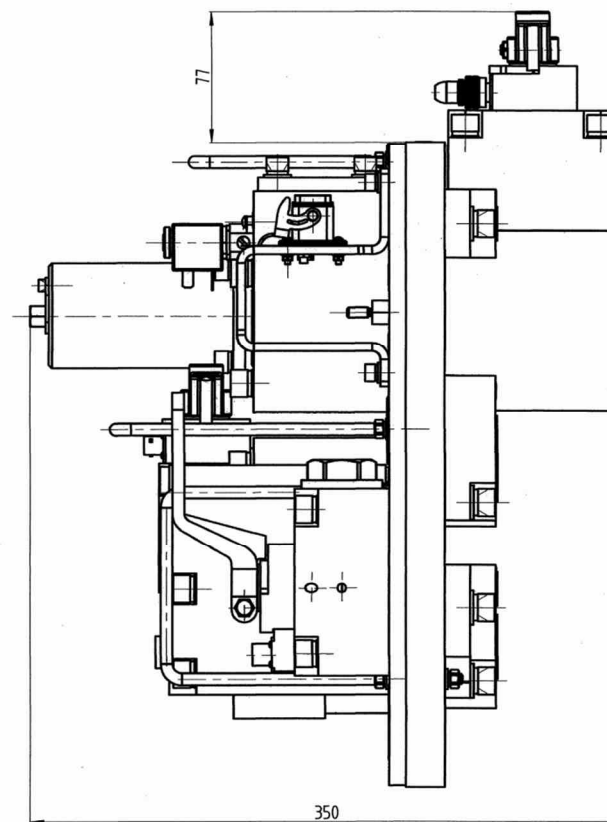
2.3.1.4.

[illegible]

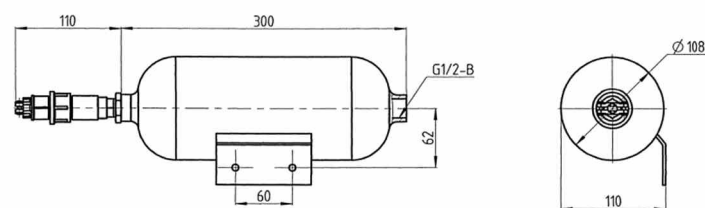
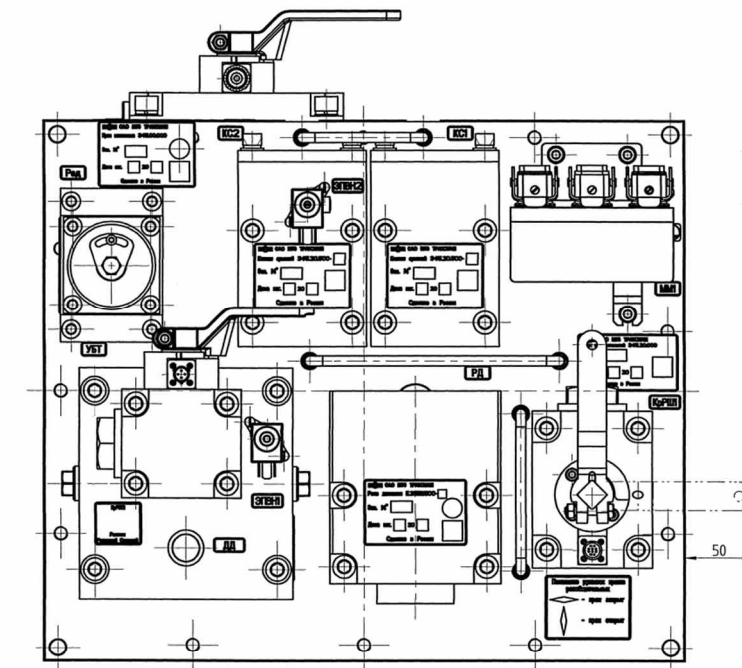
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|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|
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| | | | | <div> <div></div> <div></div> </div> |
| | | | | <div> <div></div> <div></div> </div> |
| | | | | <div> <div></div> <div></div> </div> |
| | | | | <div> <div></div> <div></div> </div> |
| <div> <div></div> <div></div> </div> | 51 | 86,0 | 73,1 | 21 |
| <div> <div></div> <div></div> </div> | 3 | | - | - |
| <div> <div></div> <div></div> </div> | | | 2,82 | 2,8 |
| <div> <div></div> <div></div> </div> | | | 1,2 | 1,2 |
| <div> <div></div> <div></div> </div> | | | 130.20-1: 2,3 | |
| | | | 025√ : 3,6 | 025√ : 3,6 |
| <div> <div></div> <div></div> </div> | 1,0 | 1,0 | 1,0 | 1,0 |
| <div> <div></div> <div></div> </div> | 0,83 - 0,98 | | | 0,75-0,90 |
| <div> <div></div> <div></div> </div> | 0,50±0,1 | 0,73 - 0,92 | | 0,54±0,1 |
| <div> <div></div> <div></div> </div> | | | 0,45 - 0,62 | |
| <div> <div></div> <div></div> </div> | 20 | 15 | 15 | 15 |
| <div> <div></div> <div></div> </div> | | | | |
| <div> <div></div> <div></div> </div> | 110(25±35)% | | | |
| <div> <div></div> <div></div> </div> | <div> <div></div> <div></div> </div> | <div> <div></div> <div></div> </div> | <div> <div></div> <div></div> </div> | <div> <div></div> <div></div> </div> |



A(2)



2.3.1.8 - 345



2.3.1.9 - 345

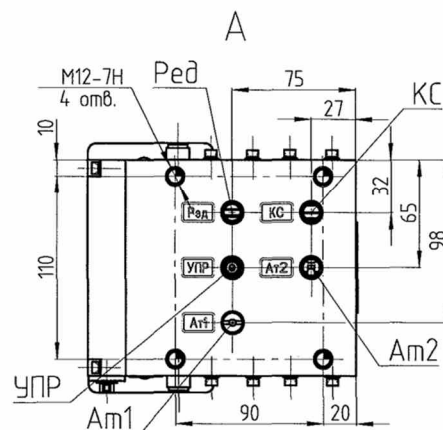
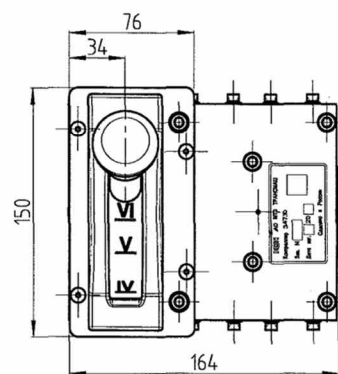
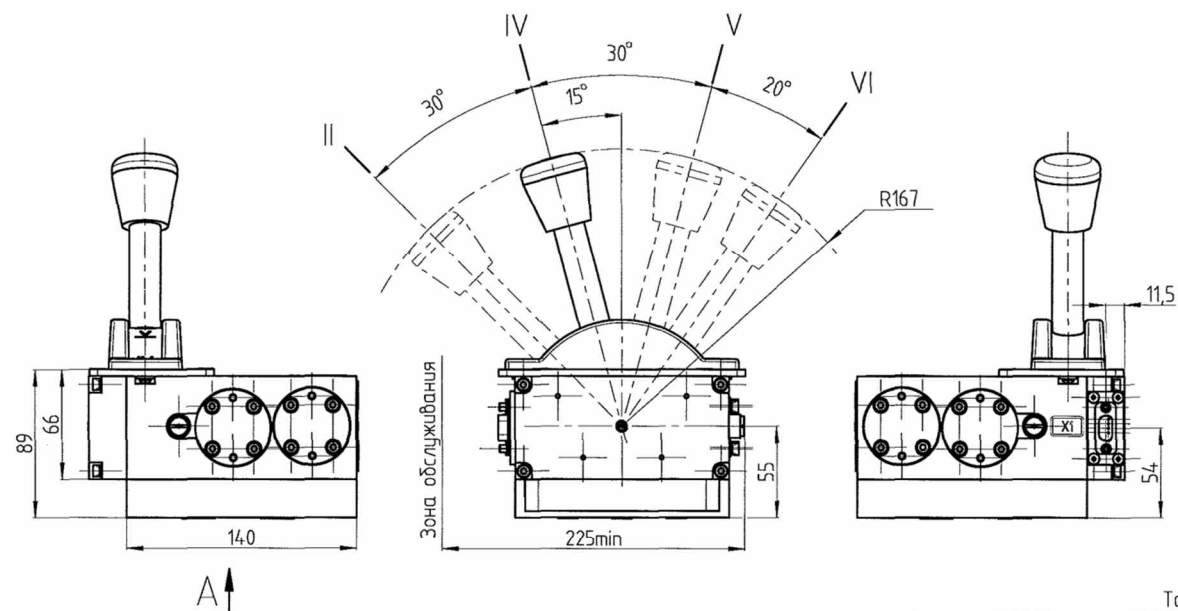
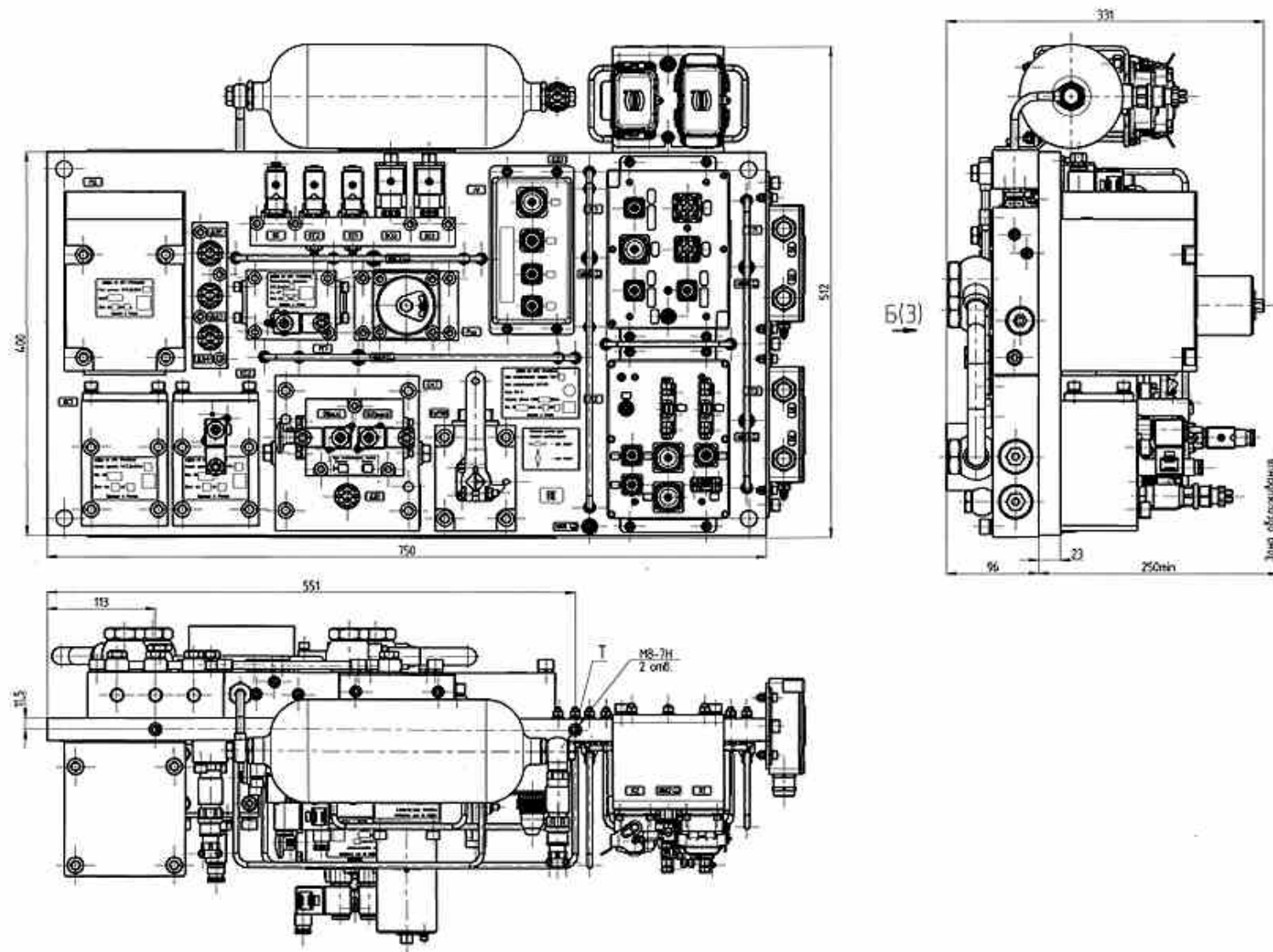


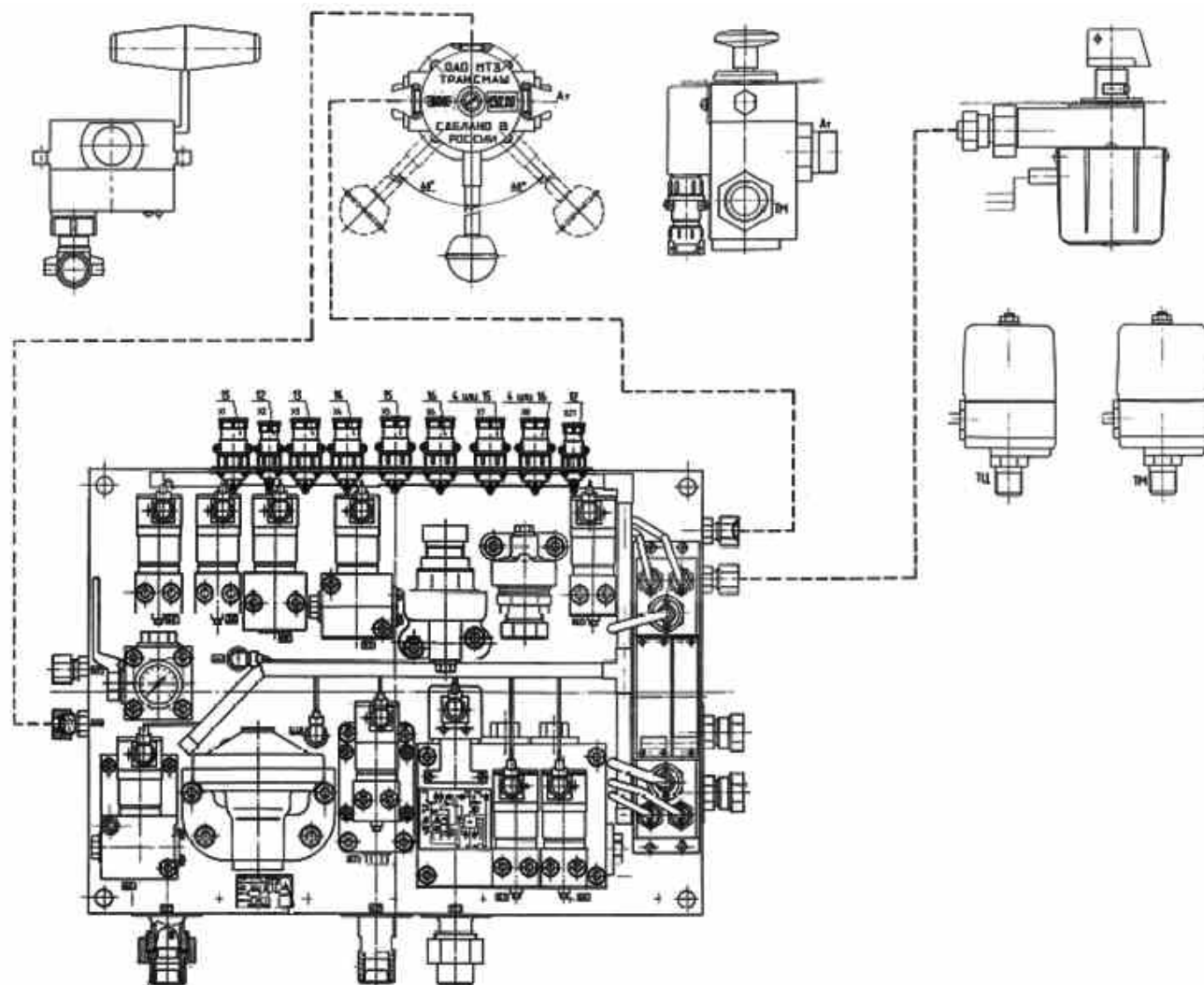
Таблица 1

| Положение рукоятки контроллера | |
|--------------------------------|-----------------------|
| II | Поездное (отпуск) |
| IV | Перекрыша с питанием |
| V | Служебное торможение |
| VI | Экстренное торможение |

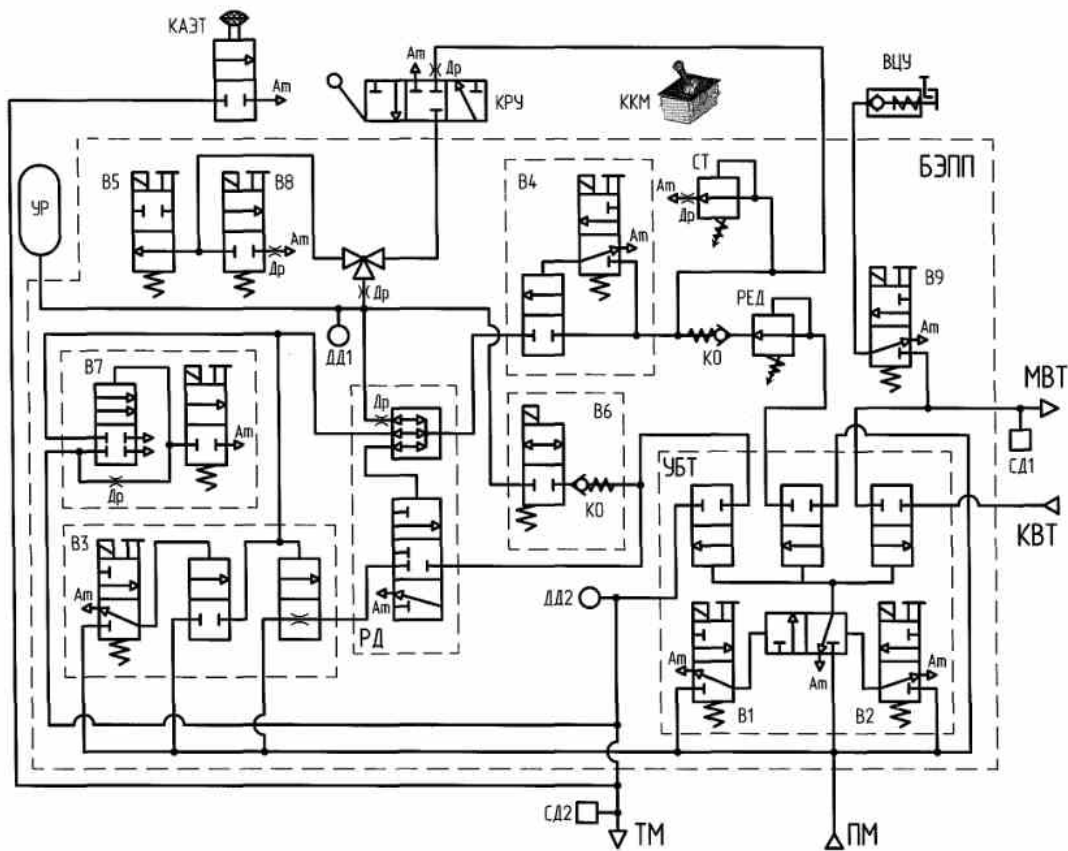
2.3.1.10 - 347



2.3.1.11 - 347



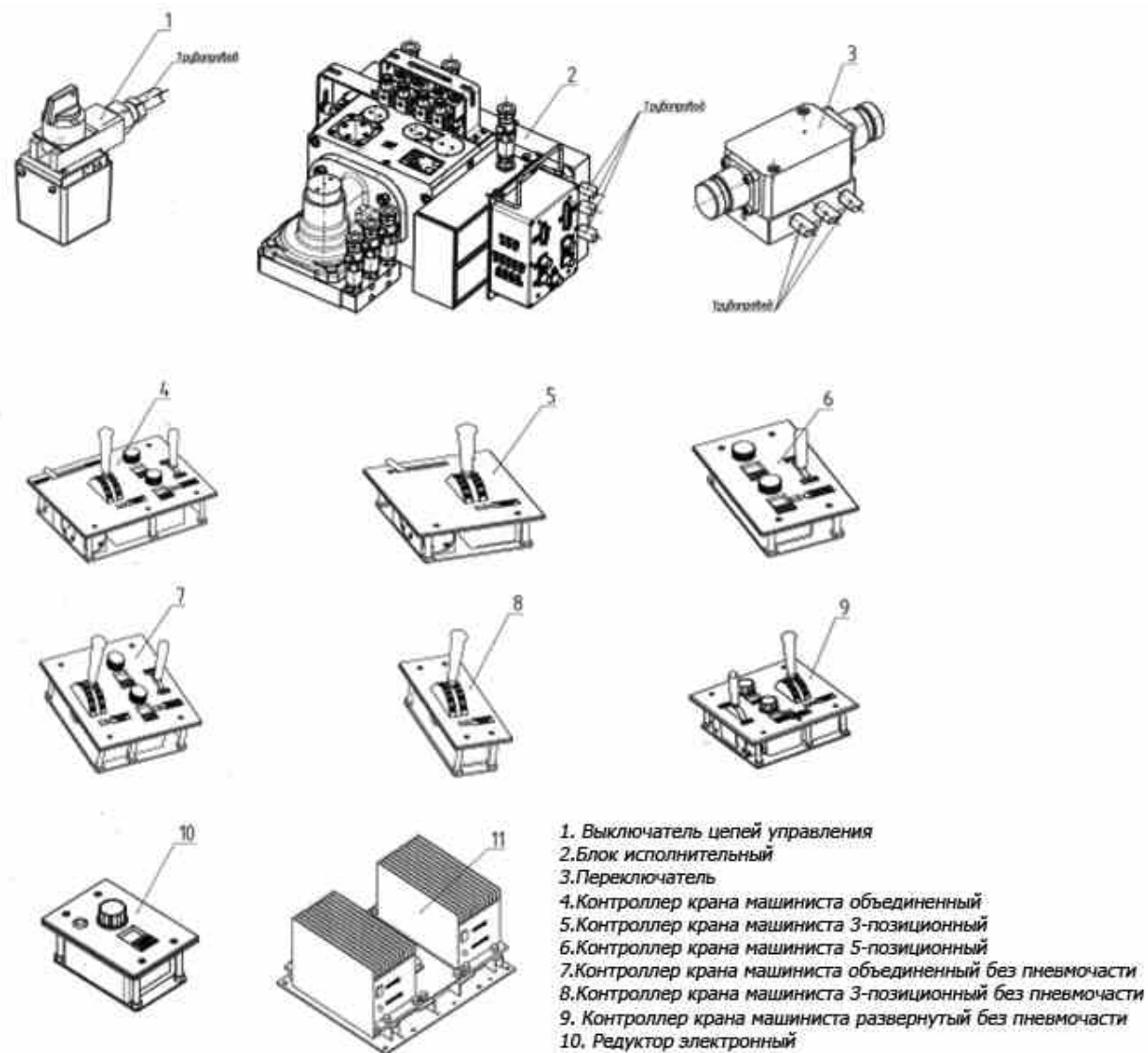
2.3.1.12 - 130



2.3.1.8 130

БЭПП - блок электропневматических приборов
 В1...В9 - вентиль электропневматический
 ВЦУ - выключатель цепей управления
 ДД1, ДД2 - датчик давления
 Др - дроссель
 КАЭТ - клапан аварийного экстренного торможения
 ККМ - контроллер крана машиниста
 КО - клапан обратный
 КРУ - кран резервного управления
 РД - реле давления
 РЕД - редуктор
 СТ - стабилизатор
 СД1, СД2 - сигнализатор давления
 УБТ - устройство блокировки тормозов
 УР - уравнительный резервуар

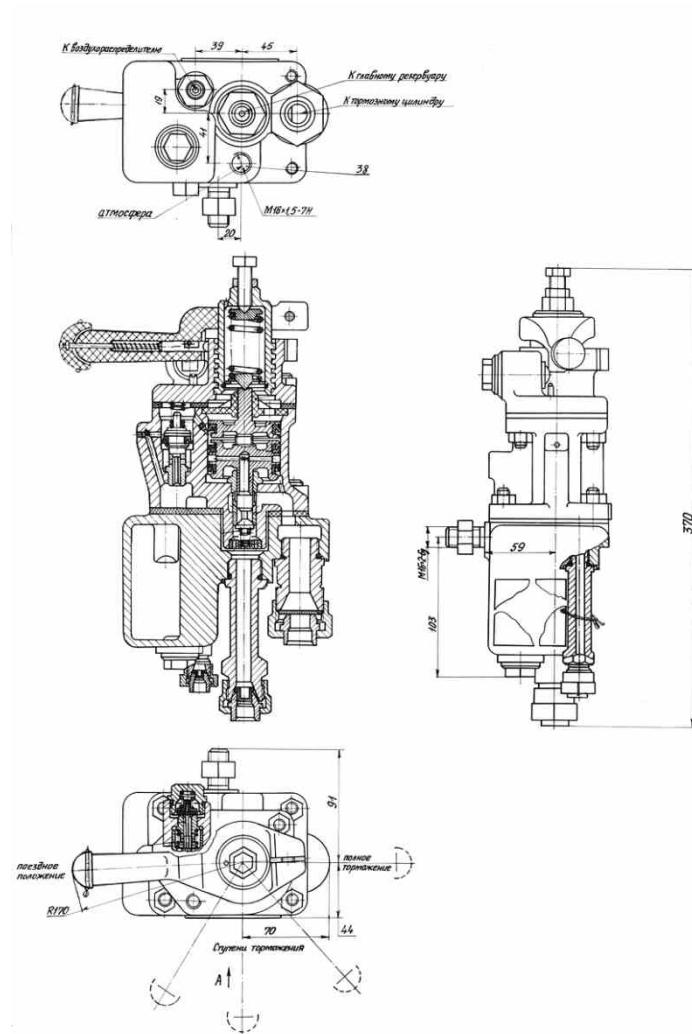
Ат - атмосфера
 ПМ - питательная магистраль
 ТМ - тормозная магистраль
 ТЦ - тормозной цилиндр
 КВТ - кран вспомогательного тормоза
 МВТ - магистраль вспомогательного тормоза



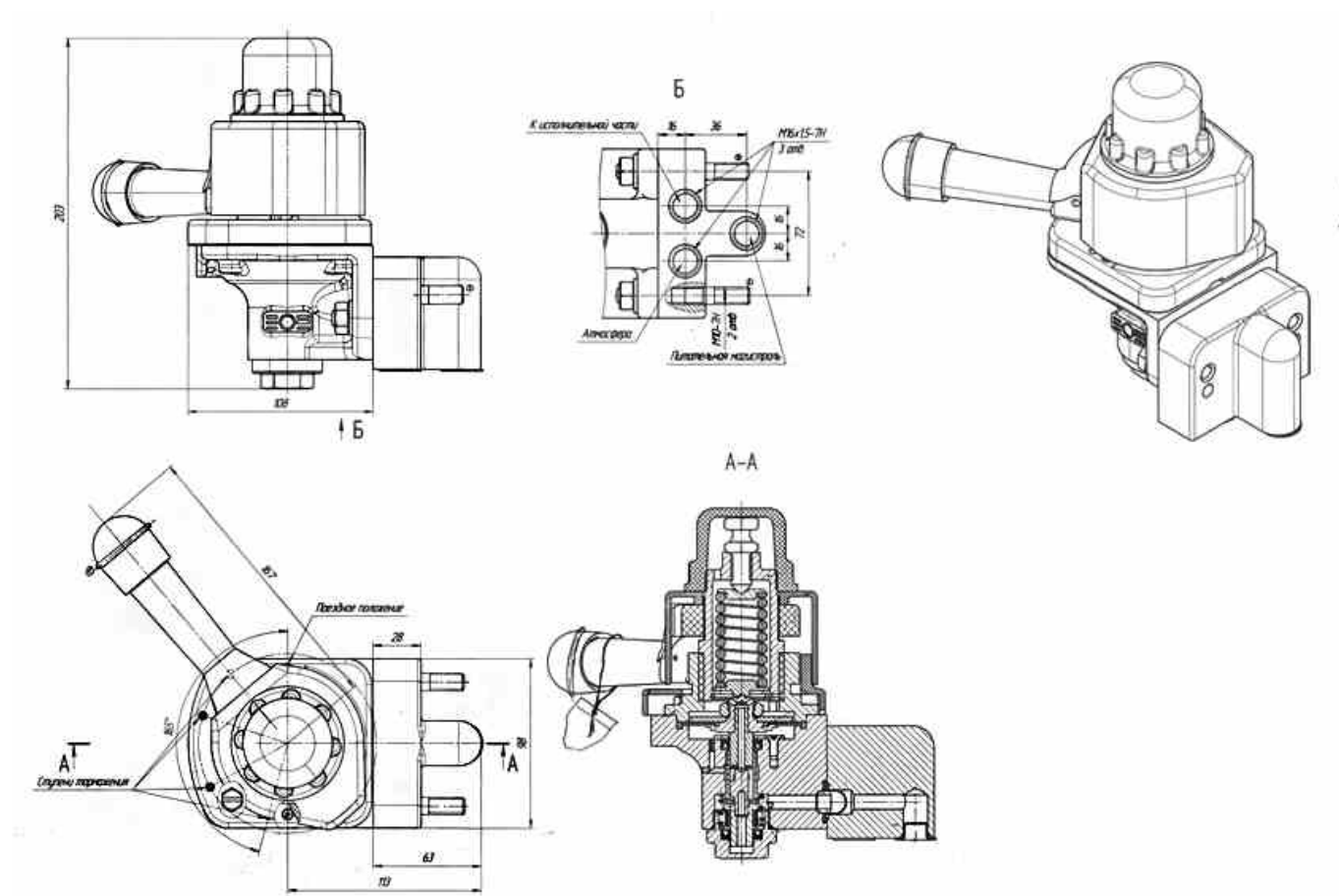
2.3.1.10 230

2.3.2 $\triangle$

[illegible]



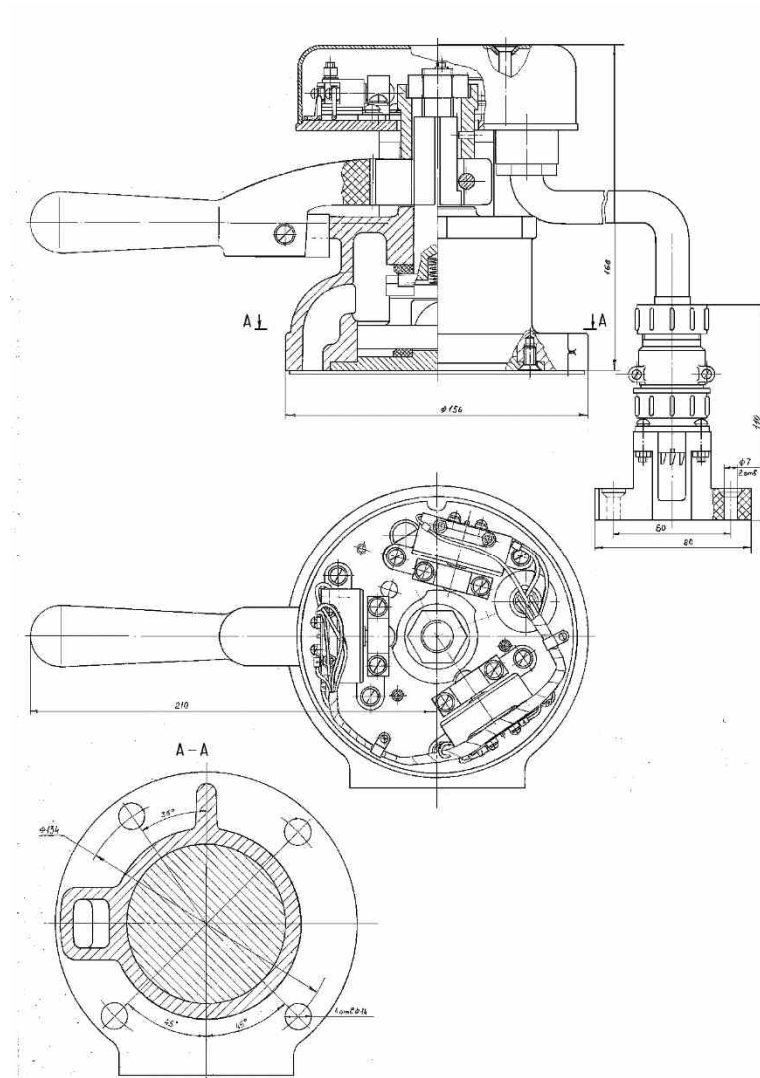
2.3.2.1 254



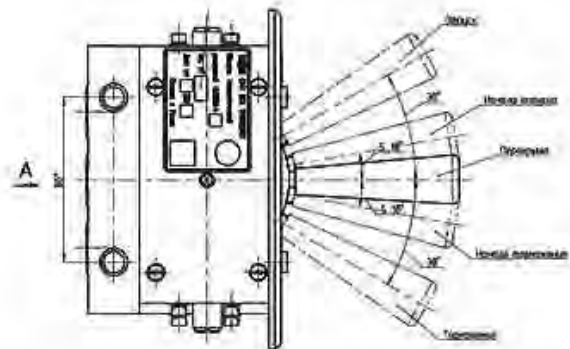
2.3.2.2 215-1

2.3.3 ስራው ለሕዝብ ጥቅም ሲሆን

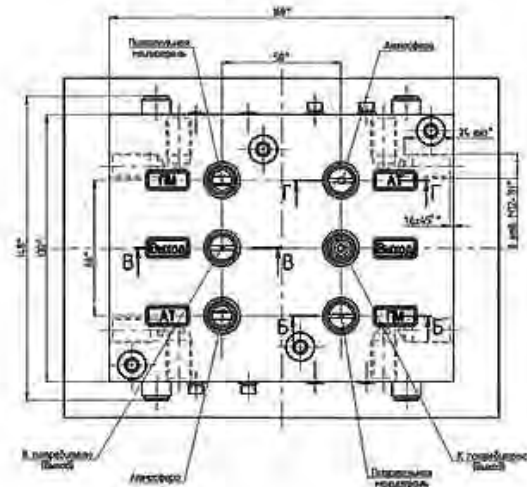
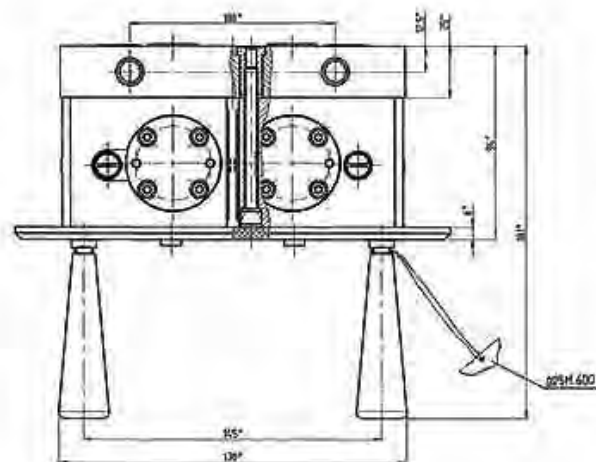
| የሕግ አጠቃላይ | የሕግ አጠቃላይ | | |
|-----------|--|--|--|
| | 205 ስራው ለሕዝብ ጥቅም ሲሆን | 395.370-1 ስራው ለሕዝብ ጥቅም ሲሆን | 396 ስራው ለሕዝብ ጥቅም ሲሆን |
| የሕግ አጠቃላይ | $\sqrt{-} \int \leq L \sqrt{\int} \int \sqrt{+}$ | $\sqrt{-} \int \leq L \sqrt{\int} \int \sqrt{+}$ | $\sqrt{-} \int \leq L \sqrt{\int} \int \sqrt{+}$ |
| የሕግ አጠቃላይ | 166፡156፡210 (205), 180፡156፡210 (205-01) | 129፡114፡68 | 240፡175፡215 |
| የሕግ አጠቃላይ | 8,5 | 2 | 5 |
| የሕግ አጠቃላይ | የሕግ አጠቃላይ | የሕግ አጠቃላይ | የሕግ አጠቃላይ |
| የሕግ አጠቃላይ | የሕግ አጠቃላይ | - | - |
| የሕግ አጠቃላይ | 75, 110 | 50 | 50±3 |
| የሕግ አጠቃላይ | ±60 | ፡፡+ 65 ፡፡- 55 | ፡፡+ 60 ፡፡- 55 |
| የሕግ አጠቃላይ | 0,3 (75 ሊ), 0,5 (110 ሊ) | 0,3 (75 ሊ), 0,5 (110 ሊ) | 0,3 (75 ሊ), 0,5 (110 ሊ) |
| የሕግ አጠቃላይ | 10 | 10 | 10 |
| የሕግ አጠቃላይ | 35 | 35 | 35 |
| የሕግ አጠቃላይ | 25 | 20 | 15 |
| የሕግ አጠቃላይ | የሕግ አጠቃላይ | የሕግ አጠቃላይ | የሕግ አጠቃላይ |
| የሕግ አጠቃላይ | 2.3.3.1 | - | - |



2.3.3.1 205



A
Проділ 403. В не-показачі

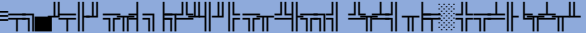
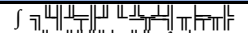
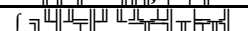
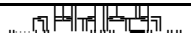
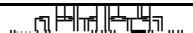
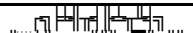
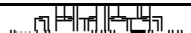
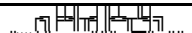
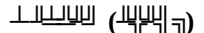
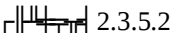


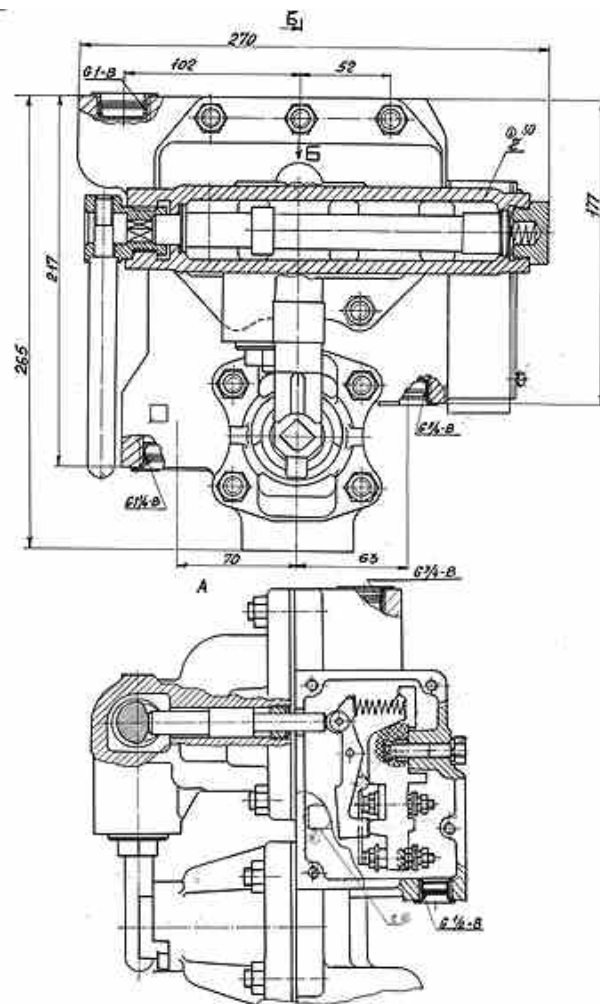
2.3.4.1 025

| החומר | החומר |
|-------|-------|
| החומר | החומר |
| החומר | החומר |
| החומר | החומר |

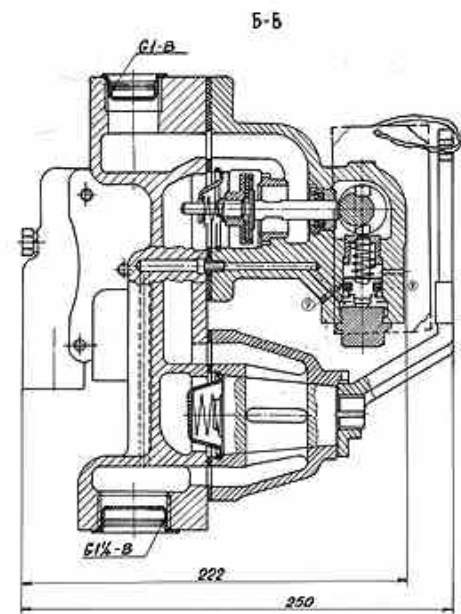
2.3.5.1

| החומר | החומר | | | | | |
|-------|-------------|-------------|--------------|-----------------|-----------------|-----------------|
| | 367√ | 367√-01 | 030 √.20.200 | 030 √.20.200-01 | 030 √.20.200-02 | 030 √.20.200-03 |
| החומר | √- | √- | √- | √- | √- | √- |
| החומר | 265-270-250 | 265-270-250 | 263-182-130 | 263-182-130 | 263-182-130 | 263-182-130 |
| החומר | 19 | 19 | 6,47 | 6,47 | 6,47 | 6,47 |
| החומר | | | 1,0 | 1,0 | 1,0 | 1,0 |
| החומר | 0,75 - 1,0 | 0,75 - 1,0 | 0,75 - 0,9 | 0,75 - 0,9 | 0,75 - 0,9 | 0,75 - 0,9 |
| החומר | | | 0,50 - 0,52 | 0,50 - 0,52 | 0,50 - 0,52 | 0,50 - 0,52 |
| החומר | 125 | 125 | 48 | 75 | 110 | 24 |
| החומר | | | 5±0,25 | 5±0,25 | 5±0,25 | 5±0,25 |
| החומר | ±60 | ±60 | ±60 ±55 | ±60 ±55 | ±60 ±55 | ±60 ±55 |
| החומר | | | 20 | 20 | 20 | 20 |
| החומר | | | | | | |
| החומר | 2.3.5.1 | | | | | |

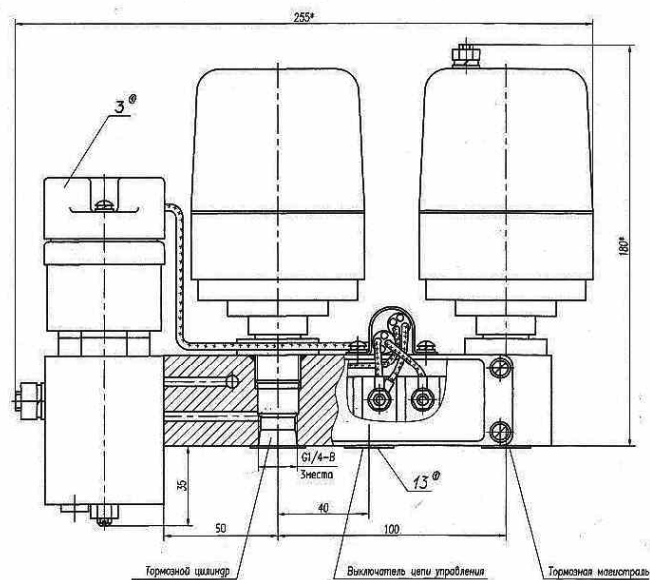
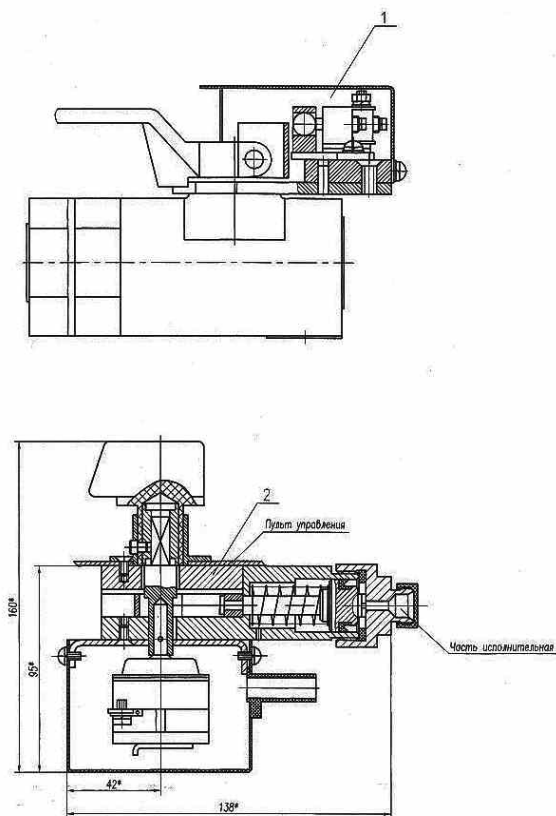
|  |  | | | | | |
|---|---|--|--|--|--|--|
| |  267-00 |  267-01 |  267-02 |  267-03 |  267-04 |  267-05 |
|  | 0,09 | 0,35 | 0,35 | 0,09 | 0,35 | 0,09 |
|  | 0,28 | 0,25 | 0,25 | 0,28 | 0,25 | 0,28 |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  2.3.5.2 | | | | | |



A



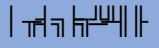
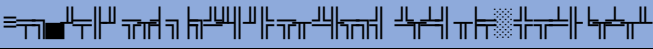
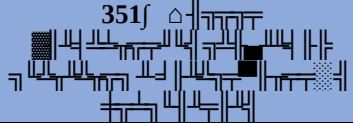
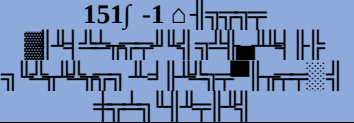
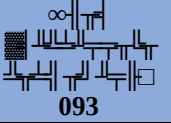
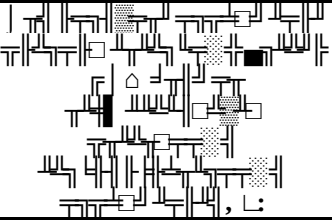
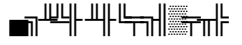
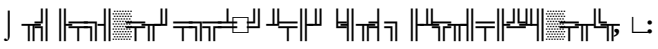
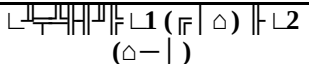
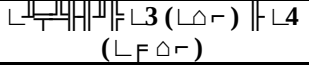
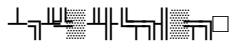
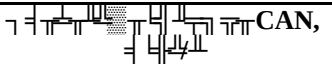
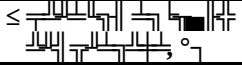
2.3.5.1 - 367

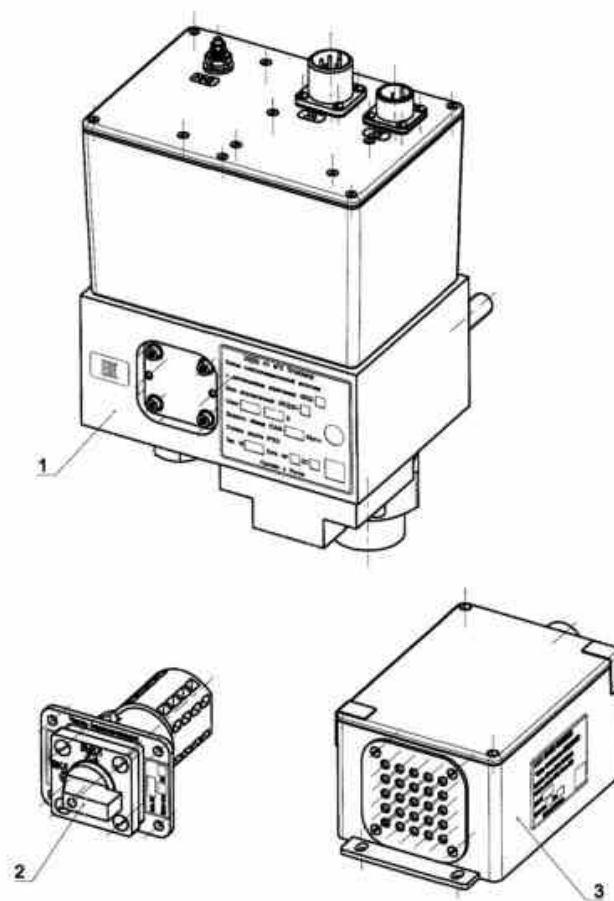


2.3.5.2 - 267

| | | |
|----------|-------------------|---|
| 3.3 | <p> </p> <p> </p> | 2 |
| <p> </p> | | |

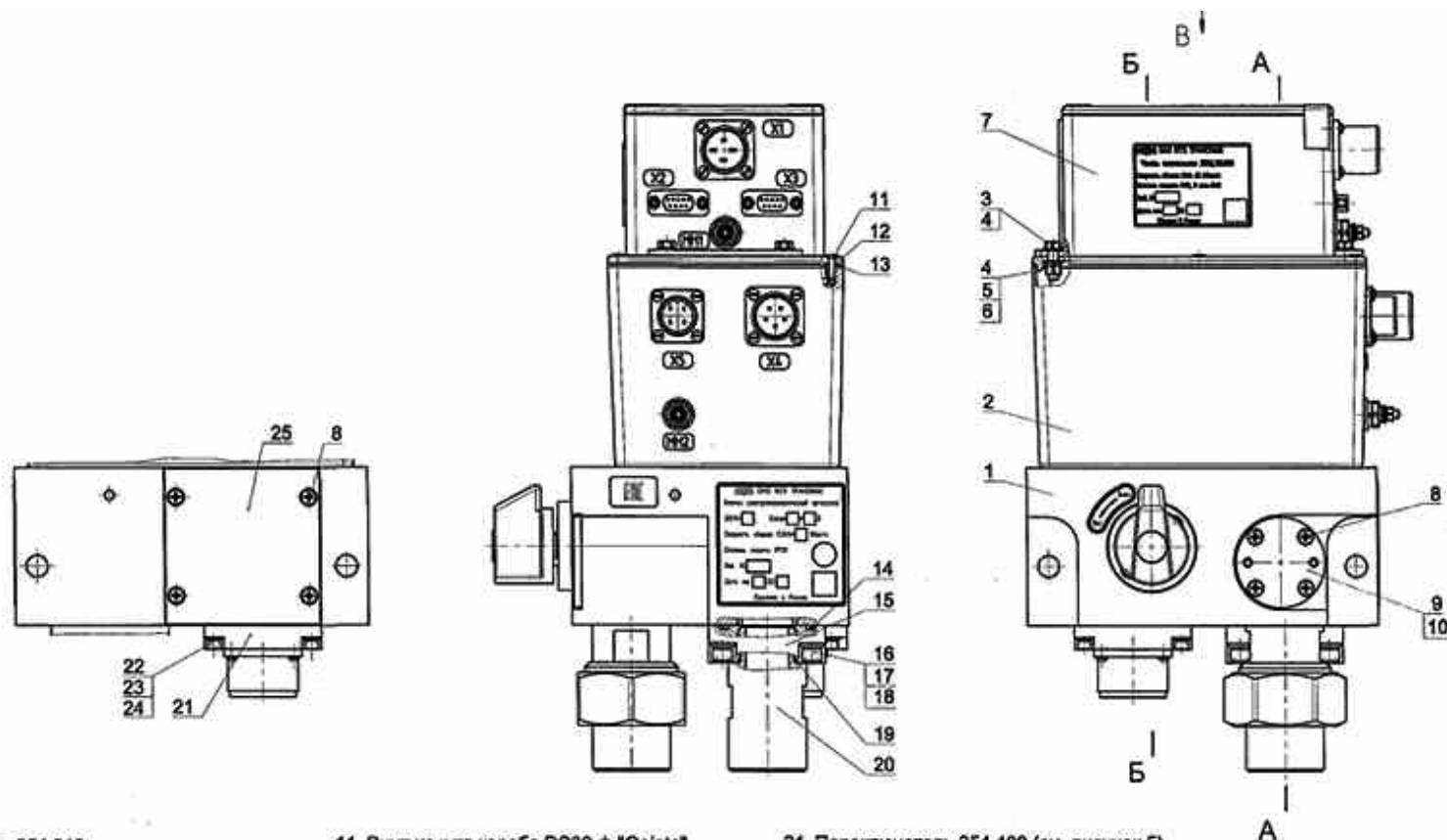
2.3.6.2

|  |  | | | |
|---|---|---|--|---|
| |  351 |  354 |  151 -1 |  093 |
|  | - | - | - | 110 |
|  | 24±1,2, 50±2,5, 110±5,5 | 24±1,2, 50±2,5, 110±5,5 | 50±2,5 | - |
|  | 24±1,2, 50±2,5, 110±5,5 | 24±1,2, 50±2,5, 110±5,5 | 50±2,5 | - |
|  | | | | |
|  L1 (F) L2 (F) | 24; 50; 110 | 24; 50; 110 | - | - |
|  L3 (L) L4 (L) | 24; 50; 110 | 24; 50; 110 | - | - |
|  | 24; 50; 110 | 24; 50; 110 | - | - |
|  CAN, | 25; 25; 125 | 25; 25; 125 | - | - |
|  | 24+ 60 - 55 | 24+ 60 - 55 | 24+ 60 - 55 | 24+ 60 - 55 |
|  | 20 | 20 | 20 | 20 |



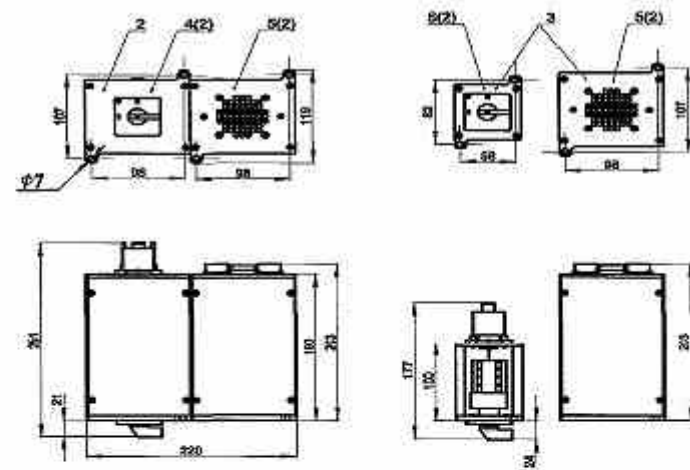
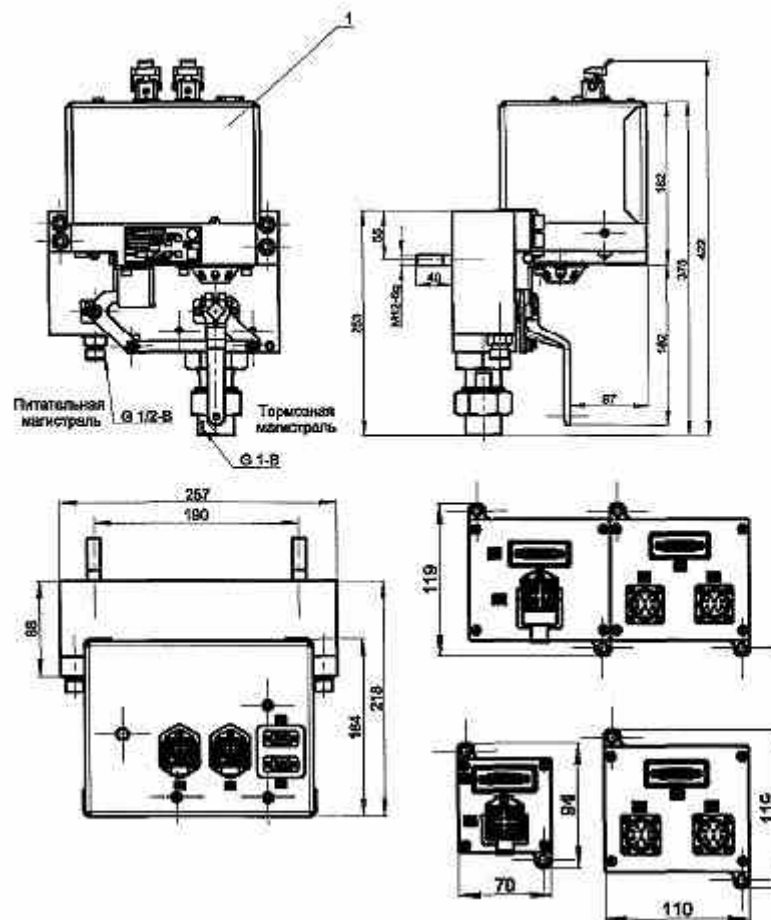
- 1 Блок исполнительный (см. таблицу 1)
- 2 Часть переключающая 351Д.20
- 3 Часть сигнальная (см. таблицу 1)

2.3.6.1



- | | | |
|--|---|--|
| 1 Корпус 354.010 | 11 Винт из к-та короба DS39 ф."Gainta" | 21 Переключатель 354.400 (см. рисунок 5) |
| 2 Часть электрическая (см. таблицу 3) | 12 Крышка 354.052 | 22 Винт М4-6gx14.58.019 ГОСТ Р ИСО 4762 |
| 3 Болт М5-6gx16.58.019 ГОСТ Р ИСО 4014 | 13 Прокладка из к-та короба DS39 ф."Gainta" | 23 Шайба 4 65Г 019 ГОСТ 6402 |
| 4 Шайба 5.01.10.019 ГОСТ 11371 | 14 Кольцо 045-050-30-2-3 ГОСТ 9833 | 24 Шайба 4.01.10.019 ГОСТ 11371 |
| 5 Шайба 5 65Г 019 ГОСТ 6402 | 15 Переходник 354.013 | 25 Крышка 354.002 |
| 6 Гайка М5-8Н.5.019 ГОСТ 5915 | 16 Винт М6-6gx20.58.019 ГОСТ Р ИСО 4762 | |
| 7 Часть сигнальная (см. таблицу 3) | 17 Шайба 6 65Г 019 ГОСТ 6402 | |
| 8 Винт М4-6gx10.58.019 ГОСТ 7046-1 | 18 Шайба 6.01.10.019 ГОСТ 11371 | |
| 9 Крышка 351Д.10.007 | 19 Кольцо 028-033-30-2-3 ГОСТ 9833 | |
| 10 Кольцо 021-025-25-2-3 ГОСТ 9833 | 20 Штуцер 354.014 | |

2.3.6.2 354



- 1 Блок исполнительный 151Д.10-1
- 2 Блок управления 151Д.20-1
- 3 Блок управления 151Д.20-2
- 4 Переключающая часть 151Д.20.010-1
- 5 Сигнальная часть 151Д.20.020-1
- 6 Переключающая часть 151Д.20.010-2

2.3.6.3 151f -1

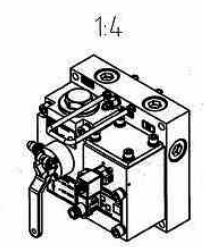
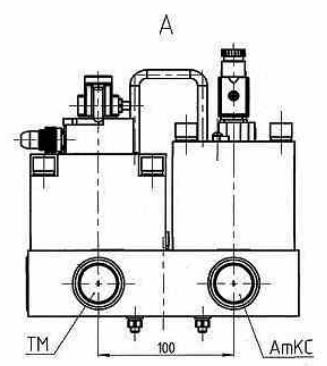
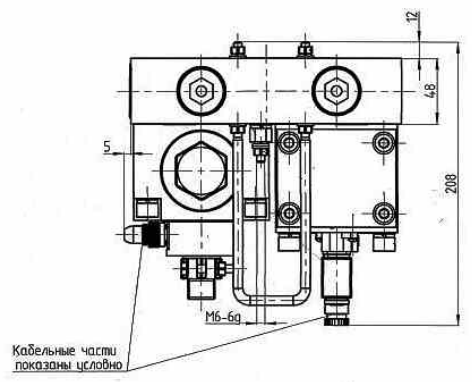
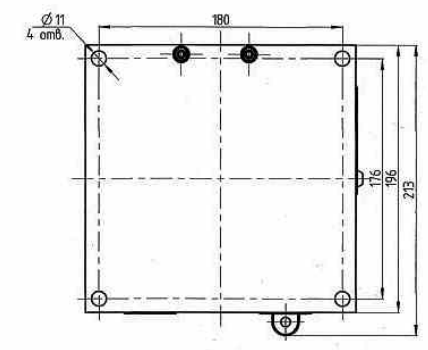
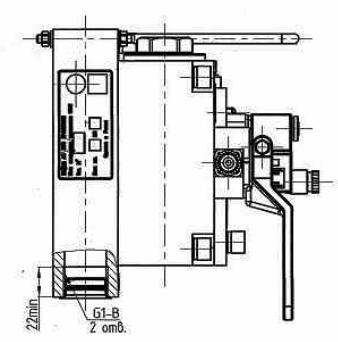
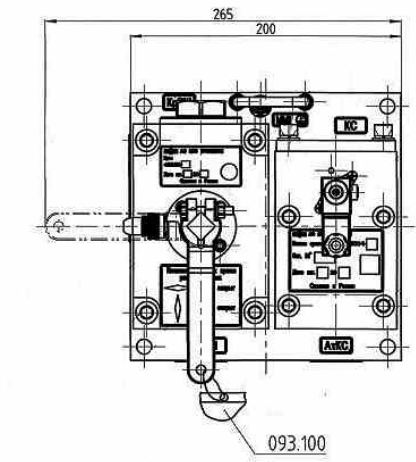


Таблица 1

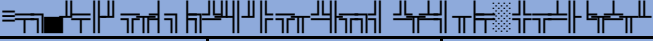
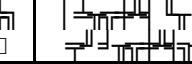
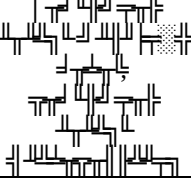
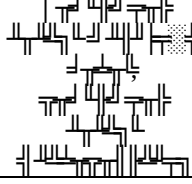
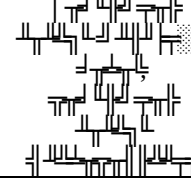
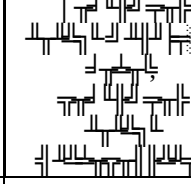
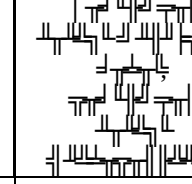
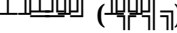
| Подвод воздуха к пневматическим линиям | | |
|--|----------------------------|--------------------------|
| Буквенно-цифровой код | Наименование | Присоединительная резьба |
| TM | Тормозная магистраль | G1-B |
| AmKC | Атмосфера клапана срыбного | G1-B |

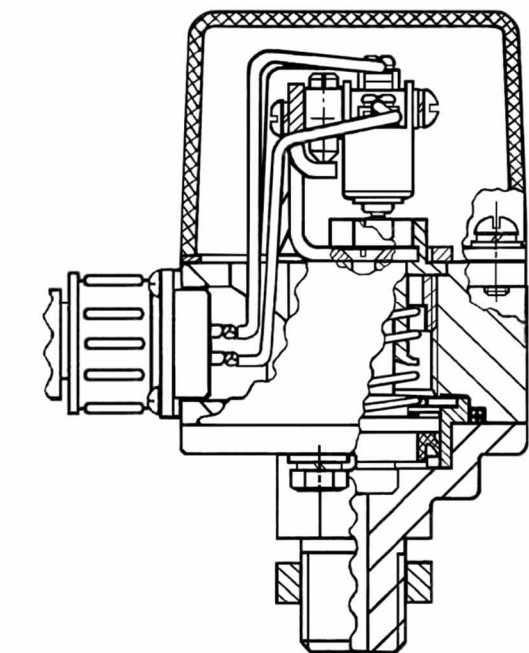
2.3.6.4 - 093

2.3.7

2.3.7.1

| | 112 | 112-01 | 112-03 | 112√ | 112√-01 | 112√-02 | 112√-03 |
|----|--------------|--------------|--------------|-------------|-------------|-------------|-------------|
| | | | | | | | |
| | 132-70-130 | 126-132-104 | 73-73-14 | 132-70-130 | 126-132-104 | 126-132-104 | 126-132-104 |
| | 0,7 | 0,9 | 1,0 | 0,7 | 0,9 | 0,9 | 0,9 |
| | 0,98 | 0,98 | 0,98 | 0,98 | 0,98 | 0,98 | 0,98 |
| | 110 | 110 | 110 | 110 | 110 | 110 | 110 |
| | 0,4 | 0,4 | 0,4 | 0,4 | 0,4 | 0,4 | 0,4 |
| | ±55 | ±55 | ±55 | ±55 | ±55 | ±55 | ±55 |
| | 0,03±0,01 | 0,03±0,01 | 0,03±0,01 | 0,25±0,01 | 0,25±0,01 | 0,25±0,01 | 0,25±0,01 |
| | | | | | | | |
| 1. | 0,029 - 0,12 | 0,029 - 0,12 | 0,029 - 0,12 | 0,10 - 0,34 | 0,10 - 0,34 | 0,10 - 0,34 | 0,10 - 0,34 |
| 2. | 0,02 - 0,09 | 0,02 - 0,09 | 0,02 - 0,09 | 0,09 - 0,25 | 0,09 - 0,25 | 0,09 - 0,25 | 0,09 - 0,25 |

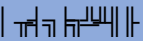
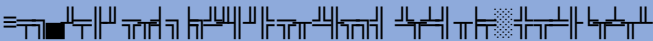
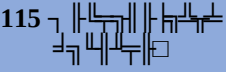
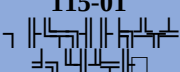
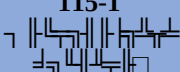
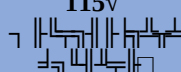
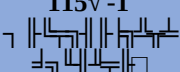
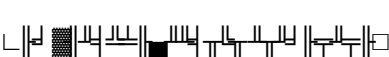
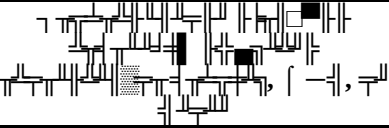
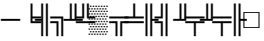
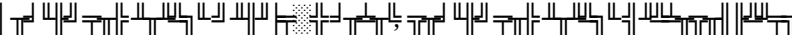
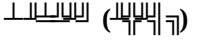
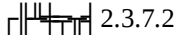
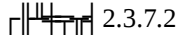
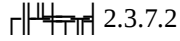
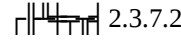
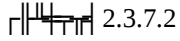
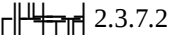
|  |  | | | | | | |
|---|--|---|--|---|---|---|---|
| | 112 | 112-01 | 112-03 | 112√ | 112√-01 | 112√-02 | 112√-03 |
|  | 15 | 15 | 15 | 15 | 15 | 15 | 15 |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  | 2.3.7.1 | 2.3.7.1 | 2.3.7.1 | 2.3.7.1 | 2.3.7.1 | 2.3.7.1 | 2.3.7.1 |

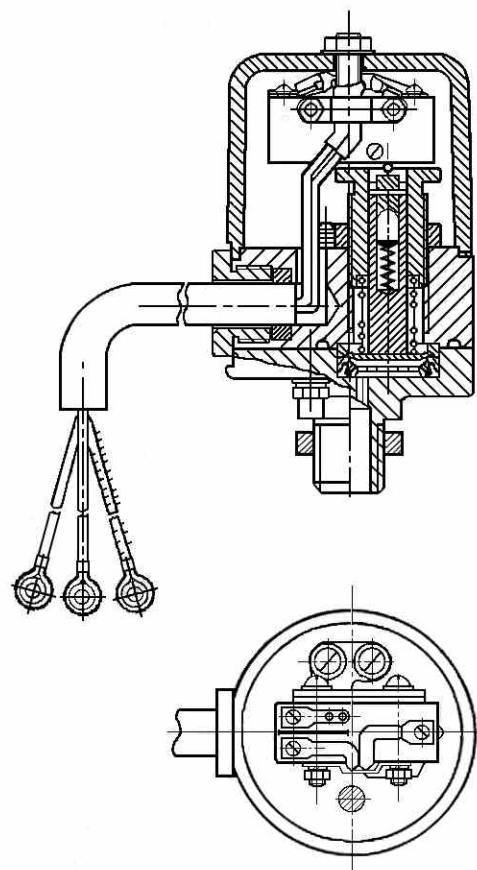


2.3.7.1 - 112

2.3.7.2 (החומר המיועד להחלפה של חלקי המבנה).

| חומר המיועד להחלפה | חומר המיועד להחלפה | | | | | |
|-----------------------|--------------------|-------------|-------------|-------------|-------------|-------------|
| | 112√-04 | 112∞ | 112∞-01 | 112∞-02 | 112∞-03 | 112∞-04 |
| חומר המיועד להחלפה | √ | √ | √ | √ | √ | √ |
| חומר המיועד להחלפה | 126√132√104 | 132√70√130 | 126√132√104 | 126√132√104 | 73√73√14 | 73√73√14 |
| חומר המיועד להחלפה | 0,9 | 0,7 | 0,9 | 0,9 | 1,0 | 1,0 |
| חומר המיועד להחלפה | 0,98 | 0,98 | 0,98 | 0,98 | 0,98 | 0,98 |
| חומר המיועד להחלפה | 110 | 110 | 110 | 110 | 110 | 110 |
| חומר המיועד להחלפה | 0,4 | 0,4 | 0,4 | 0,4 | 0,4 | 0,4 |
| חומר המיועד להחלפה | ±55 | ±55 | ±55 | ±55 | ±55 | ±55 |
| חומר המיועד להחלפה | 0,25±0,01 | 0,39±0,01 | 0,39±0,01 | 0,51±0,01 | 0,51±0,01 | 0,51±0,01 |
| חומר המיועד להחלפה | | | | | | |
| 1. חומר המיועד להחלפה | 0,10 - 0,34 | 0,10 - 0,34 | 0,10 - 0,34 | 0,10 - 0,34 | 0,10 - 0,34 | 0,10 - 0,34 |
| 2. חומר המיועד להחלפה | 0,09 - 0,25 | 0,09 - 0,25 | 0,09 - 0,25 | 0,09 - 0,25 | 0,09 - 0,25 | 0,09 - 0,25 |
| חומר המיועד להחלפה | 15 | 15 | 15 | 15 | 15 | 15 |
| חומר המיועד להחלפה | חומר המיועד להחלפה | | | | | |
| חומר המיועד להחלפה | חומר המיועד להחלפה | | | | | |

|  |  | | | | | |
|---|---|--|---|---|---|---|
| |  |  |  |  |  |  |
|  | G1/2 - L | G1/2 - L | G1/2 - L | G1/2 - L | G1/2 - L | G1/2 - L |
|  |  |  |  |  |  |  |
|  | 5 | | | | | |
|  |  | | | | | |
|  |  |  |  |  |  |  |

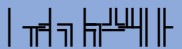
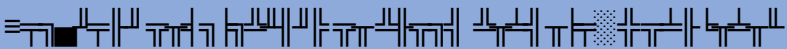
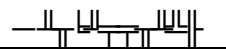
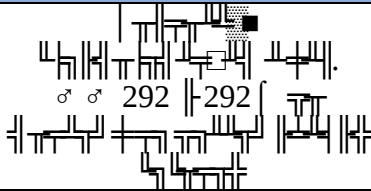
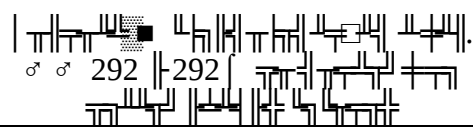
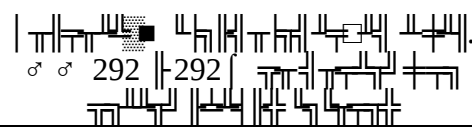
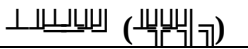
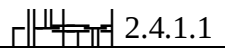
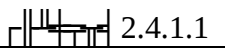
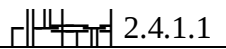


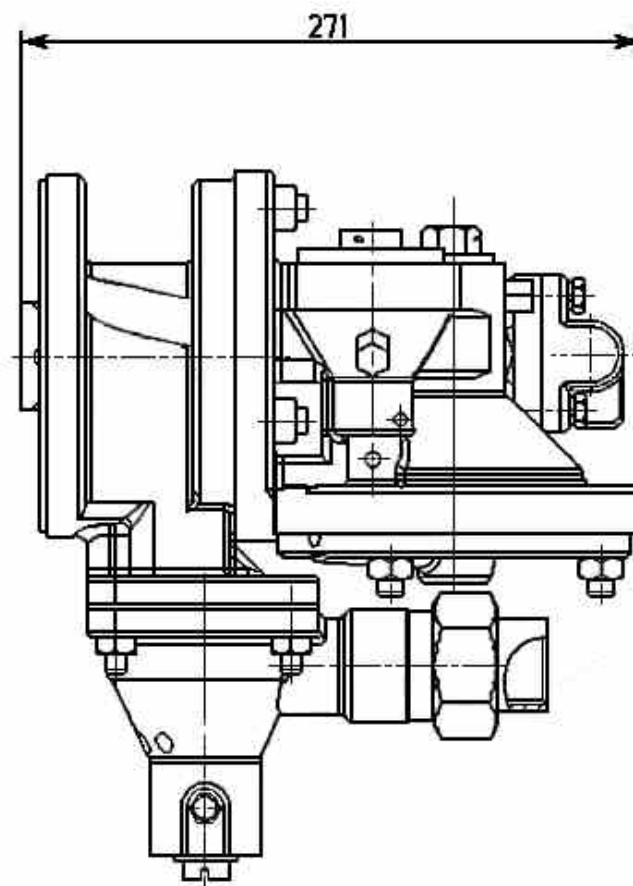
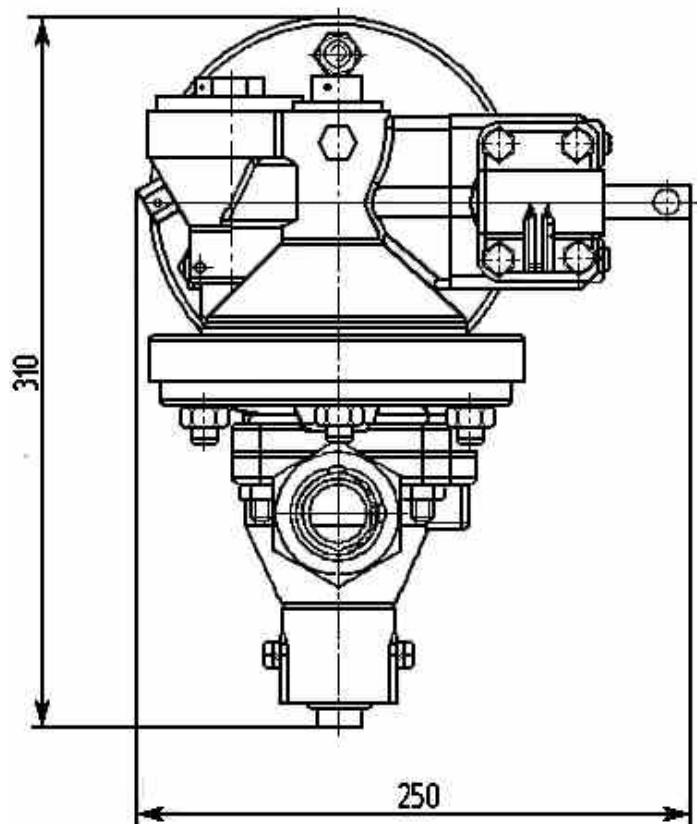
2.3.7.2 - 115

| $\leq$ | $\leq$ |
|--------|--------------|
| $\leq$ | $0,01 (0,1)$ |
| $\leq$ | $0,01 (0,1)$ |
| $\leq$ | $0,01 (0,1)$ |

2.4.1.1.3

| | 242-1 | 242-1-01 | 242-1-02 |
|------|-------------|-------------|-------------|
| | | | |
| | | | |
| | 0,45 - 0,56 | | |
| | 250 | 250 | 250 |
| | 20 | 20 | 20 |
| | ±55 | ±55 | ±55 |
| | 470±325±290 | 470±325±290 | 271±250±310 |
| | 24 | 24 | 17 |
| 0.48 | 130 - 160 | | |
| «Δ» | 5 - 7 | 5 - 7 | 5 - 7 |
| «f» | 12 - 16 | 12 - 16 | 12 - 16 |
| 0,04 | | | |
| «Δ» | 9 - 12 | 9 - 12 | 9 - 12 |
| «f» | 19- 24 | 19- 24 | 19- 24 |
| | | | |

|  |  | | |
|---|---|---|---|
| | 242-1 | 242-1-01 | 242-1-02 |
|  |  |  |  |
|  |  2.4.1.1 |  2.4.1.1 |  2.4.1.1 |

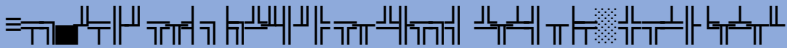
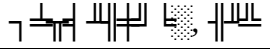
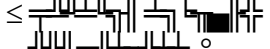
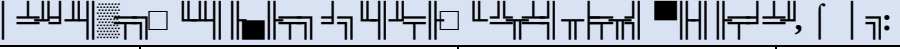
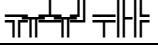
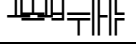
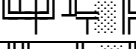
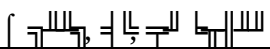


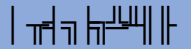
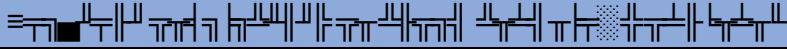
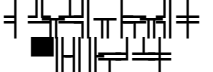
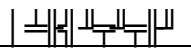
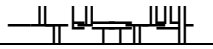
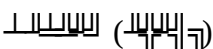
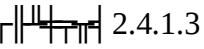
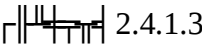
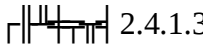
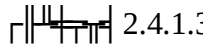
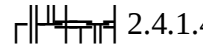
2.4.1.1 242

2.4.1.2. $\sigma_{\text{ср}} = 20 \pm 10$ °C

2.4.1.2.1. $\sigma_{\text{ср}} = 20 \pm 10$ °C

| Таблица 2.4.1.2.1. $\sigma_{\text{ср}} = 20 \pm 10$ °C | Таблица 2.4.1.2.1. $\sigma_{\text{ср}} = 20 \pm 10$ °C |
|--|--|
| $\sigma_{\text{ср}} = 20 \pm 10$ °C | |
| $\sigma_{\text{ср}} = 20 \pm 10$ °C | |
| $\sigma_{\text{ср}} = 20 \pm 10$ °C | 14-18 |
| $\sigma_{\text{ср}} = 20 \pm 10$ °C | 0,06 (0,6) |
| $\sigma_{\text{ср}} = 20 \pm 10$ °C | 0,005 (0,05) |
| $\sigma_{\text{ср}} = 20 \pm 10$ °C | 70 |
| $\sigma_{\text{ср}} = 20 \pm 10$ °C | 0,39-0,44 (4,0-4,5) |
| $\sigma_{\text{ср}} = 20 \pm 10$ °C | 8-15 |
| $\sigma_{\text{ср}} = 20 \pm 10$ °C | 60 |
| $\sigma_{\text{ср}} = 20 \pm 10$ °C | 70 |
| $\sigma_{\text{ср}} = 20 \pm 10$ °C | 0,005 (0,05) |
| $\sigma_{\text{ср}} = 20 \pm 10$ °C | 0,57 (5,8) |
| $\sigma_{\text{ср}} = 20 \pm 10$ °C | |

|  |  | | | | |
|--|--|-------------|-------------|-------------|--------------|
| | 6540 | 6540-01 | 6540-02 | 6540-03 | 270-6 |
|  | 32 | 32 | 32 | 32 | - |
|  | ±60 | ±60 | ±60 | ±60 | ±60 |
|  | + 80 | + 80 | + 80 | + 80 | + 80 |
|  | | | | | |
|  | 0,14 - 0,18 | 0,14 - 0,19 | 0,14 - 0,20 | 0,14 - 0,21 | 0,14 - 0,18 |
|  | 0,29 - 0,33 | 0,29 - 0,34 | 0,29 - 0,35 | 0,29 - 0,36 | 0,28 - 0,33 |
|  | 0,39 - 0,44 | 0,39 - 0,45 | 0,39 - 0,46 | 0,39 - 0,47 | 0,40 - 0,45 |
|  | 6 | 6 | 8 | 8 | 8 |
|  | 200 000 | 200 000 | 300 000 | 300 000 | 150 000 |
|  | 700±295±345 | 700±295±325 | 700±295±345 | 700±295±325 | 470±325±290 |
|  | 64,5 | 63,5 | 64,5 | 63,5 | 17 |
|  | | | | | |
|  |  | | | | G - 3/4» - B |
|  | | | | | G - 3/4» - B |

|  |  | | | | |
|---|---|--|---|---|---|
| | 6540 | 6540-01 | 6540-02 | 6540-03 | 270-6 |
|  | | | | | |
|  |  | | | | |
|  |  | | | | |
|  |  2.4.1.3 |  2.4.1.3 |  2.4.1.3 |  2.4.1.3 |  2.4.1.4 |

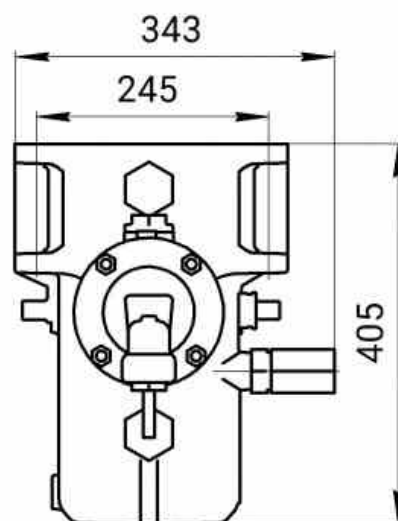
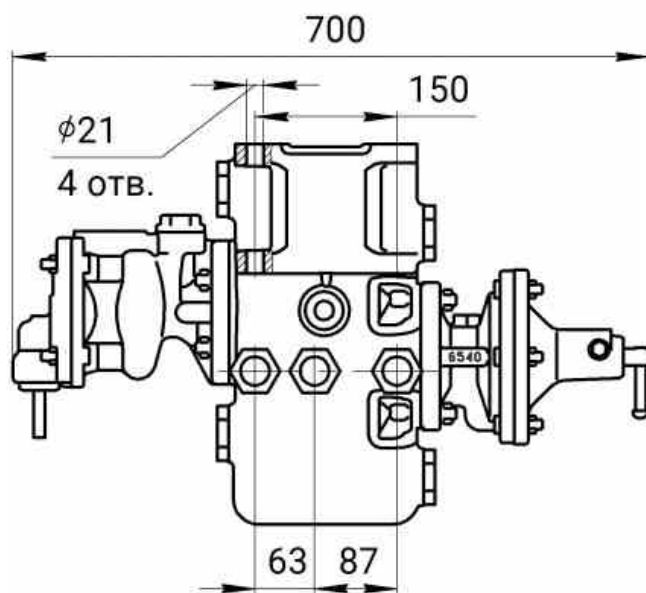
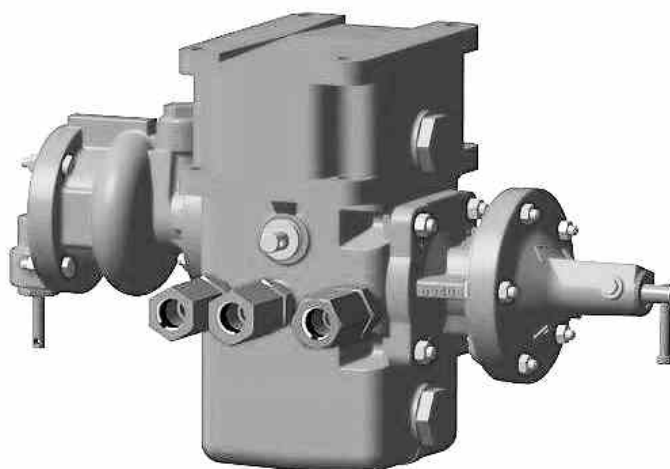


рис.1

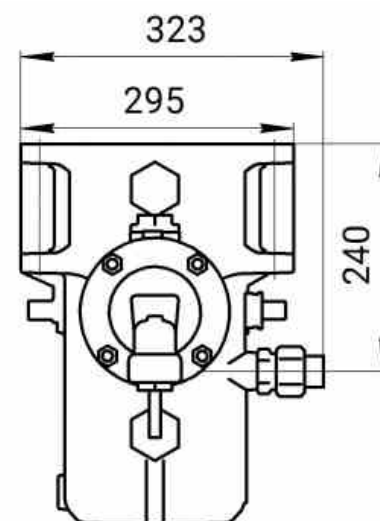
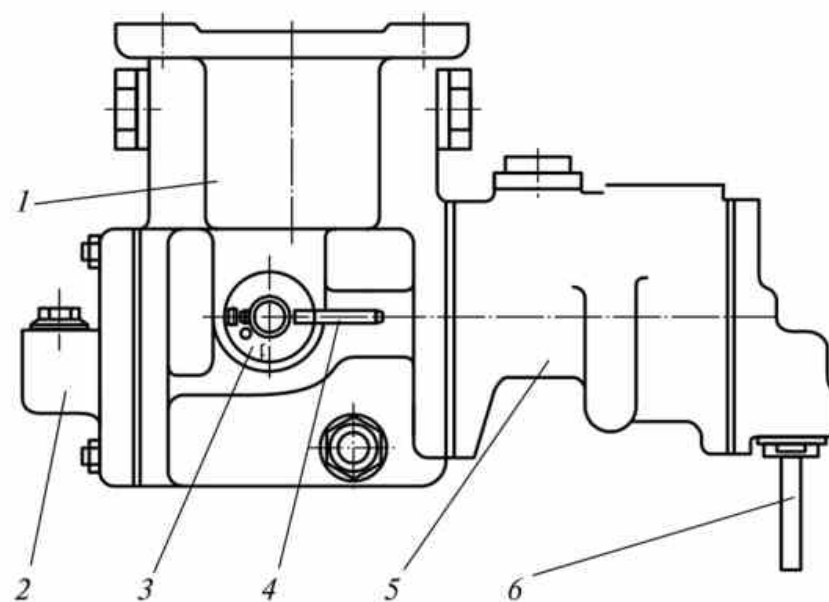
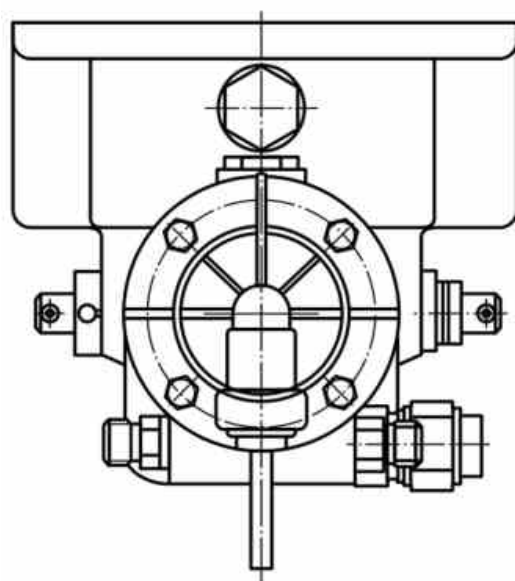


рис.2

2.4.1.3 6540



2.4.1.4 270
 1 - ; 2 - ; 3 - ; 4 - ; 5 - ; 6 -

2.4.1.2.3 483.

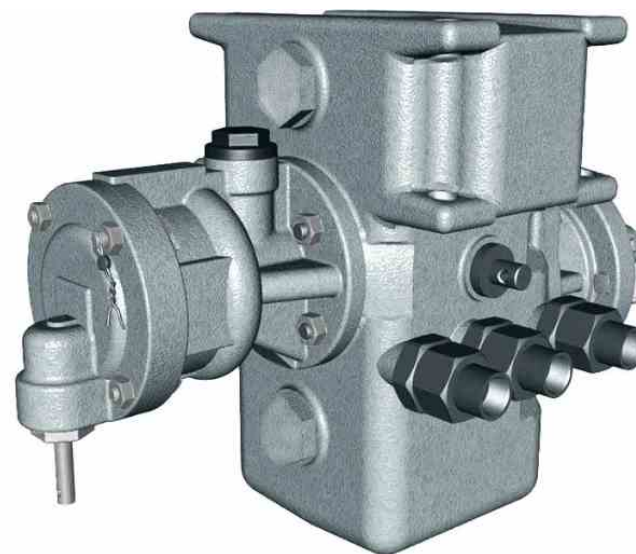
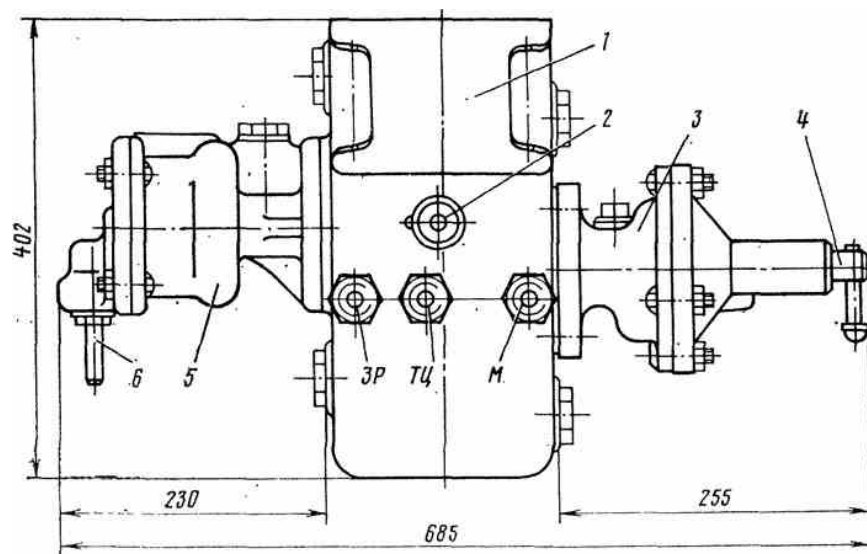
| | - 157-3 | | | | |
|-----------|---------------|------------------|---------------------------------|-----|---------|
| | | | | | |
| 483v -01 | 270 023-1 (1) | 483v .010-01 (1) | - | - | - |
| 483v -02 | 270 023-1 (1) | - | 295 f .001 H H H
295 f .0012 | - | - |
| 483v -03 | 270 023-1 (1) | 483v .010-01 (1) | 295 f .001 H H H
295 f .0012 | - | - |
| 483v -03∞ | 270 023-1 (1) | 483v .010-01 (1) | 295 f .001 H H H
295 f .0012 | - | 157.030 |
| 483v -04 | 483.400 (1) | 483v .010-01 (1) | 295 f .001 H H H
295 f .0012 | - | - |
| 483v -04∞ | 483.400 (1) | 483v .010-01 (1) | 295 f .001 H H H
295 f .0012 | - | 157.030 |
| 483v -05 | 483.400 (1) | 483∞010 (1) | - | 180 | - |
| 483v -06 | 270 023-1 (1) | 483∞010 (1) | 295 f .001 H H H
295 f .0012 | - | - |
| 483v -06∞ | 270 023-1 (1) | 483∞010 (1) | 295 f .001 H H H
295 f .0012 | - | 157.030 |
| 483v -07 | 483.400 (1) | 483∞010 (1) | 295 f .001 H H H
295 f .0012 | - | - |
| 483v -07∞ | 483.400 (1) | 483∞010 (1) | 295 f .001 H H H
295 f .0012 | - | 157.030 |
| 483v -08 | 270 023-1 (1) | 483v .010-01 (1) | - | 180 | - |
| 483v -09 | 483.400 (1) | 483v .010-01 (1) | - | 180 | - |
| 483v -10 | 270 023-1 (1) | 483∞010 (1) | - | - | - |

2.4.1.2.4 483.

| | 483√ -03 | 483√ -03∞ | 483√ -04 | 483√ -04∞ | 483√ -05 |
|-------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | √ - ∫ ∞ √ ∫ ∫ √ + | √ - ∫ ∞ √ ∫ ∫ √ + | √ - ∫ ∞ √ ∫ ∫ √ + | √ - ∫ ∞ √ ∫ ∫ √ + | √ - ∫ ∞ √ ∫ ∫ √ + |
| | | | | | |
| 1) 2) | | | | | |
| | 0,45 - 0,65 | 0,45 - 0,65 | 0,45 - 0,65 | 0,45 - 0,65 | 0,45 - 0,65 |
| | 290 | 290 | 290 | 290 | 290 |
| | 32 | 32 | 32 | 32 | 32 |
| | ±60 | ±60 | ±60 | ±60 | ±60 |
| | | | | | |
| | 0,14 - 0,18 | 0,14 - 0,18 | 0,14 - 0,18 | 0,14 - 0,18 | 0,14 - 0,18 |
| | 0,30 - 0,34 | 0,30 - 0,34 | 0,30 - 0,34 | 0,30 - 0,34 | 0,30 - 0,34 |
| | 0,40 - 0,45 | 0,40 - 0,45 | 0,40 - 0,45 | 0,40 - 0,45 | 0,40 - 0,45 |
| | 685-402-325 | 685-402-354 | 662-402-325 | 662-402-354 | 523-461-550 |
| | 63,3 | 63,844 | 62,7 | 63,244 | 84 |
| | 2.4.1.5 | 2.4.1.5 | 2.4.1.5 | 2.4.1.5 | 2.4.1.5 |

2.4.1.2.5 483. ().

| | 483√ -06 | 483√ -06 | 483√ -06∞ | 483√ -07 | 483√ -07∞ |
|---------|------------------|------------------|-------------|------------------|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| 1) ; 2) | | | | | |
| | 0,45 - 0,65 | 0,45 - 0,65 | 0,45 - 0,65 | 0,45 - 0,65 | 0,45 - 0,65 |
| | 290 | 290 | 290 | 290 | 290 |
| | 32 | 32 | 32 | 32 | 32 |
| | ±60 | ±60 | ±60 | ±60 | ±60 |
| | | | | | |
| | 0,14 - 0,18 | 0,14 - 0,18 | 0,14 - 0,18 | 0,14 - 0,18 | 0,14 - 0,18 |
| | 0,30 - 0,34 | 0,30 - 0,34 | 0,30 - 0,34 | 0,30 - 0,34 | 0,30 - 0,34 |
| | 0,40 - 0,45 | 0,40 - 0,45 | 0,40 - 0,45 | 0,40 - 0,45 | 0,40 - 0,45 |
| | 642∥402∥416 | 642∥402∥416 | 642∥402∥325 | 620∥402∥416 | 642∥416∥354 |
| | 63,9 | 63,9 | 64,444 | 63,3 | 63,844 |
| | | | | | |
| | G ^{3/4} | G ^{3/4} | 27 | G ^{3/4} | 27 |

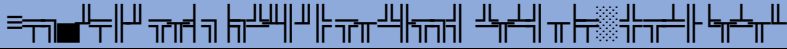
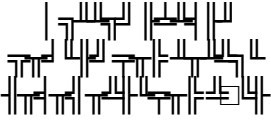
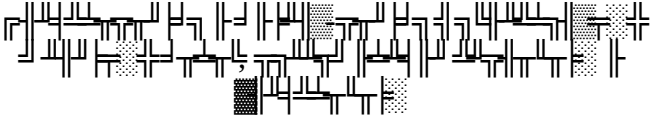
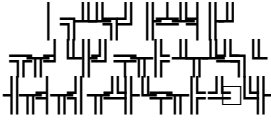
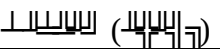
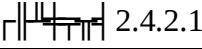
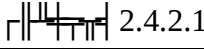
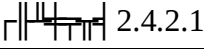
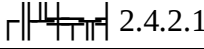


2.1.4.5 - 483

1 ñ = 1, 2 ñ = 2, 3 ñ = 3, 4 ñ = 4, 5 ñ = 5, 6 ñ = 6

2.4.2

| <div></div> | <div></div> | | | |
|-------------|----------------------|-------------|-------------|-------------|
| | 305 | 305-1 | 305-3 | 305.500 |
| <div></div> | <div></div> | <div></div> | <div></div> | <div></div> |
| <div></div> | 392±228±290 | 392±228±290 | 392±228±290 | 200±170±300 |
| <div></div> | 33 | 18,13 | 33 | 18,13 |
| <div></div> | ±60 | ±60 | ±60 | ±60 |
| <div></div> | 0,45 - 0,55 | 0,45 - 0,55 | 0,45 - 0,55 | 0,45 - 0,55 |
| <div></div> | 1,5 | 1,5 | 1,5 | 1,5 |
| <div></div> | 50 | 110 | 110 | 110 |
| <div></div> | 380±40 | 1500±150 | 1500±150 | 1500±150 |
| <div></div> | 10 ± | 10 ± | 10 ± | 10 ± |
| <div></div> | 2,5-3,5
0,30±0,02 | 2,5-3,5 | 2,5-3,5 | 2,5-3,5 |
| <div></div> | 3,5-4,5
0,04 ± | 3,5-4,5 | 3,5-4,5 | 3,5-4,5 |
| <div></div> | 20 | 20 | 20 | 20 |

|  |  | | | |
|---|---|---|---|---|
| | 305 | 305-1 | 305-3 | 305.500 |
|  |  |  |  | |
|  |  2.4.2.1 |  2.4.2.1 |  2.4.2.1 |  2.4.2.1 |

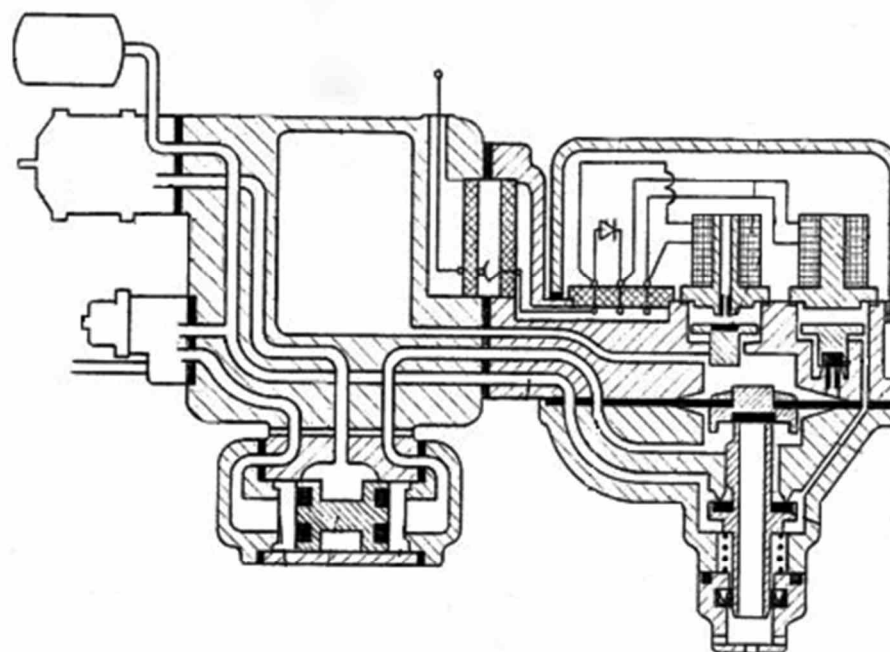


Схема электрическая ЭВР 305

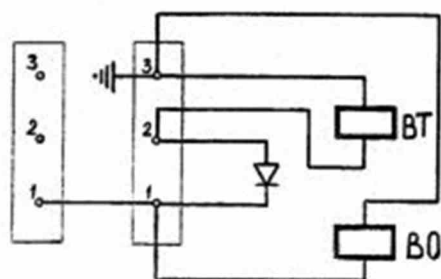
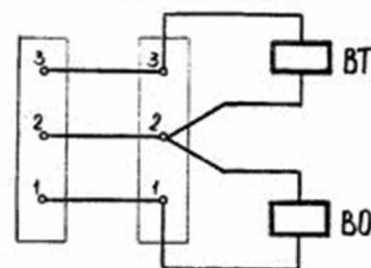


Схема электрическая ЭВР 305-1
и ЭВР 305-3

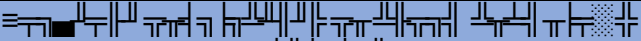
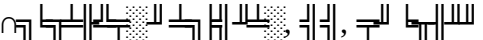
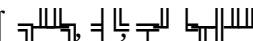
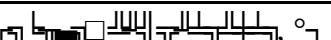
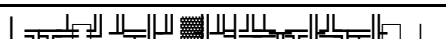


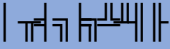
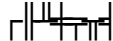
2.4.2.1 305

2.4.2.1

[illegible]

2.4.2.1

| | |
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|  |  |
| |  |
|  | $\sqrt{-}$ «  » (http://www.neurocom.ru/) |
|  | $300\text{—}220\text{—}420$ |
|  | 15 |
|  | $- 40 + 70$ |
|  | $50, 75, 110$ |

| | |
|---|---|
|  |  |
| |  |
|  | 0 - 8 |
|  | 42 |
|  |  2.4.2.2 |

2.4.2.2

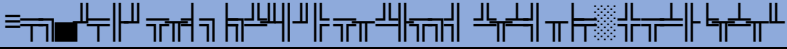
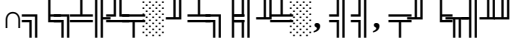
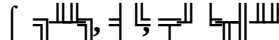
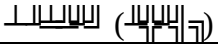


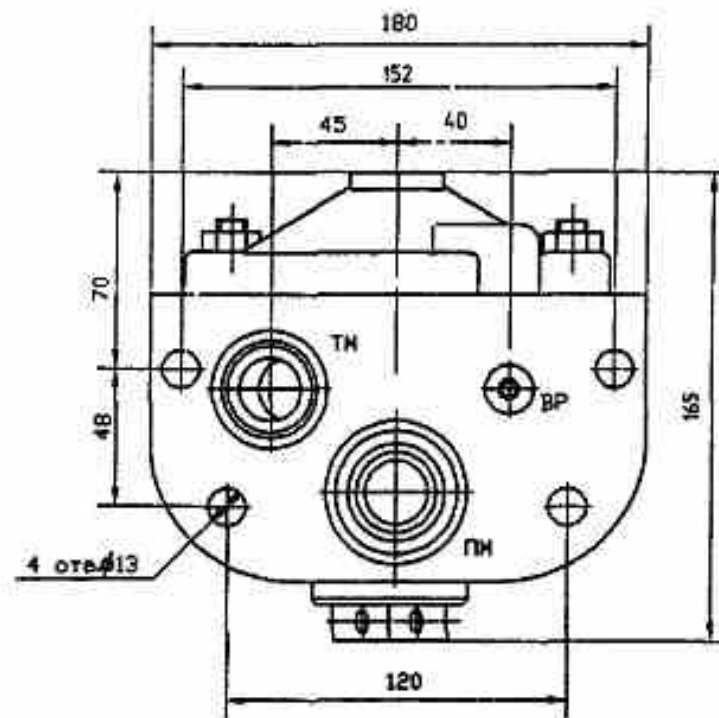
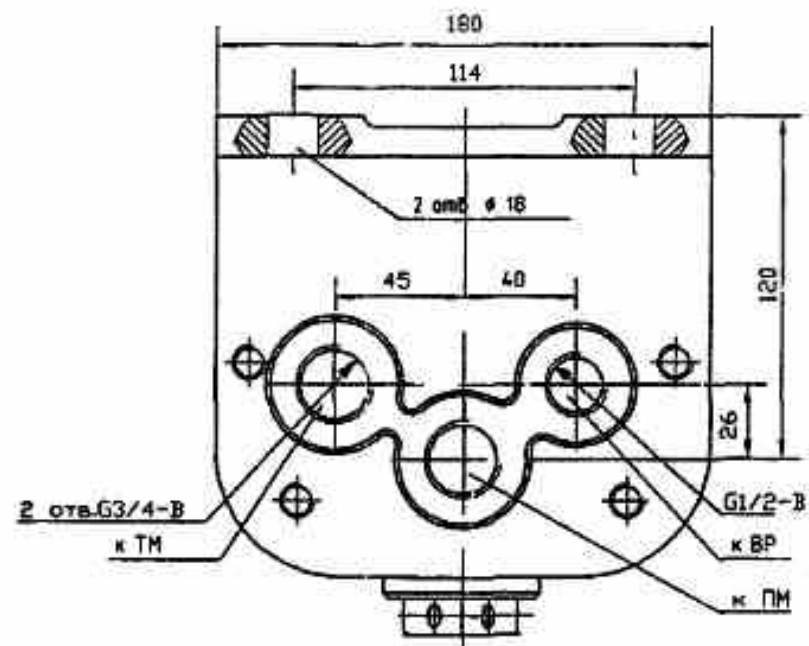
2.4.3 数据清洗与预处理

在模型训练之前，需要对收集到的数据进行清洗和预处理。首先，需要去除重复的数据记录，并对缺失值进行处理。对于缺失值，可以采用删除或填充的方法。其次，需要将特征进行归一化或标准化处理，以确保不同特征的量纲一致，提高模型的收敛速度。最后，将数据集按照一定的比例划分为训练集、验证集和测试集，用于模型的训练、验证和测试。

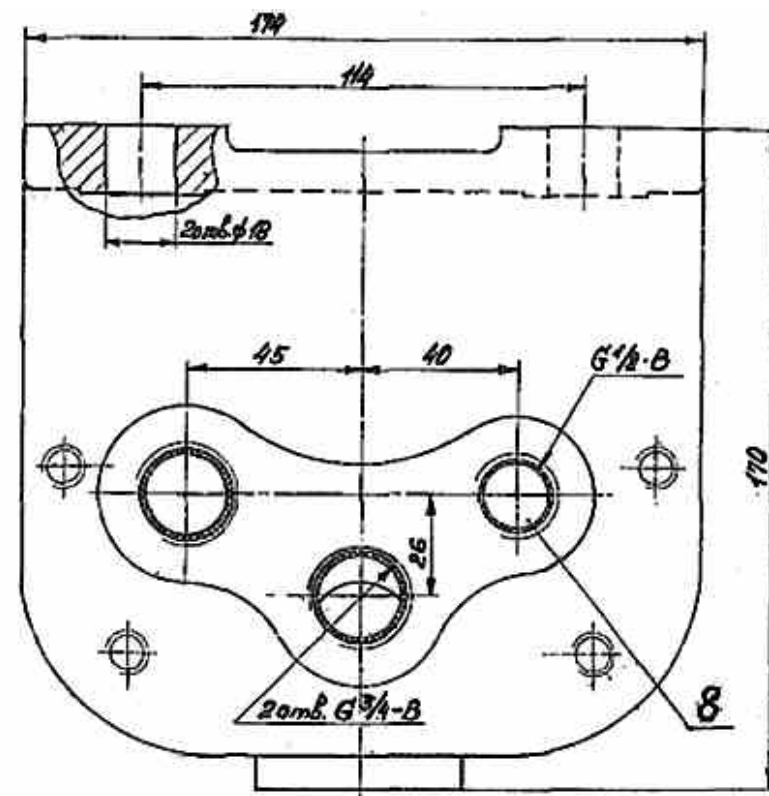
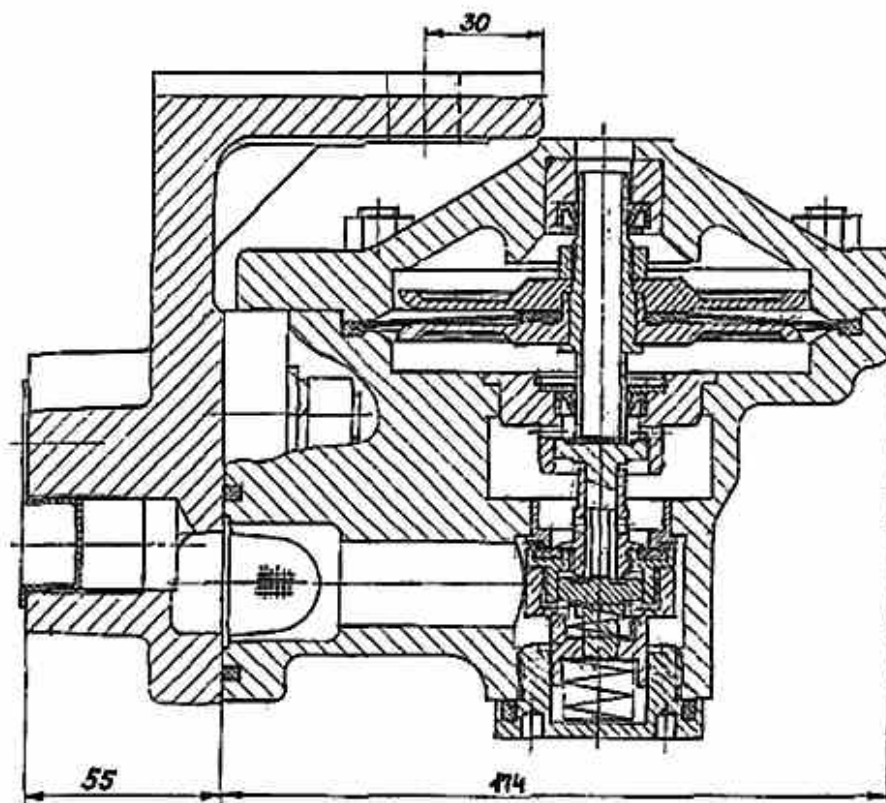
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|  |  |
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301

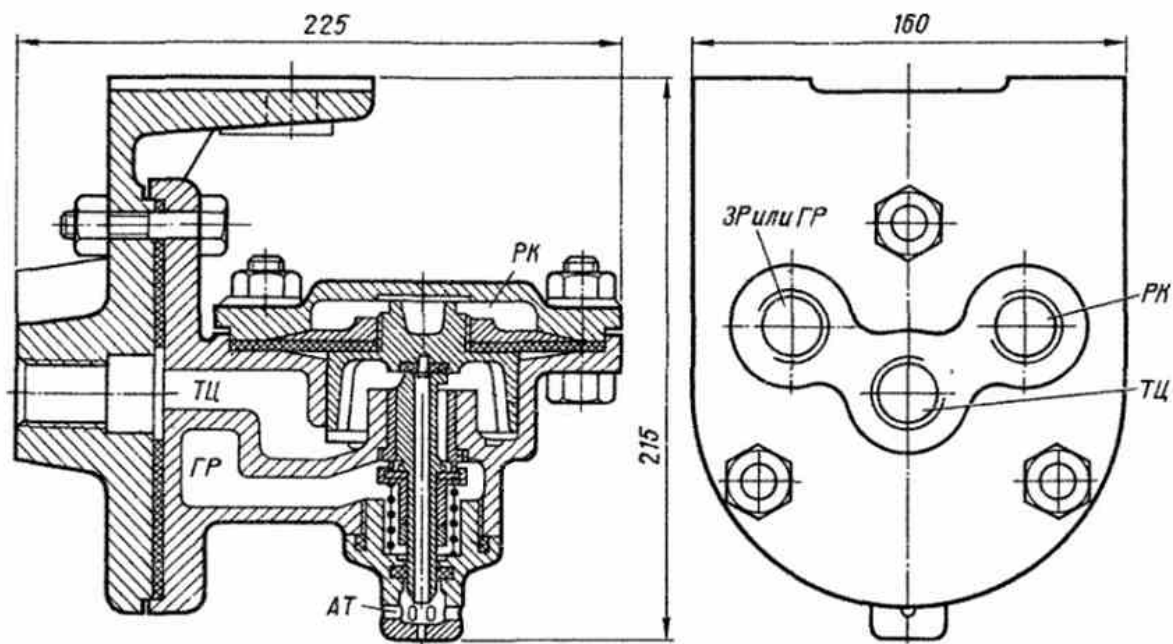
|  |  | | | | |
|--|---|-------------|-------------|--------------|-------------|
| | 033 | 042 | 042.10 | 042.010 - 01 | 404 |
|  | G-1/2-B | G-1/2-B | G-1/2-B | G-1/2-B | G-1/2-B |
|  | | | | | |
|  | 180-230-185 | 170-174-230 | 170-174-230 | 170-174-230 | 180-230-185 |
|  | 180-175-165 | 170-174-174 | 170-174-174 | 170-174-174 | 180-175-165 |
|  | | | | | |
|  | 9 | 10,6 | 10,6 | 10,6 | 9 |
|  | 5 | 5 | 5 | 5 | 5 |
|  | ±55 | ±55 | ±55 | ±55 | ±55 |
|  | 2.4.3.1 | 2.4.3.2 | 2.4.3.2 | 2.4.3.2 | 2.4.3.1 |



2.4.3.1 033



2.4.3.2 042



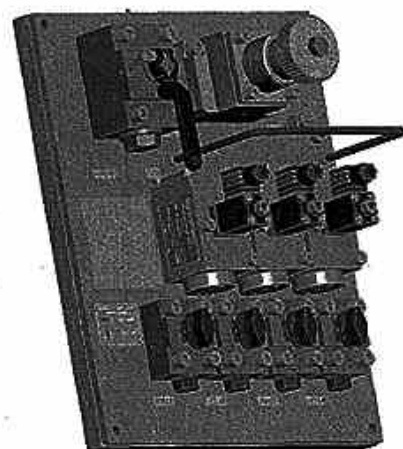
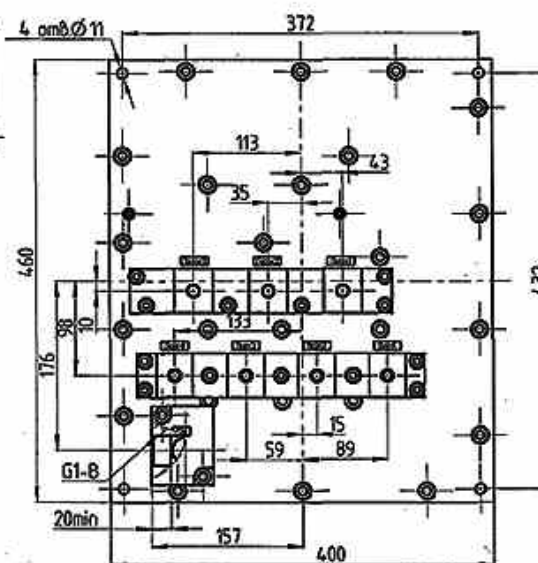
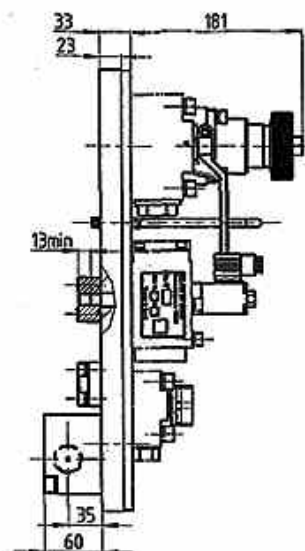
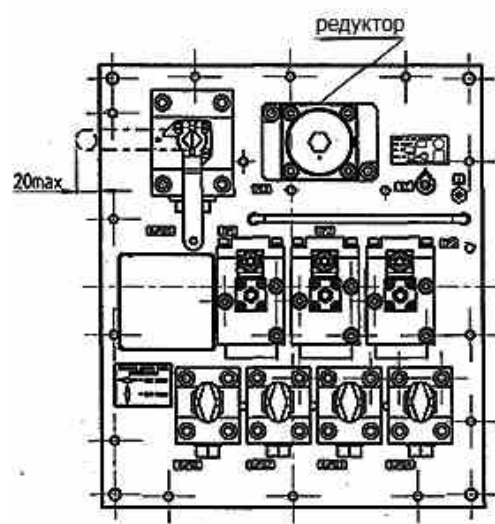
2.4.3.3 404

2.4.4

2.4.4.1

030.

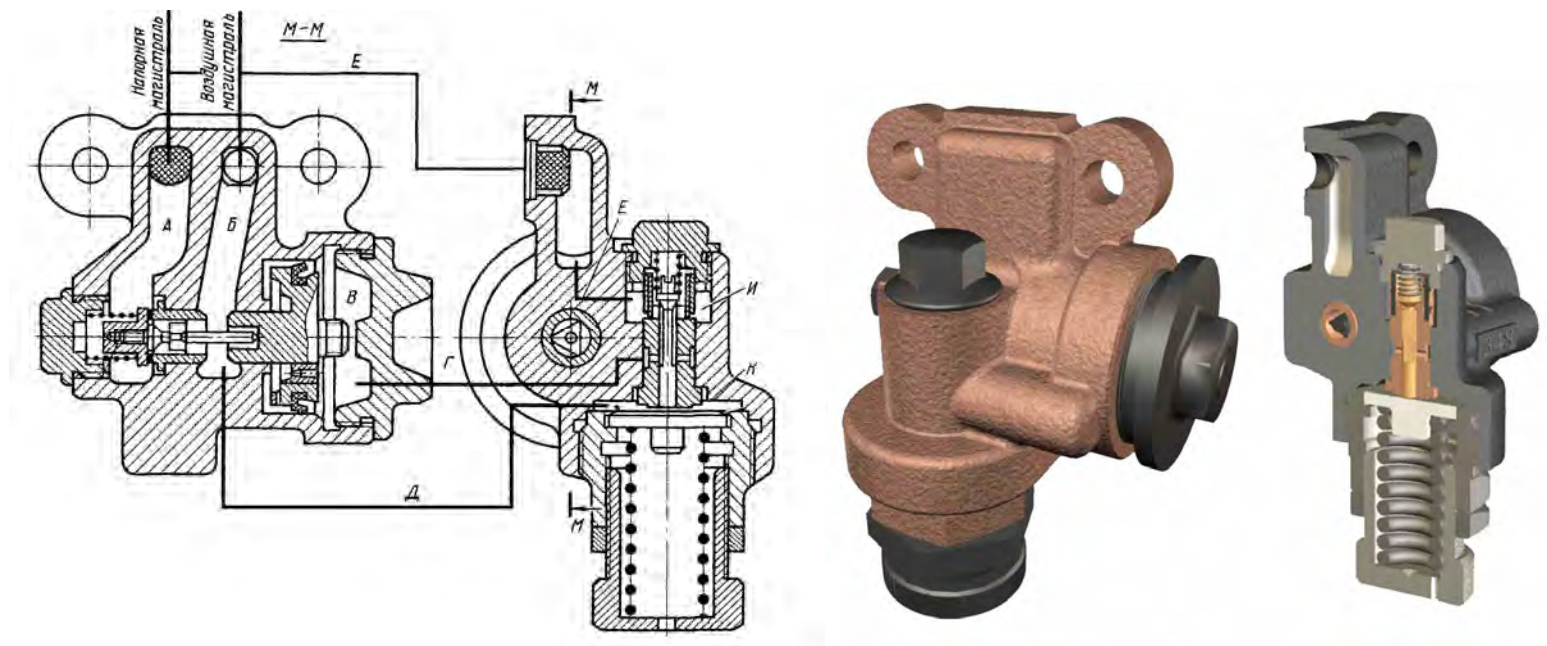
| | 030. √.20.400 | 030. ∞.20.400 | 030. ∞.20.400-01 | 030. √.20.400 | 030. √.20.400-01 | 030. .20.400 |
|--|--|--|--|--|--|--|
| | √ - L _≡
L _√ √ + | √ - L _≡
L _√ √ + | √ - L _≡
L _√ √ + | √ - L _≡
L _√ √ + | √ - L _≡
L _√ √ + | √ - L _≡
L _√ √ + |
| | 160-100-160 | 165-120-180 | 165-120-180 | 181-120-180 | 181-120-180 | 176-100-160 |
| | 1,7 | 2,25 | 2,3 | 2,8 | 2,8 | 1,83 |
| | π _L +60 π _L -55 | π _L +60 π _L -55 | π _L +60 π _L -55 | π _L +60 π _L -55 | π _L +60 π _L -55 | π _L +60 π _L -55 |
| | 0,5 - 0,9 | 0,5 - 0,9 | 0,5 - 0,9 | 0,5 - 0,9 | 0,5 - 0,9 | 0,5 - 0,9 |
| | 0,02 | 0,02 | 0,02 | 0,02 | 0,02 | 0,02 |
| | 0,5 - 0,9 | 0,5 - 0,9 | 0,5 - 0,9 | 0,5 - 0,9 | 0,5 - 0,9 | 0,5 - 0,19 |
| | 20 | 20 | 20 | 20 | 20 | 20 |
| | | | | | | |
| | 2.4.4.1 | | | | | |



2.4.4.1 - 030

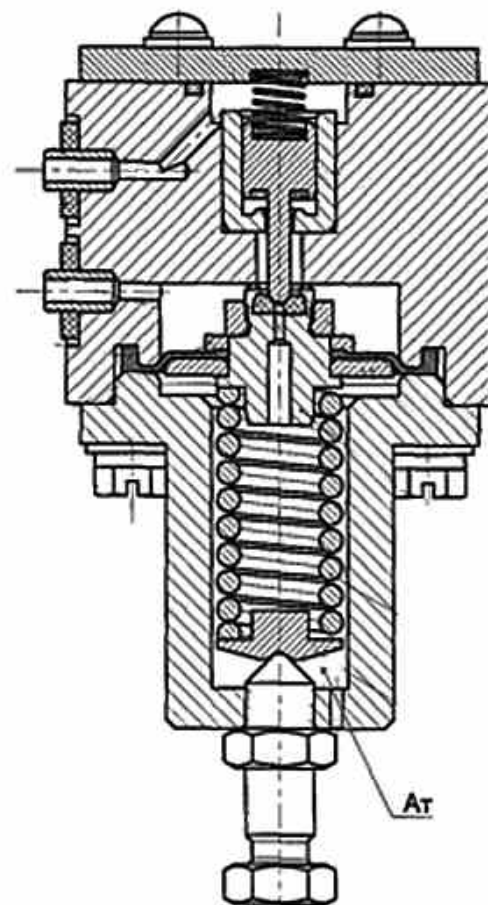
2.4.4.2 348.

| | 348-2 | 348- | 348- -01 | 348- -02 | 348- -04 | 348- -05 |
|--|--|--|--|--|--|--|
| | $\sqrt{-} \int \mathbb{L} \equiv$
$\mathbb{L} \sqrt{\int} \int \int \sqrt{+}$ | $\sqrt{-} \int \mathbb{L} \equiv$
$\mathbb{L} \sqrt{\int} \int \int \sqrt{+}$ | $\sqrt{-} \int \mathbb{L} \equiv$
$\mathbb{L} \sqrt{\int} \int \int \sqrt{+}$ | $\sqrt{-} \int \mathbb{L} \equiv$
$\mathbb{L} \sqrt{\int} \int \int \sqrt{+}$ | $\sqrt{-} \int \mathbb{L} \equiv$
$\mathbb{L} \sqrt{\int} \int \int \sqrt{+}$ | $\sqrt{-} \int \mathbb{L} \equiv$
$\mathbb{L} \sqrt{\int} \int \int \sqrt{+}$ |
| | 134-107-186 | 110-200-87 | 135-200-160 | 135-200-160 | 135-200-172 | 135-200-172 |
| | 4,2 | 2,5 | 3,5 | 5,0 | 3,5 | 5,0 |
| | ± 55 | $\mathbb{T} \mathbb{L} + 60 \mathbb{J} \mathbb{T} - 55$ | $\mathbb{T} \mathbb{L} + 60 \mathbb{J} \mathbb{T} - 55$ | $\mathbb{T} \mathbb{L} + 60 \mathbb{J} \mathbb{T} - 55$ | $\mathbb{T} \mathbb{L} + 60 \mathbb{J} \mathbb{T} - 55$ | $\mathbb{T} \mathbb{L} + 60 \mathbb{J} \mathbb{T} - 55$ |
| | 0,05 - 0,65 | 0,05 - 0,65 | 0,05 - 0,65 | 0,05 - 0,65 | 0,05 - 0,65 | 0,05 - 0,65 |
| | 0,035 | 0,035 | 0,035 | 0,035 | 0,035 | 0,035 |
| | 0,05 - 0,74 | 0,05 - 0,74 | 0,05 - 0,74 | 0,05 - 0,74 | 0,05 - 0,74 | 0,05 - 0,74 |
| | 15 | 20 | 20 | 20 | 20 | 20 |
| | 0,62 - 0,98 | 0,62 - 0,98 | 0,62 - 0,98 | 0,62 - 0,98 | 0,62 - 0,98 | 0,62 - 0,98 |
| | | | | | | |
| | 2.4.4.2 | | | | | |



2.4.4.2 ñ 348

2.4.4.3

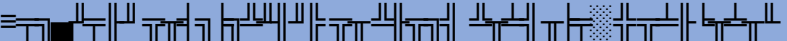
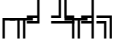
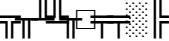
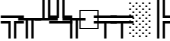
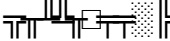
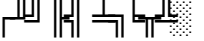
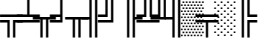
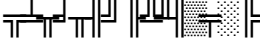
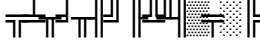
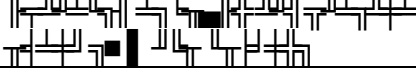
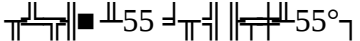
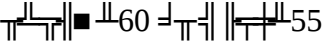
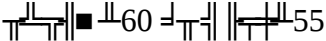
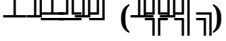
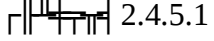
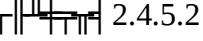
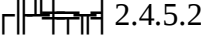


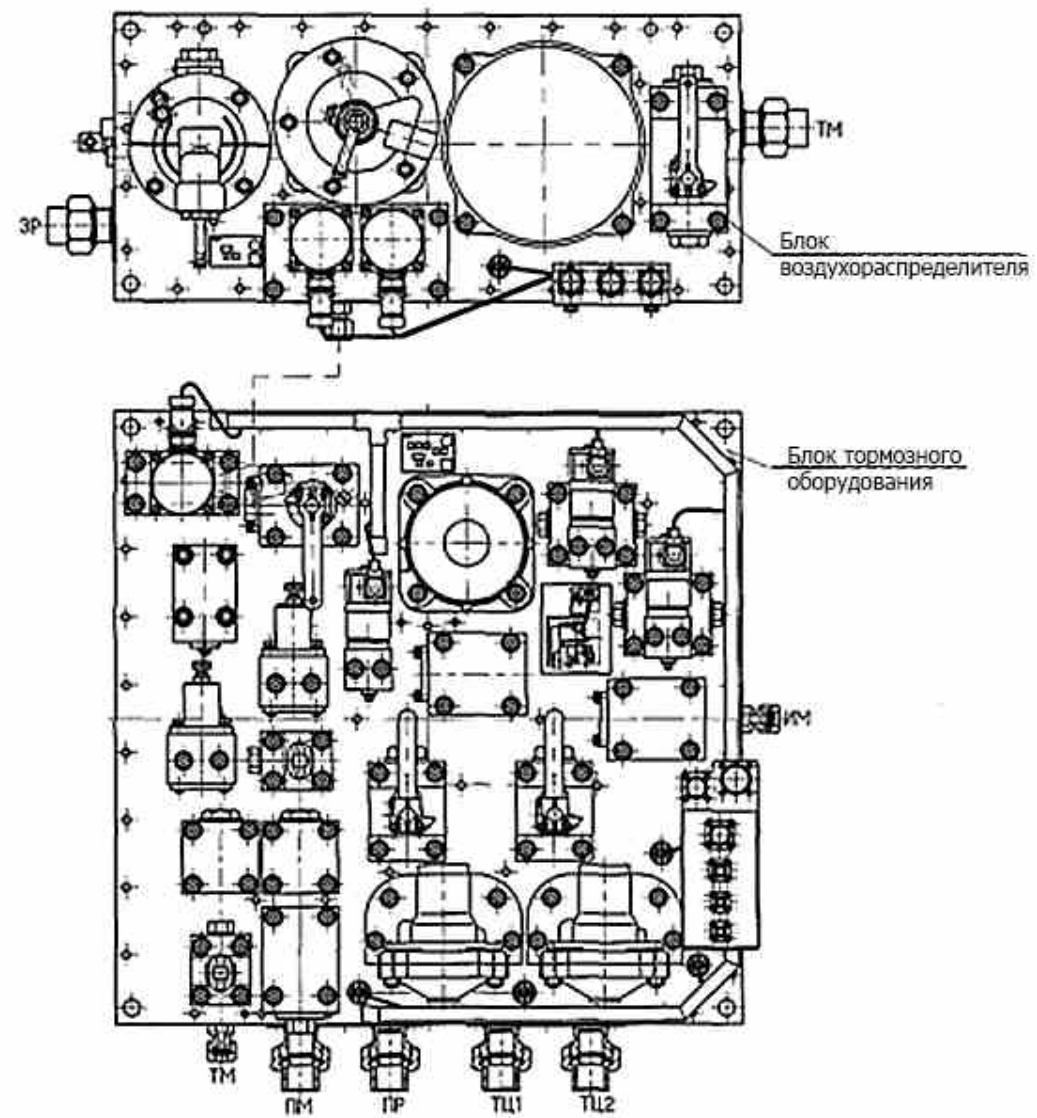
2.4.4.4 - 211

2.4.5 ∞|| ||-||-|| ||-||-|| ||-||-|| ||-||-|| ||

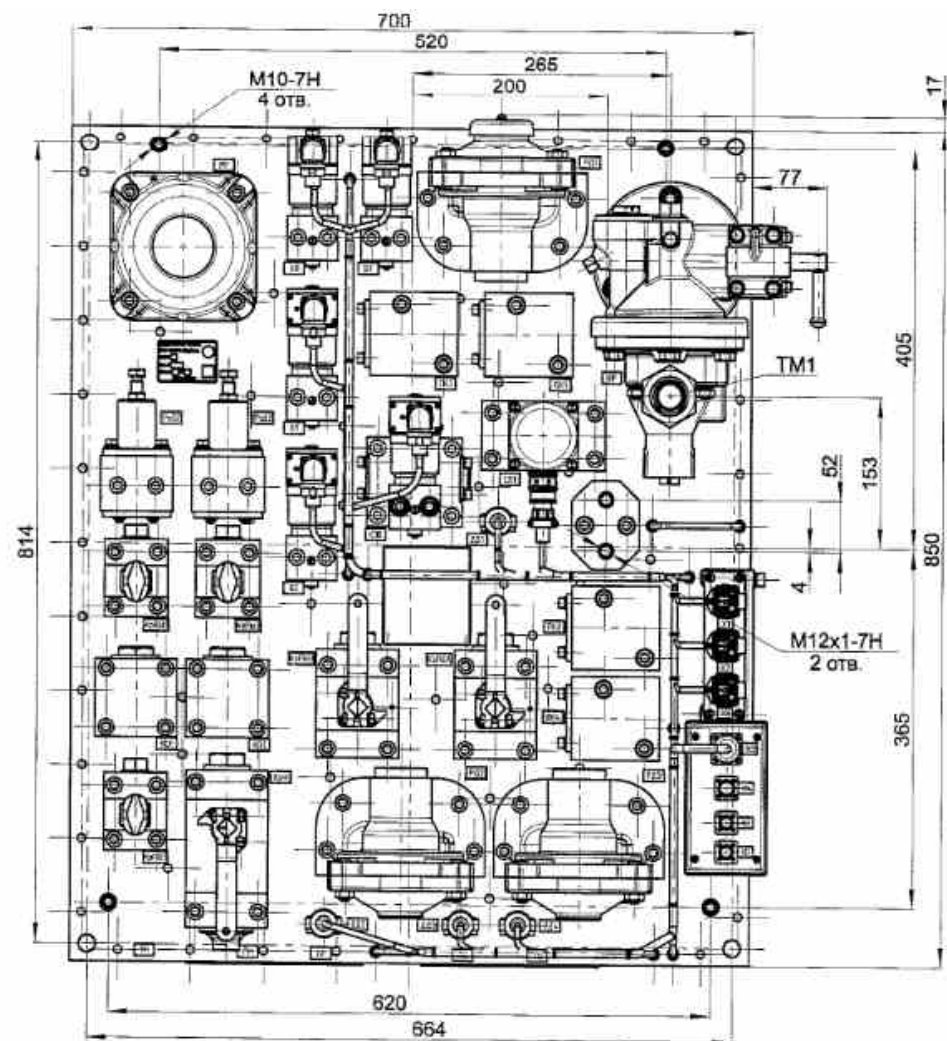
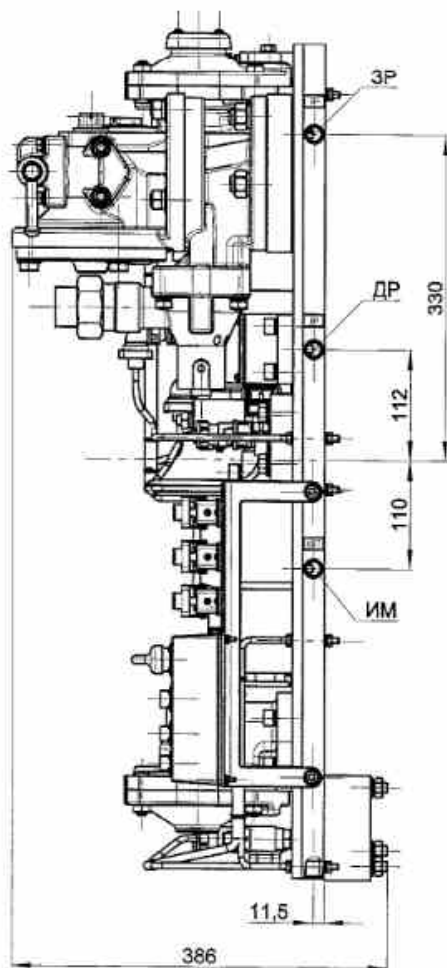
2.4.5.1 ∞|| ||-||-|| ||-||-|| ||-||-|| ||-||-|| ||

| - - - - - - - - | - - - - - - - - | | |
|-------------------------------------|---|---|---|
| | 010-1 | 030-4 | 030-5 |
| - - - - - - - - | √- L L√ √+ | | |
| - - - - - - - - | - - - - - - - - | | |
| - - - - - - - - - | - - - - - - - - | | |
| - - - - - - - - | 70,1 | 123 | 124 |
| - - - - - - - - | 275 600 730 | 780×870×390 | 780×870×390 |
| △ - - - - - - - - | ┘ 2; L2 - - - - - - - - | ┘ 2; L2 - - - - - - - - | ┘ 2; L2 - - - - - - - - |
| ┘ - - - - - - - - | | | |
| - - - - - - - - | 0,50-0,52 | 0,48-0,55 (4,8-5,5) | 0,48-0,55 (4,8-5,5) |
| - - - - - - - - | 0,70-1,0 | 0,75-0,90 (7,5-9,0) | 0,75-0,90 (7,5-9,0) |
| - - - - - - - - | 1,0 (10,0) | 1,0 (10,0) | 1,0 (10,0) |

|  |  | | |
|---|--|---|---|
| | 010-1 | 030-4 | 030-5 |
|  |  |  |  |
|  |  |  |  |
|  | 110 | 50, 110 | 50, 110 |
|  |  |  |  |
|  |  |  |  |



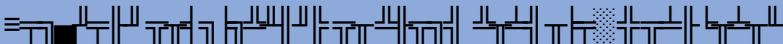
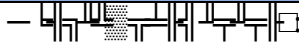
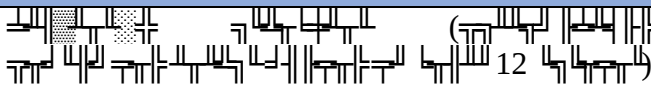
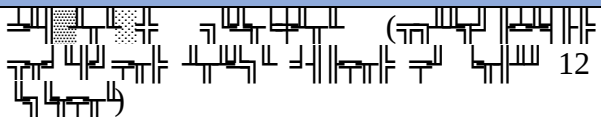
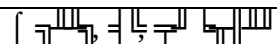
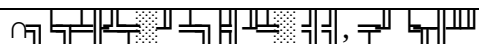
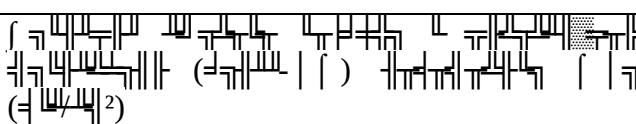
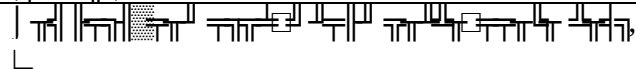
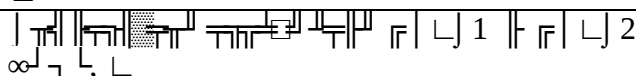
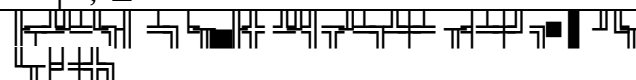
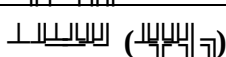
2.4.5.1 - ∞ 010

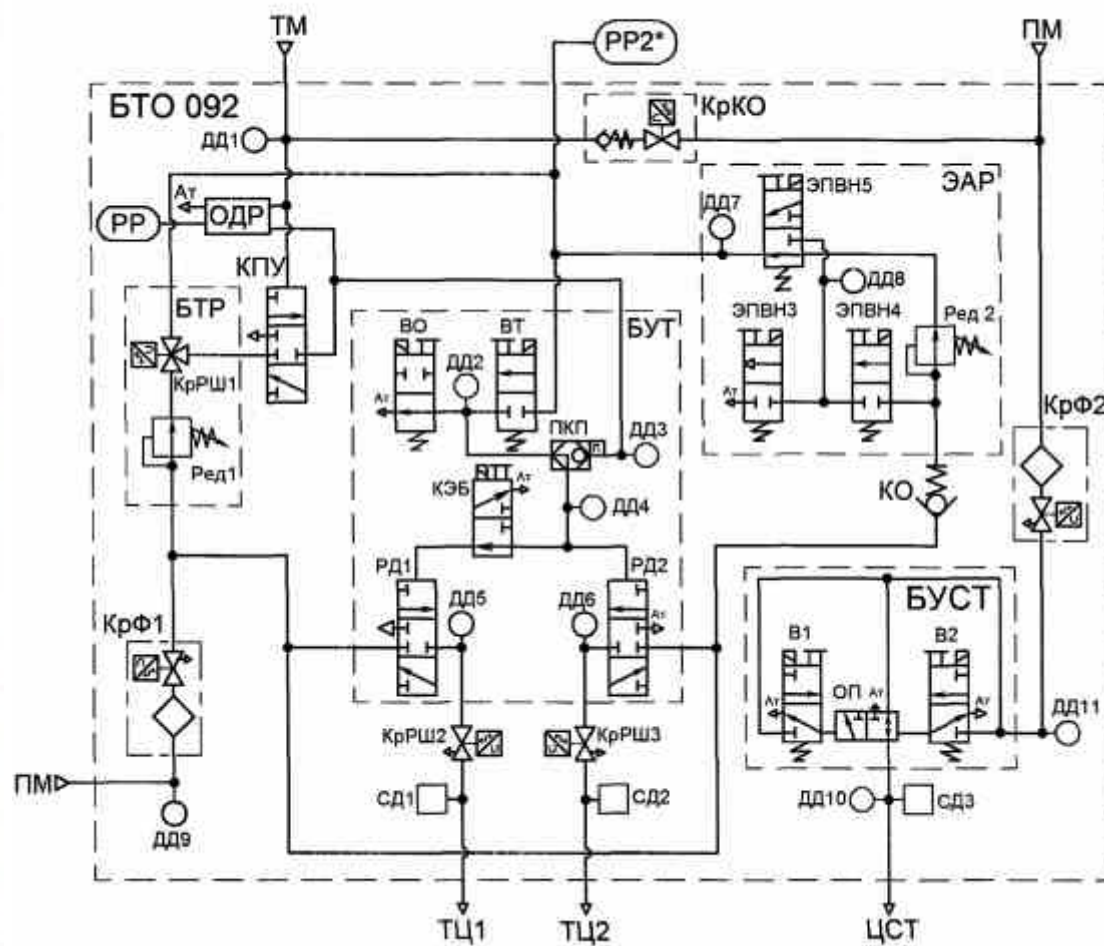
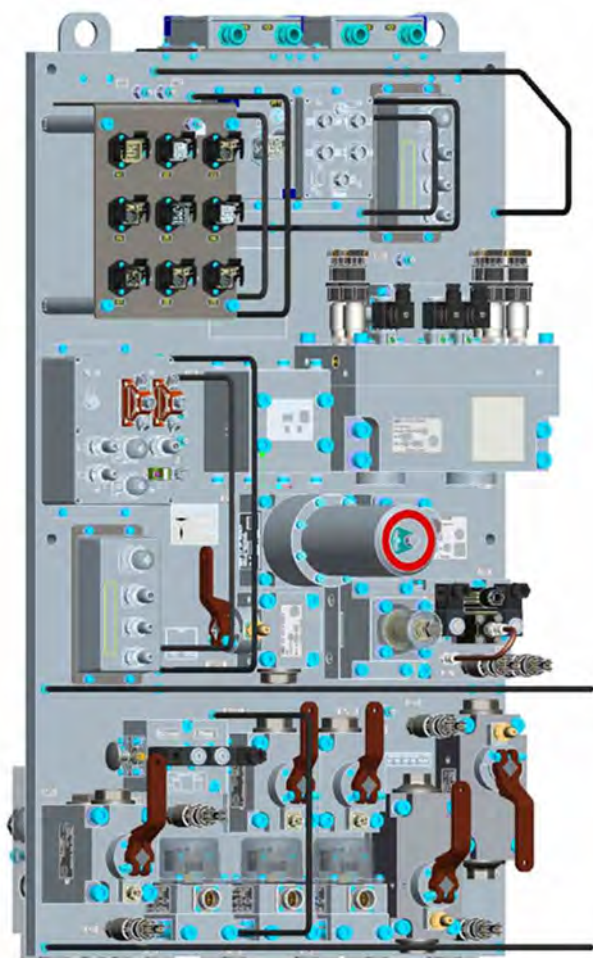


2.4.5.2 ∞ 030-4

2.4.5.2 ∞ (12) 12

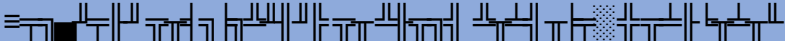
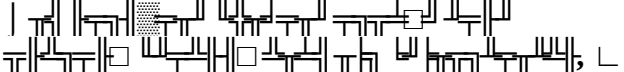
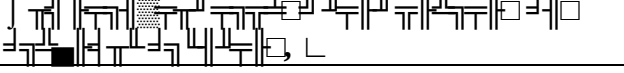
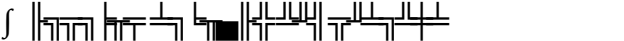
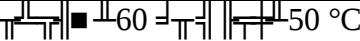
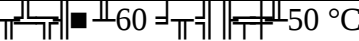
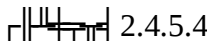
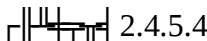
| <p>1</p> | <p>2</p> | |
|----------|------------|--------------|
| | <p>092</p> | <p>092-1</p> |
| <p>3</p> | <p>4</p> | <p>4</p> |
| <p>5</p> | <p>6</p> | <p>7</p> |

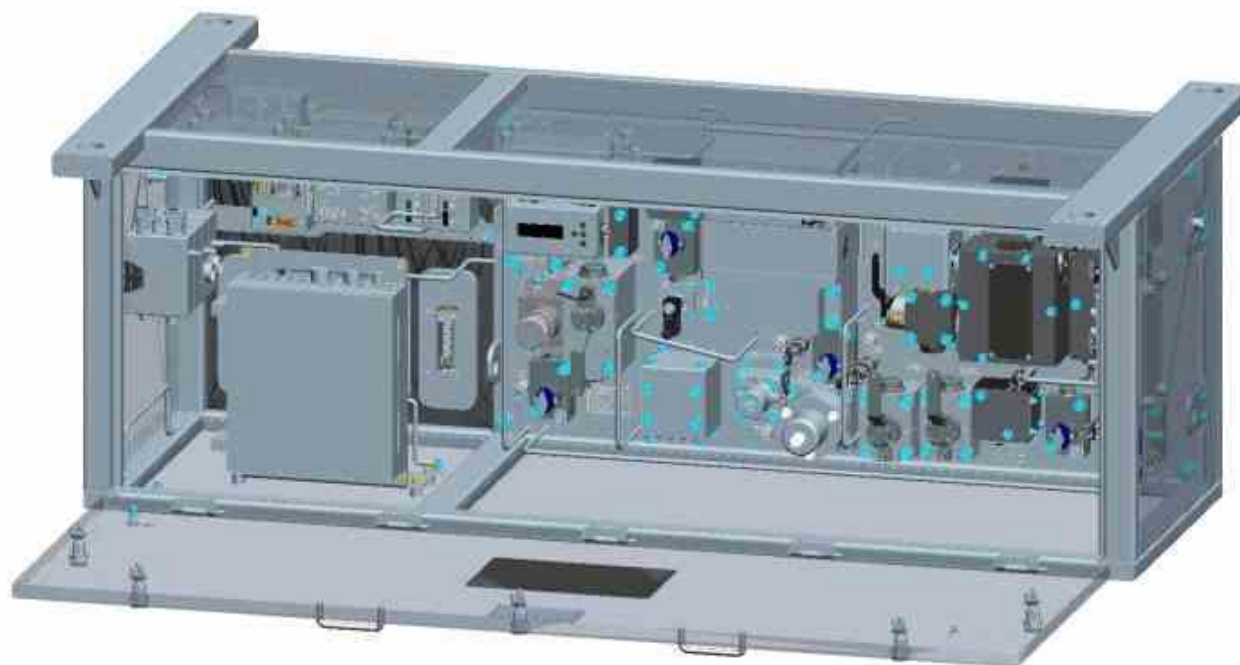
|  |  | |
|---|---|---|
| | 092 | 092-1 |
|  |  |  |
|  | 156 | 156 |
|  | | |
|  | 600-483-1050 | 600-483-1050 |
|  | 2 | 2 |
|  | 0,65-0,80 (6,6-8,2) | 0,65-0,80 (6,6-8,2) |
|  | 50 | 50 |
|  | 110 | - |
|  | 60 50 °C | 60 50 °C |
|  | 2.4.5.3 | 2.4.5.3 |



2.4.5.3 ∞ 092

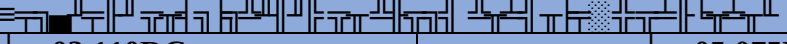
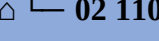
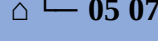
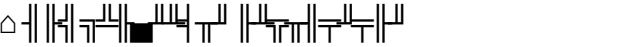
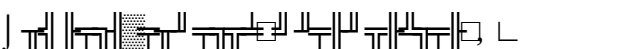
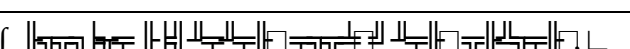
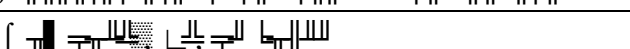
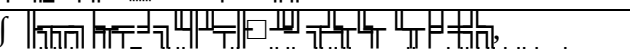
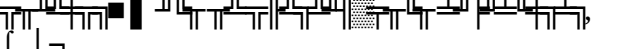
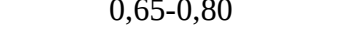
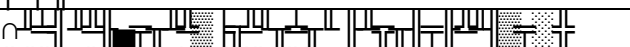
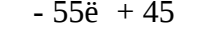
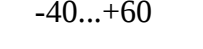
[illegible]

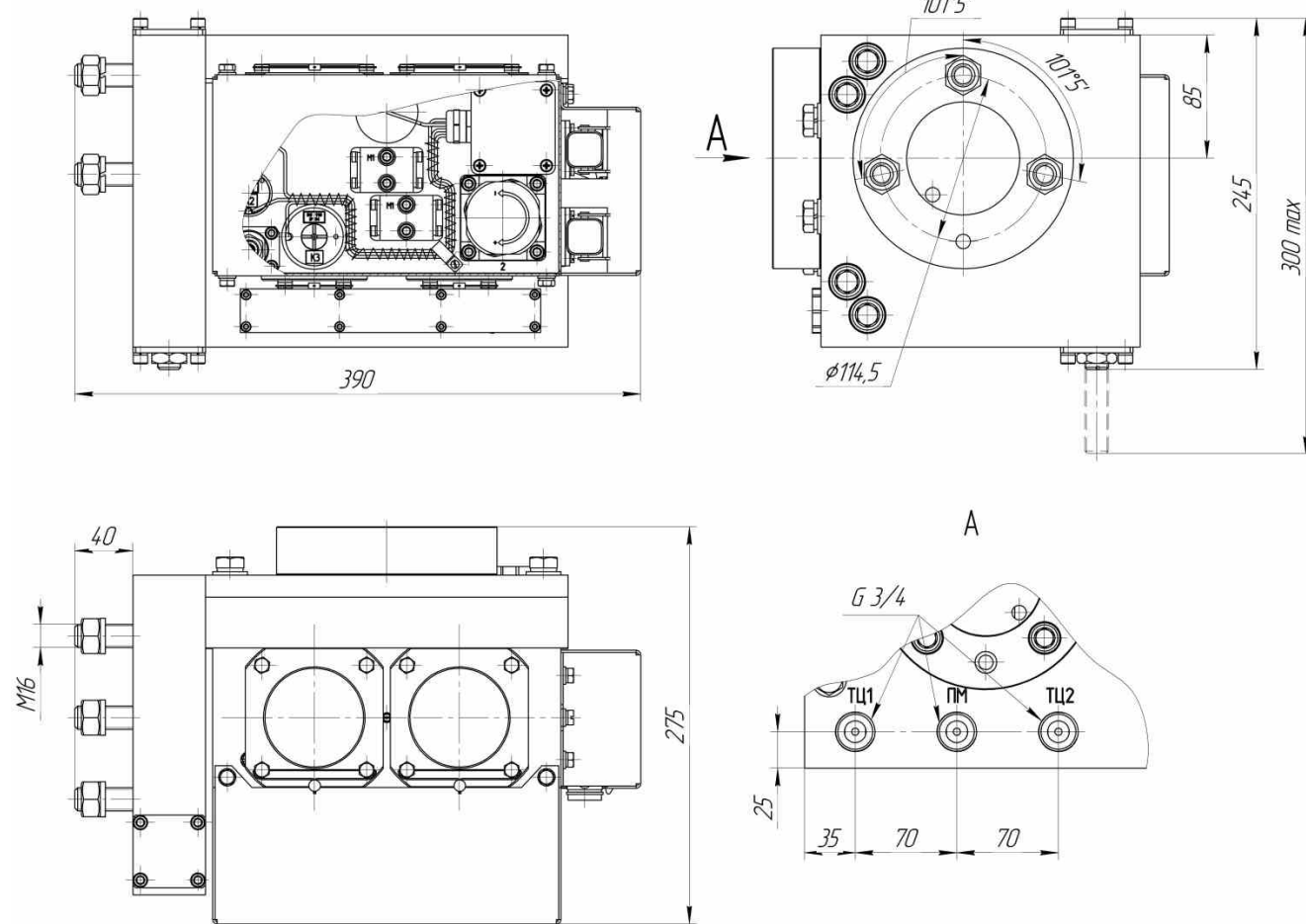
|  |  | |
|---|---|--|
| | 420 | 420△ |
|  | 110±10 | 110±10 |
|  | 5±1 | 5±1 |
|  | 15±3 | 15±3 |
|  | 20 | 20 |
|  |  60 50 °C |  60 50 °C |
|  |  2.4.5.4 |  2.4.5.4 |



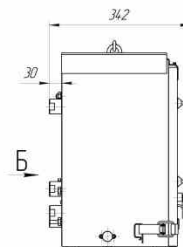
2.4.5.4 - 420

2.4.5.3

|  |  | |
|--|---|---|
| |  02 110DC |  05 075DC |
|  | - | 1190-1342-1496 |
|  | 1 | 1 |
|  | 25 | 25 |
|  | 110DC |  - 75DC
- 50 DC |
|  | 70-165 | 52-82 |
|  | 36 | - |
|  | 0,65-0,80 | 0,65-0,80 |
|  |  | |
|  | - 55ë + 45 | -40...+60 |
|  14254-2015 | - IP 55 | - IP 55 |
|  |  2.4.5.5 |  2.4.5.6 |

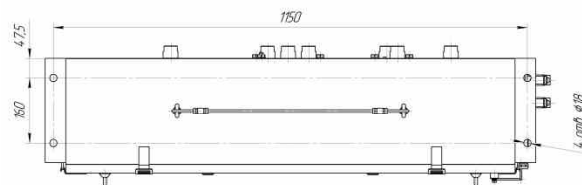


2.5.4.5 ñ 02 110DC

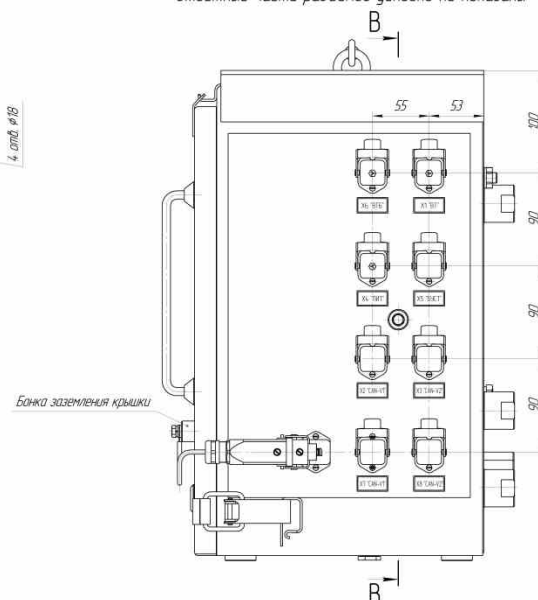
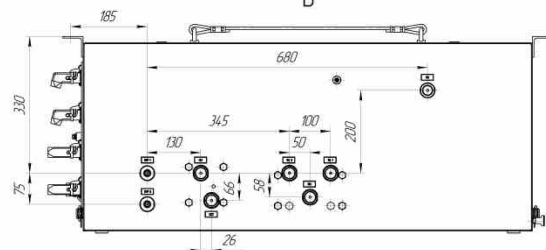


| Буквенно-цифровой код | Наименование | Присоединительный разъем |
|-----------------------|-------------------------------|--------------------------|
| ПНР1 | Фиберопрессор 1-ой тележки | M16x15 |
| ПНР2 | Фиберопрессор 2-ой тележки | |
| ЦСТ | Цилиндр сплоченного порозита | |
| НМ | Ножница нагильнотрост | M27x15 |
| ТМ | Торцевая нагильнотрост | |
| ПМ | Плутельная нагильнотрост | |
| ЦП1 | Цилиндр порозита 1-ой тележки | |
| ЦП2 | Цилиндр порозита 2-ой тележки | |

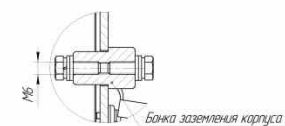
Ответные части разъемов условно не показаны



5



B-B(1:1)



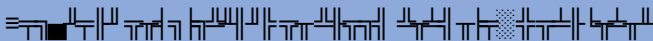
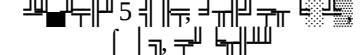
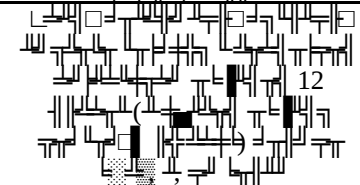
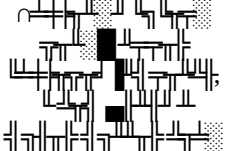
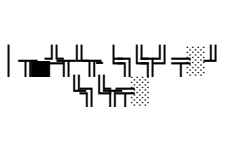
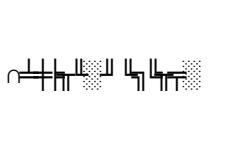
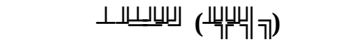
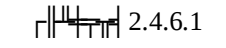
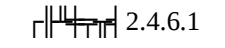
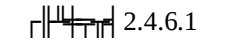
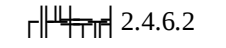
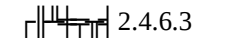
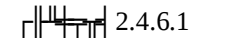
2.5.4.5

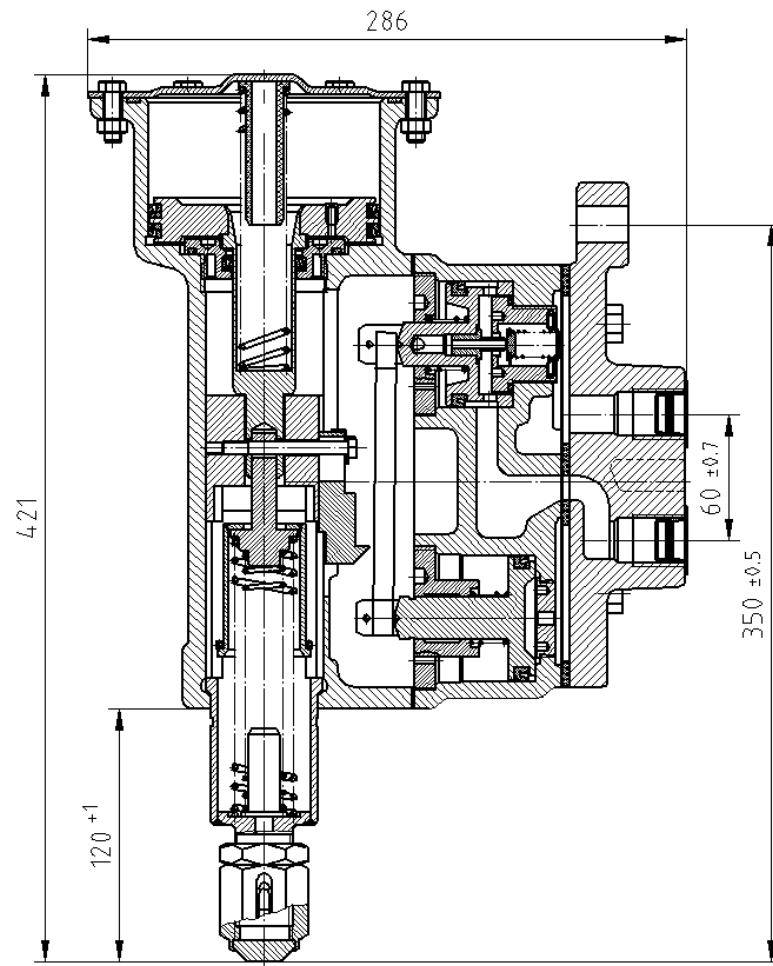
| ♂ | | |
|----|--|----|
| | | 15 |
| | | 3 |
| 10 | | |
| 11 | | |

2.4.6.2 √

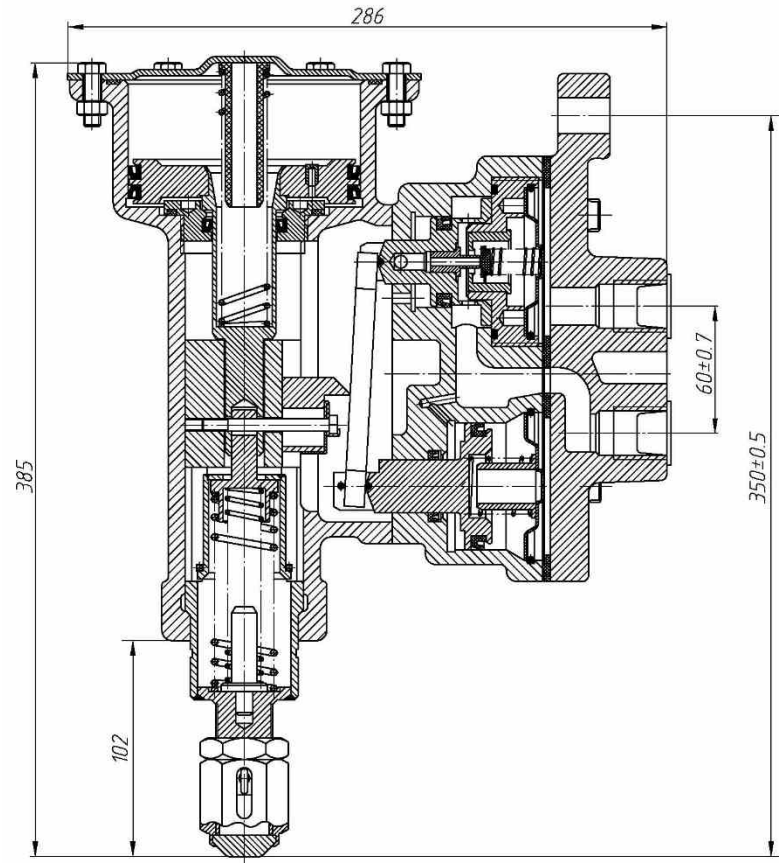
| | 265√ -5 | 265√ -5-01 | 265√ -4 | 265∞-1 | 605
() | 265√ -5-02 |
|--|-------------|--------------|--------------|-------------|--------------|-------------|
| | √ —
« » | √ —
« » | √ —
« » | √ —
« » | √ —
« » | √ —
« » |
| | 286-206-423 | 286-206-423 | 288-206-423 | 286-206-385 | 276-206-445 | 286-206-423 |
| | 22 | 22 | 20 | 21 | 21 | 22 |
| | 0,3 - 0,42 | 0,3 - 0,42 | 0,3 - 0,42 | 0,4 | 0,41 | 0,41 |
| | 0,11 - 0,18 | 0,135 - 0,18 | 0,135 - 0,18 | 0,26 | 0,135 - 0,18 | 0,11±0,01 |
| | 0,32±0,01 | 0,32±0,01 | 0,32±0,01 | 0,4 | 0,4 | 0,42±0,01 |
| | 120 | 120 | 120 | 90 | - | 120 |
| | 40 - 45 | 32 - 37 | 32 - 37 | 40 - 45 | 32 - 38 | 41 - 45 |

| | 265√ -5 | 265√ -5-01 | 265√ -4 | 265∞-1 | 605
() | 265√ -5-02 |
|--|---------|------------|---------|---------|------------|------------|
| | | | | | | |
| | 20 - 80 | 20 - 80 | 20 - 80 | 20 - 80 | 20 - 80 | 18 - 80 |
| | 15 | 15 | 15 | 15 | 15 | 15 |
| | 0,03 | 0,03 | 0,03 | 0,03 | 0,03 | 0,03 |
| | 0,01 | 0,01 | 0,01 | 0,01 | 0,01 | 0,01 |

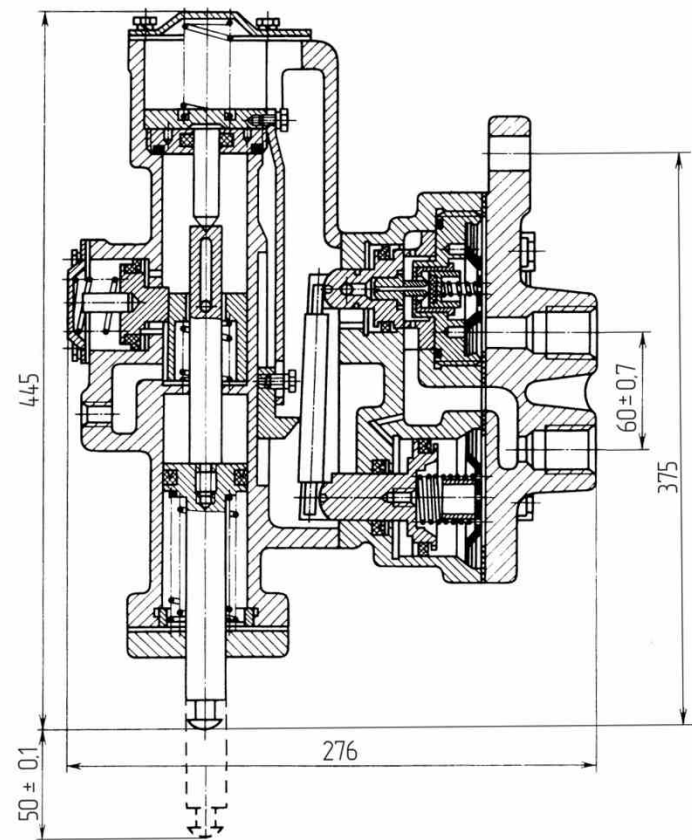
| |  | | | | | |
|--|--|---|--|--|--|--|
| | 265√ -5 | 265√ -5-01 | 265√ -4 | 265∞-1 | 605
 | 265√ -5-02 |
|  | | | | | | |
|  | 0,01 | 0,01 | 0,01 | 0,01 | 0,01 | 0,01 |
|  | 7 | 7 | 7 | 7 | 7 | 7 |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |



2.4.6.1 √ 265√



2.4.6.2 √ 265∞

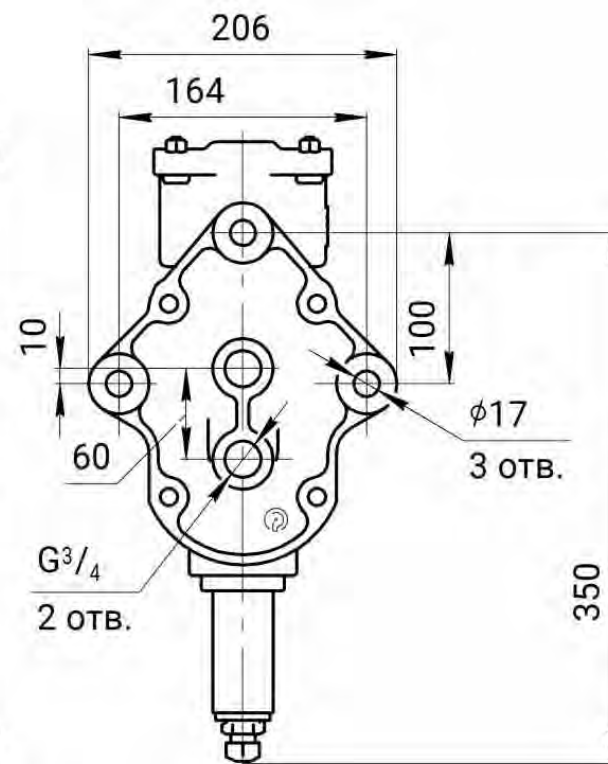
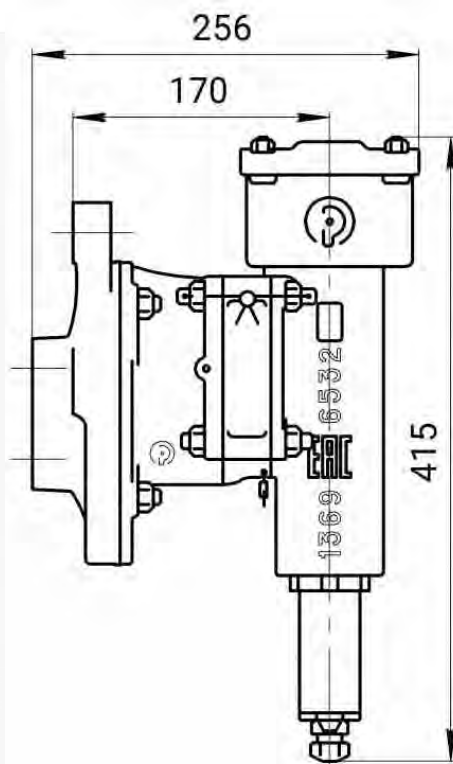


2.4.6.3 √ 605

2.4.6.3 - √ 6532. ለሕመምተኛው የሚሰጠው የጥገና ደረጃ

| የጥገና ደረጃ | የሕመምተኛው የሚሰጠው የጥገና ደረጃ | | | | | | |
|---|------------------------|----------------|----------------|----------------|----------------|----------------|----------------|
| | 6532 | | | 6532-01 | | | |
| ≤ ተፈጻሚ የሆነው | 6532.1 | 6532.2 | 6532.3 | 6532-01.1 | 6532-01.2 | 6532-01.3 | 6532-01.4 |
| የጥገና ደረጃ | 120 ⁺² | | | | | | |
| የጥገና ደረጃ | 30,4 ± 3 | | | 38,4 ± 3 | | | |
| የጥገና ደረጃ (0,32 ± 0,01) ለጥገና ደረጃ | | | | | | | |
| የጥገና ደረጃ | 0,11
±0,01 | 0,135
±0,01 | 0,16
±0,01 | 0,11
±0,01 | 0,135
±0,01 | 0,16
±0,01 | 0,135
±0,01 |
| የጥገና ደረጃ (18,4 ± 0,5) ለጥገና ደረጃ 6532 ለጥገና ደረጃ (14,4 ± 0,5) ለጥገና ደረጃ 6532-01, ለጥገና ደረጃ | 0,17
±0,02 | 0,19
±0,02 | 0,21
±0,02 | 0,17
±0,02 | 0,19
±0,02 | 0,21
±0,02 | 0,19
±0,02 |
| የጥገና ደረጃ (36,4.1) ለጥገና ደረጃ 6532 ለጥገና ደረጃ (28,4.1) ለጥገና ደረጃ 6532-01 (50% የጥገና ደረጃ) | የጥገና ደረጃ | | | | | | |
| የጥገና ደረጃ (40,4 ⁺¹) ለጥገና ደረጃ 6532 ለጥገና ደረጃ (32,4 ⁺¹) ለጥገና ደረጃ 6532-01 (90% የጥገና ደረጃ) | የጥገና ደረጃ | | | | | | |
| የጥገና ደረጃ (55 ± 0,5) ለጥገና ደረጃ | የጥገና ደረጃ | | | | | | |
| የጥገና ደረጃ 0,04 ለጥገና ደረጃ | 15 | | | | | | |
| የጥገና ደረጃ 12 ለጥገና ደረጃ (0,32 ± 0,01) ለጥገና ደረጃ | 7 | | | | | | |
| የጥገና ደረጃ (0,42 ± 0,01) ለጥገና ደረጃ | | | | | | | |
| የጥገና ደረጃ | 0,14
±0,015 | 0,18
±0,015 | 0,21
±0,015 | 0,14
±0,015 | 0,18
±0,015 | 0,21
±0,015 | 0,17
±0,015 |
| የጥገና ደረጃ (55 ± 0,5) ለጥገና ደረጃ | የጥገና ደረጃ | | | | | | |
| የጥገና ደረጃ | 120 | | | | | | |

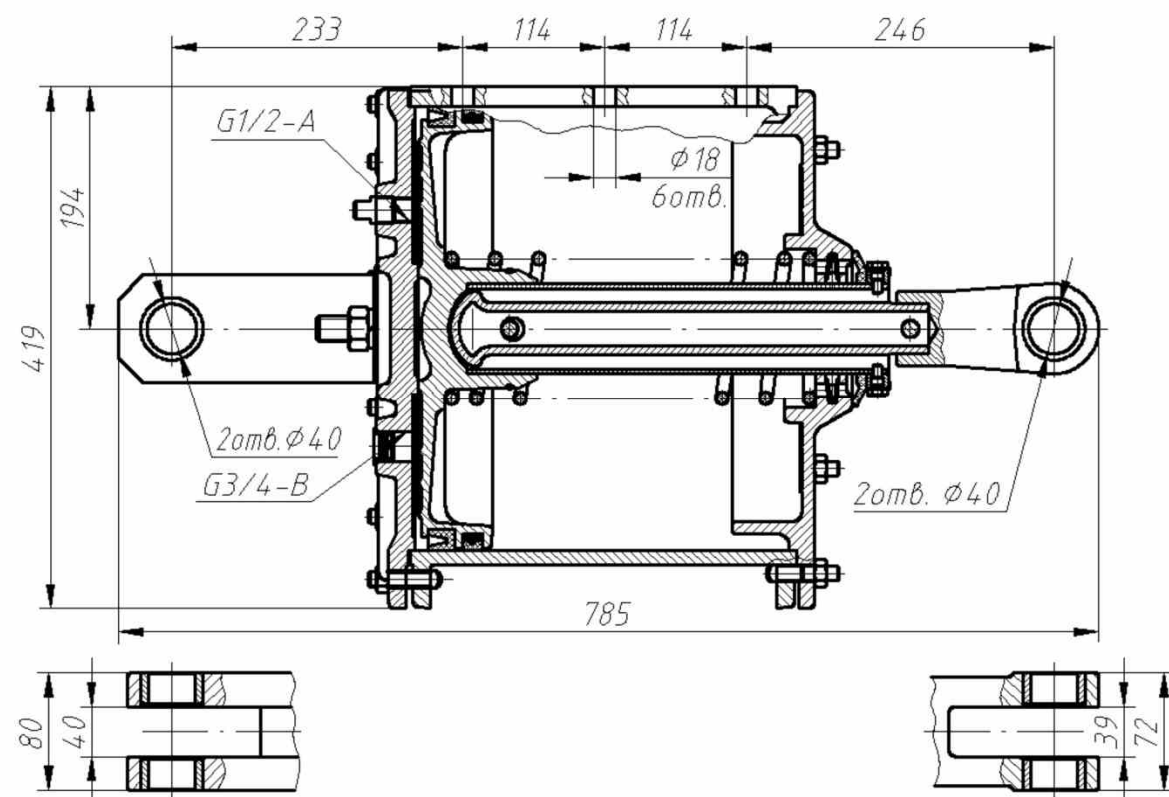
| | | | | | | | |
|--|-----------------|---|---|---|---|---|-----------------------|
| <p>רד ר (0,4^{+0,02}) שטח פנימי רגולרי שטח פנימי רגולרי שטח פנימי רגולרי שטח פנימי רגולרי שטח פנימי רגולרי שטח פנימי רגולרי</p> | - | - | - | - | - | - | 0,16 ^{+0,01} |
| <p>רד ר (40⁻¹) שטח פנימי רגולרי שטח פנימי רגולרי שטח פנימי רגולרי שטח פנימי רגולרי שטח פנימי רגולרי שטח פנימי רגולרי</p> | - | - | - | - | - | - | שטח פנימי רגולרי |
| <p>שטח פנימי רגולרי שטח פנימי רגולרי שטח פנימי רגולרי שטח פנימי רגולרי שטח פנימי רגולרי שטח פנימי רגולרי שטח פנימי רגולרי שטח פנימי רגולרי</p> | 17 | | | | | | |
| <p>שטח פנימי רגולרי שטח פנימי רגולרי שטח פנימי רגולרי שטח פנימי רגולרי שטח פנימי רגולרי שטח פנימי רגולרי שטח פנימי רגולרי שטח פנימי רגולרי</p> | 415 x 206 x 256 | | | | | | |



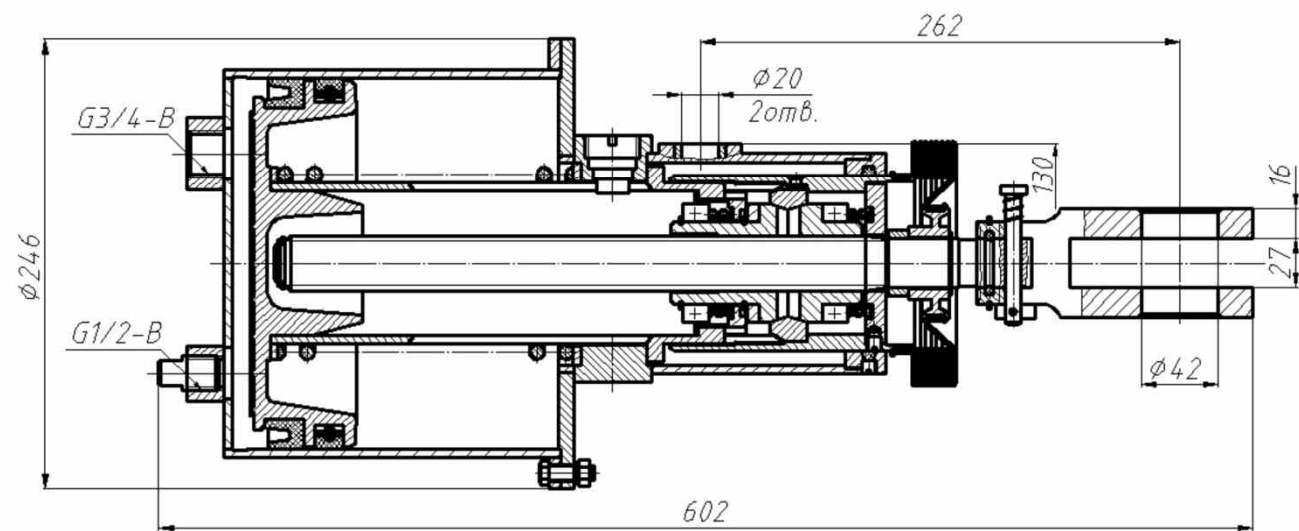
2.4.6.4 - √ 6532

2.5.1.2

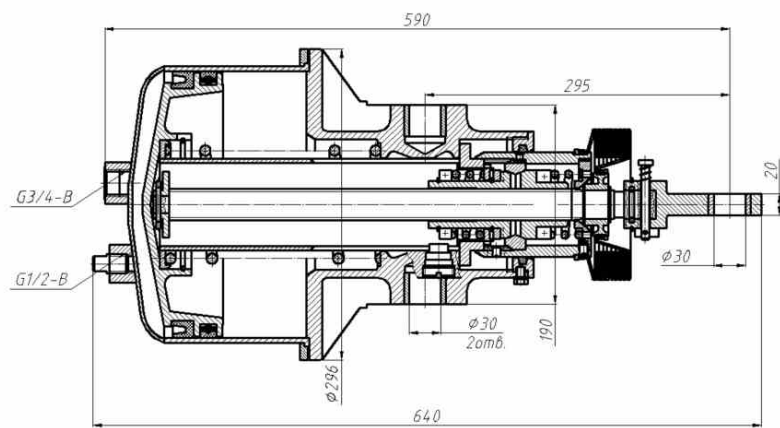
| | 627 | 670 | 10 | 10-40 | 10-60 | 10-75 |
|--|-------------|-------------|-----------------------------------|------------------------------|-----------------------------------|-----------------------------------|
| | √— | √— « | √— « | √— « | √— « | √— « |
| | 0,6 | 0,6 | 0,6 | 0,6 | 0,6 | 0,6 |
| | 356 | 203 | 254 | 254 | 254 | 254 |
| | - | - | - | 203 | - | - |
| | 190 | 100 | 100 | 40/100 | 60/100 | 75/100 |
| | 245 | 245 | 245 | 245 | 245 | 245 |
| | 27,44 | 27,44 | 27,44 | 27,44 | 27,44 | 27,44 |
| | | | | | | |
| | G 1/2 ñ L | G 1/2 ñ L | ñ G 3/4 ñ L/
ñ L/ G
3/4 ñ L | ñ G 3/4
ñ L/ G
3/4 ñ L | ñ G 3/4 ñ L/
ñ L/ G
3/4 ñ L | ñ G 3/4 ñ L/
ñ L/ G
3/4 ñ L |
| | 800/424/453 | 612/248/248 | 646/302/300 | 843/300/310 | 843/300/310 | 843/300/310 |
| | 115 | 37 | 48 | 74 | 74 | 74 |
| | 1. 2. 3. | | | | | |
| | | | | | | |
| | 2.5.1.1 | 2.5.1.2 | - | 2.5.1.3 | - | - |



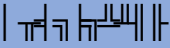
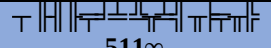
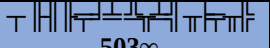
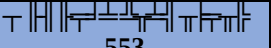
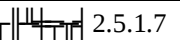
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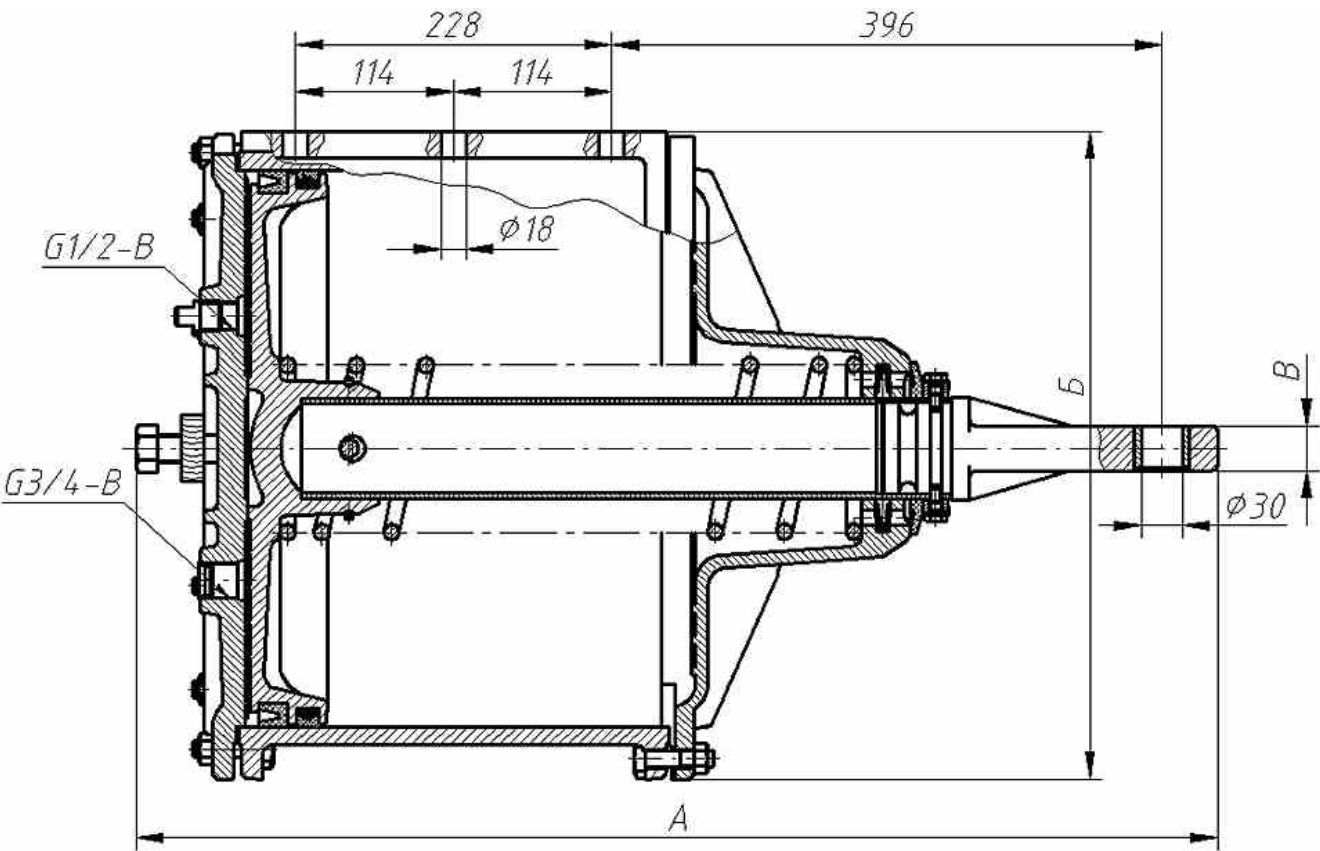


2.5.1.2 670 L

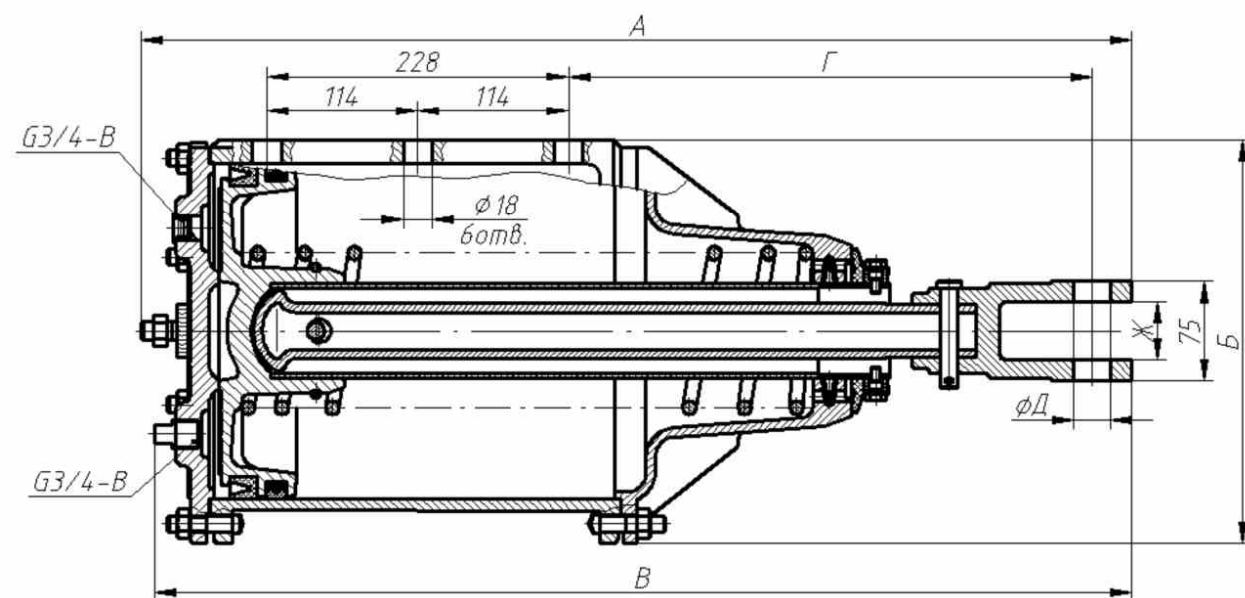


2.5.1.3 10-40-1

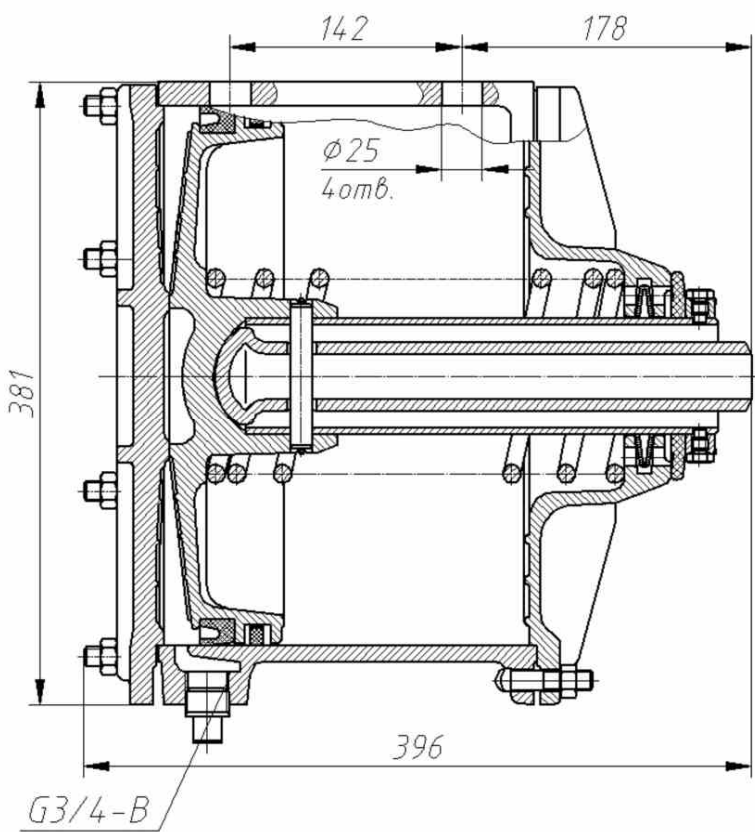
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|---|---|--|---|---|--|
| | 
511 ∞ | 
502 ∞ | 
507 ∞ | 
503 ∞ | 
553 |
|  | 
2.5.1.4 | 
2.5.1.5 | 
2.5.1.6 | - | 
2.5.1.7 |



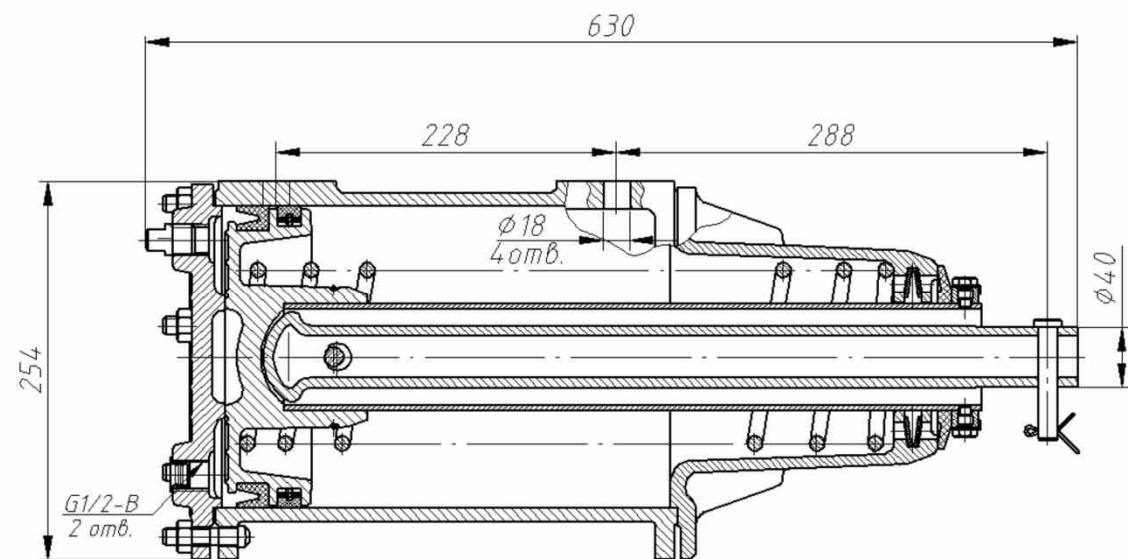
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 188 ∞ , 508 ∞ , 511 ∞ , 519 $\vee$



2.5.1.5 Т 502∞

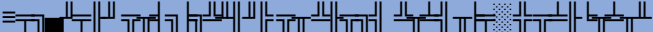
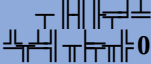
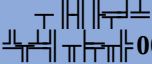
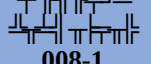
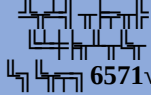
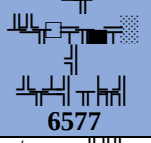
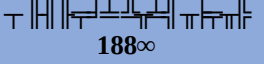
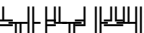
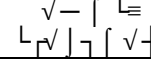
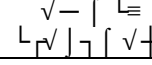
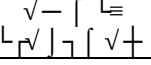
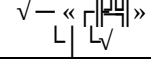
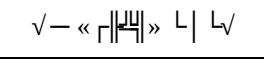
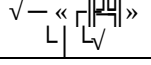
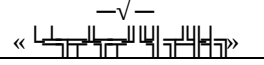
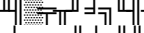
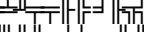
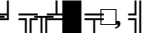
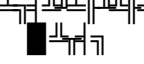
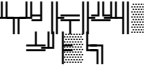
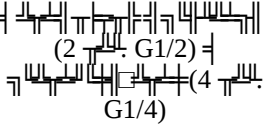
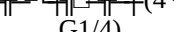
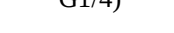
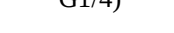
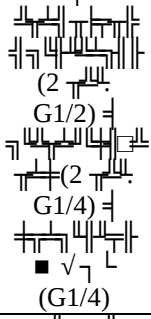
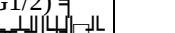
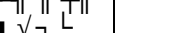
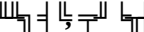
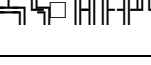
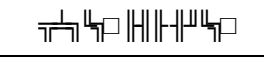
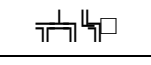
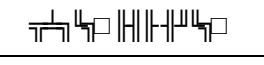
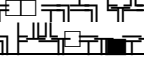


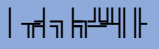
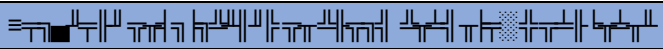
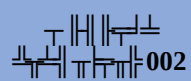
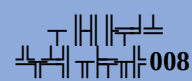
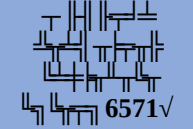
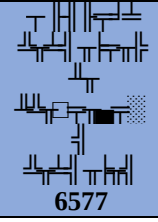
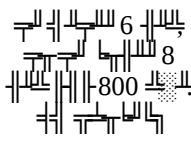
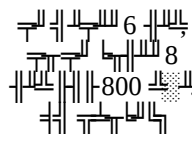
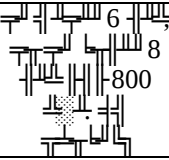
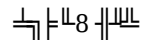
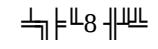
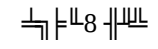
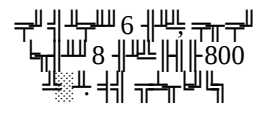
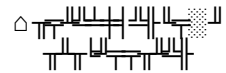
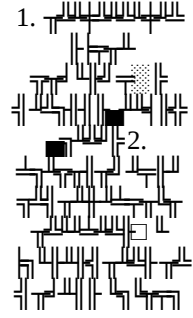
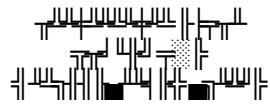
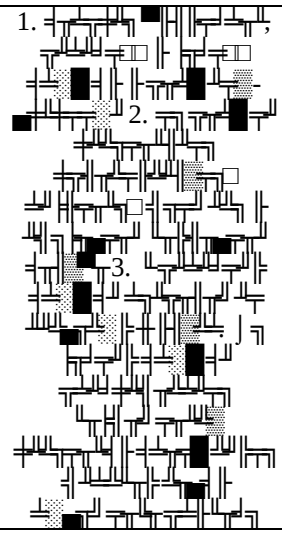
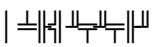
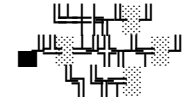
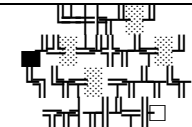
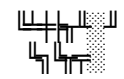
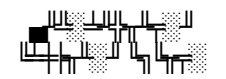
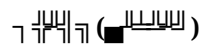
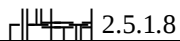
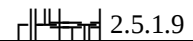
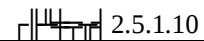
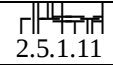
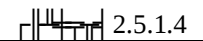
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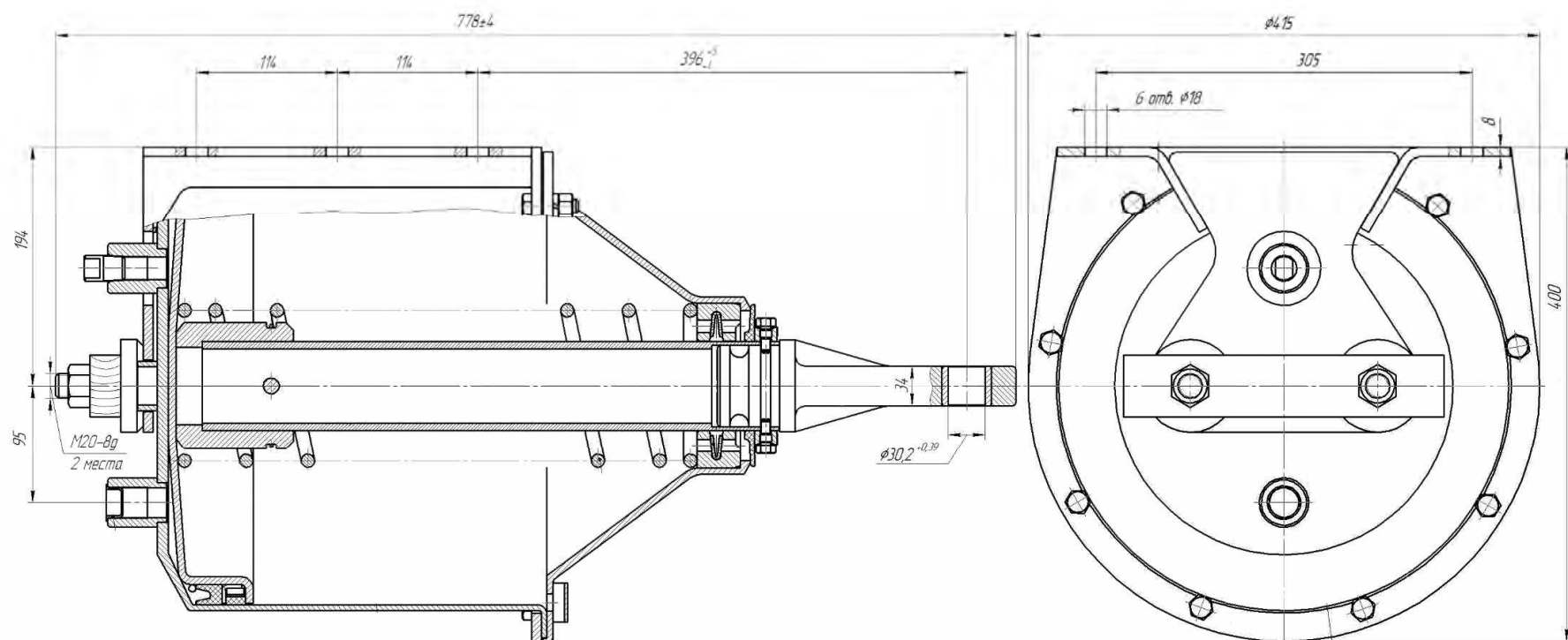


2.5.1.7 553

2.5.1.3

|  |  | | | | | | |
|---|--|--|---|---|--|---|---|
| |  002 |  008 |  008-1 |  6571 √ |  6573 |  6577 |  188 [∞] |
|  |  |  |  |  |  |  |  |
|  | 0,6 | 0,6 | 0,6 | 0,6 | 0,6 | 0,6 | 0,6 |
|  | 356 | 254 | 254 | 254 | 254 | 254 | 356 |
|  | 240 | 125 | 240 | 125 | 125 | 125 | 240 |
|  |  | | | |  | |  |
|  | G3/4 | G3/4 | G3/4 | G 3/4 | 
(2  : G1/2)   (4  : G1/4) | 
(2  : G1/2)   (2  : G1/4)    (G1/4) | G 3/4 - L |
|  | 780-420-405 | 654-302-312 | 780-302-313 | 635-335-315 | 630-310-330 | 950-310-330
0 | 785-453-424 |
|  | 69 | 45 | 52 | 56 | 60 | 100 | 115 |
|  |  |  |  |  |  |  |  |
|  | 32 | 32 | 32 | 32 | 20 | 40 | 32 |
|  | - | - | - | - | - | 50 000 | - |

|  |  | | | | | | |
|---|---|---|--|---|--|--|---|
| |  002 |  008 |  008-1 |  6571√ |  6573 |  6577 |  188∞ |
|  | | | | | | | |
|  |  |  |  |  |  |  |  |
|  | - | - | |  |  | - |  |
|  |  |  |  |  |  |  |  |
|  |  2.5.1.8 | - | - |  2.5.1.9 |  2.5.1.10 |  2.5.1.11 |  2.5.1.4 |



2.5.1.8 002

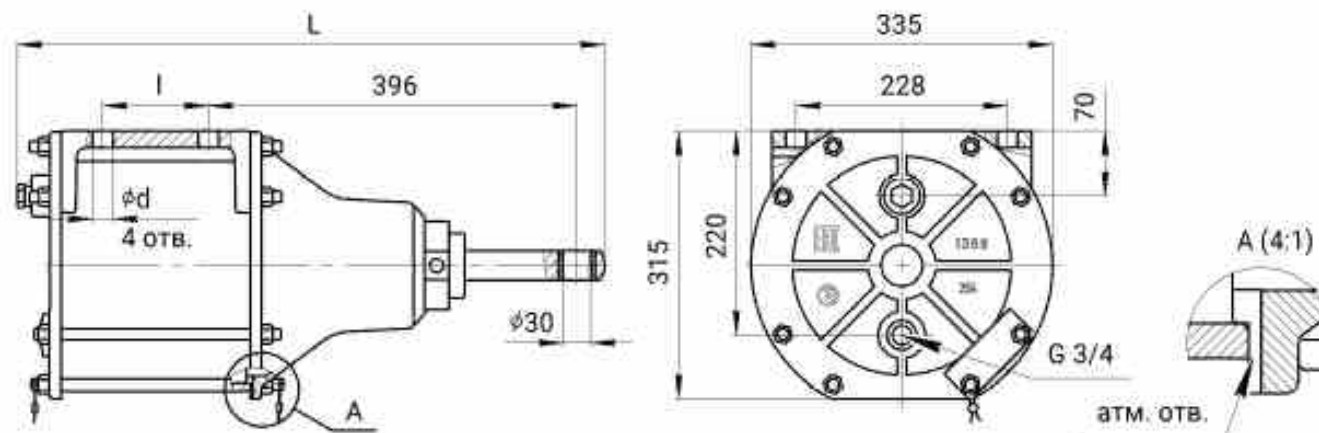


Рис. 2
Остальное - см. рис. 1



Рис. 3
Остальное - см. рис. 1

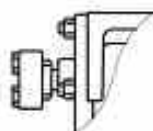


Рис. 4
Остальное - см. рис. 1

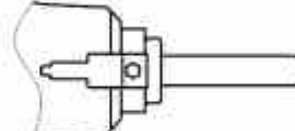
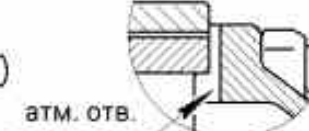
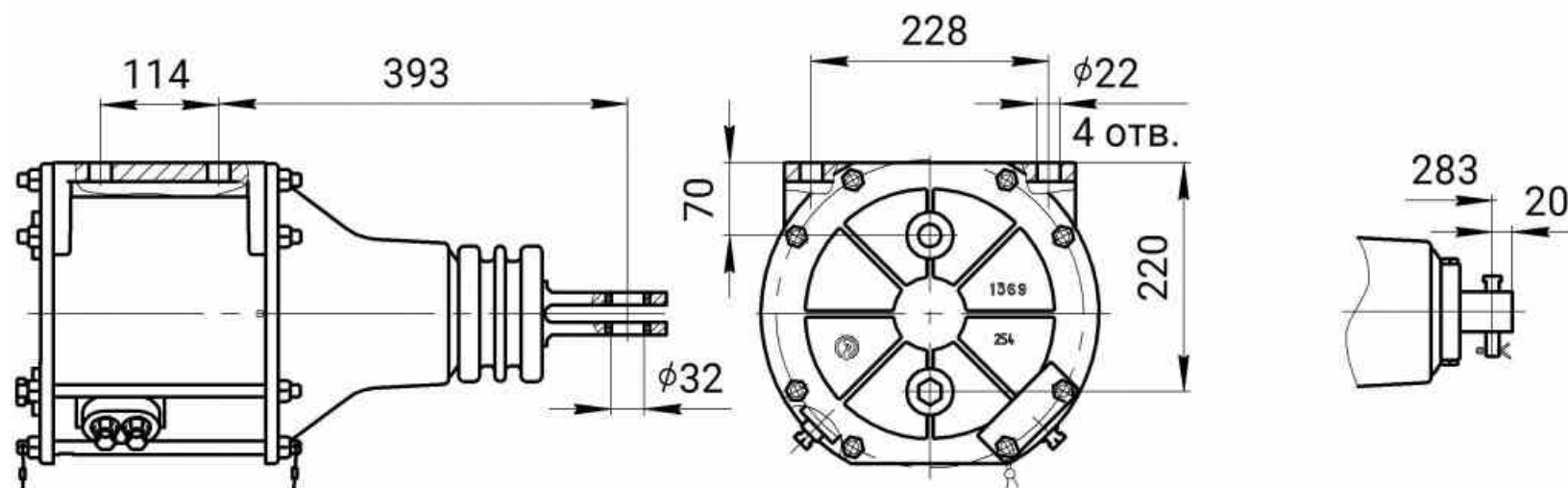


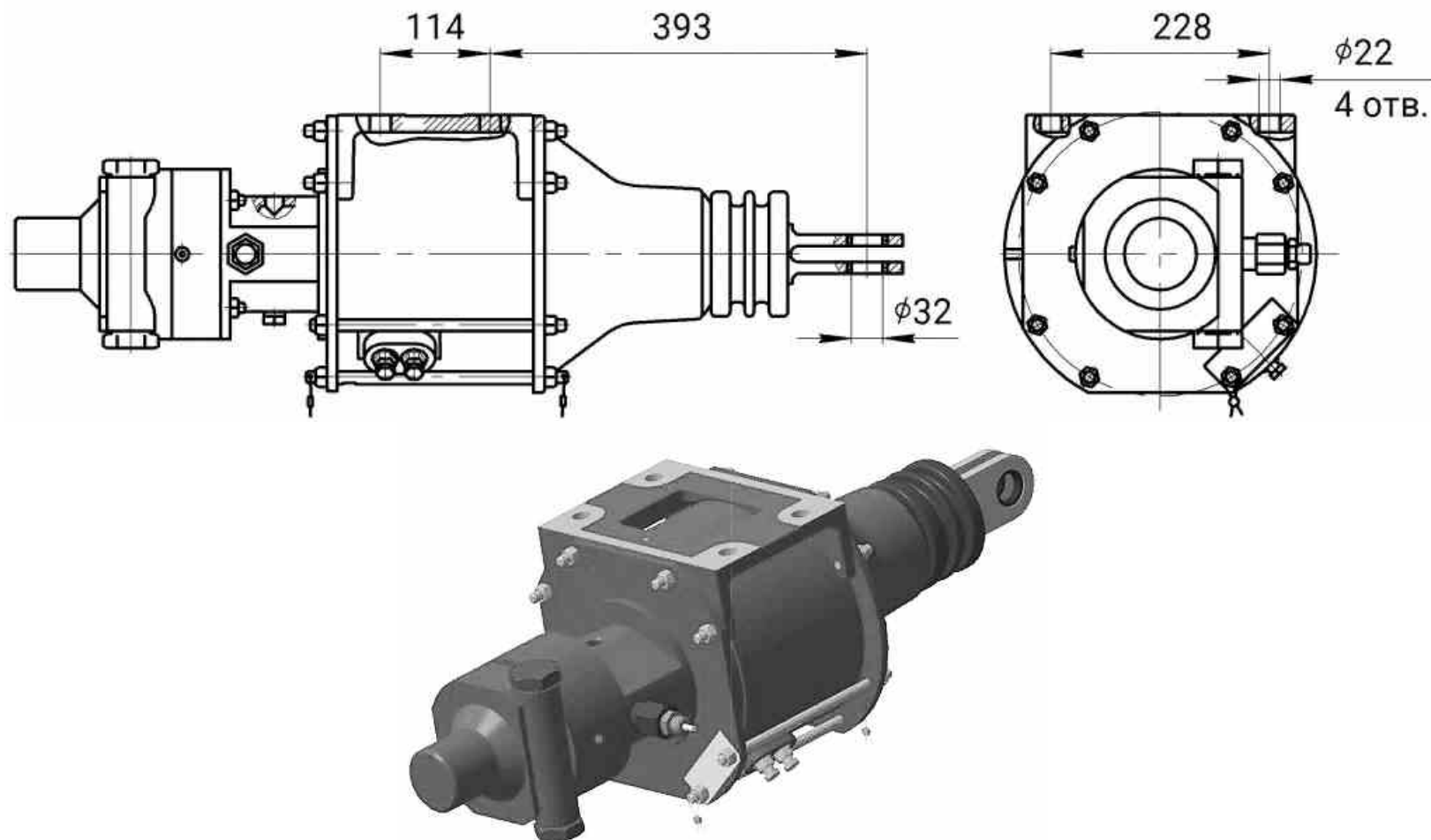
Рис. 5
Остальное - см. рис. 1



2.5.1.9 6571V

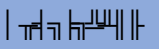
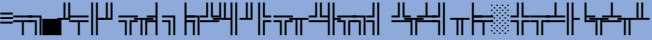
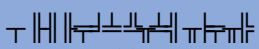
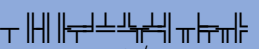
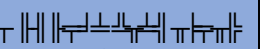
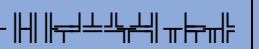
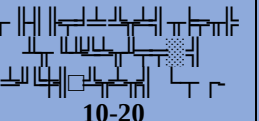
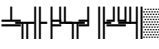
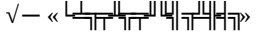
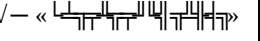
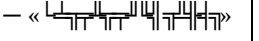
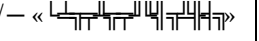
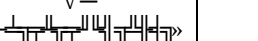
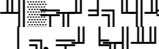
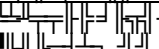
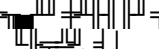
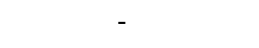
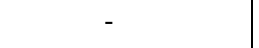
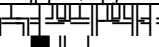
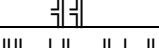
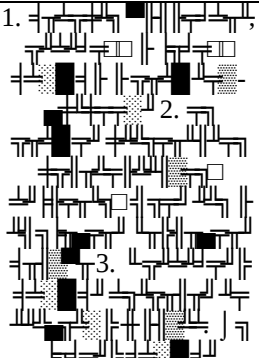
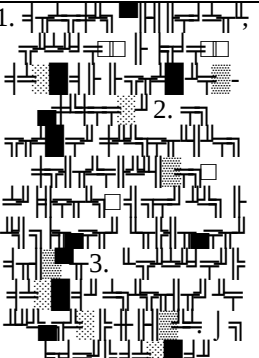
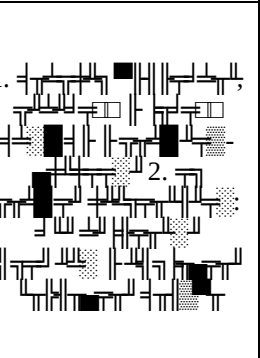
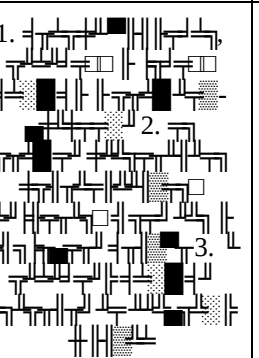


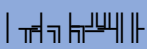
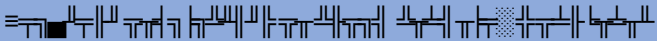
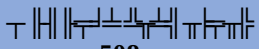
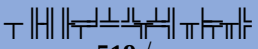
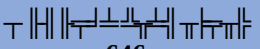
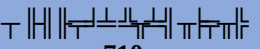
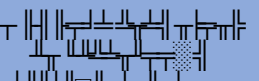
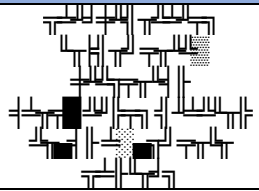
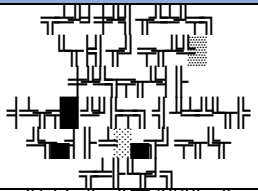
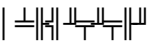
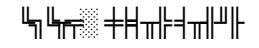
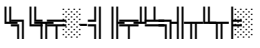
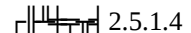
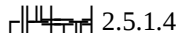
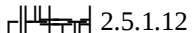
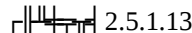
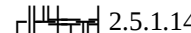
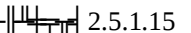
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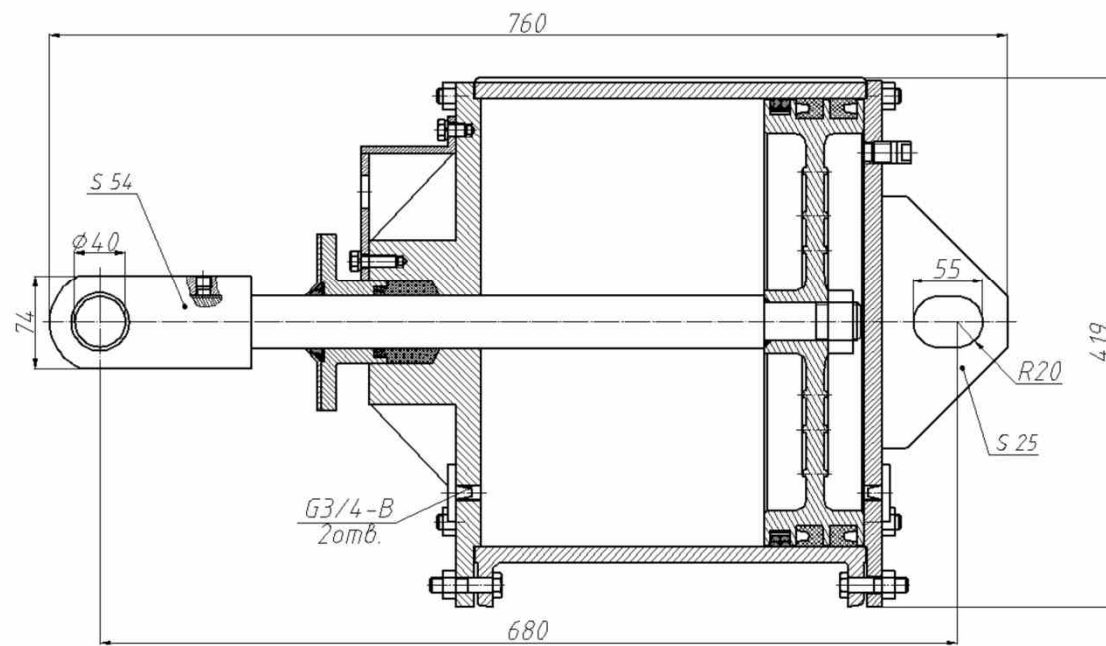


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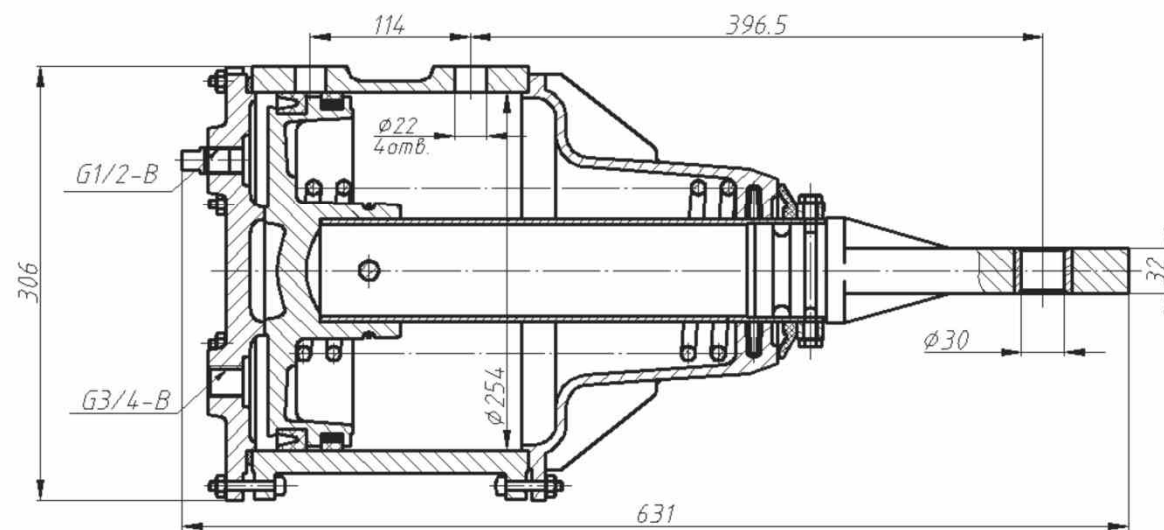
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508 [∞] | 
519 [√] | 
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|  | √ - «  » | √ - «  » | √ - «  » | √ - «  » | √ - «  » | √ - «  » |
|  | 0,6 | 0,6 | 0,6 | 0,6 | 0,4 | 0,4 |
|  | 254 | 400 | 356 | 254 | 254 | 254 |
|  | 240 | 240 | 190 | 125 | 20 | 
85/115 |
|  | - | - | - | - | 260 | 250 |
|  | - | - | - | - | 27,44 | 17,64 |
|  |  |  |  |  | | |
|  | G 3/4 - L | G 3/4 - L | G 3/4 - L | G 3/4 - L | | G 3/4 - L |
|  | 767 325 309 | 785 479 466 | 760 419 450 | 654 325 310 | 1266 30 * | 664 300 300 |
|  | 70 | 130 | 146,5 | 60 | 55 | 45 |
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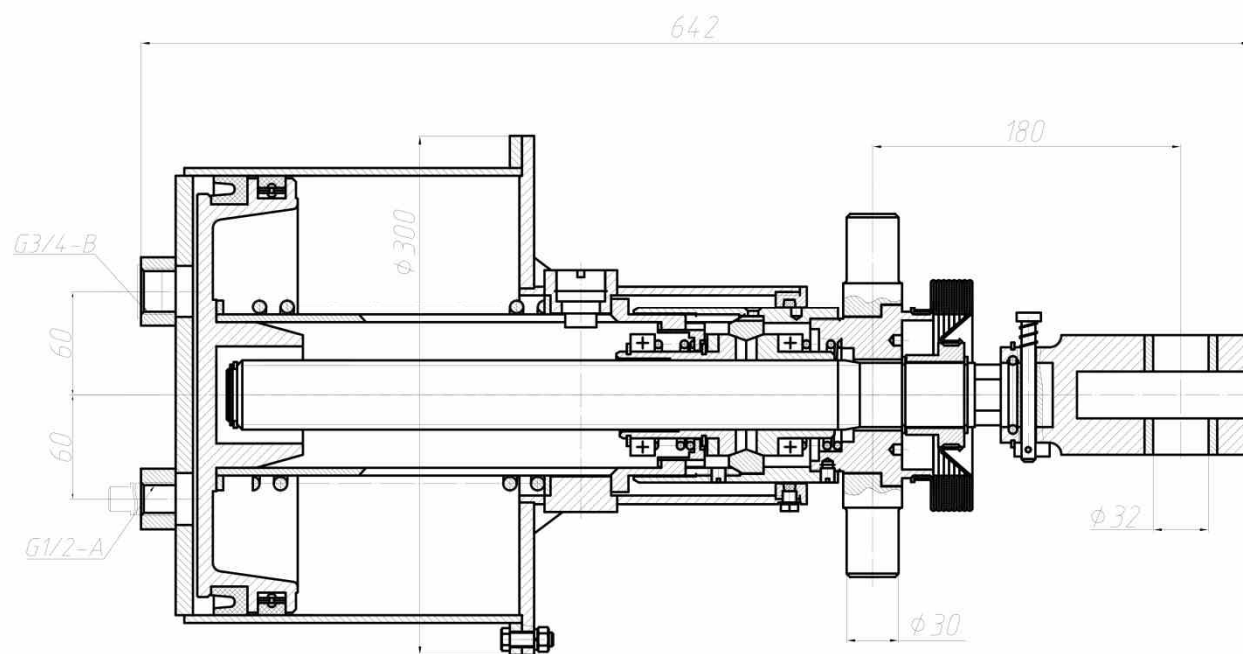
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508 [∞] | 
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|  |  2.5.1.4 |  2.5.1.4 |  2.5.1.12 |  2.5.1.13 |  2.5.1.14 |  2.5.1.15 |



2.5.1.12 646

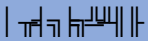
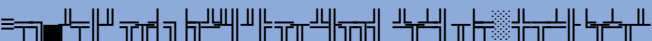
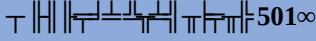
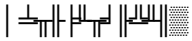
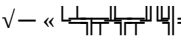
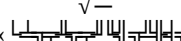
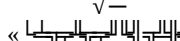
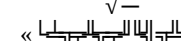
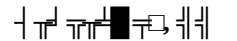
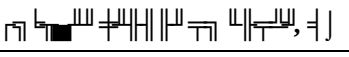
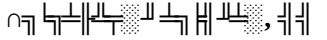
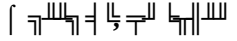
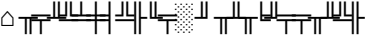
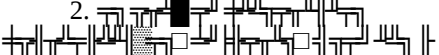


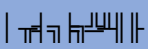
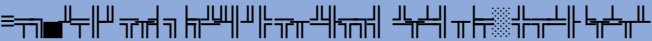
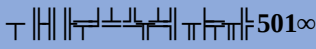
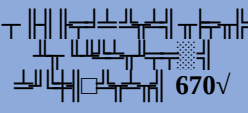
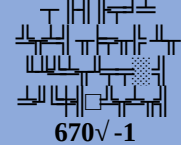
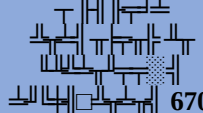
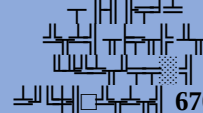
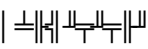
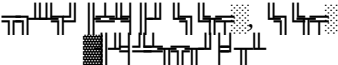
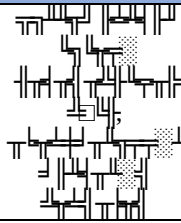
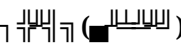
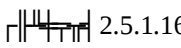
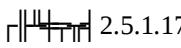
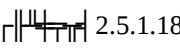
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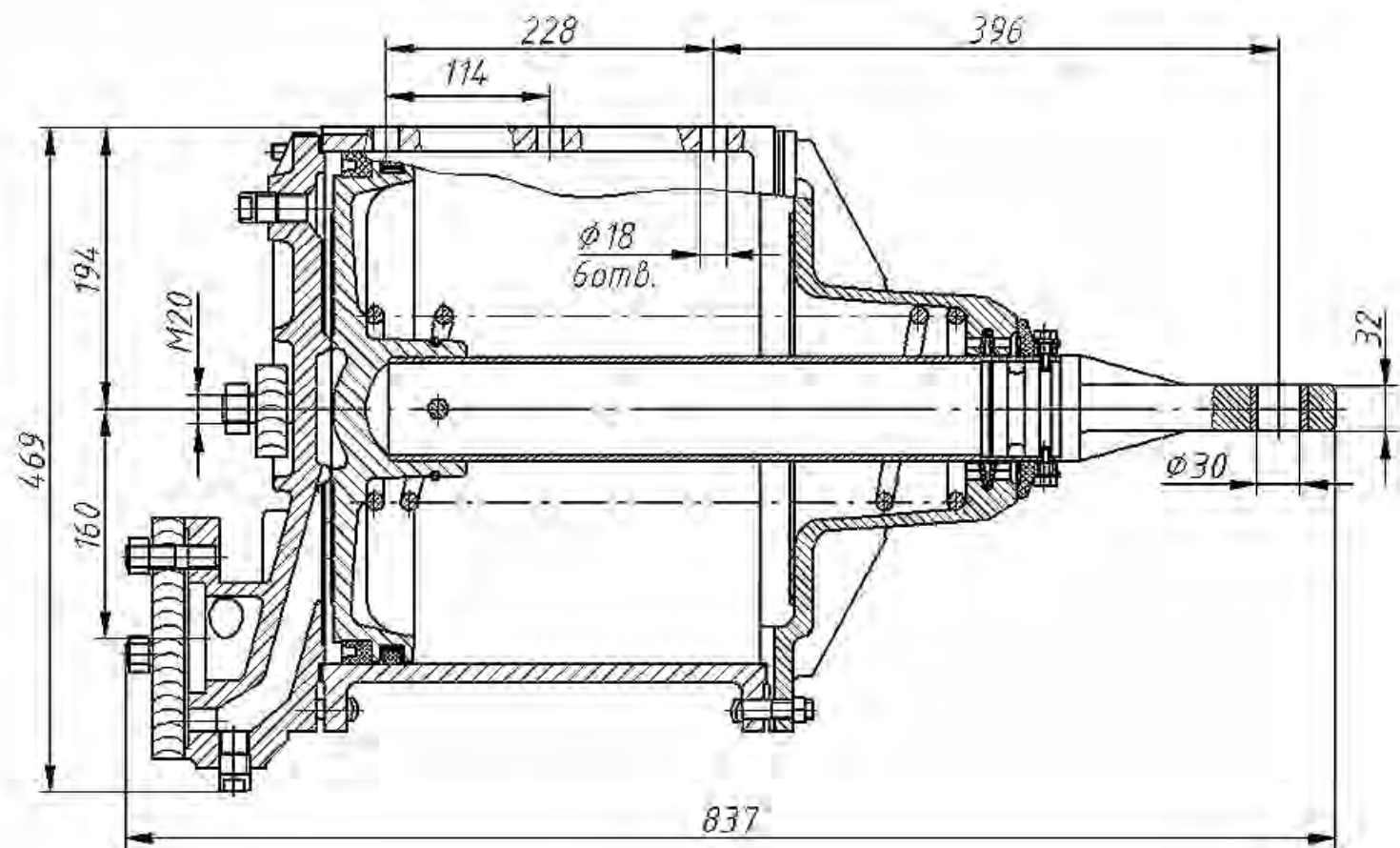


2.5.1.15 T 10-85

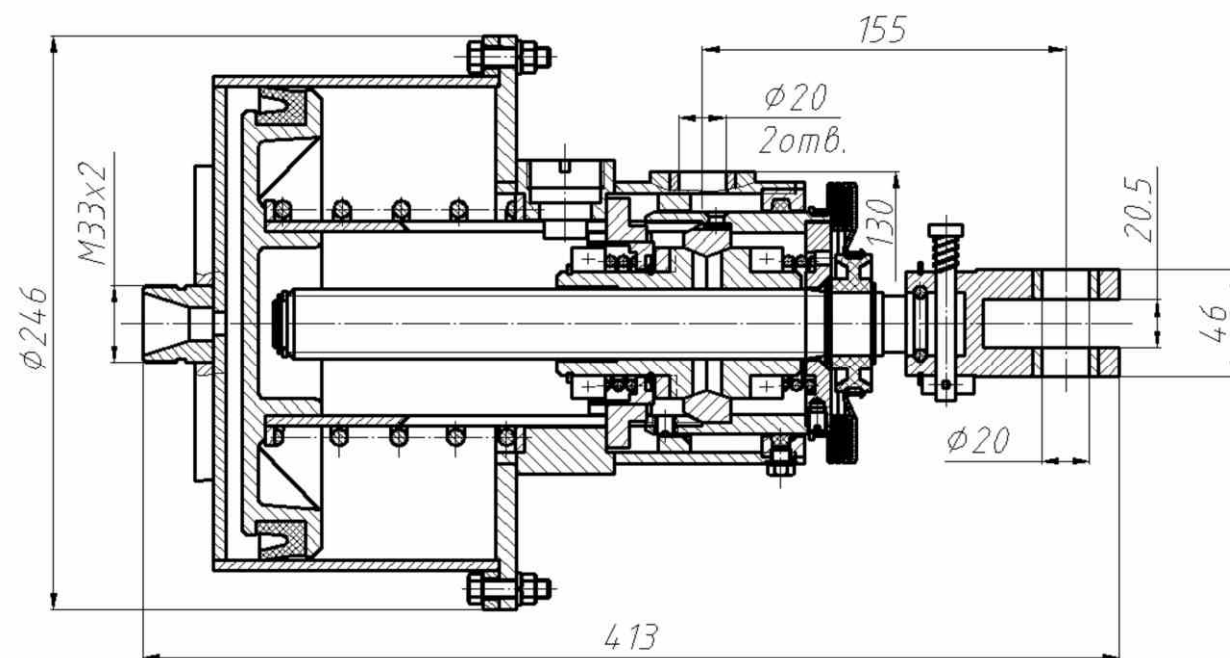
2.5.1.5

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|---|---|--|--|--|--|
| |  501∞ |  670√ |  670√-1 |  670 |  670∩ |
|  | √- «  » | √- «  » | √- «  » | √- «  » | √- «  » |
|  | 0,6 | 0,4 | 0,4 | 0,4 | 0,4 |
|  | 356 | 203 | 203 | 203 | 203 |
|  | 240 | 12 | 12 | 12 |  12/45 |
|  | - | 80 | 140 | 80 | 140 |
|  | - | 152 | 152 | 152 | 152 |
|  | - | 12,15 | 12,15 | 12,15 | 12 |
|  |  | | | | |
|  | G 1/2 - L | | | | |
|  | 847-453-474 | 345-275-248 | 345-275-248 | 345-275-248 | 421-235-246 |
|  | 120 | 25,5 | 25,5 | 25,5 | 22 |
|  | 1. 
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| |  501 ∞ |  670 $\sqrt{}$ |  670 $\sqrt{-1}$ |  670 |  670 $\cap$ |
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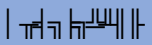
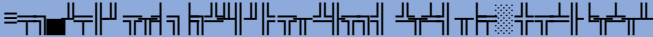
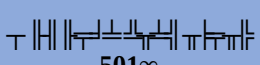
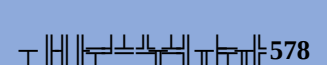
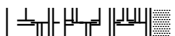
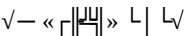
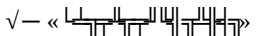
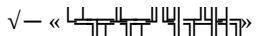
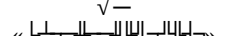
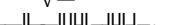
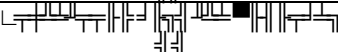
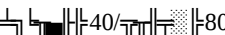
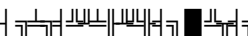
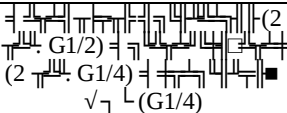
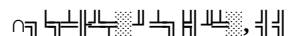
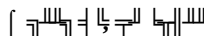
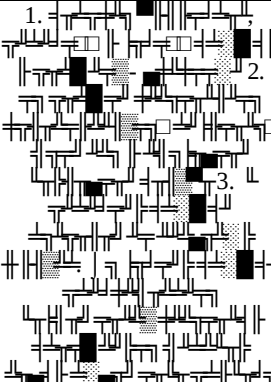
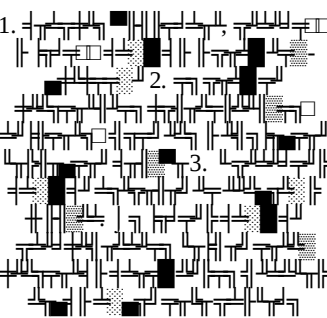
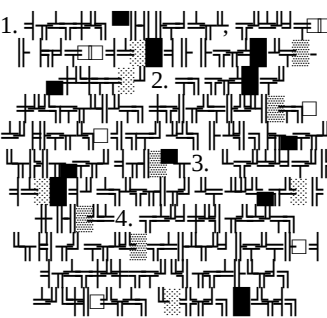
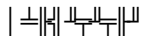
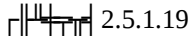
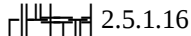
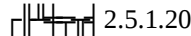


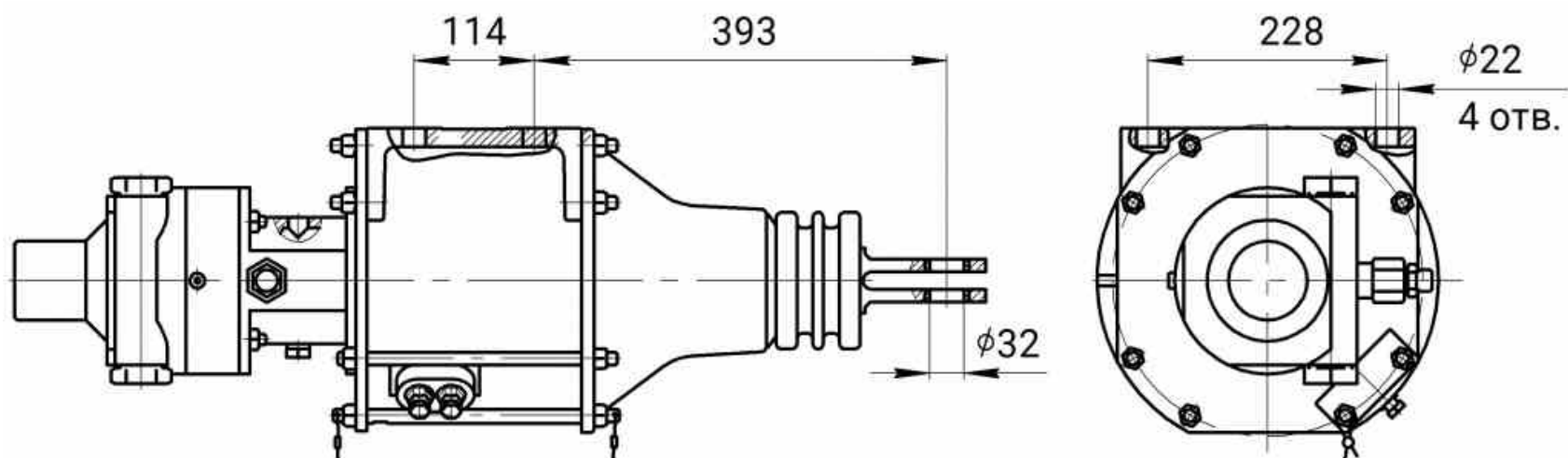
2.5.1.16 501 ∞



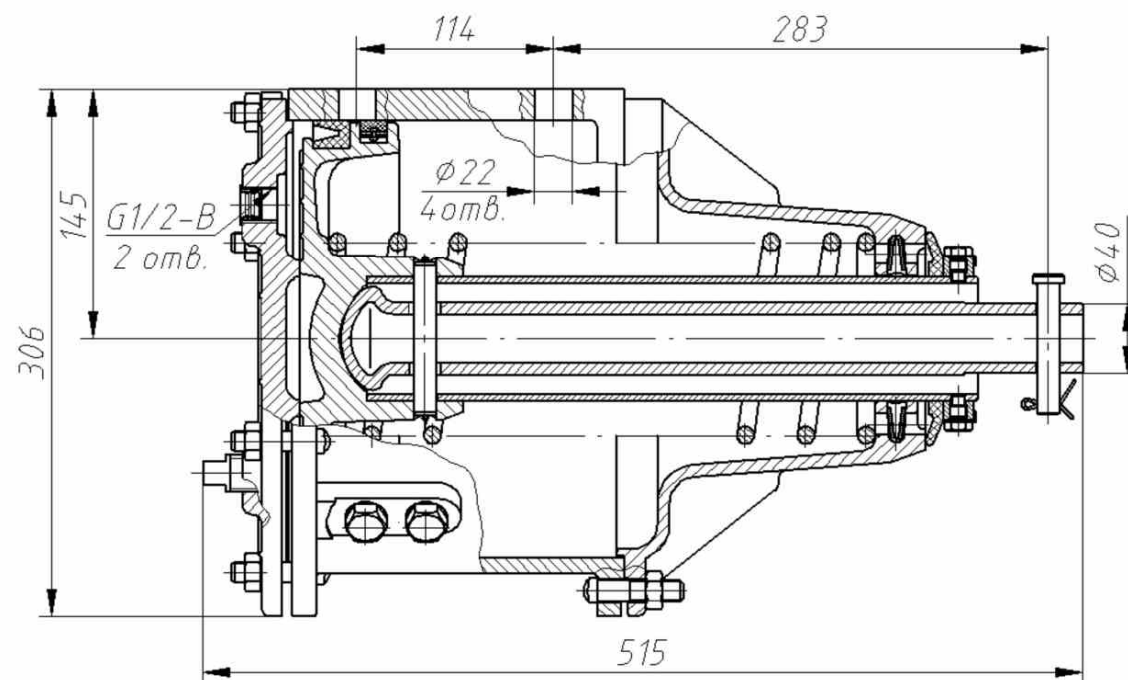
2.5.1.18 670

2.5.1.6

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6577 | 
501 [∞] | 
510 [∞] | 
578 | 
10-40-1 |
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√ – «  » | 
√ – «  » | 
√ – «  » | 
√ – «  » | 
√ – «  » |
|  | 0,6 | 0,6 | 0,6 | 0,6 | 0,6 |
|  | 254 | 356 | 254 | 254 | 254 |
|  | 125 | 240 | 240 | 125 | 
40/80 |
|  | - |  |  |  | - |
|  | 
(2
G1/2)
(2
G1/4)
√
(G1/4) | G 1/2 - L | G 3/4 - L | G 1/2 - L | G 3/4 - L |
|  | 950-310-330 | 847-453-474 | 881-325-309 | 520-325-309 | 640-296-296 |
|  | 100 | 120 | 75 | 60 | 48 |
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2.5.1.19 | 
2.5.1.16 | - | 
2.5.1.20 | - |



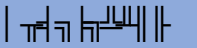
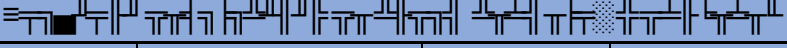
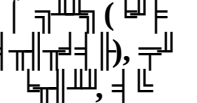
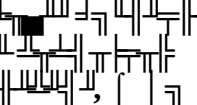
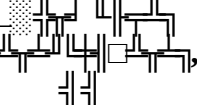
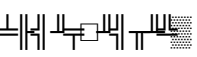
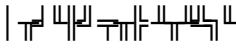
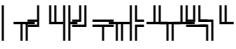
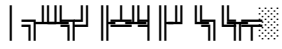
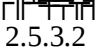
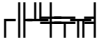
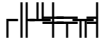
2.5.1.19 - 6577

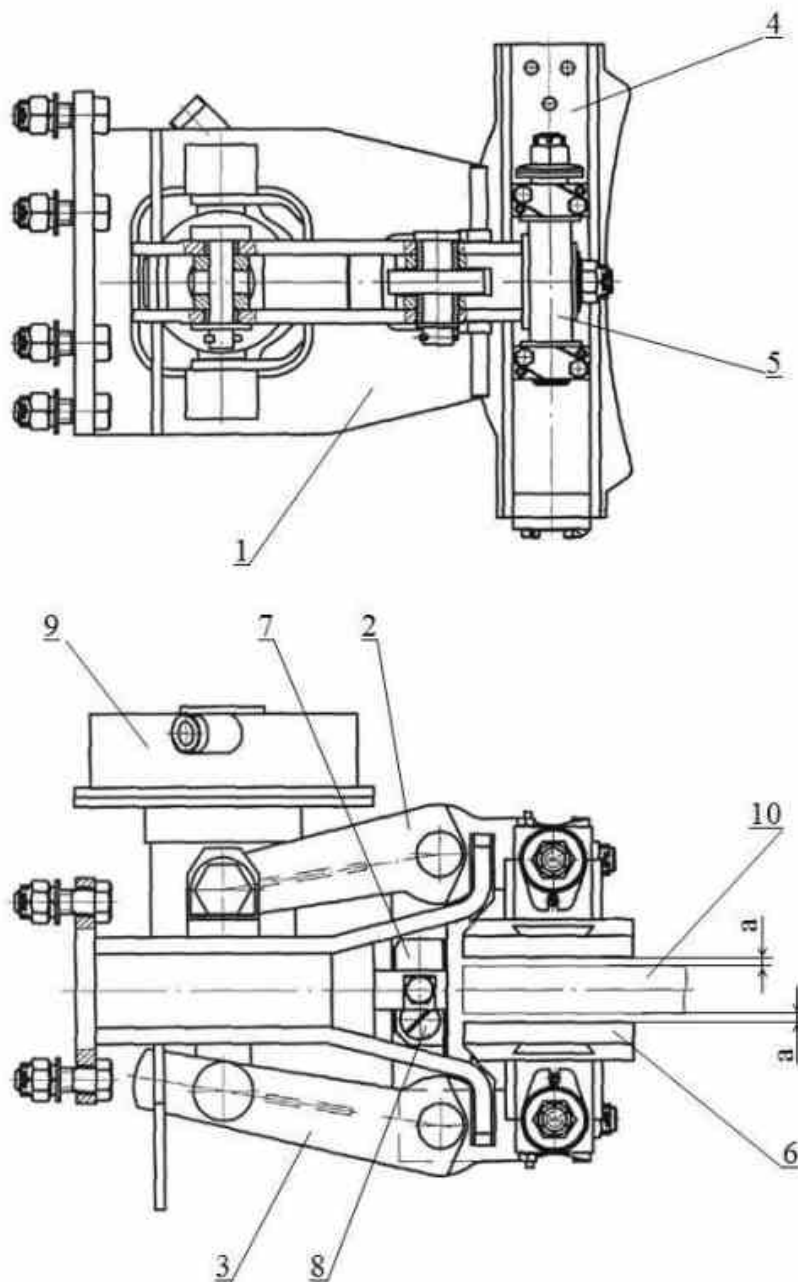


2.5.1.20 - 578

2.5.2 לַחֲסִיּוֹת הַחֵמָה הַמְּלִיכִית הַמְּלִיכִית

| לַחֲסִיּוֹת הַחֵמָה הַמְּלִיכִית | לַחֲסִיּוֹת הַחֵמָה הַמְּלִיכִית הַמְּלִיכִית הַמְּלִיכִית |
|--|--|
| | 755 לַחֲסִיּוֹת הַחֵמָה הַמְּלִיכִית הַמְּלִיכִית הַמְּלִיכִית |
| לַחֲסִיּוֹת הַחֵמָה הַמְּלִיכִית | « לַחֲסִיּוֹת הַחֵמָה הַמְּלִיכִית » |
| לַחֲסִיּוֹת הַחֵמָה הַמְּלִיכִית, לַחֲסִיּוֹת הַחֵמָה הַמְּלִיכִית (לַחֲסִיּוֹת הַחֵמָה הַמְּלִיכִית) | 12 |
| לַחֲסִיּוֹת הַחֵמָה הַמְּלִיכִית (לַחֲסִיּוֹת הַחֵמָה הַמְּלִיכִית) | 238-135-185 |
| לַחֲסִיּוֹת הַחֵמָה הַמְּלִיכִית (לַחֲסִיּוֹת הַחֵמָה הַמְּלִיכִית) | 110 |
| לַחֲסִיּוֹת הַחֵמָה הַמְּלִיכִית (לַחֲסִיּוֹת הַחֵמָה הַמְּלִיכִית):
- 0,10 ± 0,02 { }
- 0,38 ± 0,02 { } | 1) 0,4 2
2)) 2,8 |
| לַחֲסִיּוֹת הַחֵמָה הַמְּלִיכִית, לַחֲסִיּוֹת הַחֵמָה הַמְּלִיכִית, לַחֲסִיּוֹת הַחֵמָה הַמְּלִיכִית | 0,45 |
| לַחֲסִיּוֹת הַחֵמָה הַמְּלִיכִית | לַחֲסִיּוֹת הַחֵמָה הַמְּלִיכִית, לַחֲסִיּוֹת הַחֵמָה הַמְּלִיכִית |

|  |  | | | | | |
|---|--|---|---|---|---|---|
| | 780-01 | 780-05 | 780-06 | 4075.42.100 | 4075.42.100.01 | 4095.42.100 |
|  | 150 | 150 | 150 | 203 | 203 | 203 |
|  | 100 | 100 | 100 | 110 | 110 | 110 |
|  | 0,4 | 0,4 | 0,4 | 0,4 | 0,4 | 0,4 |
|  | 60 | 60 | 60 | 44,1 | 44,1 | 44,1 |
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|  | - | - | - |  2.5.3.2 |  2.5.3.2 |  2.5.3.2 |

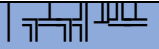
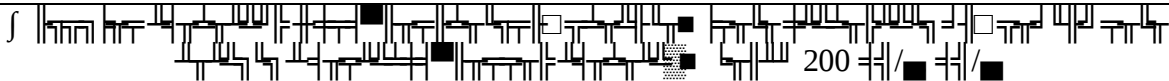
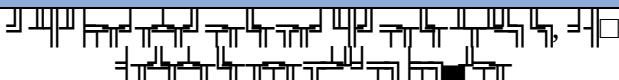
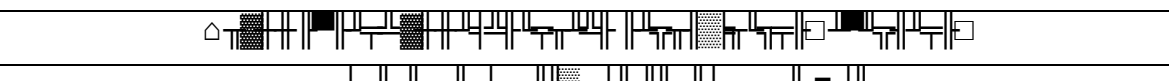
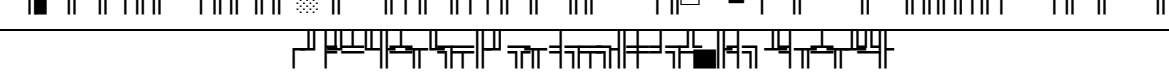
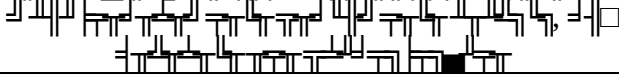
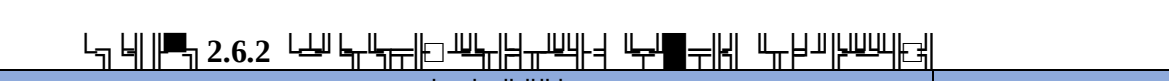
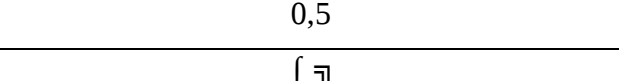
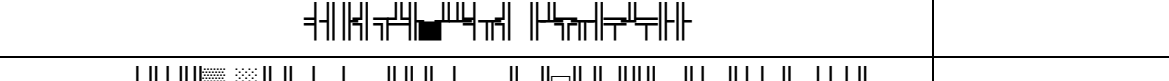
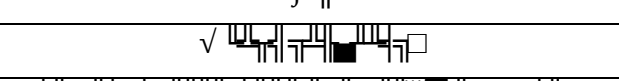


1 ñ ; 2 ñ ; 3 ñ ; 4 ñ ;
 5 ñ ; 6 ñ ; 7 ñ ; 8 ñ ;
 9 ñ ; 10 ñ
 2.5.32 - ∞ - √ - « » (∞ L-104.759-2008)

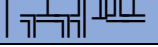
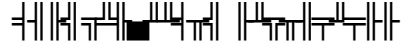
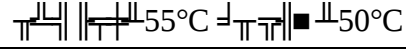
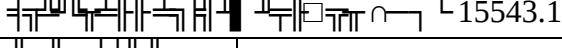
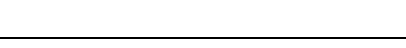
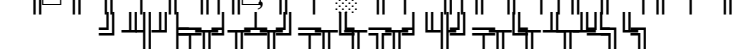
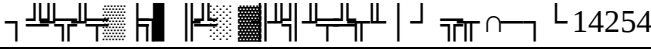
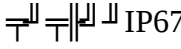
33725-2016

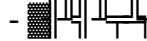
2.6.1 –

| № п/п | Наименование |
|-------|--------------|
| 1 | 5 |
| 2 | 0,1 |
| 3 | 0,2 |
| 4 | 72 |
| 5 | 3 / 20% |

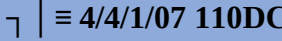
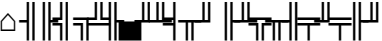
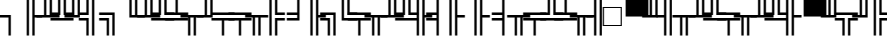
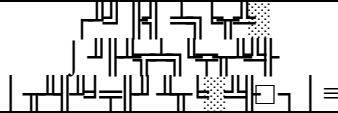
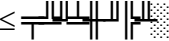
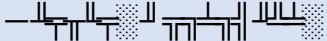
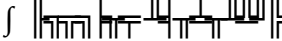
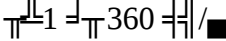
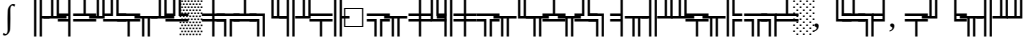
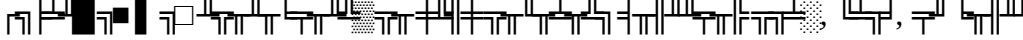
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2.6.2

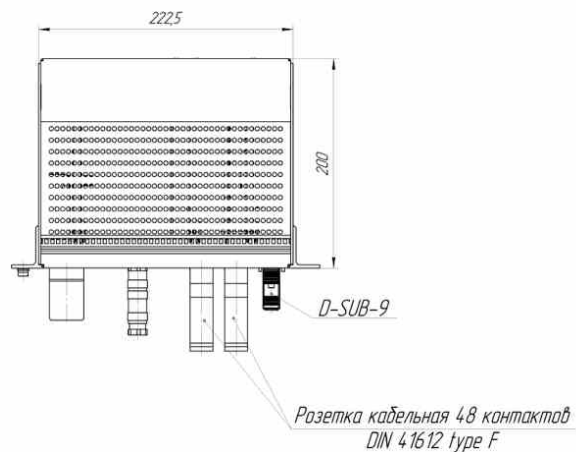
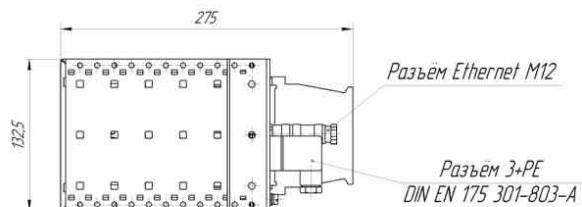
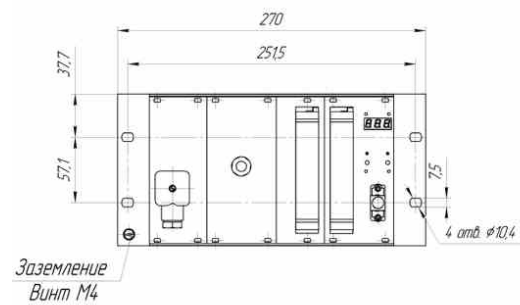
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| <p>  </p> | <p>  </p> |
|--|---|
| <p>  </p> | <p>  IP54 </p> |
| <p>  </p> | <p>  IP30 </p> |

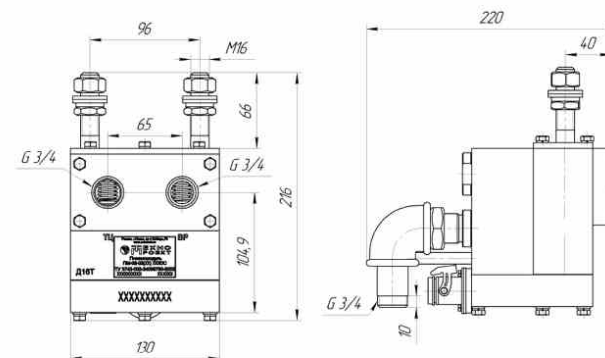
 2.6.3

| <p>  </p> | <p>  </p> |
|---|---|
| | <p>  </p> |
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| <p>  </p> | <p>  </p> |
| <p>  </p> | <p>  1-3 </p> |
| <p>  </p> | <p>  27 </p> |
| <p>  </p> | <p>  </p> |
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| <p>  </p> | <p>  </p> |
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| <p>  </p> | <p>  </p> |
| <p>  </p> | <p>  CAN, CANOpen, ETHERNET </p> |
| <p>  </p> | |
| <p>  </p> | <p>  1 360 </p> |
| <p>  </p> | <p>  3,0 </p> |
| <p>  </p> | <p>  1,5 </p> |

БЭК-КП4-С



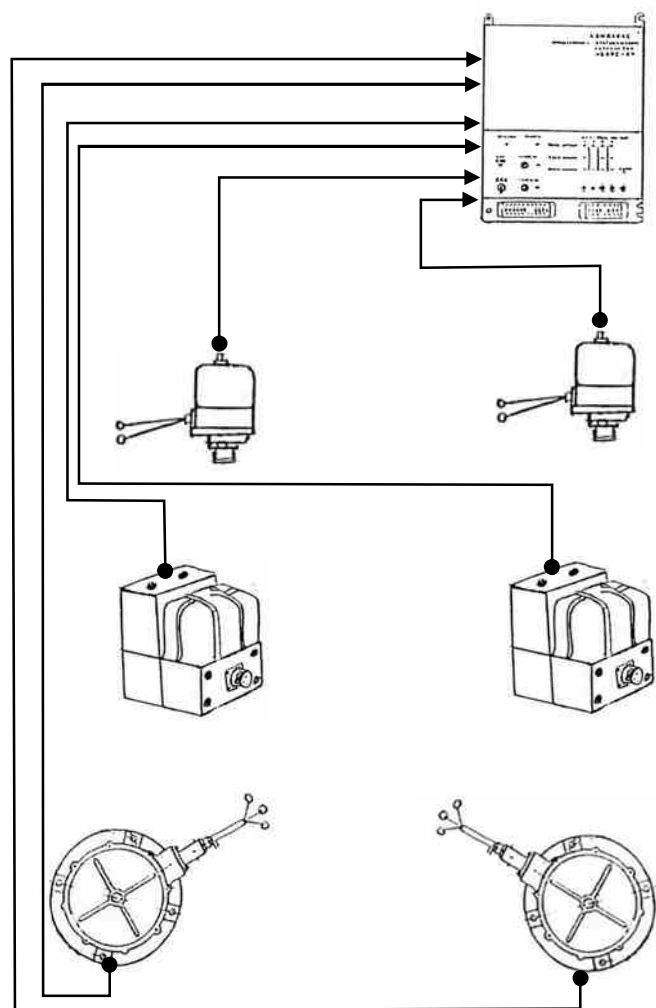
ПМ-02-02(07) 110DC



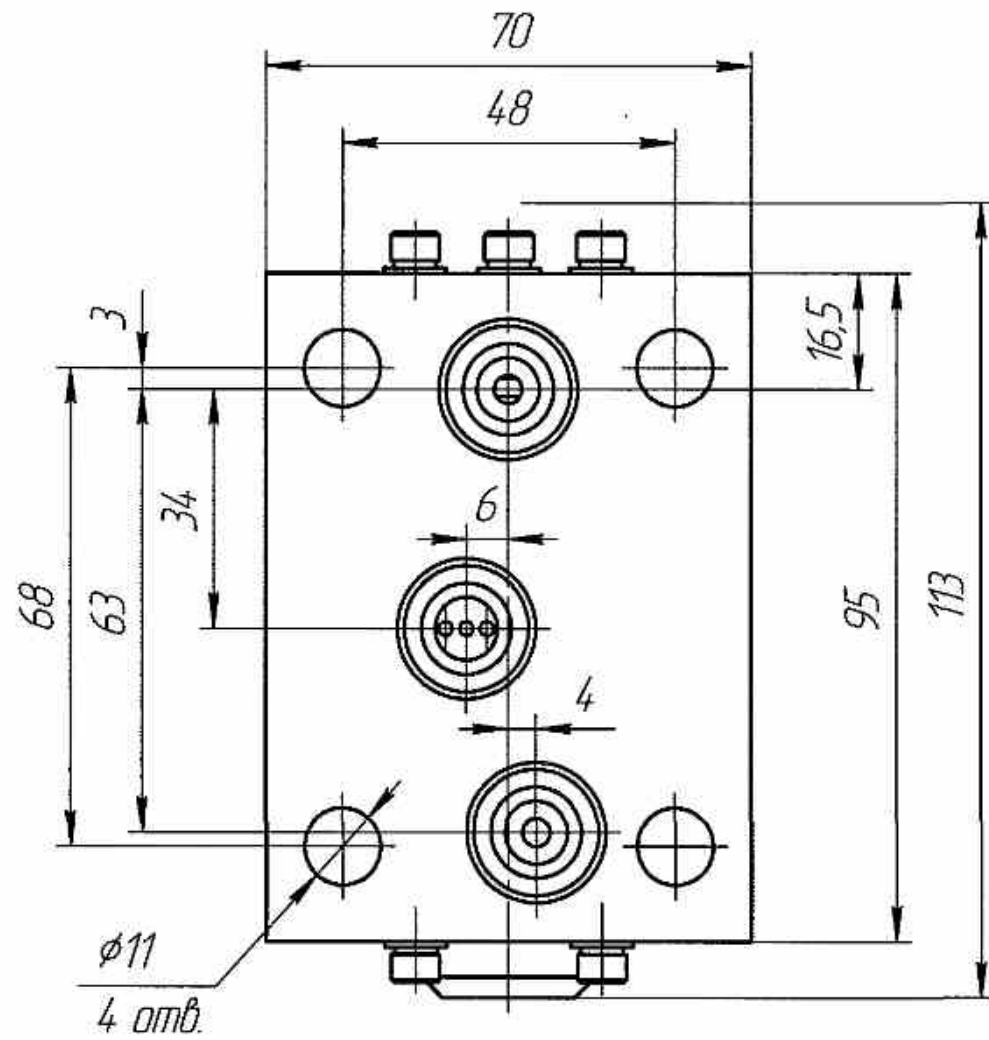
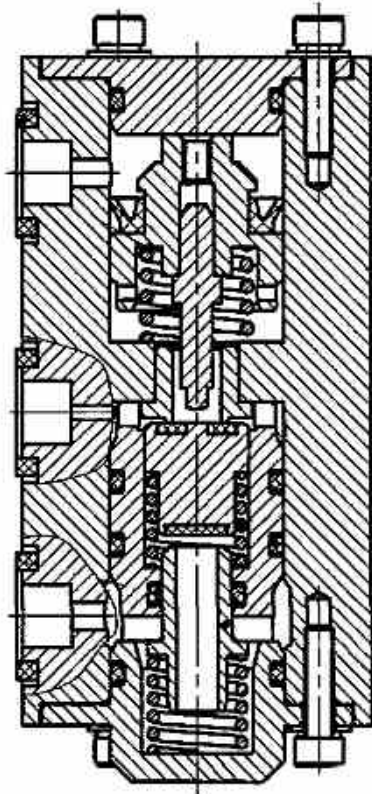
2.6.1 - ≡ 4/4/1/07 110DC



2.6.2 - 4/4/1/07 110DC

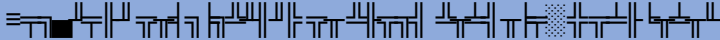
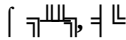
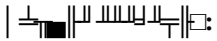


2.6.3 - 1



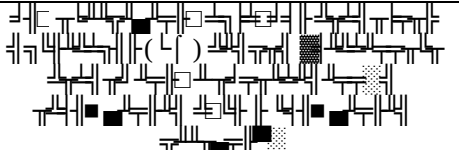
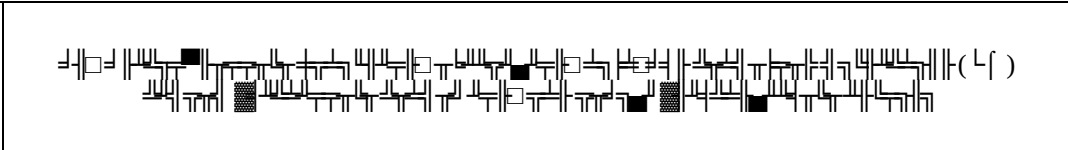
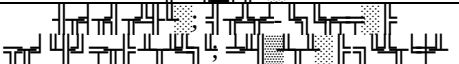
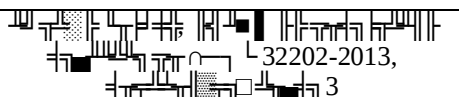
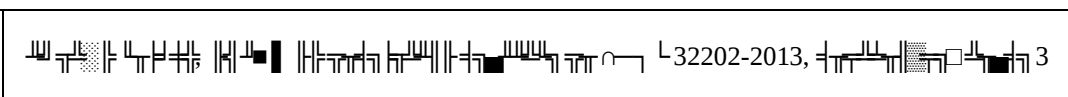
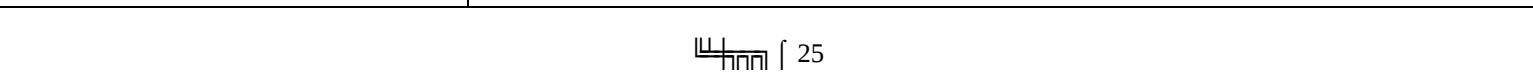
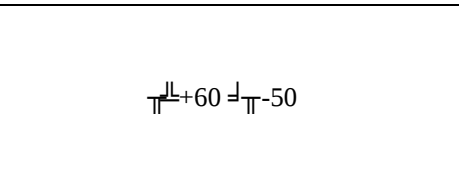
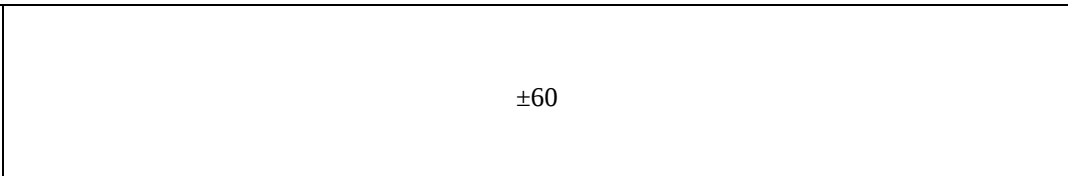
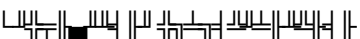
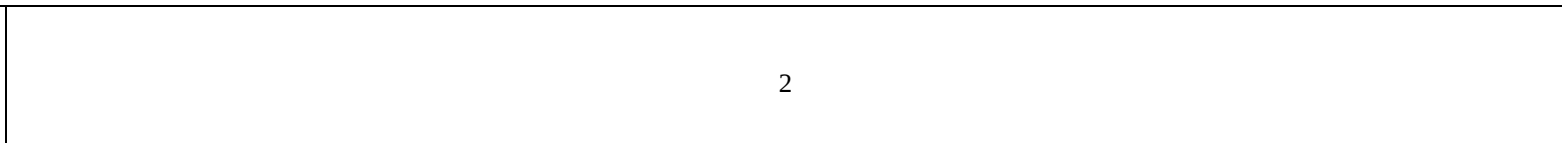
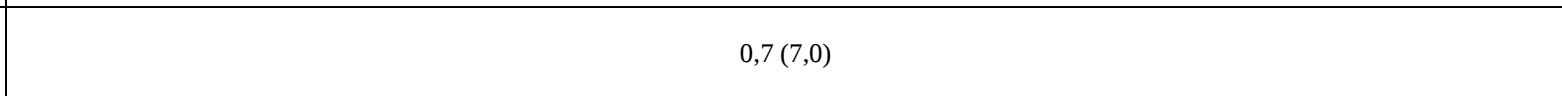
2.7.1.1 - 106

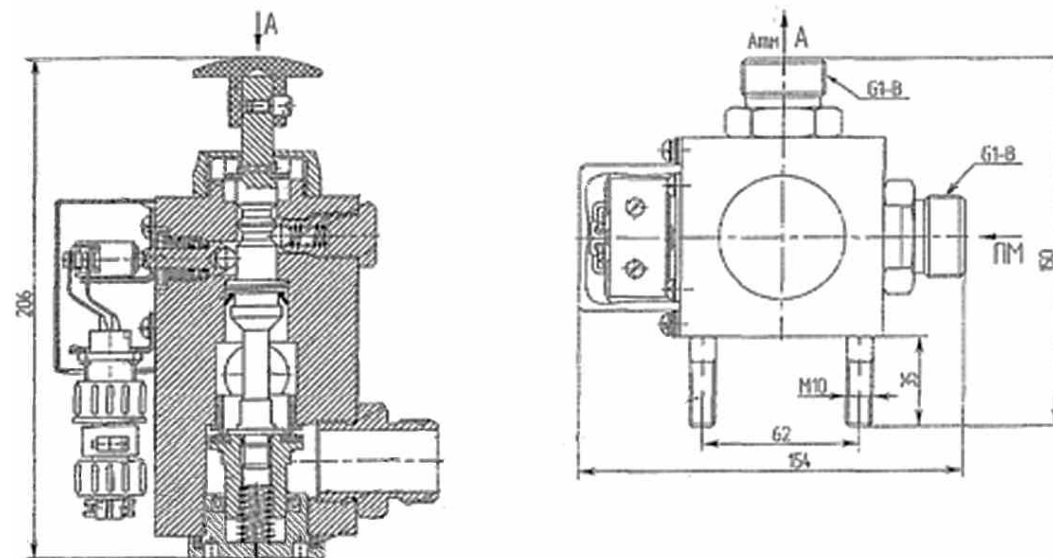
| | 108 | ≈.310.950 | ≈.310.950-01
(5-6) | ≈.310.950-3
(5-7) | ≈.310.950-2
(5-5) | ≈.310.950-4
(5-4) |
|--|---------------------|--------------------|-----------------------|----------------------|----------------------|----------------------|
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | 0,05-0,92 (0,5-9,2) | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | - | 0,05-0,5 (0,5-5,0) | 0,05-0,5 (0,5-5,0) | 0,05-0,5 (0,5-5,0) | 0,05-0,5 (0,5-5,0) | 0,05-0,49 (0,5-5,0) |
| | 6 | 4 | 4 | 8 | 8 | 1,5 |
| | G½-B | | | | | |
| | 0,92 (9,2) | | | | | |
| | 116×150×85 | 70×98×84 | 70×98×84 | 125×85×68 | 70×103×85 | - |

|  |  | | | | | |
|---|---|-----------|--|----------------------|----------------------|----------------------|
| | 108 | ≈.310.950 | ≈.310.950-01
(5-6) | ≈.310.950-3
(5-7) | ≈.310.950-2
(5-5) | ≈.310.950-4
(5-4) |
|  | 3 | 1,6 | 1,6 | | 1,6 | - |
|  | - | - | 
≈.310.950-01
SMK20-M8×1-
PB-C6F | - | - | - |

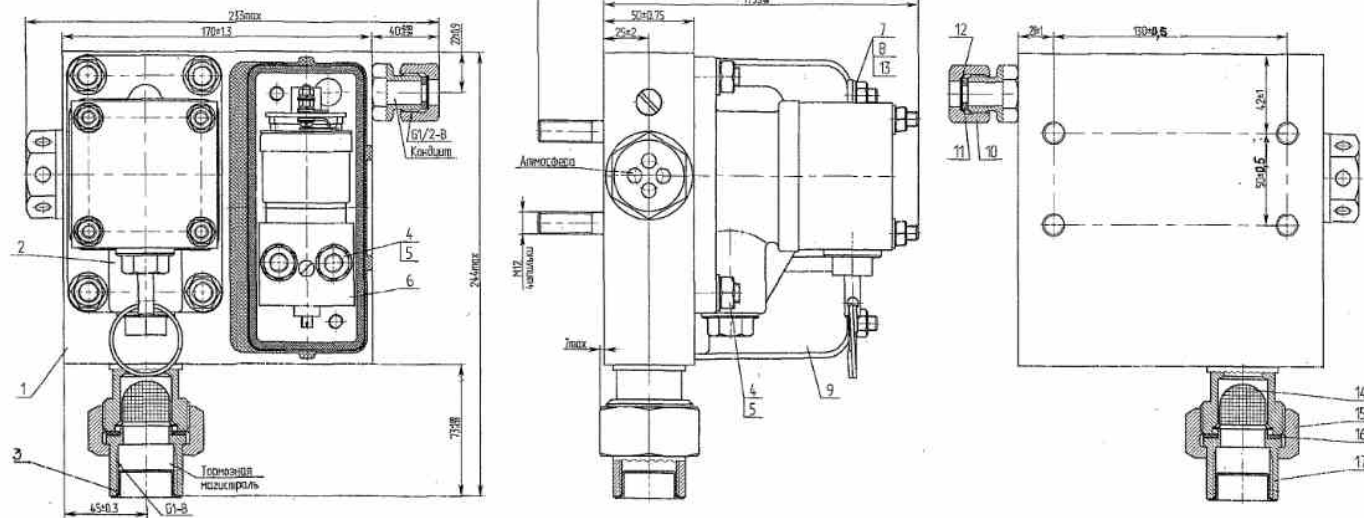
2.7.2.3 חדרים להחלפת נעליים

2.7.2.3.1 חדרים להחלפת נעליים

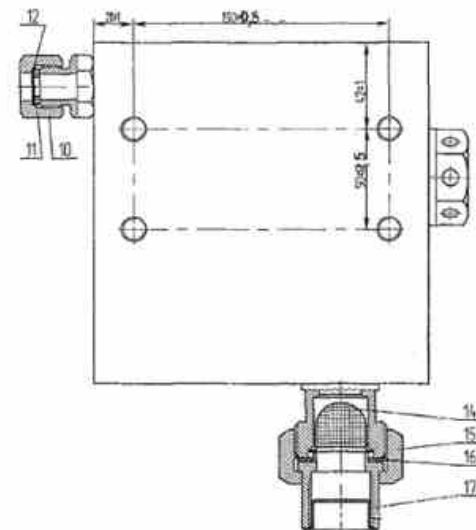
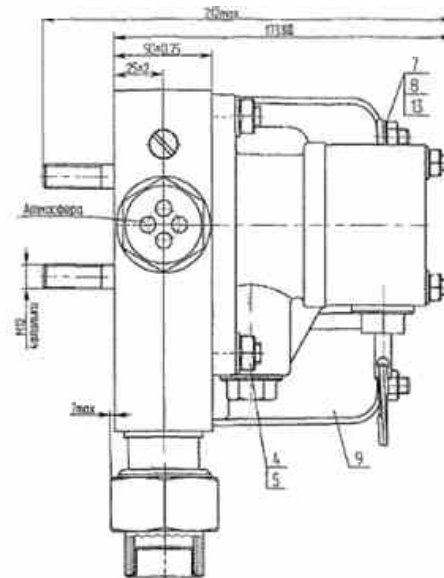
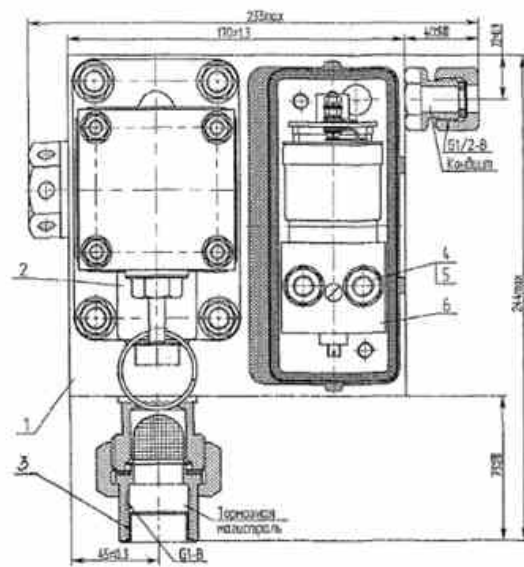
| שם חדר | פרטים טכניים | | | | | | | | |
|--|---|---|--|----------|----------|----------|----------|----------|----------|
| | 130.30 | 266-1 | 266-1-01 | 266-1-02 | 266-1-03 | 266-1-04 | 266-1-05 | 266-1-06 | 266-1-07 |
| חדר להחלפת נעליים | $\sqrt{-} \quad \int \quad \leq \quad \sqrt{\int} \quad \int \quad \sqrt{+}$ | | | | | | | | |
| חדר להחלפת נעליים |  |  | | | | | | | |
| חדר להחלפת נעליים |  | |  | | | | | | |
| <p>החדר יבוצע לפי: </p> | | | | | | | | | |
| חדר להחלפת נעליים |  | |  | | | | | | |
| חדר להחלפת נעליים | IP 32 | | IP 55 | | | | | | |
| חדר להחלפת נעליים |  | | | | | | | | |
| חדר להחלפת נעליים |  | |  | | | | | | |
| <p>החדר יבוצע לפי: </p> | | | | | | | | | |
| חדר להחלפת נעליים |  | |  | | | | | | |
| חדר להחלפת נעליים |  | |  | | | | | | |



2.7.2.3.1 ñ □ □ 130.30



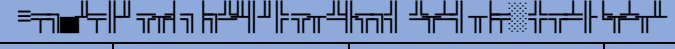
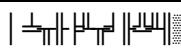
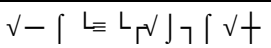
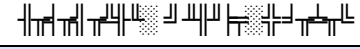
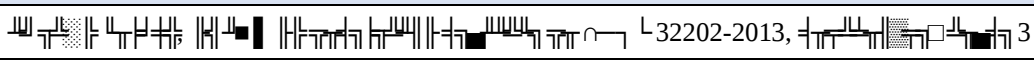
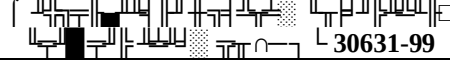
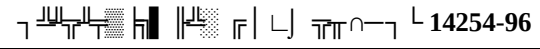
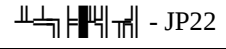
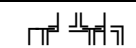
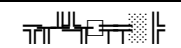
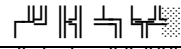
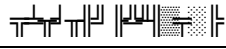
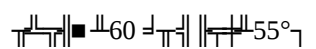
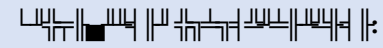
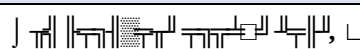
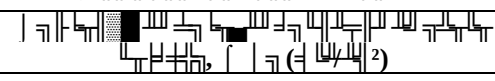
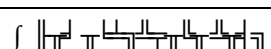
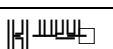
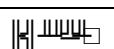
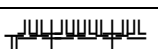
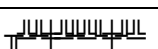
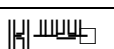
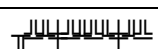
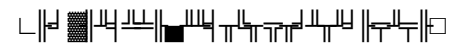
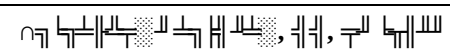
2.7.2.3.2 ñ □ □ 266

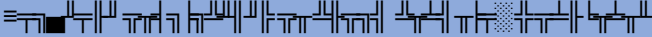
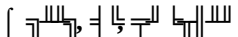
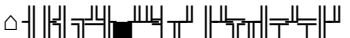
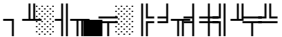
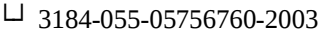
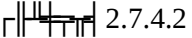


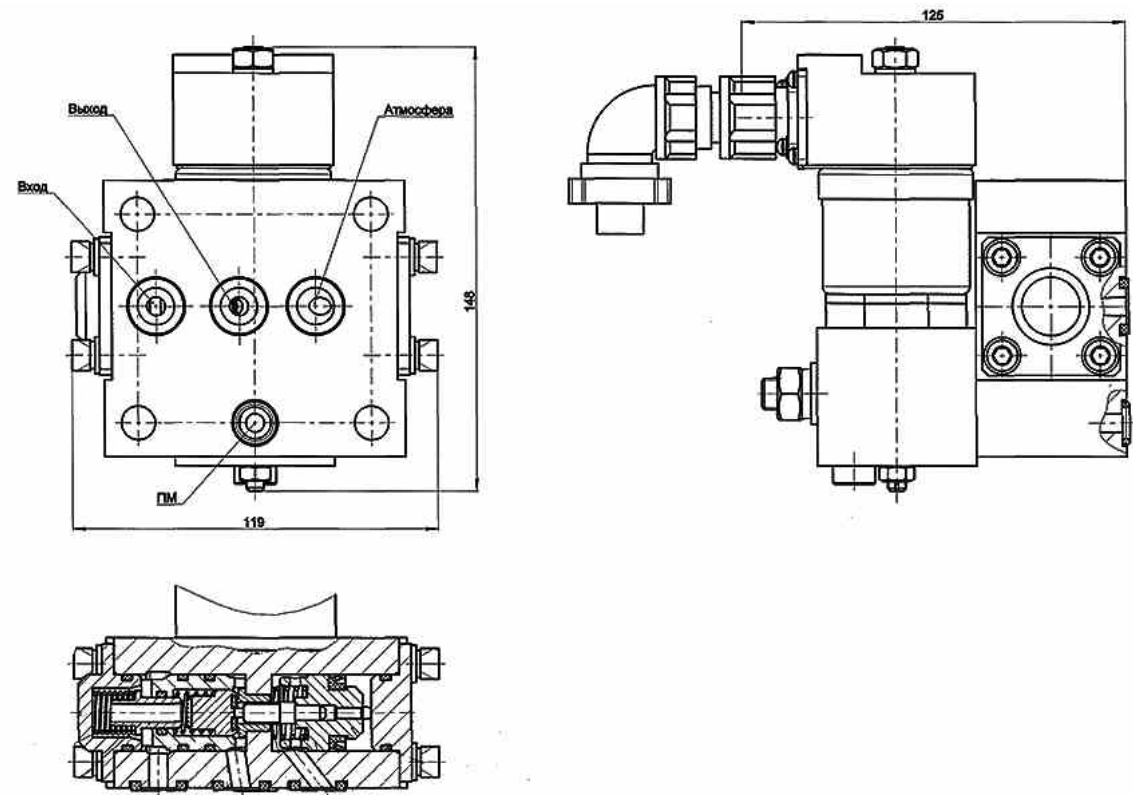
2.7.2.3.3 ñ 266V

2.7.2.4

2.7.2.4.1 - 208

|  |  | | | | | |
|---|---|---|---|---|---|---|
| | 208 | 208-2-01 | 208-2-02 | 208-2-03 | 208-2-04 | 208-2-05 |
|  |  | | | | | |
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|  |  | | | | | |
|  |  | | | | | |
|  |  | | | | | |
|  | | | | | | |
|  | 50 | 110 | 50 | 110 | 75 | 75 |
|  | 0,9 (9,0) | | | | | |
|  | 5 | | | | | |
|  | 12 | | | | | |
|  |  |  |  |  |  |  |
|  |  | | | | | |
|  | 121×148×110 | | | | | |

|  |  | | | | | |
|---|---|----------|----------|----------|----------|----------|
| | 208 | 208-2-01 | 208-2-02 | 208-2-03 | 208-2-04 | 208-2-05 |
|  | 2,4 | | | | | |
|  |  | | | | | |
|  |  | | | | | |
|  |  | | | | | |




2.7.4.2 -

208

2.7.2.5 △

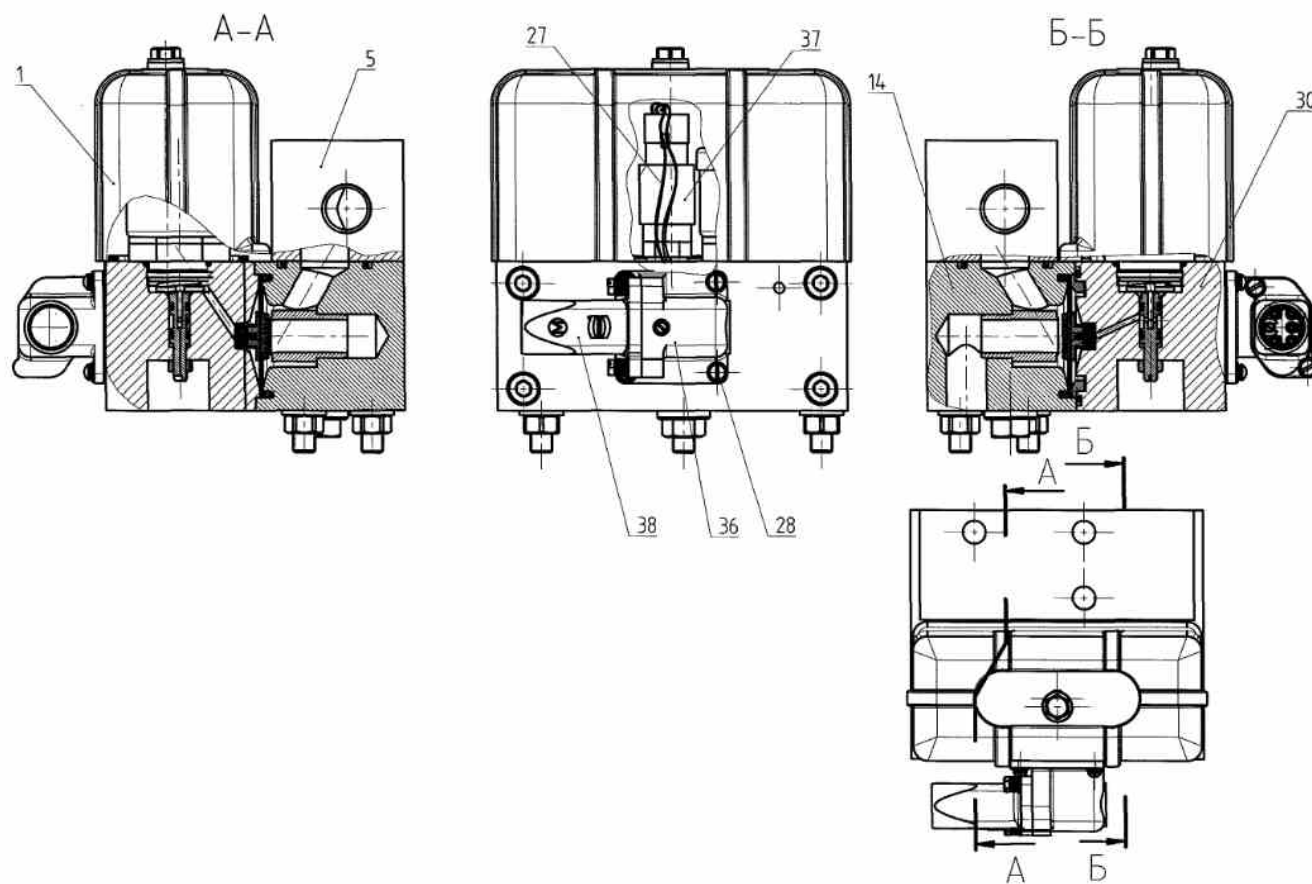
2.7.2.5.1 - △

| | 182 | 182-01 | 182-02 | 182-03 | 182-04 | 182-05 | 182-06 | 182-07 |
|--|-----------------|--------|--------|--------|-------------|--------|--------|--------|
| | √ − ≡ √ √ + | | | | | | | |
| | 50 | 110 | 75 | 24 | 50 | 75 | 110 | 24 |
| | : 20 4 8 | | | | | | | |
| | 0-0,5 | | | | | | | |
| | | | | | | | | |
| | 15 | | | | | | | |
| | 14 | | | | | | | |
| | | | | | | | | |
| | 18 | 18 | 24 | 18 | 18 | 24 | 18 | 18 |
| | 9 | 9 | 12 | 9 | 9 | 12 | 9 | 9 |
| | 35 | 77 | 52,5 | 16,8 | 35 | 52,5 | 77 | 16,8 |
| | 5 | 11 | 7,5 | 2,4 | 5 | 7,5 | 11 | 2,4 |
| | 160 200 185 | | | | 160 185 185 | | | |
| | 7,5 | | | | | | | |
| | 3.7.2.5.1 | | | | | | | |

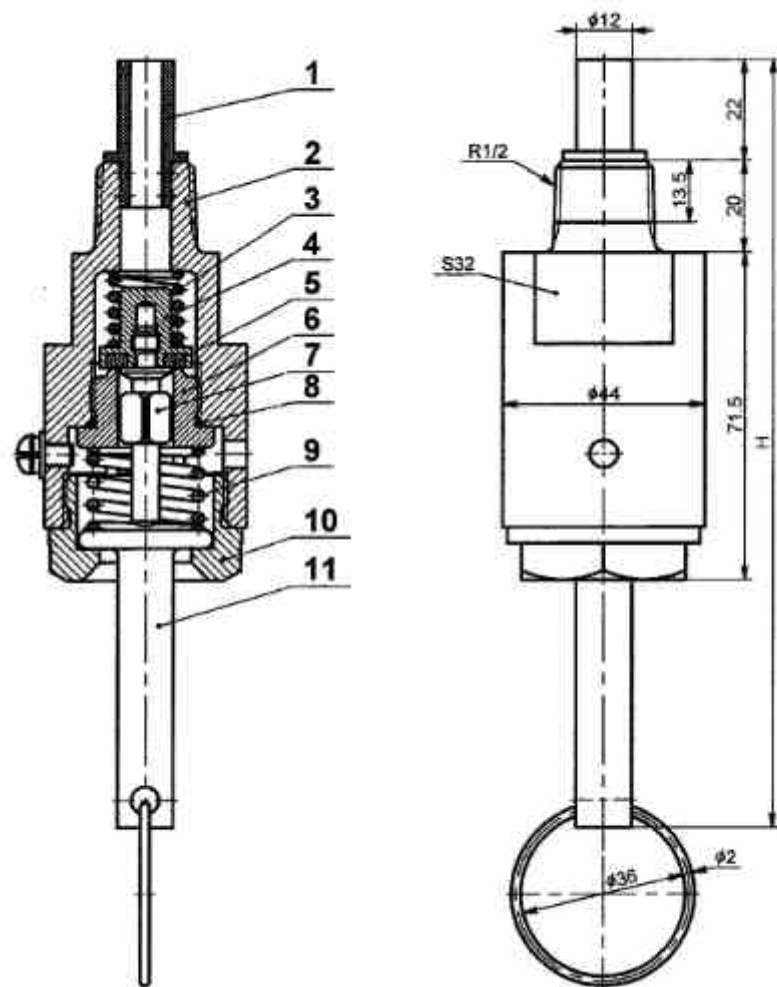
2.7.2.5.2 - △

| מסלול | מסלולי תיירות | | | | | | | |
|--------------|---------------------|--------|--------|--------|----------------------|--------|--------|--------|
| | 182-08 | 182-09 | 182-10 | 182-11 | 182-12 | 182-13 | 182-14 | 182-15 |
| מסלול תיירות | 50 | 110 | 75 | 24 | 24 | 50 | 75 | 110 |
| מסלול תיירות | מסלול תיירות Han Q5 | | | | מסלול תיירות Han Q12 | | | |
| מסלול תיירות | 0-0,5 | | | | | | | |
| מסלול תיירות | 15 | | | | | | | |
| מסלול תיירות | 14 | | | | | | | |
| מסלול תיירות | | | | | | | | |
| מסלול תיירות | 18 | 18 | 24 | 18 | 18 | 18 | 24 | 18 |

| מסלול | שנת הלימודים תשפ"ב-תשפ"ג | | | | | | | |
|---|--------------------------|--------|--------|--------|--------|--------|--------|--------|
| | 182-08 | 182-09 | 182-10 | 182-11 | 182-12 | 182-13 | 182-14 | 182-15 |
| מסלול לימודי הנדסה בלבד | 9 | 9 | 12 | 9 | 9 | 9 | 12 | 9 |
| מסלולי לימודי הנדסה עם דיפלומה או תוא ראשוני במדעים מדויקים | 35 | 77 | 52,5 | 16,8 | 16,8 | 35 | 52,5 | 77 |
| מסלולי לימודי הנדסה עם תוא ראשוני במדעים מדויקים | 5 | 11 | 7,5 | 2,4 | 2,4 | 5 | 7,5 | 11 |
| סך כל המועמדים | 160 255 185 | | | | | | | |
| מסלולי לימודי הנדסה בלבד | 7,8 | | | | | | | |
| מסלולי לימודי הנדסה עם דיפלומה או תוא ראשוני במדעים מדויקים | 2.7.2.5.1 | | | | | | | |



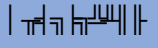
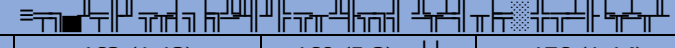
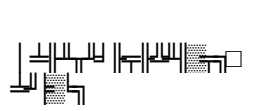
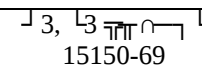
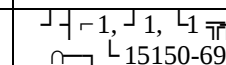
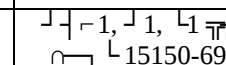
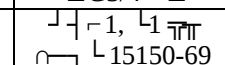
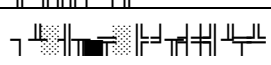
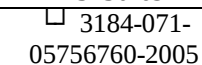
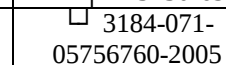
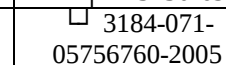
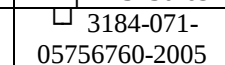
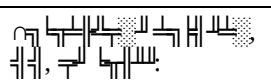
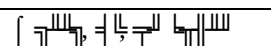
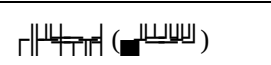
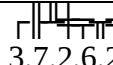
2.7.2.5.1 182

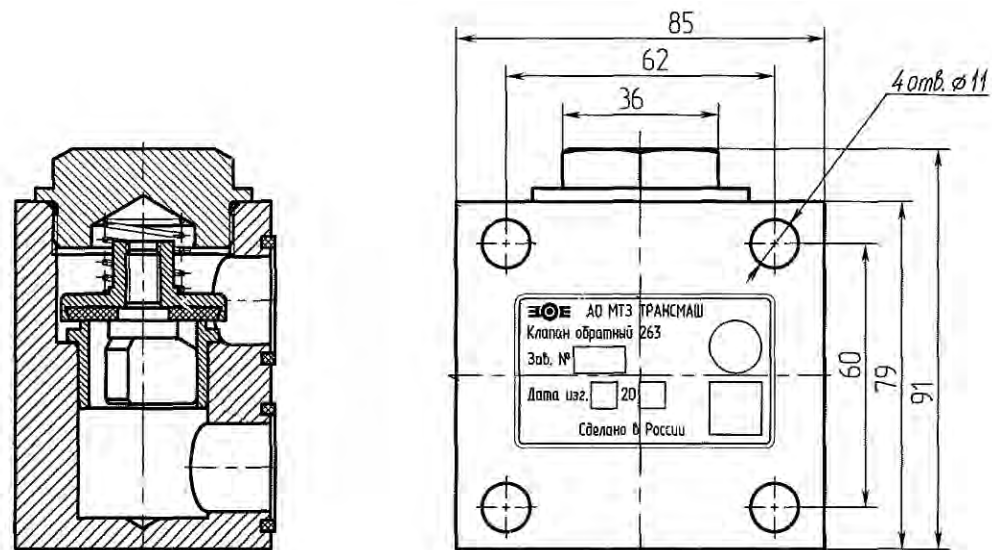


3.7.2.6.1 - 131 (4-2)

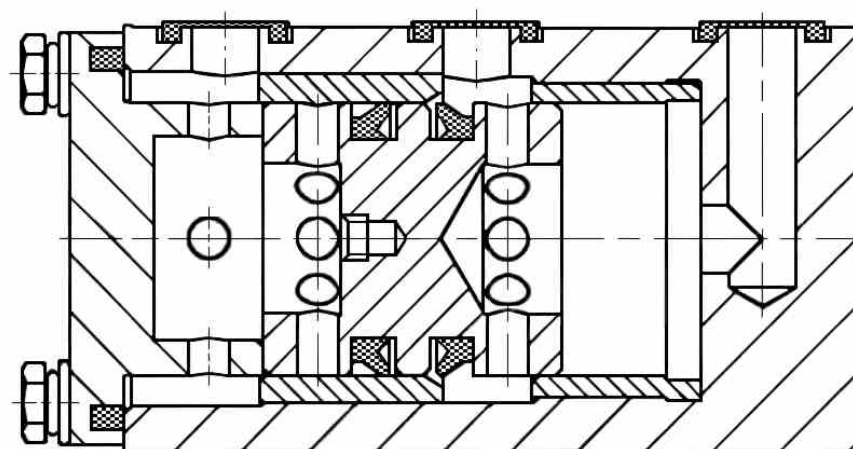
2.7.2.6.2 - Δ $\sqrt{1 - \frac{L}{L_0}}$ $\sqrt{1 - \frac{L}{L_0}}$ $\sqrt{1 - \frac{L}{L_0}}$ $\sqrt{1 - \frac{L}{L_0}}$ $\sqrt{1 - \frac{L}{L_0}}$ $\sqrt{1 - \frac{L}{L_0}}$ $\sqrt{1 - \frac{L}{L_0}}$ $\sqrt{1 - \frac{L}{L_0}}$

| | 144 (4-3) | 161 (1-13) | 162 (1-12) | 169 (5-2) | 176 (1-14) | 176 (1-15) | 263 (1-16) |
|--|-----------|---------------------|-------------------|--------------------|-------------------|-------------------------|-------------------|
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | 0,8 (8,0) | 0,59-0,88 (6,0-9,0) | 0,6-0,9 (6,0-9,0) | 0,05-0,8 (0,5-8,0) | 0,6-0,9 (6,0-9,0) | 0,59 - 0,88 (6,0 - 9,0) | 0,6-0,9 (6,0-9,0) |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

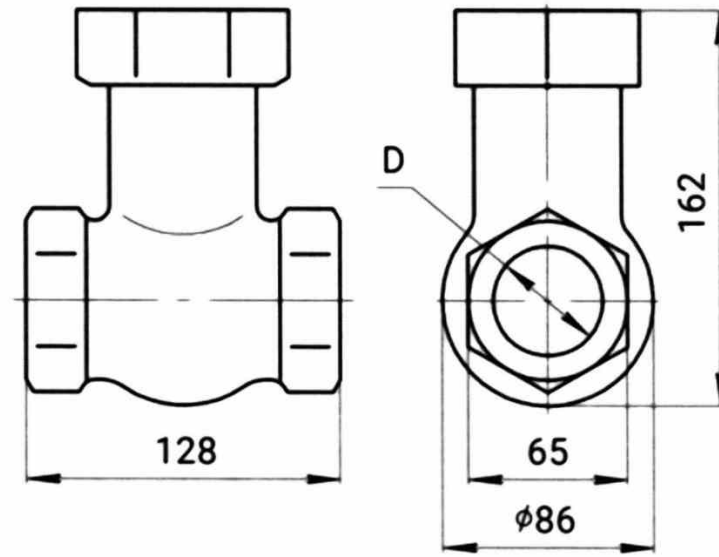
|  |  | | | | | | |
|---|---|---|--|--|------------|-------------|--|
| | 144 (4-3) | 161 (1-13) | 162 (1-12) | 169 (5-2)  | 176 (1-14) | 176 (1-15) | 263 (1-16)  |
|  | 8 | 15 | 15 | 20×20×15 | 20 | 25 | 20 |
|  | G 1/4 | G 1/2 | G1/2 | 
G3/4 -
L -
G1/2 -
L G3/4 - L | G3/4 - L | G1 |  |
|  | 
3, 3 15150-69 | 
1, 1, 1 15150-69 | 
1, 1, 1 15150-69 | 
1, 1 15150-69 | | | |
|  | 
3184-071-05756760-2005 | 
3184-071-05756760-2005 | 
3184-071-05756760-2005 | 
3184-071-05756760-2005 | | | |
|  | 170×20×75 | 102×57×100 | 102×57×100 | 114×62×75 | 120×55×77 | 120 ×55 ×77 | 124×62×90 |
|  | 1 | 1,3 | 1,3 | 1,6 | 2,2 | 2,2 | 1 |
|  | | | | | | | 
3.7.2.6.2 |



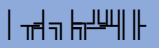
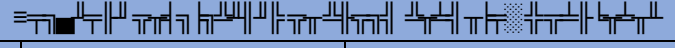
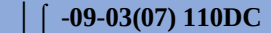
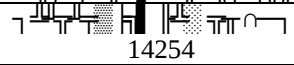
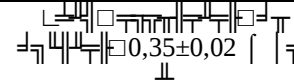
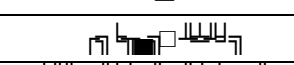
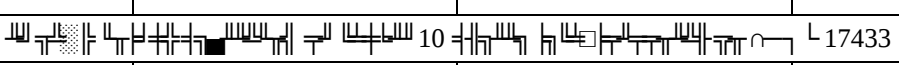
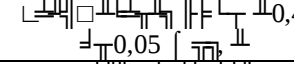
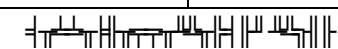
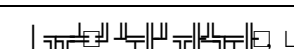
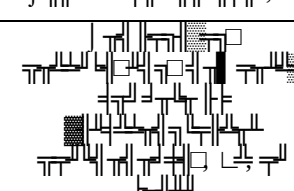
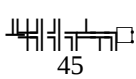
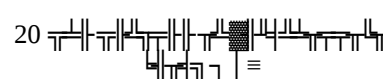
2.7.2.6.3 - 263

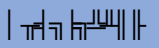
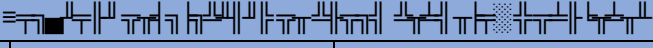
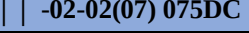
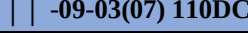
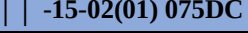
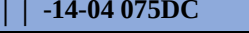
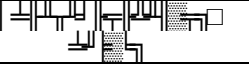
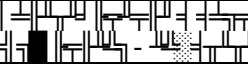
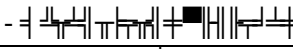
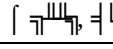
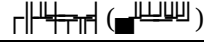


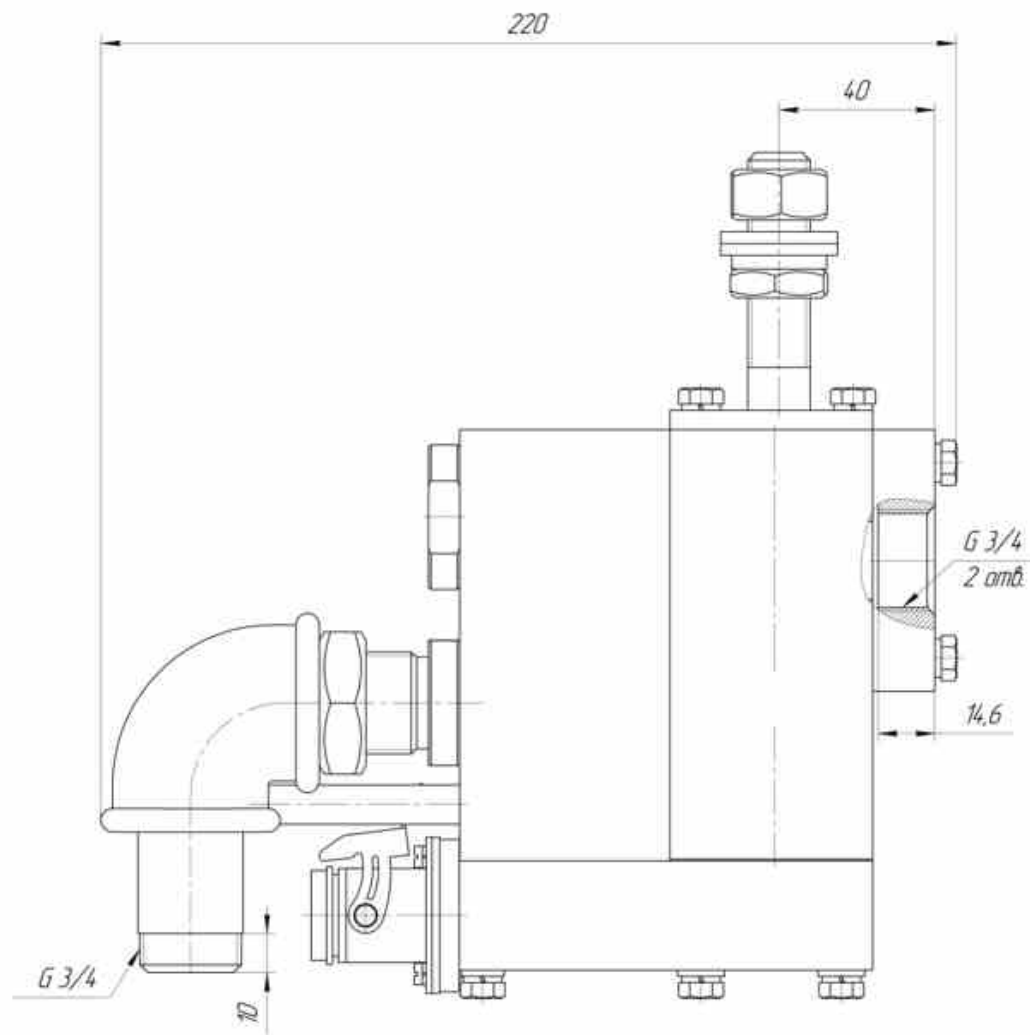
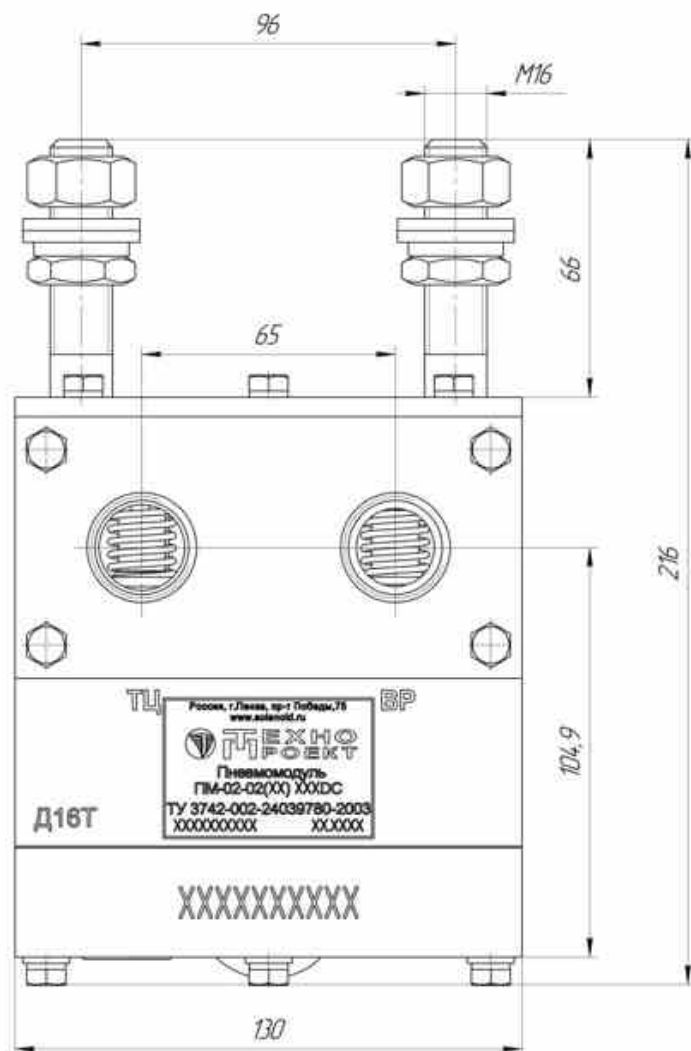
2.7.2.6.3 - (5-1)



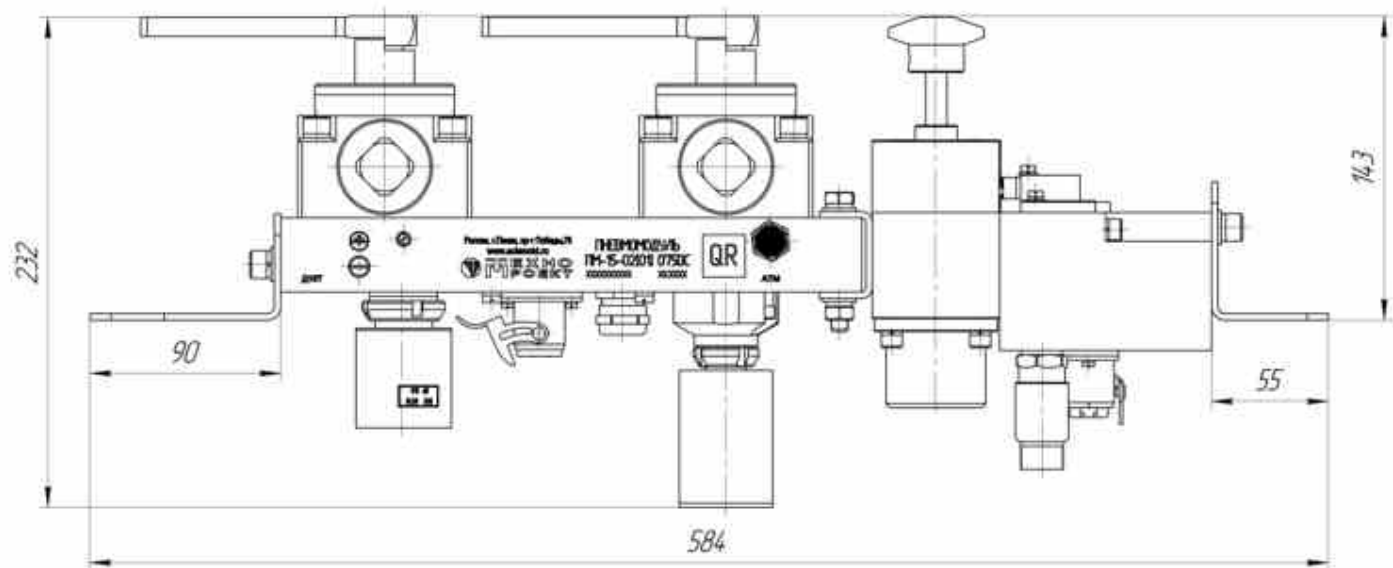
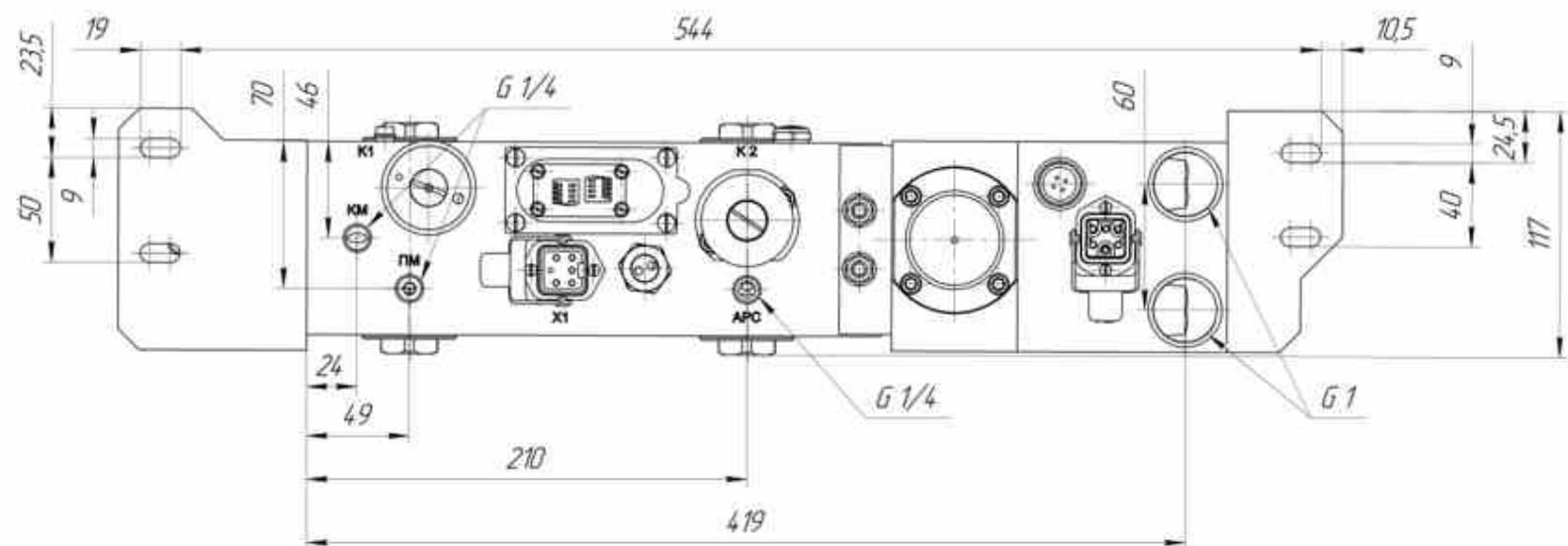
2.7.2.6.4 - 1-8 (155), 1-9 (155v)

|  |  | | | |
|---|--|---|--|--|
| |  -02-02(07) 075DC |  -09-03(07) 110DC |  -15-02(01) 075DC |  -14-04 075DC |
|  | | | 0,7 | |
|  | - | - | - | 0,05 |
|  | -55...+55 | -50...+60 | -50...+60 | -50...+60 |
|  14254 | IP 54 | IP22 | IP22 | IP22 |
|  0,35±0,02 | 0,3 | - | | |
|  |  10 L 17433 | | | |
|  0,4
0,05 | 0,3 | 0,01 | | |
|  55
0,5
0,1 | - | - | 2 | |
|  |  | | | |
|  | - 50, 75, 110 (-30...+50%) DC | 50, 75, 110 (-30...+50%) | - 75 DC
52-82 | 75 DC
50-90 |
|  | 15 |  45 | 25 |  20 |
|  L, % | 100 | 100 | 100 |  10, % |

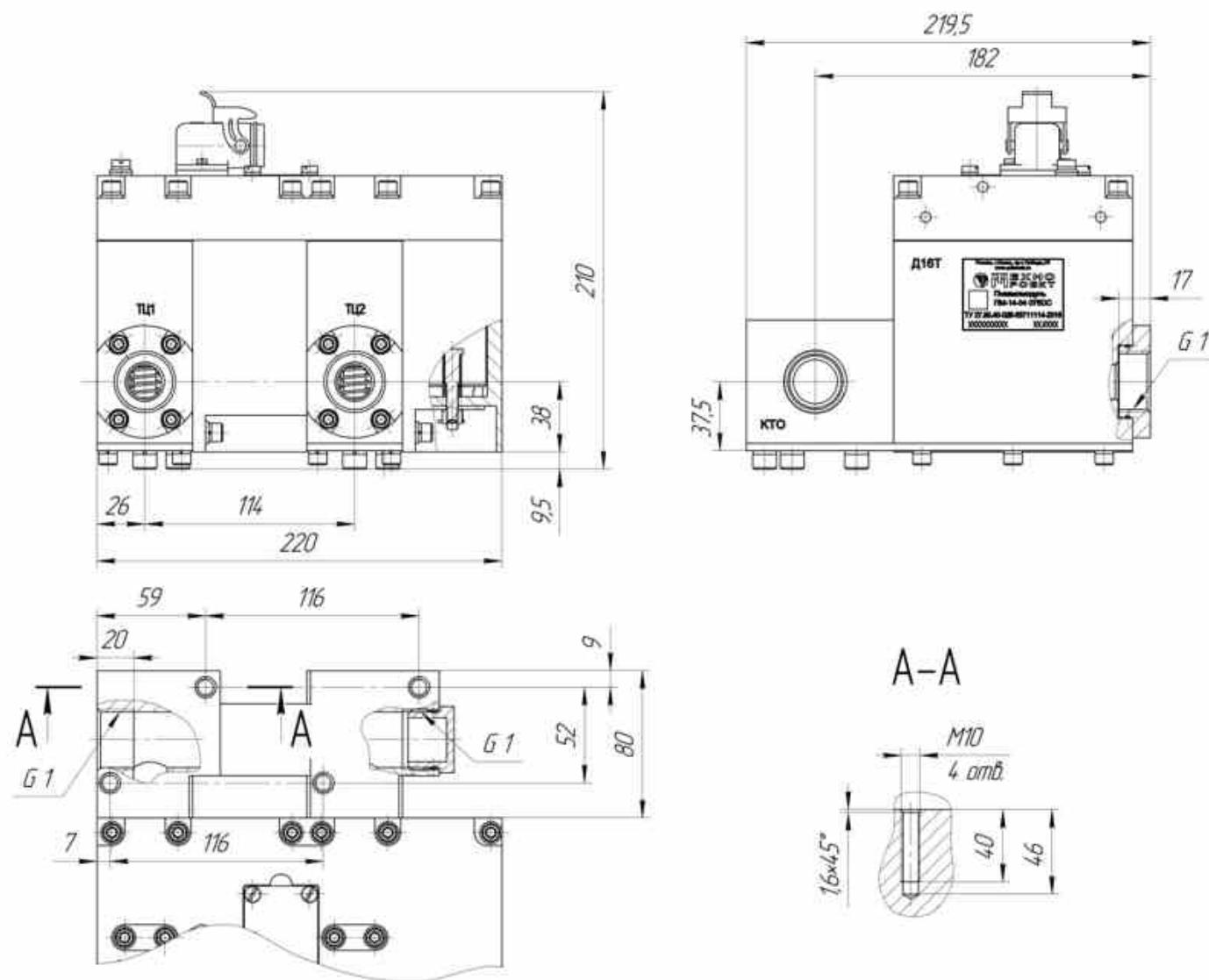
|  |  | | | |
|---|--|--|--|---|
| |  -02-02(07) 075DC |  -09-03(07) 110DC |  -15-02(01) 075DC |  -14-04 075DC |
|  | - |  | - | G1 |
|  | G $\frac{3}{4}$ | - | - | - |
|  | G $\frac{3}{4}$ | - | - | - |
|  9544-2015 | - | - |  |  |
|  | 7,5 | 2,9 | 12,5±1,2 | 16±0,5 |
|  | 130×220×216 | 171  84  149 | | 220  230  190 |
|  |  2.7.3.1 |  2.7.3.2 |  2.7.3.3 |  2.7.3.4 |



2.7.3.1 - ПМ-02-02(07) 075DC



2.7.3.3 - | | -15-02(01) 075DC



2.7.3.4 - 14-04 075DC

2.8.

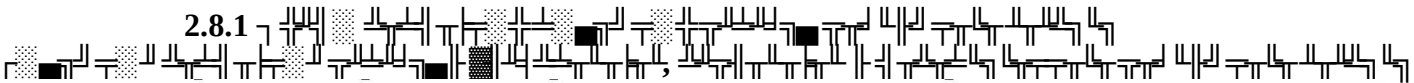
(—).

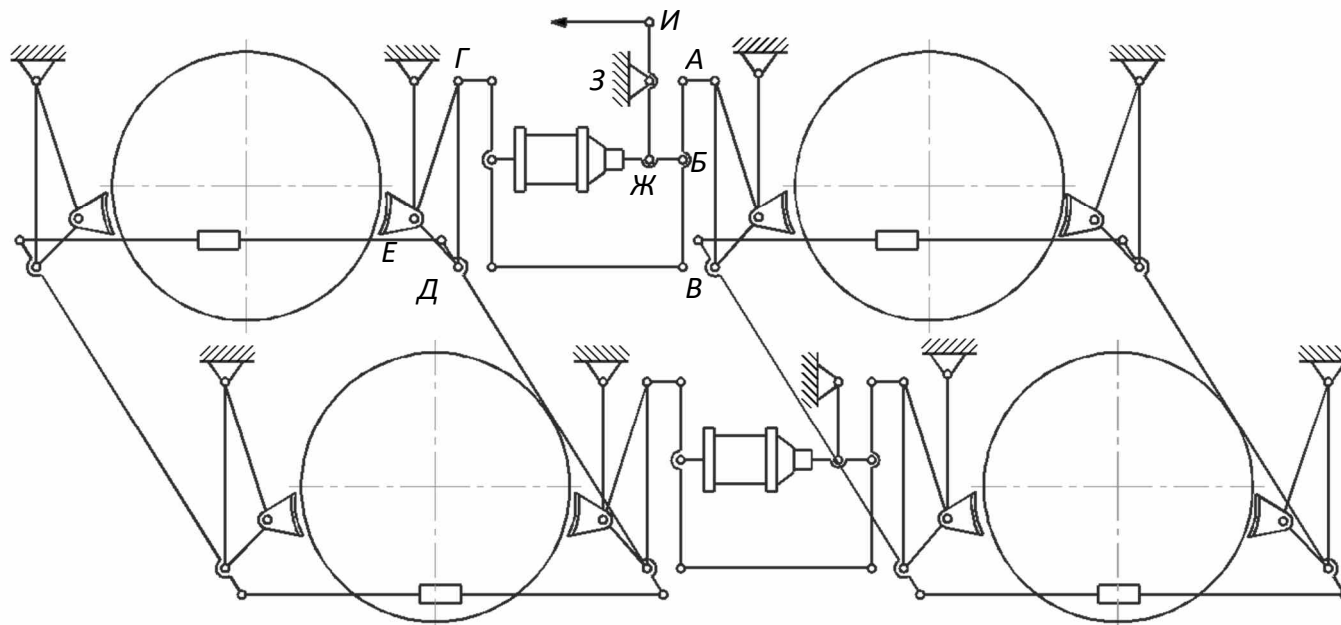
[ 34434-2018,  3.13]

Figure 1: A diagram illustrating the structure of the proposed model. The input is a sequence of tokens $x_1, x_2, \dots, x_n$. These tokens are processed by an embedding layer to produce a sequence of vectors $z_1, z_2, \dots, z_n$. These vectors are then fed into a sequence of layers, each containing a set of parallel processing units. The output of the final layer is a sequence of vectors $y_1, y_2, \dots, y_n$. The diagram also shows a feedback loop from the output back to the input, suggesting a recurrent or iterative process.

($\frac{1}{2}$). [34625-2019]

34625-2019

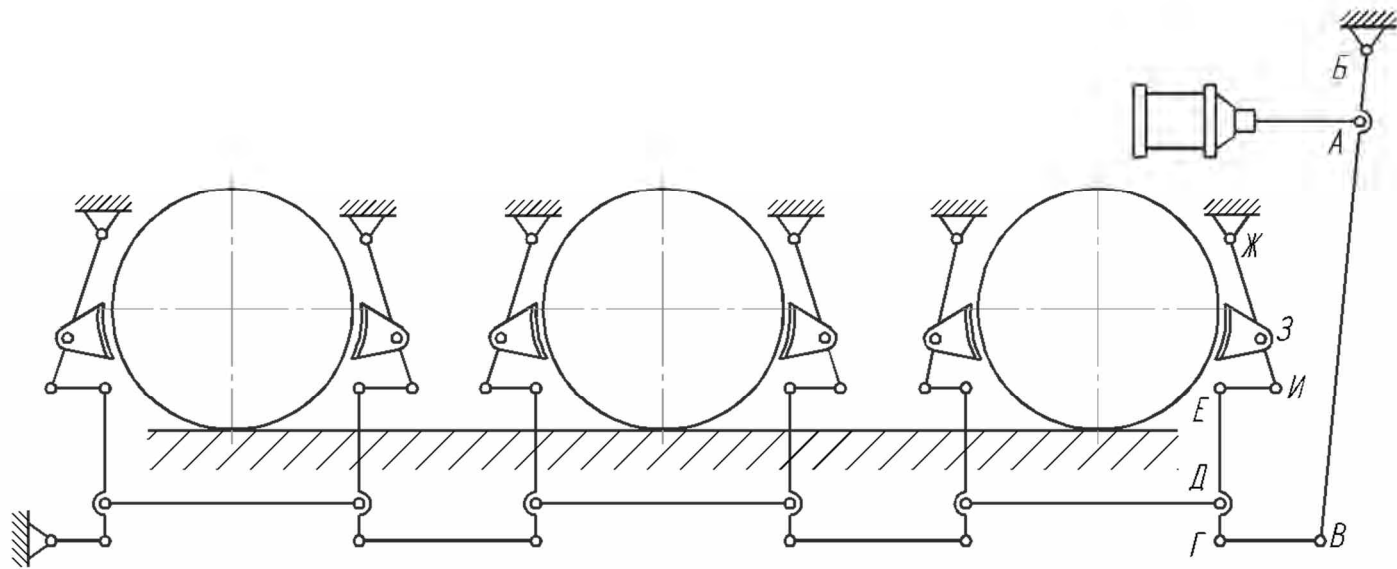
2.8.1.1.  2.8.1



2.8.1.1.1  2 п 4Δ, 2 п 5Δ, Л 10, Л 10, Л 11, Л 11, Л 15, Л 15, Л 80, Л 80, Л 80, Л 80, Л 82, Л 85, 2 п 5, п 1, п 1, п 1

2.8.1.1.1. 2 4, 2 5, 10, 10, 11, 11, 15, 15, 80, 80, 80, 80, 82, 85, 2 5, 5, 1, 1, 1

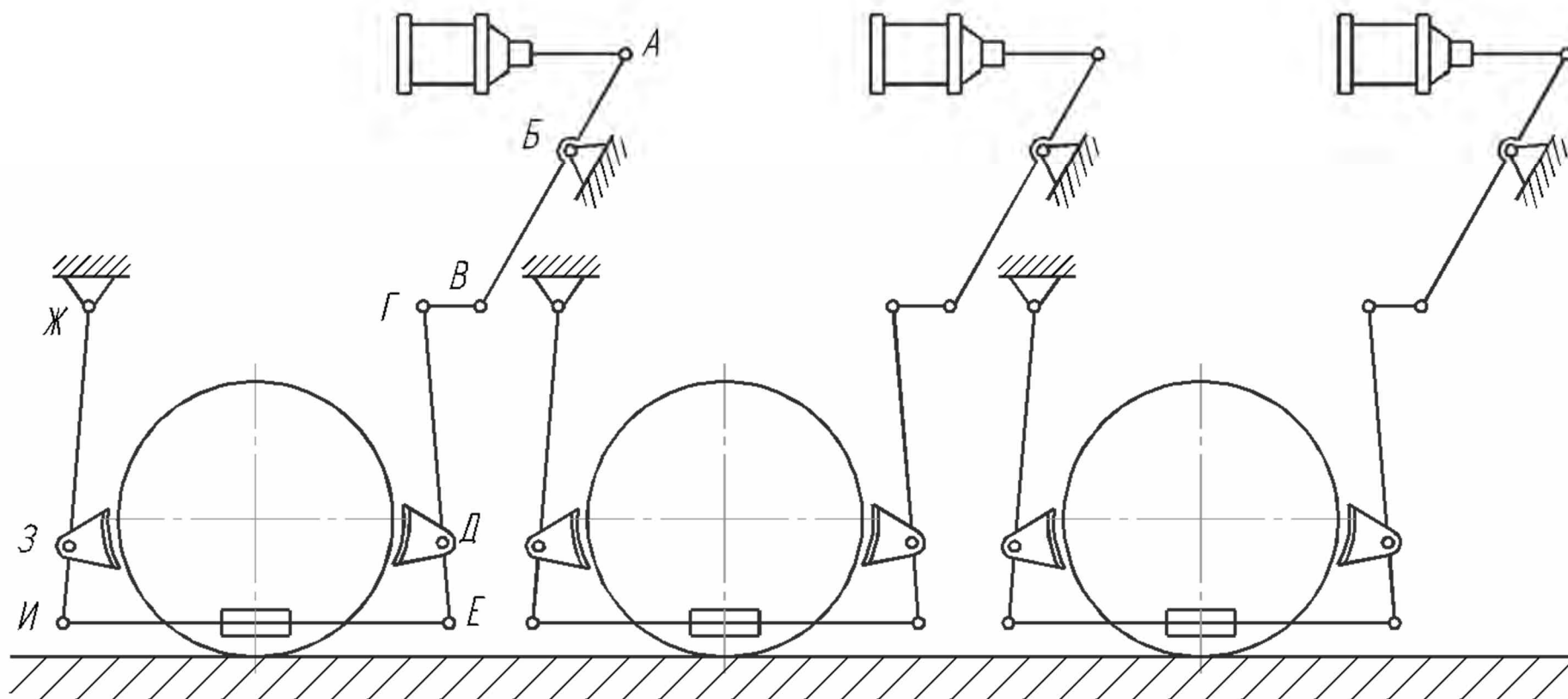
| | $\sqrt{\infty}$ | ∞ | $\cap$ | $\approx$ | $\neq \equiv$ | $\neq \equiv$ |
|-------|-----------------|----------|--------|-----------|---------------|---------------|
| 2 4 | 210 | 370 | 650 | 410 | 240 | 350 |
| 2 5 | 210 | 370 | 650 | 410 | 240 | 350 |
| 10 | 210 | 370 | 650 | 410 | 240 | 350 |
| 10 | 210 | 370 | 650 | 410 | 240 | 350 |
| 11 | 210 | 370 | 650 | 410 | 240 | 350 |
| 11 | 210 | 370 | 650 | 410 | 240 | 350 |
| 15 | 210 | 370 | 650 | 410 | 240 | 350 |
| 15 | 210 | 370 | 650 | 410 | 240 | 350 |
| 1h001 | 210 | 370 | 650 | 410 | 240 | 350 |
| 80 | 210 | 370 | 650 | 410 | 240 | 350 |
| 80 | 210 | 370 | 650 | 410 | 240 | 350 |
| 80 | 210 | 370 | 650 | 410 | 240 | 350 |
| 80 | 210 | 370 | 650 | 410 | 240 | 350 |
| 82 | 210 | 370 | 650 | 410 | 240 | 350 |
| 85 | 210 | 370 | 650 | 410 | 240 | 350 |
| 2 5 | 210 | 370 | 650 | 410 | 240 | 350 |
| 5 | 210 | 370 | 650 | 410 | 240 | 350 |
| 1 | 210 | 370 | 650 | 410 | 240 | 350 |
| 1 | 210 | 370 | 650 | 410 | 240 | 350 |
| 1 | 210 | 370 | 650 | 410 | 240 | 350 |



2.8.1.1.2 60

2.8.1.2 60

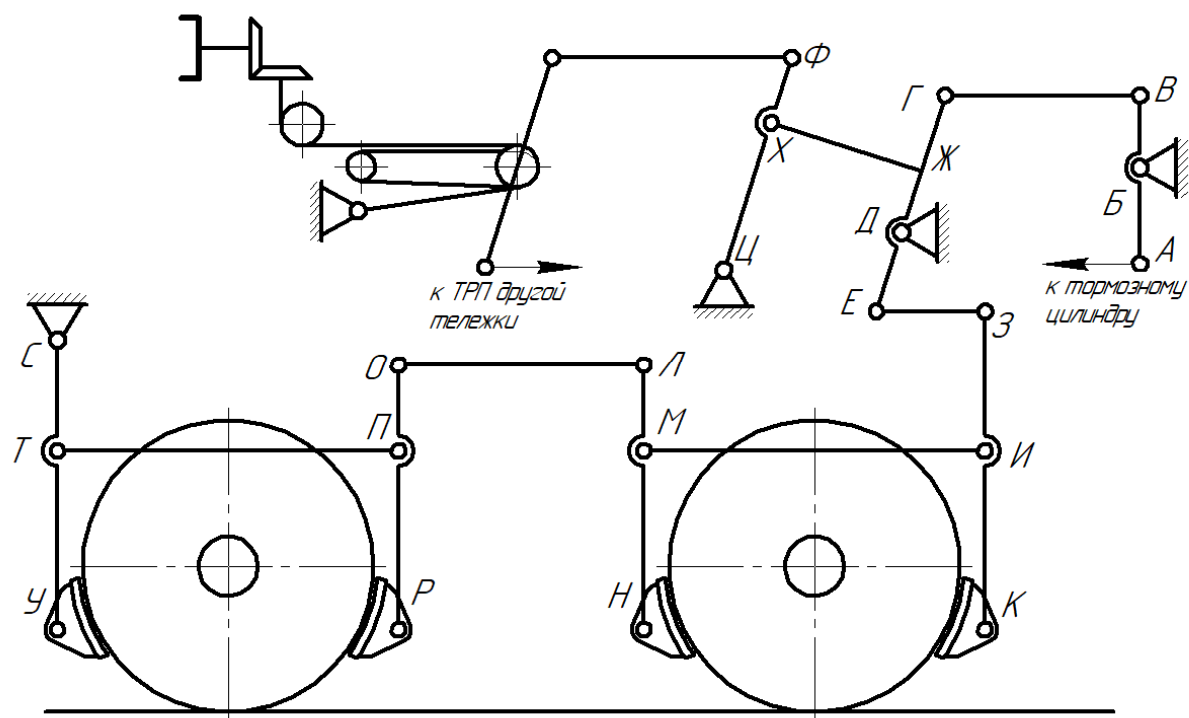
| | $\sqrt{\infty}$ | $\sqrt{L}$ | $\cap f$ | $f \approx$ | $\neq \equiv$ | $\equiv \leq$ |
|----|-----------------|------------|----------|-------------|---------------|---------------|
| 60 | 380 | 280 | 121 | 110 | 260 | 240 |
| 60 | 380 | 280 | 121 | 110 | 260 | 240 |
| 60 | 380 | 280 | 121 | 110 | 260 | 240 |



2.8.1.1.3 (✓) 2Δ, L₇₀ (1, ∞), 2 L_{25Δ}, 3 L_{25Δ2}, 2 L₁₁₆, 2 L₁₀, 2(3) L₁₀, 1 62, 2 L₇₀, 1 18f, 1 18, 1 19, 1 28, 1 1, 2 6, 2 7, 2 10

2.8.1.1.3 (✓) 2Δ , $70(\downarrow, \infty)$, $2\downarrow 25\Delta$, $3\downarrow 25\Delta 2$, $2\downarrow 116$, $2\downarrow 10$, $2(3)\downarrow 10$, $\downarrow 62$, $2\downarrow 70$, $\downarrow 18$, $\downarrow 18$, $\downarrow 19$, $\downarrow 28$, $\downarrow$, $2\downarrow 6$, $2\downarrow 7$, $2\downarrow 10$

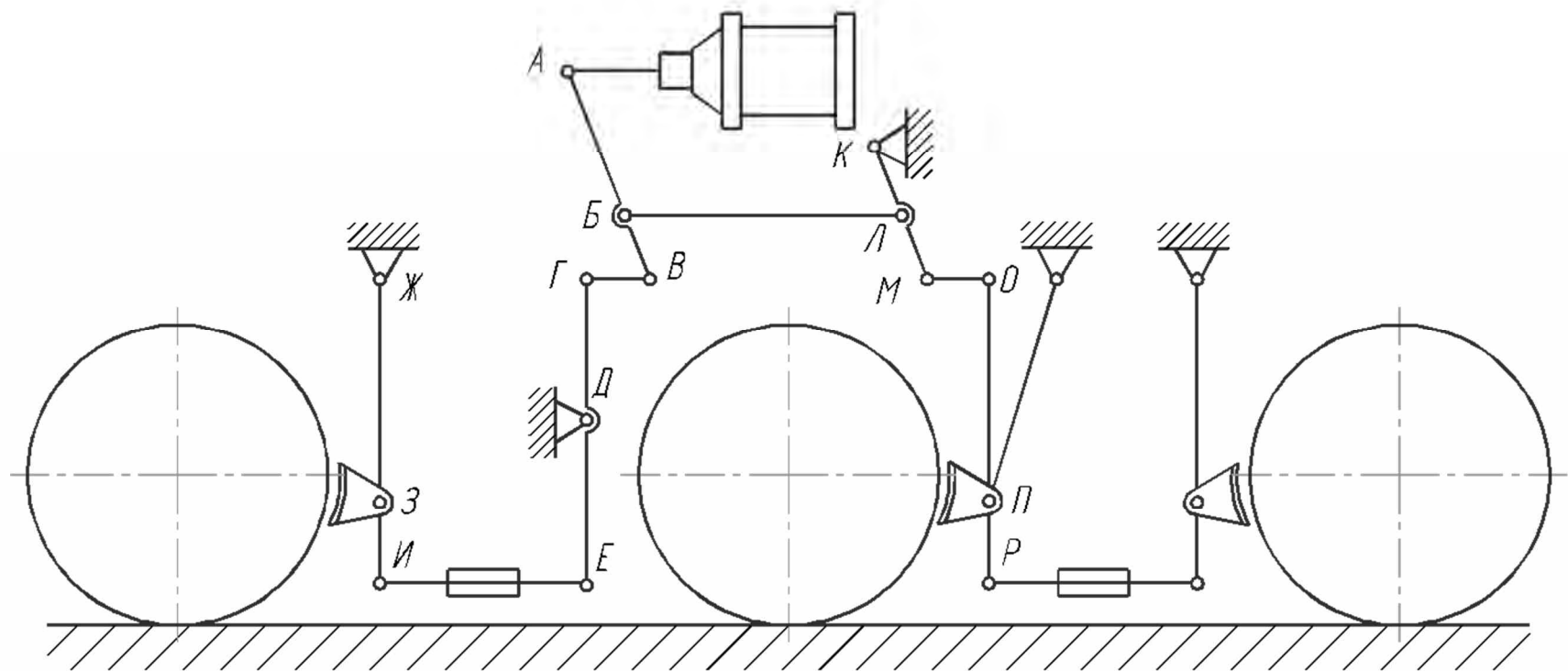
| | $\sqrt{\infty}$ | ∞ | $\cap$ | $\approx$ | $\neq \equiv$ | $3 \leq$ |
|--------------------------|-----------------|----------|--------|-----------|---------------|----------|
| 2Δ | 393 | 247 | 380 | 302 | 397 | 316 |
| $70(\downarrow, \infty)$ | 393 | 247 | 380 | 302 | 397 | 316 |
| $2\downarrow 25\Delta$ | 353 | 333 | 380 | 302 | 397 | 316 |
| $3\downarrow 25\Delta 2$ | 353 | 333 | 380 | 302 | 397 | 316 |
| $2\downarrow 116$ | 393 | 247 | 380 | 302 | 397 | 316 |
| $2\downarrow 10$ | 405 | 235 | 380 | 302 | 397 | 316 |
| $2(3)\downarrow 10$ | 405 | 235 | 380 | 302 | 397 | 316 |
| $\downarrow 62$ | 405 | 235 | 380 | 302 | 397 | 316 |
| $2\downarrow 70$ | 393 | 247 | 380 | 302 | 397 | 316 |
| $\downarrow 18$ | 365 | 273 | 381 | 262 | 398 | 280 |
| $\downarrow 18$ | 365 | 273 | 381 | 262 | 398 | 280 |
| $\downarrow 19$ | 365 | 273 | 381 | 262 | 398 | 280 |
| $\downarrow 28$ | 365 | 273 | 381 | 262 | 398 | 280 |
| $\downarrow$ | 365 | 273 | 381 | 262 | 398 | 280 |
| $2\downarrow 6$ | 305 | 185 | 610 | 365 | 380 | 225 |
| $2\downarrow 7$ | 305 | 185 | 610 | 365 | 380 | 225 |
| $2\downarrow 10$ | 305 | 185 | 610 | 365 | 380 | 225 |



2.8.1.1.3 (∞) $\cap$ L1h002, L_Г 7, L_Г 7 $\sqrt{}$, L_Г 14

2.8.1.1.3 (∞) $\cap$ L1h002, L_Г 7, L_Г 7 $\sqrt{}$, L_Г 14

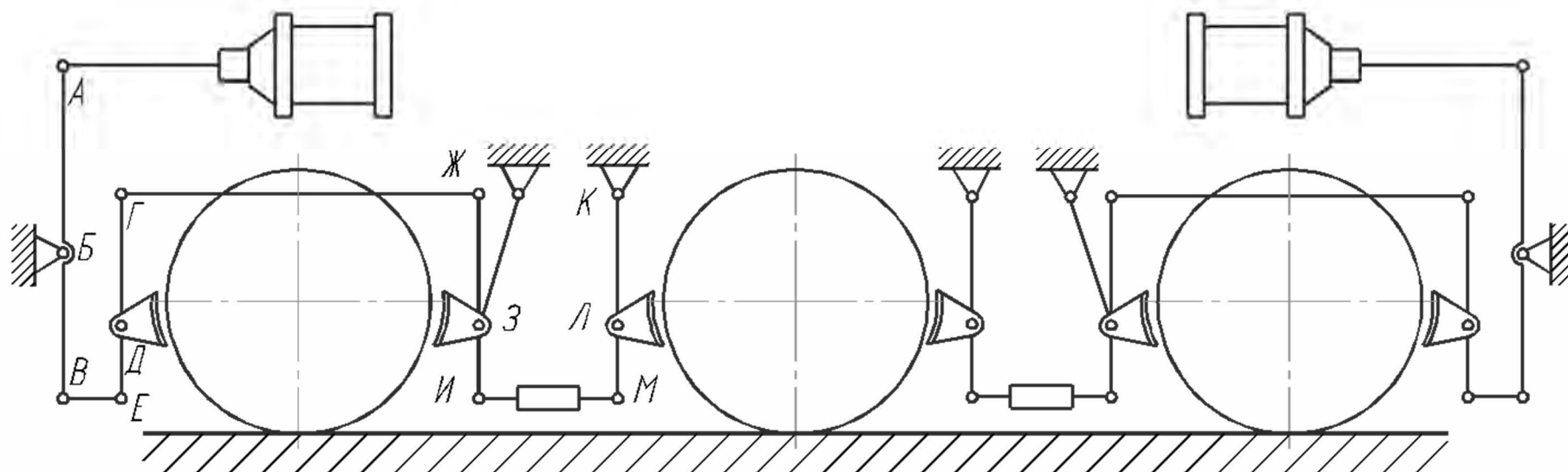
| | $\sqrt{\infty}$ | ∞L | $\cap f$ | $f \approx$ | $f \neq$ | $\equiv \leq$ | $\leq \triangle$ | $\neg$ | f | $-$ | f | $\neg$ | $\neg$ | $\neg$ | $\neg$ |
|----------------------------|-----------------|------------|----------|-------------|----------|---------------|------------------|--------|-----|-----|-----|--------|--------|--------|--------|
| $\cap$ L1h002 | 200 | 158 | 425 | 212 | 350 | 280 | 288 | 248 | 255 | 248 | 255 | 242 | 245 | 215 | 215 |
| L _Г 7 | 200 | 158 | 425 | 212 | 350 | 280 | 288 | 248 | 255 | 248 | 255 | 242 | 245 | 215 | 215 |
| L _Г 7 $\sqrt{}$ | 200 | 158 | 425 | 212 | 350 | 280 | 288 | 248 | 255 | 248 | 255 | 242 | 245 | 215 | 215 |
| L _Г 14 | 200 | 158 | 425 | 212 | 350 | 280 | 288 | 248 | 255 | 248 | 255 | 242 | 245 | 215 | 215 |



2.8.1.1.4 $L_F 2, \lceil 62, 2 \lceil 62, 2 \lceil 62 \rceil, L_F 10, 2 L_F 10 \neg, L_F \lceil 2 \rceil (\)$

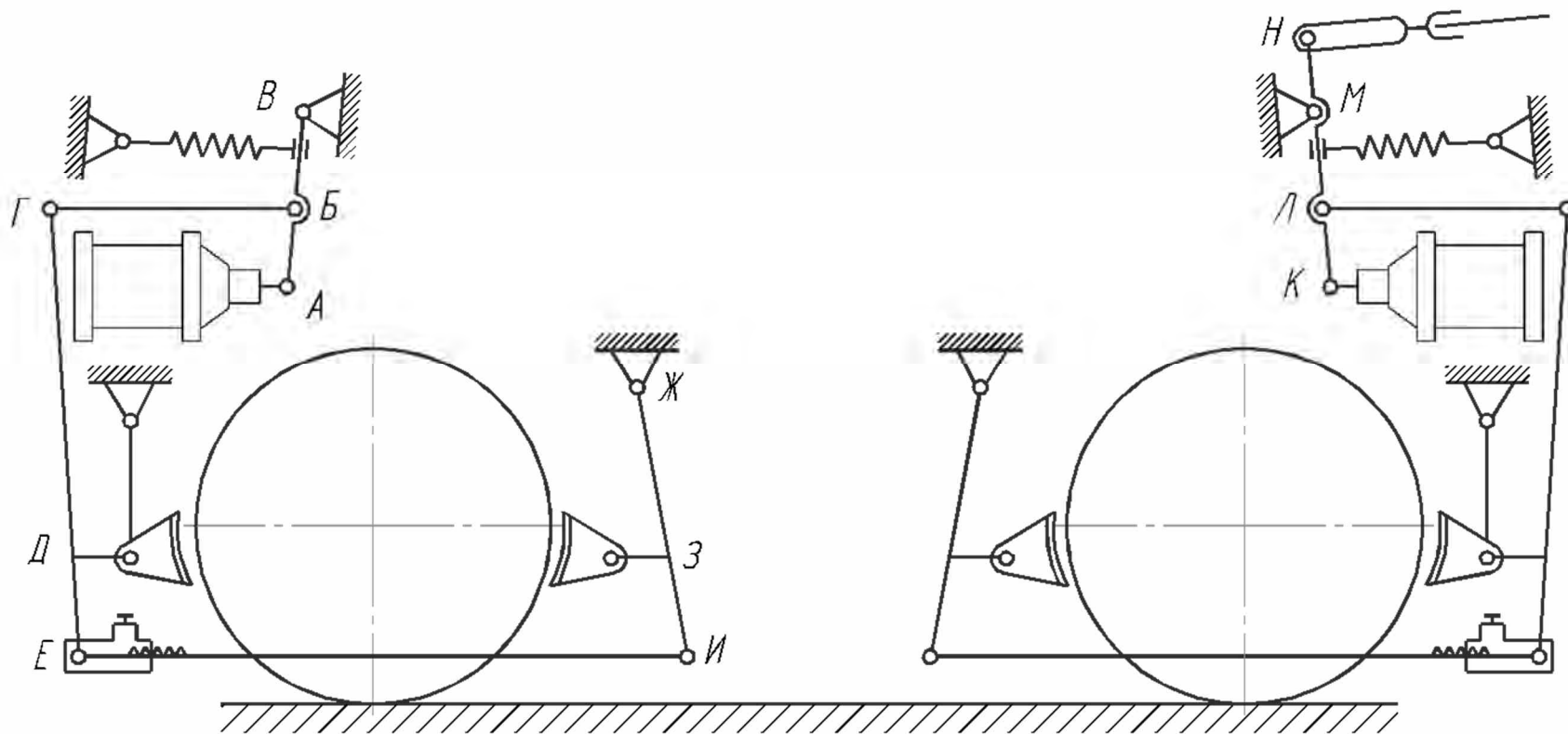
2.8.1.1.4 $L_F 2, \lceil 62, 2 \lceil 62, 2 \lceil 62 \rceil, L_F 10, 2 L_F 10 \neg, L_F \lceil 2 \rceil (\)$

| | $\sqrt{\infty}$ | ∞L | $\cap f$ | $\int \approx$ | $\neq \equiv$ | $\equiv \leq$ | $\triangle \neg$ | $\neg \lceil$ | $-$ | $\lceil$ | $\neg L$ | $\square$ |
|-----------------------------|-----------------|------------|----------|----------------|---------------|---------------|------------------|---------------|-----|----------|----------|-----------|
| $L_F \lceil 2$ | 358 | 178 | 410 | 340 | 445 | 160 | 110 | 162 | 590 | 285 | 490 | 240 |
| $\lceil 62$ | 358 | 178 | 410 | 340 | 445 | 160 | 110 | 162 | 590 | 285 | 490 | 240 |
| $2 \lceil 62$ | 358 | 178 | 410 | 340 | 445 | 160 | 110 | 162 | 590 | 285 | 490 | 240 |
| $2 \lceil 62 \rceil$ | 358 | 178 | 410 | 340 | 445 | 160 | 110 | 162 | 590 | 285 | 490 | 240 |
| $L_F 10$ | 404 | 132 | 410 | 340 | 445 | 160 | 110 | 162 | 590 | 285 | 490 | 240 |
| $2 L_F 10 \neg$ | 358 | 178 | 410 | 340 | 445 | 160 | 110 | 162 | 590 | 285 | 490 | 240 |
| $L_F \lceil 2 \rceil (\)$ | 358 | 178 | 410 | 340 | 445 | 160 | 110 | 162 | 590 | 285 | 490 | 240 |



2.8.1.1.5 $\perp \parallel \infty \approx \neq \equiv \leq \triangle \nabla$

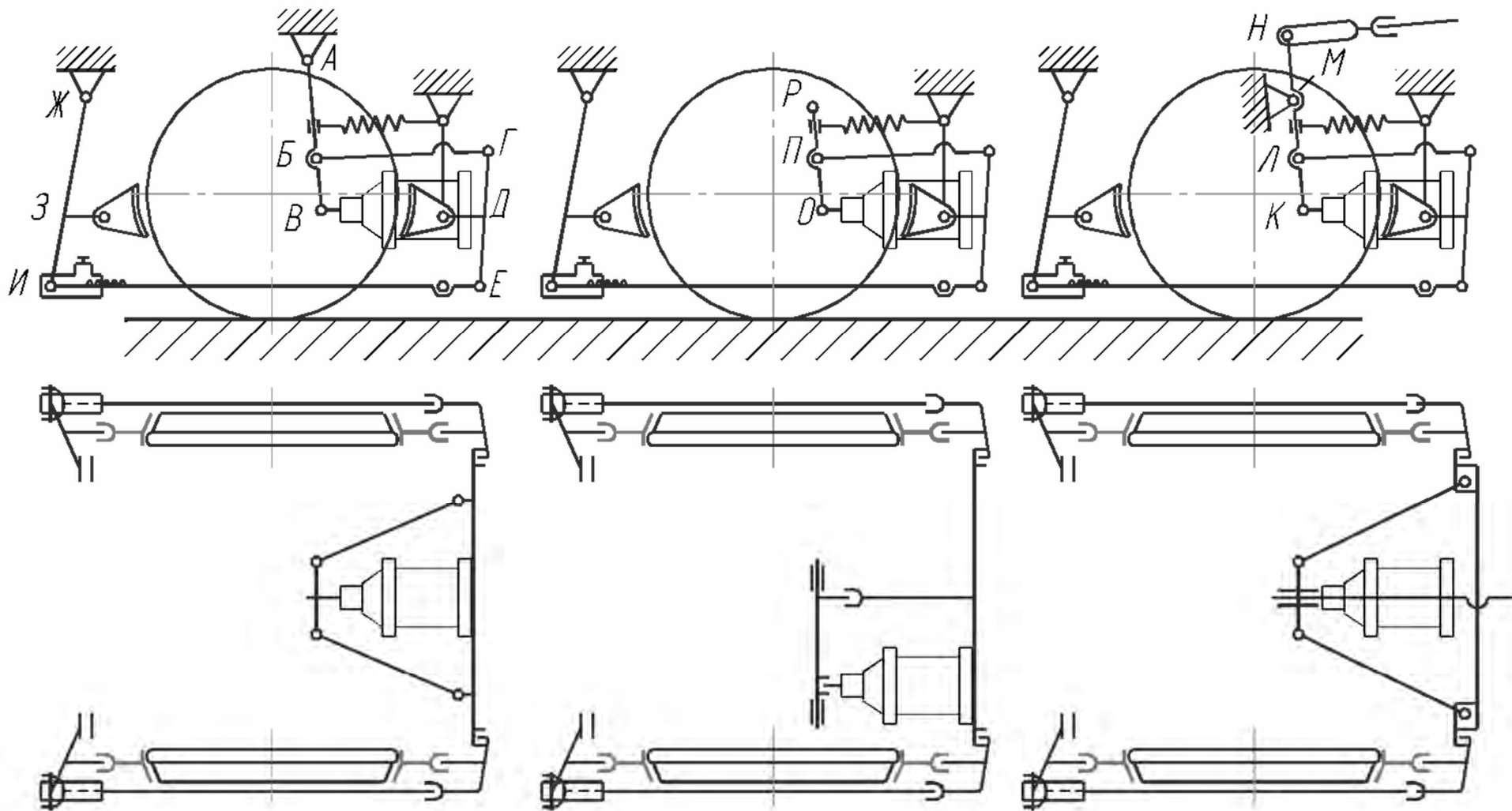
| 2.8.1.1.5 $\perp \parallel \infty \approx \neq \equiv \leq \triangle \nabla$ | $\sqrt{\infty}$ | $\infty \perp$ | $\cap \int$ | $\cap \approx$ | $\neq \equiv$ | $\neq \leq$ | $\triangle \nabla$ | $\triangle \int$ |
|--|-----------------|----------------|-------------|----------------|---------------|-------------|--------------------|------------------|
| $\perp \parallel \infty$ | 525 | 310 | 300 | 600 | 300 | 600 | 300 | 600 |
| $\perp \parallel \infty \approx$ | 525 | 310 | 300 | 600 | 300 | 600 | 300 | 600 |
| $\perp \parallel \infty \triangle$ | 525 | 310 | 300 | 600 | 300 | 600 | 300 | 600 |
| $\perp \parallel \infty \nabla$ | 525 | 310 | 300 | 600 | 300 | 600 | 300 | 600 |



2.8.1.1.6 200, 6, 7, 8

2.8.1.1.6 200, 6, 7, 8

| | $\sqrt{\infty}$ | ∞L | $\int r$ | Δr | $\int $ | $\cap \int$ | $\int \approx$ | $\neq \equiv$ | $\neq \leq$ |
|-----|-----------------|------------|----------|------------|----------|-------------|----------------|---------------|-------------|
| 200 | 230 | 170 | 230 | 170 | 265 | 290 | 290 | 375 | 750 |
| 6 | 230 | 170 | 230 | 170 | 265 | 290 | 290 | 375 | 750 |
| 7 | 210 | 190 | 210 | 190 | 410 | 290 | 290 | 375 | 750 |
| 8 | 210 | 190 | 210 | 190 | 410 | 290 | 290 | 375 | 750 |



2.8.1.1.7 2, 2^л, 2^Δ, 4, 4^Δ, 4^л

2.8.1.1.7 2, 2^L, 2^Δ, 4, 4^Δ, 4^L

| | $\sqrt{\infty}$ | ∞^L | $\lceil \rceil$ | $-$ | $\lceil \rceil$ | $\Delta \lceil$ | $\lceil \rceil$ | $\cap \lceil$ | $\lceil \approx$ | $\neq \equiv$ | $\neq \leq$ |
|-------------------|-----------------|------------|-----------------|-----|-----------------|-----------------|-----------------|---------------|------------------|---------------|-------------|
| $\lceil 2$ | 210 | 120 | 165 | 100 | 382 | 218 | 552 | 290 | 290 | 375 | 750 |
| $\lceil 2^L$ | 210 | 120 | 165 | 100 | 382 | 218 | 552 | 290 | 290 | 375 | 750 |
| $\lceil 2^\Delta$ | 210 | 120 | 165 | 100 | 382 | 218 | 552 | 290 | 290 | 375 | 750 |
| $\lceil 4$ | 195 | 280 | 165 | 230 | 195 | 280 | 552 | 290 | 290 | 375 | 750 |
| $\lceil 4^\Delta$ | 195 | 280 | 165 | 230 | 195 | 280 | 552 | 290 | 290 | 375 | 750 |
| $\lceil 4^L$ | 195 | 280 | 165 | 230 | 195 | 280 | 552 | 290 | 290 | 375 | 750 |

2.8.1.2. 2.8.1.2.1

2.8.1.2.1

| | | «√», «∞», «≠», «≤», «≡», «≠» | | | | | | |
|--|---------|------------------------------|-------------------|------|------|-----------------|-----------------|--------------------|
| | | √ ∞* | ∞ L* | ≠ ≡* | ≤ ≡* | ≠ | ≠ | |
| | | | | | | | | |
| | 65 - 53 | 390

260 | 260

390 | 210 | 210 | - | - | 12,0

5,3 |
| | 52 - 48 | 350

230 | 300

420 | 210 | 210 | - | - | 9,3

4,4 |
| | 47 - 42 | 330

200 | 320

450 | 210 | 210 | - | - | 8,3

3,6 |
| | ≤ « » | 240 | 110 | 210 | 210 | -

125 | -

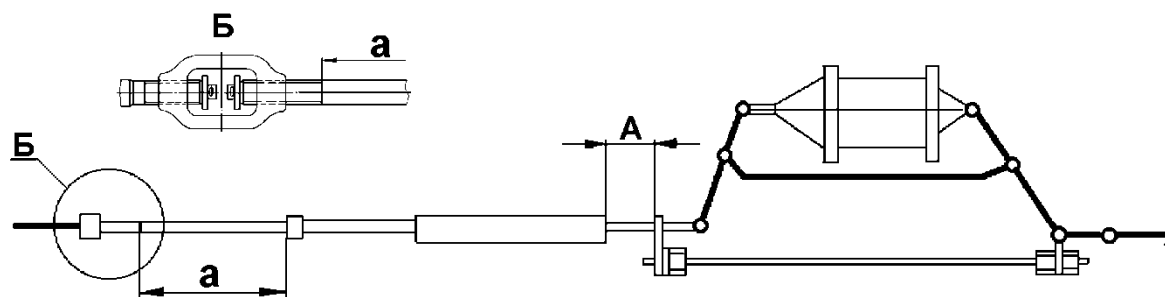
490 | -

3,25 |

* 2.8.1.2.2, 2.8.1.2.3, 2.8.1.2.4, 2.8.1.2.5, 2.8.1.2.6

2.8.1.2.2

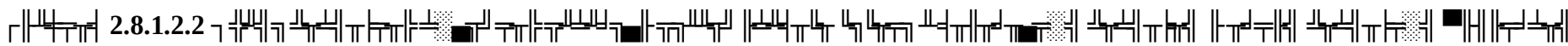
| | | «√», «∞», «≠», «≤», «≡», «≠» | |
|---------|--|------------------------------|-----------|
| | | √ ∞* | ∞ L* |
| 42 = 47 | | 25 - 45 | 140 - 200 |
| | | 50 - 70 | 130 - 150 |
| 48 = 52 | | 25 - 45 | 120 - 160 |
| | | 50 - 70 | 90 - 135 |
| 53 = 65 | | 25 - 45 | 100 - 130 |
| | | 50 - 70 | 90 - 110 |

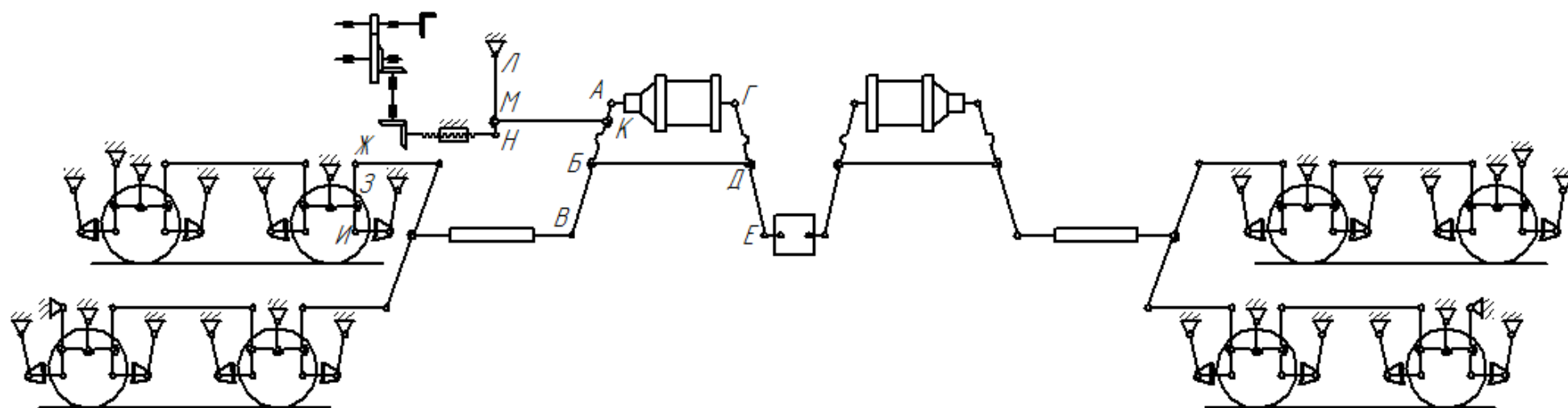


2.8.1.2.1

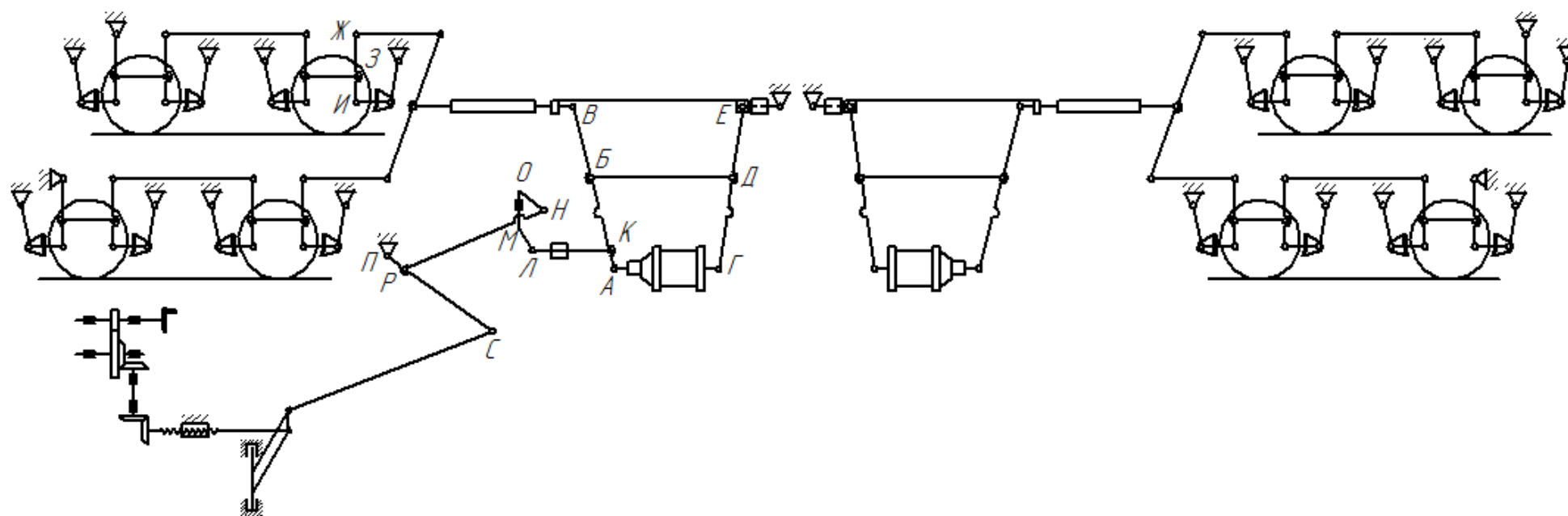
2.8.1.2.3

| | $\pi 130 < * > \pi 160 < * >$ |
|---------------------------|-------------------------------|
| 03-
($r \leq T$) KEs | $\pi 105 \pi 115$ |
| $\leq \leq \ll \gg$ | $\pi 25 \pi 40$ |
| $< * >$ (70), | |





2.8.1.2.3 - (61-905, 61-906) 61-531



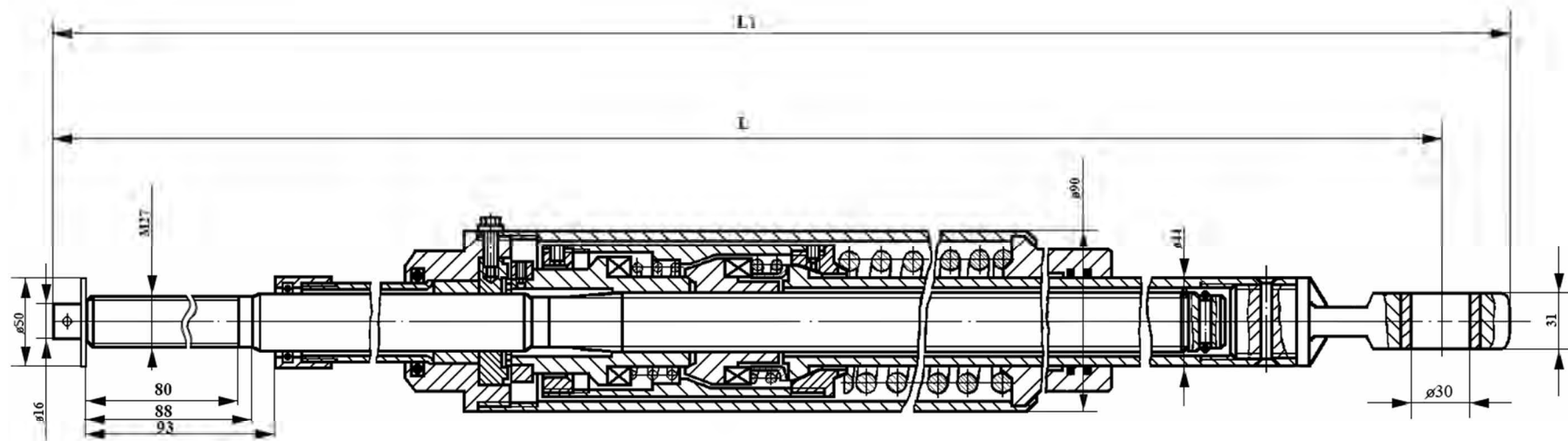
2.8.1.2.4 - 4504, 4505 - «L»

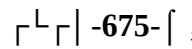
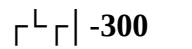
33724.3-2016

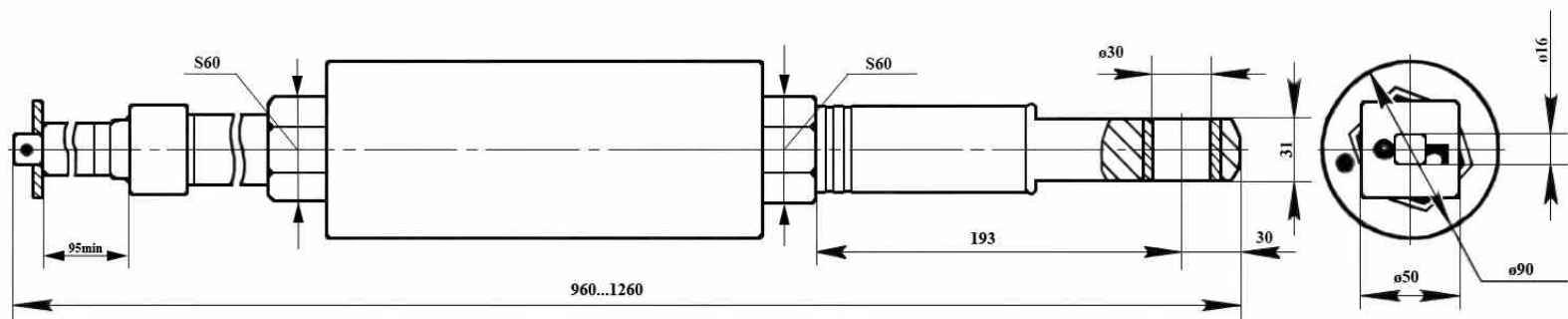
[illegible]

2.8.2.1 $\sqrt{\frac{L_1}{L_2}} \approx \frac{L_1}{L_2} \approx \frac{L_1}{L_2}$

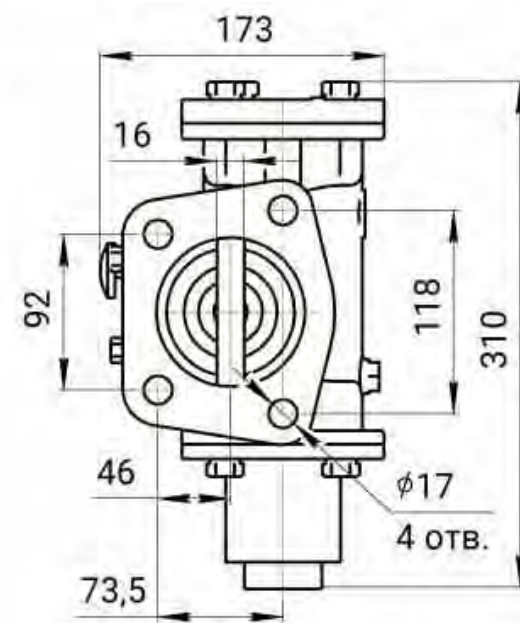
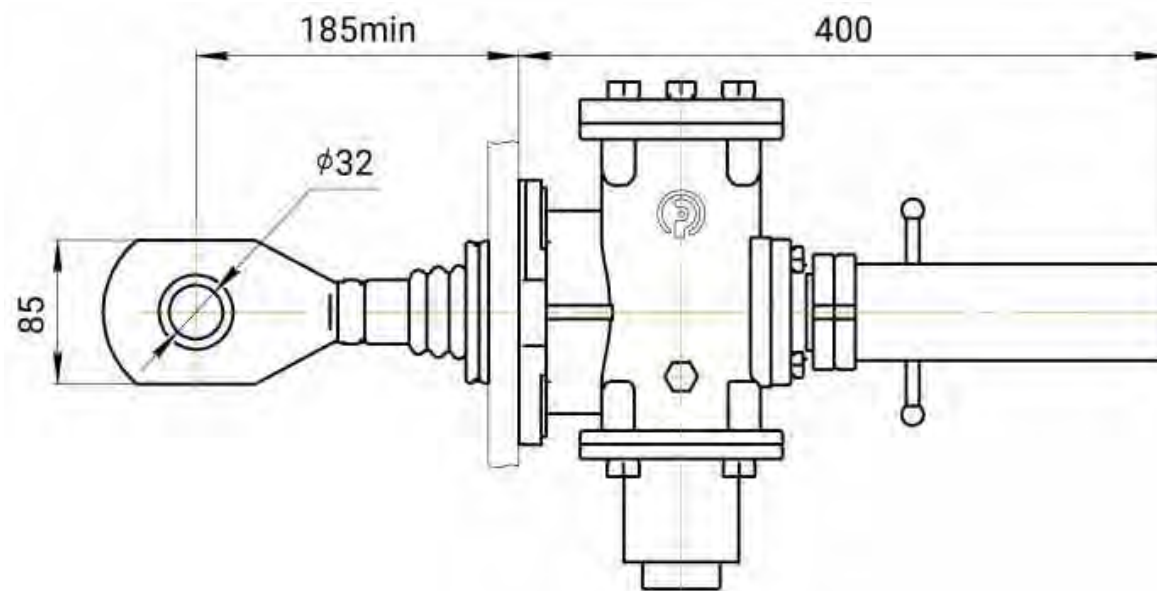
| $\frac{L_1}{L_2}$ | $\frac{L_1}{L_2}$ | | $\sqrt{\frac{L_1}{L_2}}$ | $\frac{L_1}{L_2}$ |
|-------------------|---|---------------------------|---|---|
| | $\frac{L_1}{L_2} - 675$ | $\frac{L_1}{L_2} - 300$ | $\sqrt{\frac{L_1}{L_2}} - 6581$ | $\sqrt{\frac{L_1}{L_2}} - 6584$ |
| $\frac{L_1}{L_2}$ | $\sqrt{-\langle \frac{L_1}{L_2} \rangle}$ | | $\sqrt{-\langle \frac{L_1}{L_2} \rangle} \approx \frac{L_1}{L_2}$ | $\sqrt{-\langle \frac{L_1}{L_2} \rangle} \approx \frac{L_1}{L_2}$ |
| $\frac{L_1}{L_2}$ | $\frac{L_1}{L_2}$ | | $\frac{L_1}{L_2}$ | $\frac{L_1}{L_2}$ |
| $\frac{L_1}{L_2}$ | 7ë 20 | 5ë 10 | 5 | 2 ⁺¹ |
| $\frac{L_1}{L_2}$ | 675 | 300 | 300+10 | 300 |
| $\frac{L_1}{L_2}$ | 312 | 193 | - | - |
| $\frac{L_1}{L_2}$ | 2377 | 1260 | - | - |
| $\frac{L_1}{L_2}$ | 1702 | 961 | 1000 | - |
| $\frac{L_1}{L_2}$ | 1739 | 998 | 1260 | - |
| $\frac{L_1}{L_2}$ | 90 | 90 | 90 | 90 |
| $\frac{L_1}{L_2}$ | 30 | 19 | 18 | 20 |
| $\frac{L_1}{L_2}$ | $\frac{L_1}{L_2}$ 2.8.2.1 | $\frac{L_1}{L_2}$ 2.8.2.1 | $\frac{L_1}{L_2}$ 2.8.2.2 | $\frac{L_1}{L_2}$ 2.8.2.3 |



2.8.2.1 - √   -675- ,  -300



2.8.2.2 - √ 6581



2.8.2.3 - √ 6584

2.8.4

34075-2017, 3.1

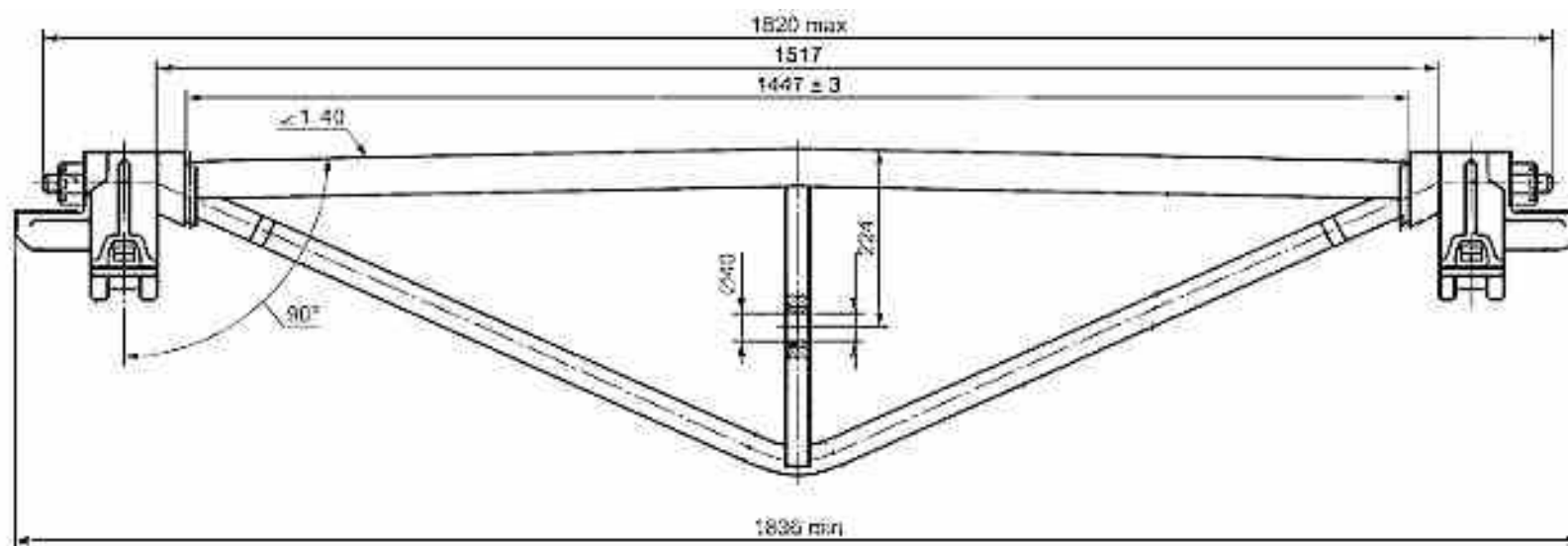
34075-2017, 3.7]

4686-2012]

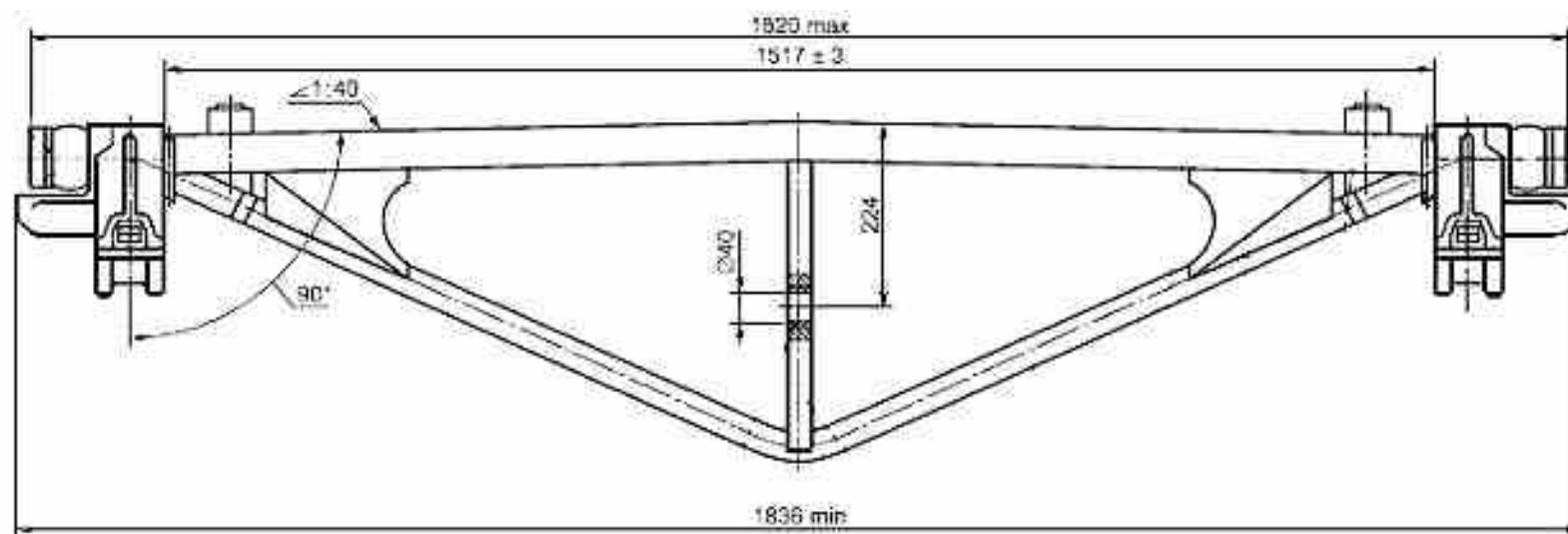
The diagram consists of a horizontal timeline with various symbols (vertical lines, dots, squares) and labels (34075-2017, 4686-2012). The symbols are arranged in a sequence, with some symbols appearing multiple times. The labels are placed at the beginning of the sequence, with 34075-2017 and 4686-2012 appearing together. The symbols are arranged in a sequence, with some symbols appearing multiple times. The labels are placed at the beginning of the sequence, with 34075-2017 and 4686-2012 appearing together.

2.8.4.1

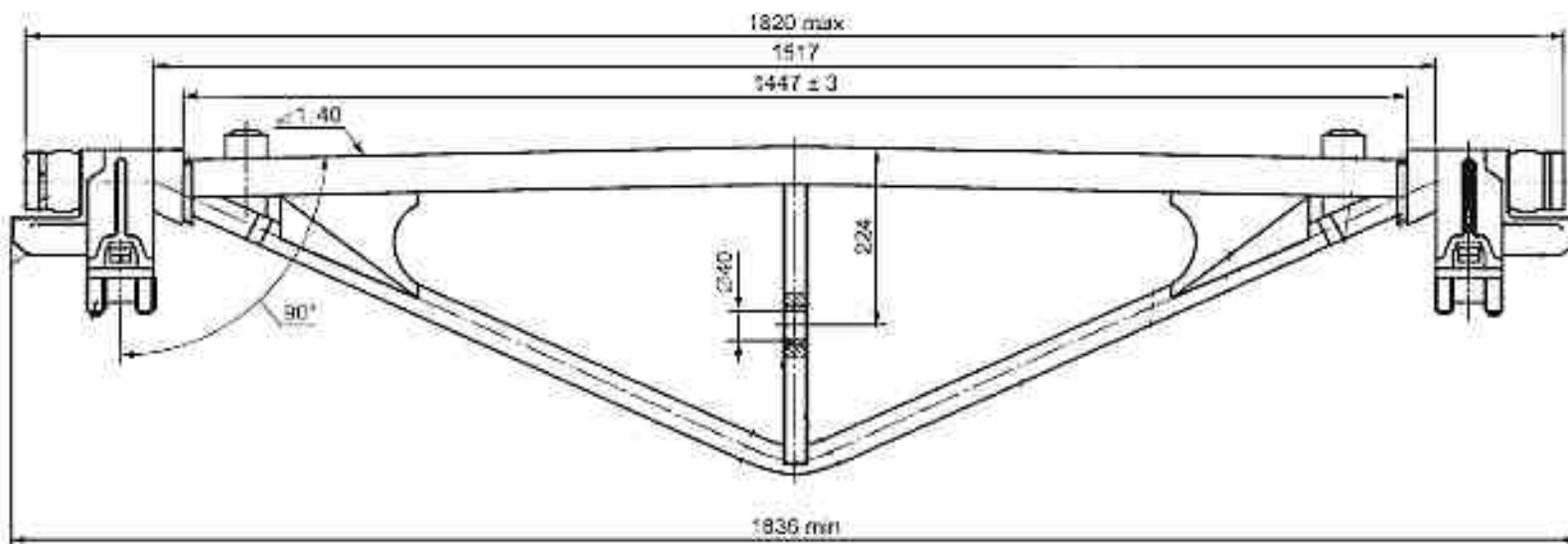
| תוכן התוכנית | מספר התוכנית | שם התוכנית | מספר התוכנית |
|--------------------|--------------|--------------------|--------------|
| 1 - תוכנית לימודים | 1 | 1 - תוכנית לימודים | 2.8.4.1 |
| 2 - תוכנית לימודים | 2 | 2 - תוכנית לימודים | 2.8.4.2 |
| 3 - תוכנית לימודים | 3 | 3 - תוכנית לימודים | 2.8.4.3 |
| 4 - תוכנית לימודים | 4 | 4 - תוכנית לימודים | 2.8.4.4 |



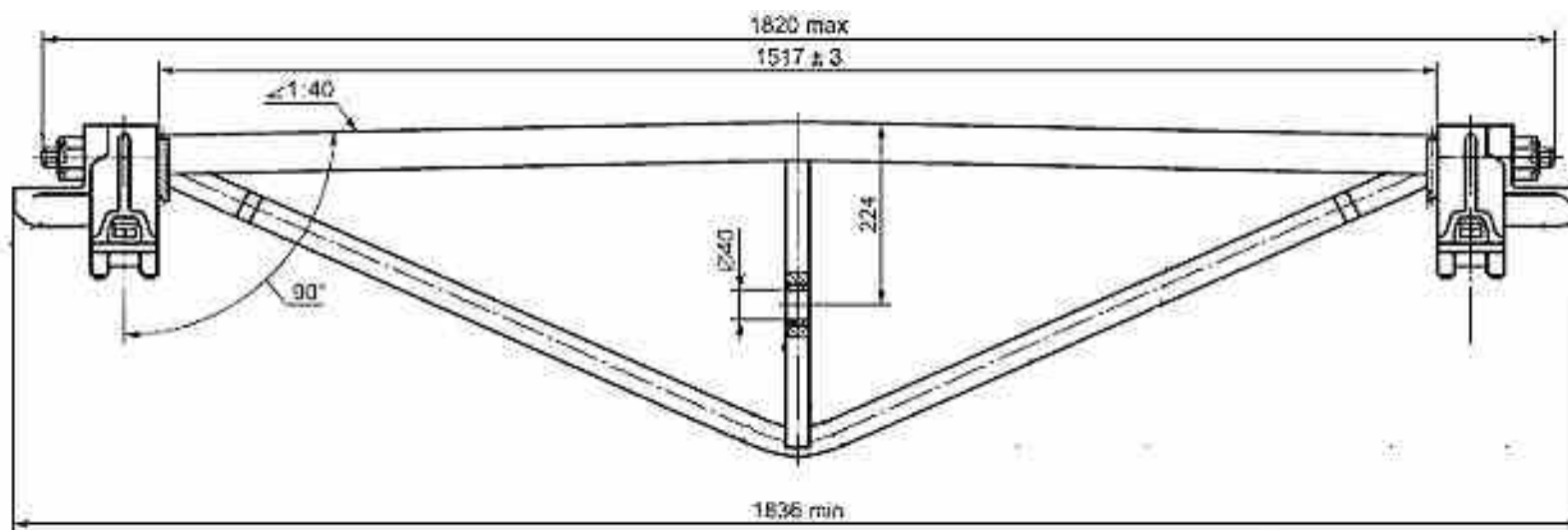
2.8.4.1



2.8.4.2



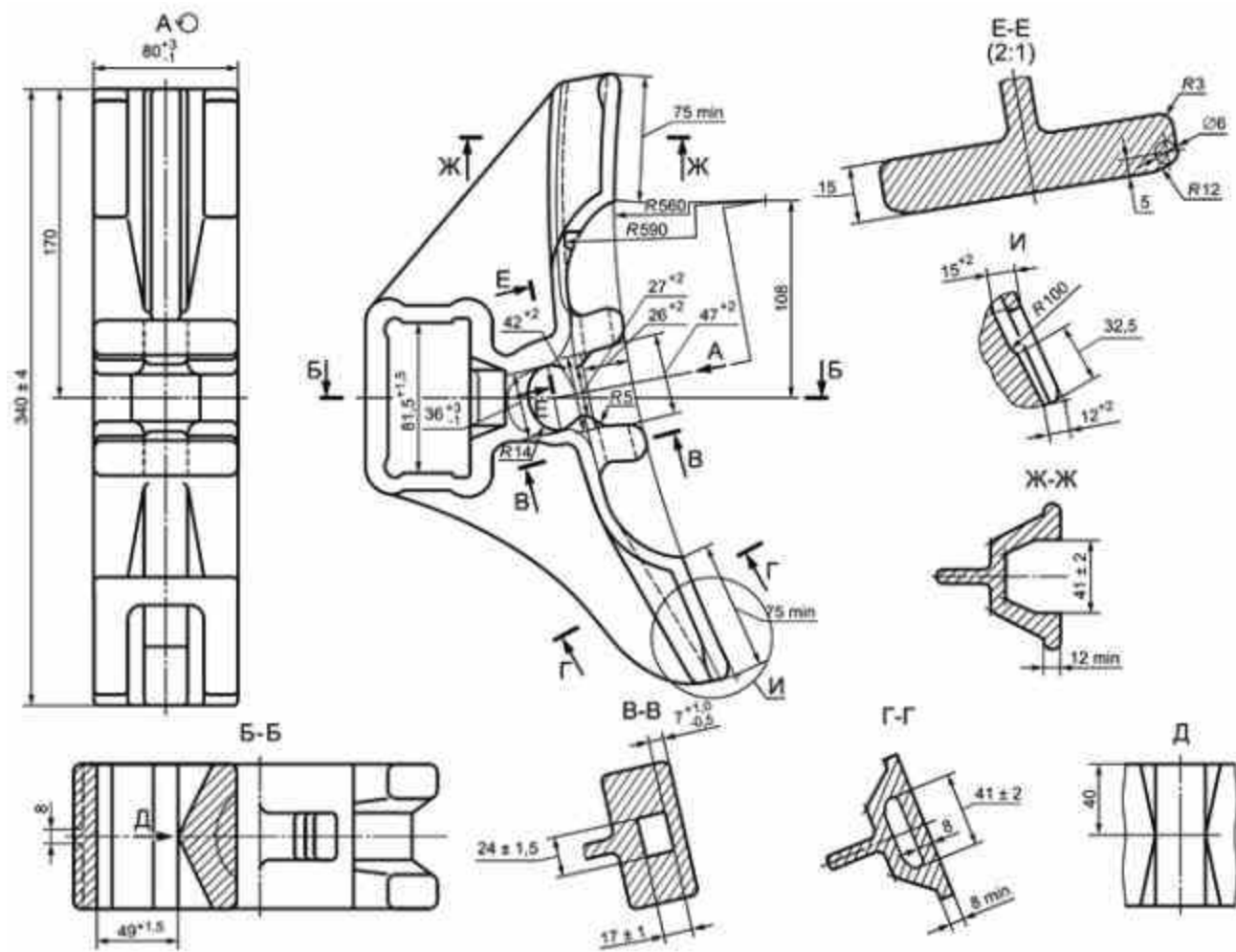
2.8.4.3



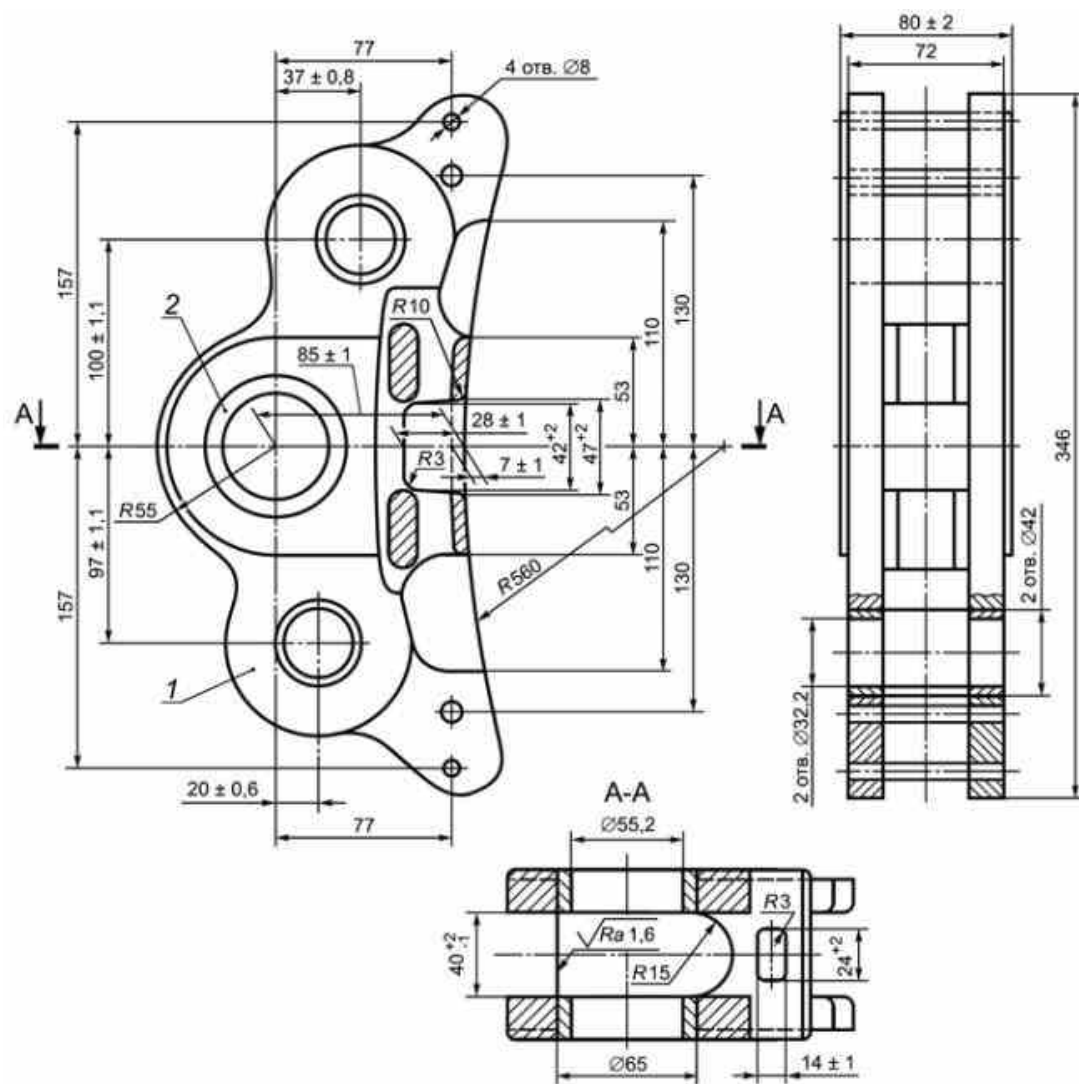
2.8.4.4

2.8.4.2

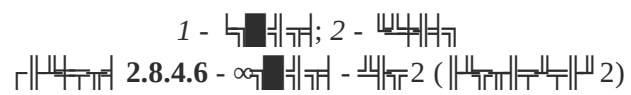
| רמז | תיאור | מיקום | מספר | רמז | תיאור | מיקום | מספר |
|-----|--------------------|-------|----------|-----|--------------------|-------|----------|
| 1 | התקנת מערכת התקנים | 3 | 2.8.4.2 | 1 | התקנת מערכת התקנים | 2 | 2.8.4.11 |
| | | | 2.8.4.3 | | | | |
| | | | 2.8.4.4 | | | | |
| 2 | התקנת מערכת התקנים | 2 | 2.8.4.5 | | | | |
| | | | 2.8.4.6 | | | | |
| 3 | התקנת מערכת התקנים | 2 | 2.8.4.7 | 2 | התקנת מערכת התקנים | 3 | 2.8.4.12 |
| | | | 2.8.4.8 | 3 | | 1 | 2.8.4.13 |
| 4 | התקנת מערכת התקנים | 1 | 2.8.4.9 | 4 | התקנת מערכת התקנים | - | 2.8.4.14 |
| 5 | התקנת מערכת התקנים | 1 | 2.8.4.10 | 1 | התקנת מערכת התקנים | 2 | 2.8.4.11 |

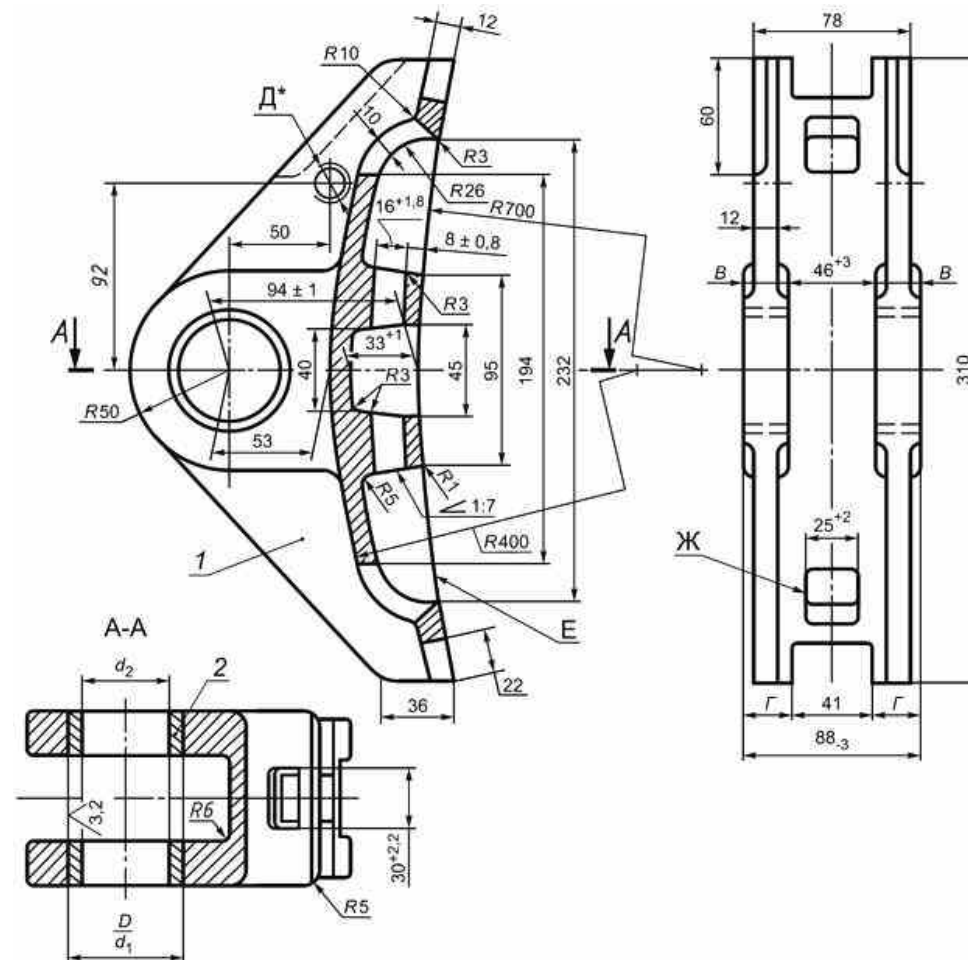


2.8.4.4 - 1 (3)



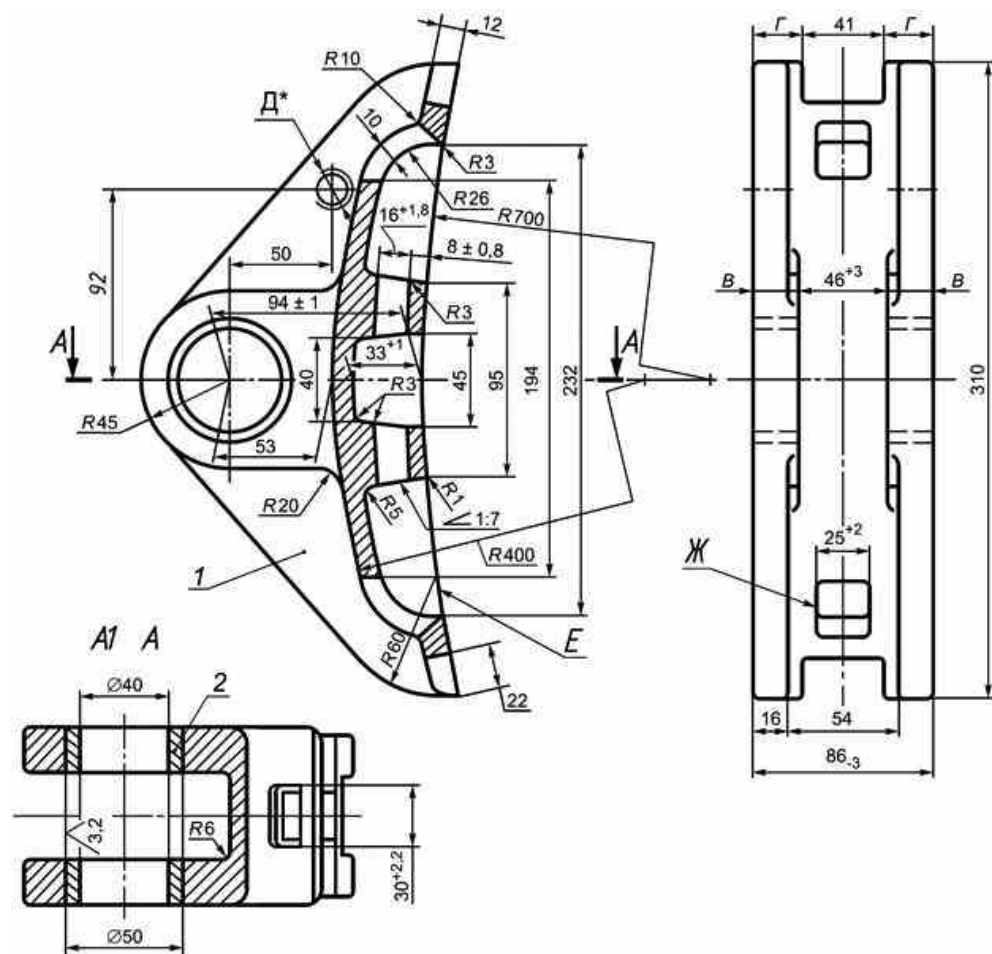
1 - ; 2 -
 2.8.4.5 - - 2 (1)





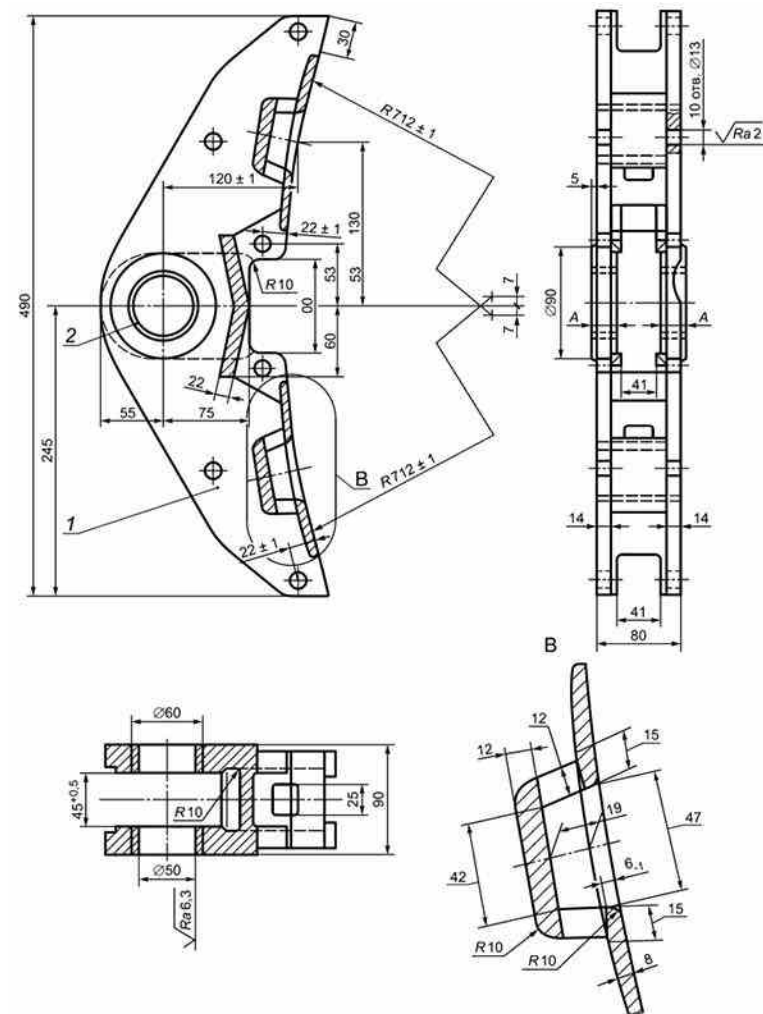
*

1 - ; 2 -
 2.8.4.7 - 3 (1)



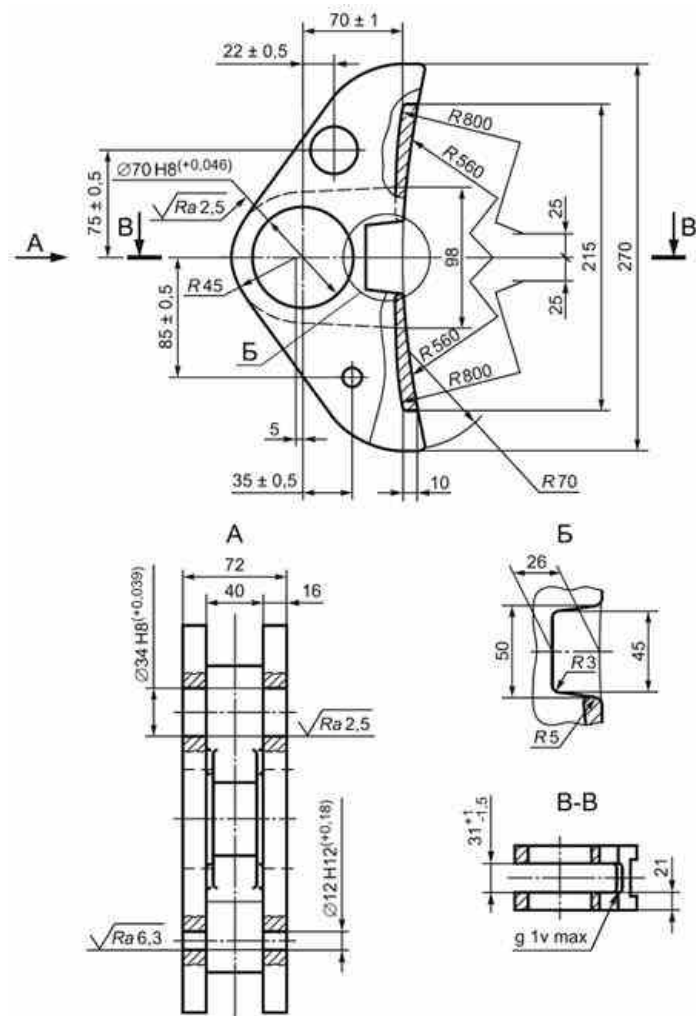
*

1 - ; 2 -
 2.8.4.8 - 3 (group 2)

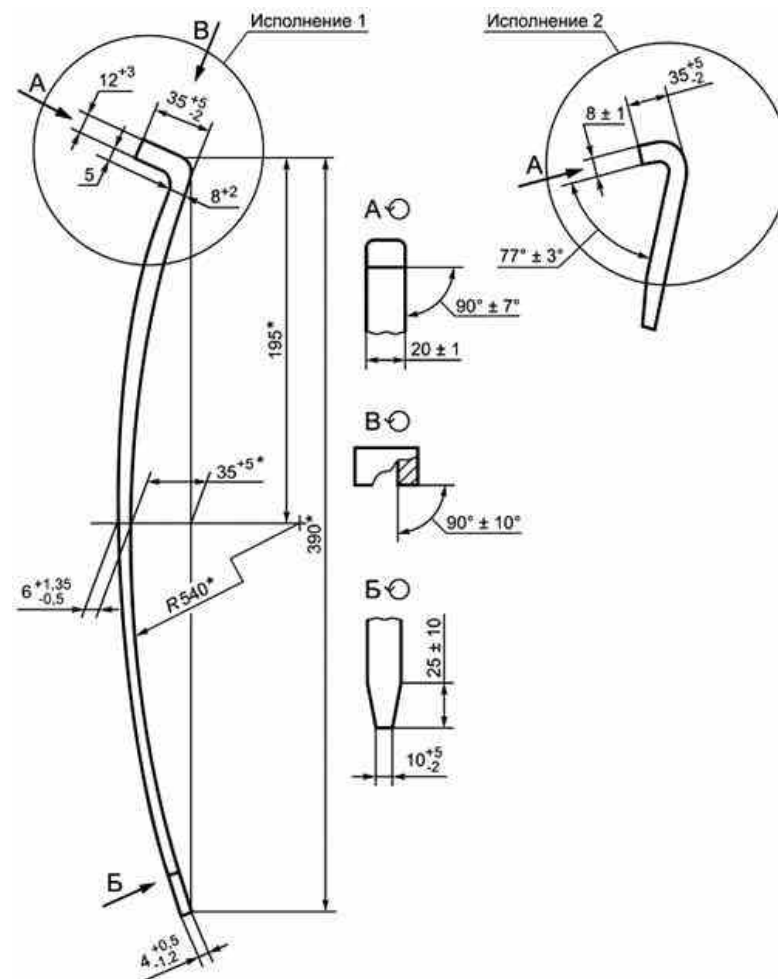


1 - ; 2 -

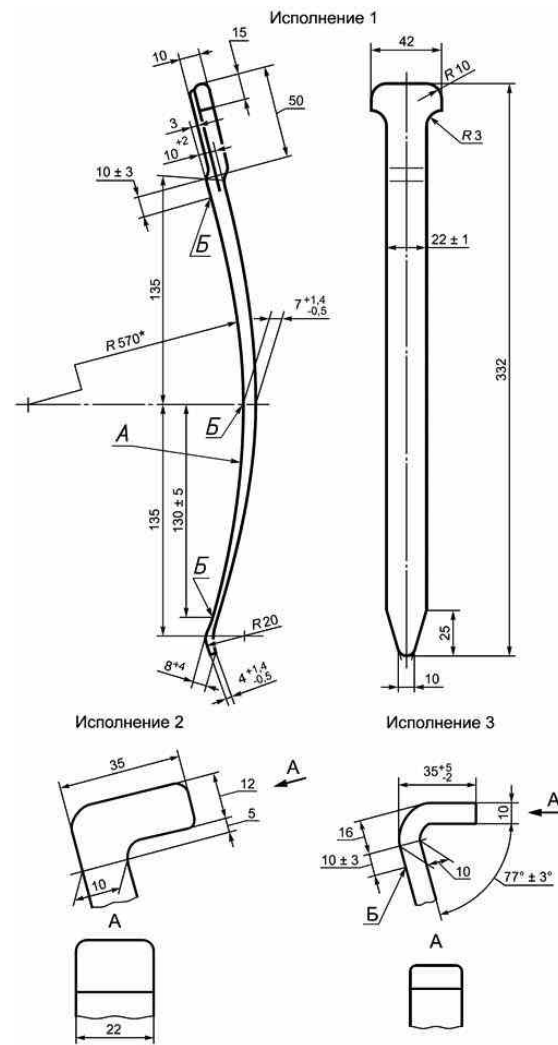
2.8.4.9 - 4



2.8.4.10 - 5

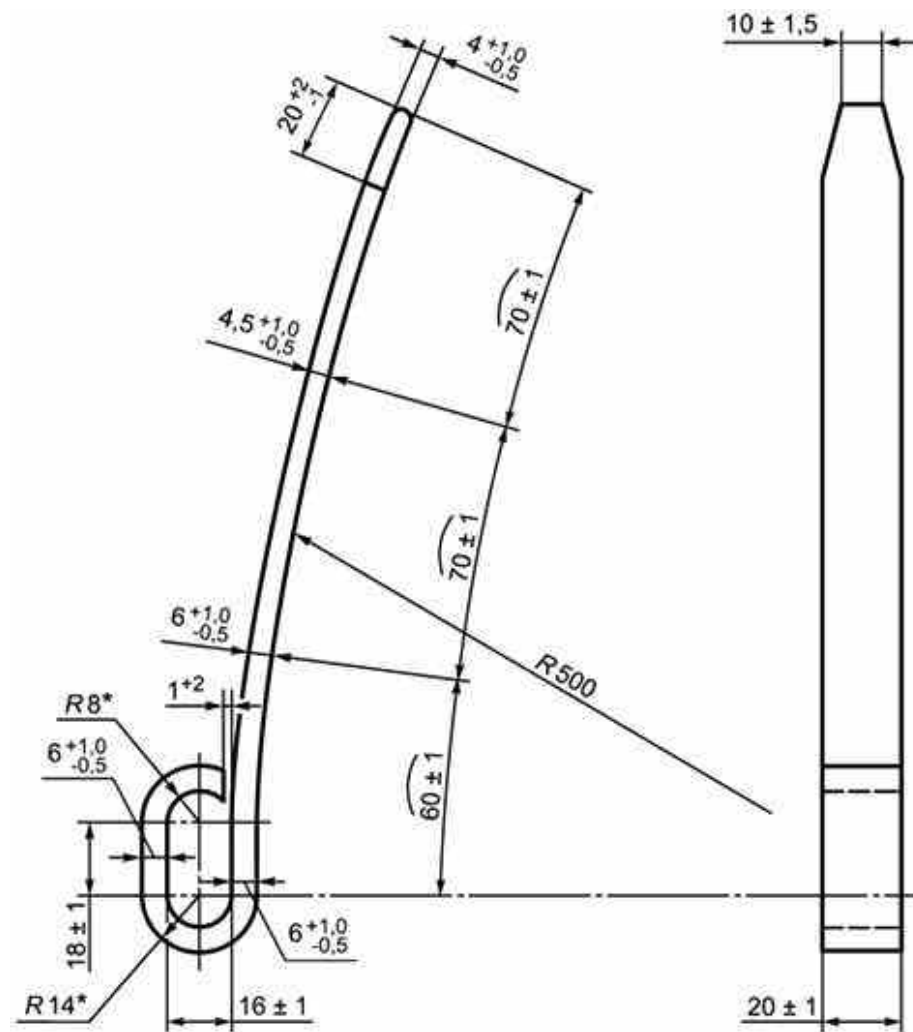


2.8.4.11 - 1



2.8.4.12 - 2





2.8.4.14 - 4

2.9

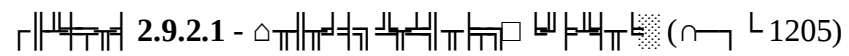
34075-2017, 3.6

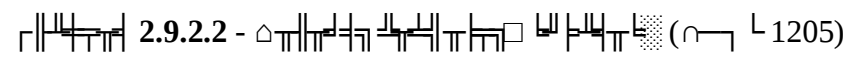
2.9.1

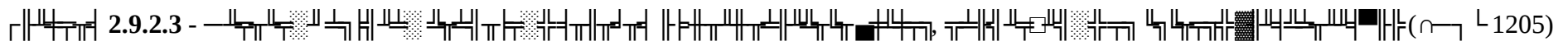
- 30249-97
- 28186-89
- 33421-2015
- 1205-73
- 33724.1-2016

2.9.2

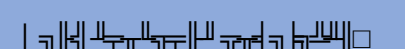
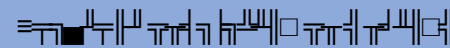
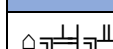
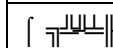
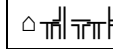
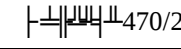
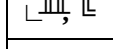
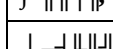
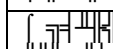
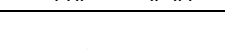
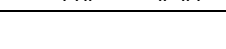
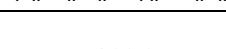
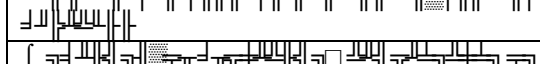
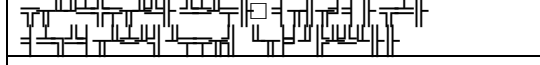
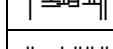
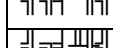
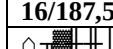
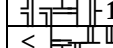
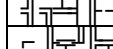
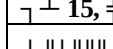
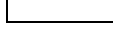
| » « | |
|---------|----|
| | |
| 2.9.2.1 | |
| | |
| | |
| | |
| | 10 |
| | |
| | |

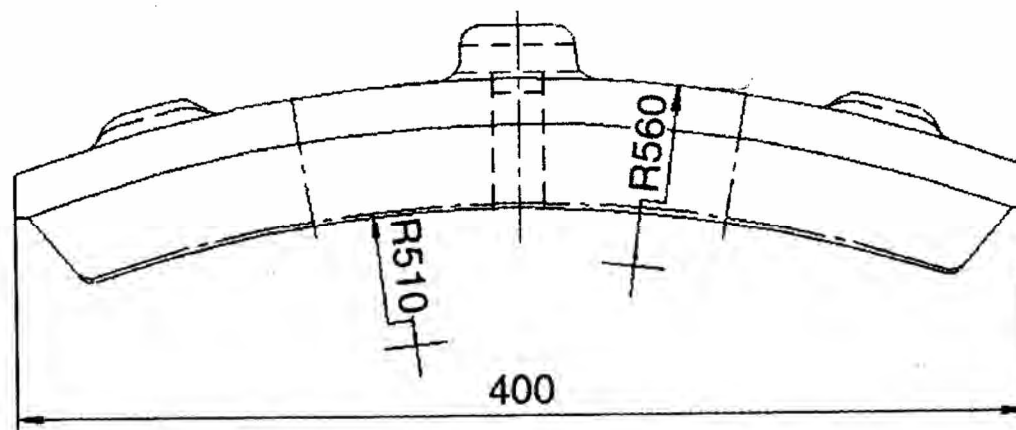




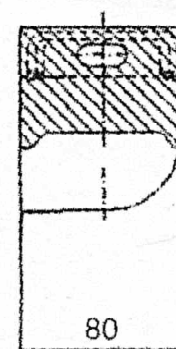
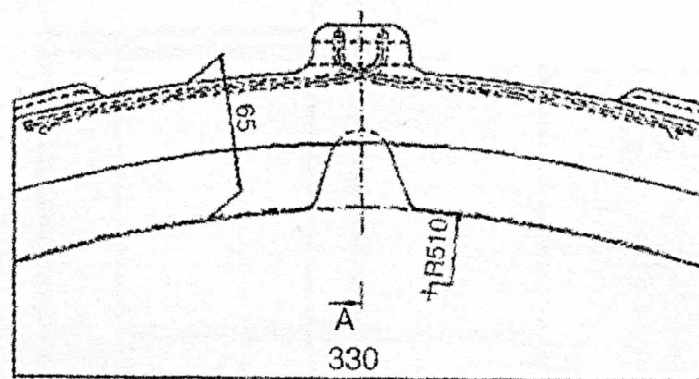


2.9.2.1

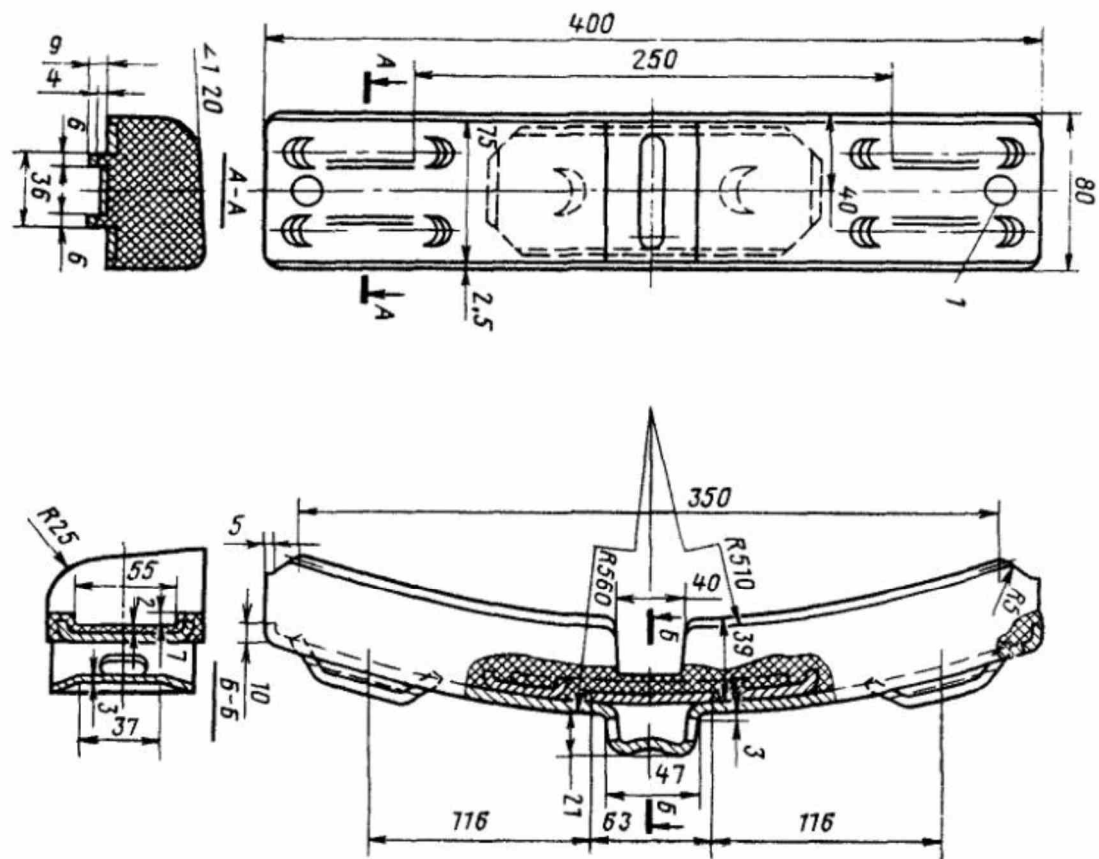
|  |  | | |
|---|---|---|---|
| | 25610-] | 126-12-58 | [659.000 |
|  |  |  |  |
|  | ≤ 300 |  | ≤ 303 |
|  | 8-1-66 |  | 8-1-66 |
|  | 3400 | 4200 | 3600 |
|  | 65 | 55 | 50/60 |
|  | 330 | 400 | 400 |
|  |  |  |  |
|  | 300° | - | 300° |
|  | 400° | - | 500° |
|  | 15 | 15 | 15 |
|  | $140 \leq 200$,
$100 \leq 250$ | - | - |
|  | - | - | $45 \leq 1$ |
|  | 1,4-3,0 | 1,4-3,0 | 1,2-2,3 |
|  | 0,38-0,55 | 0,37-0,54 | - |
|  | 0,13 | 0,13 | - |
|  | 0,37-0,47 | 0,37-0,54 | 0,38-0,50 |
|  | 0,13 | 0,13 | 0,13 |
|  | 2.9.2.1.1 | 2.9.2.1.2 | 2.9.2.1.3 |



2.9.2.1.1 25610-J



2.9.2.1.3 126-12-58



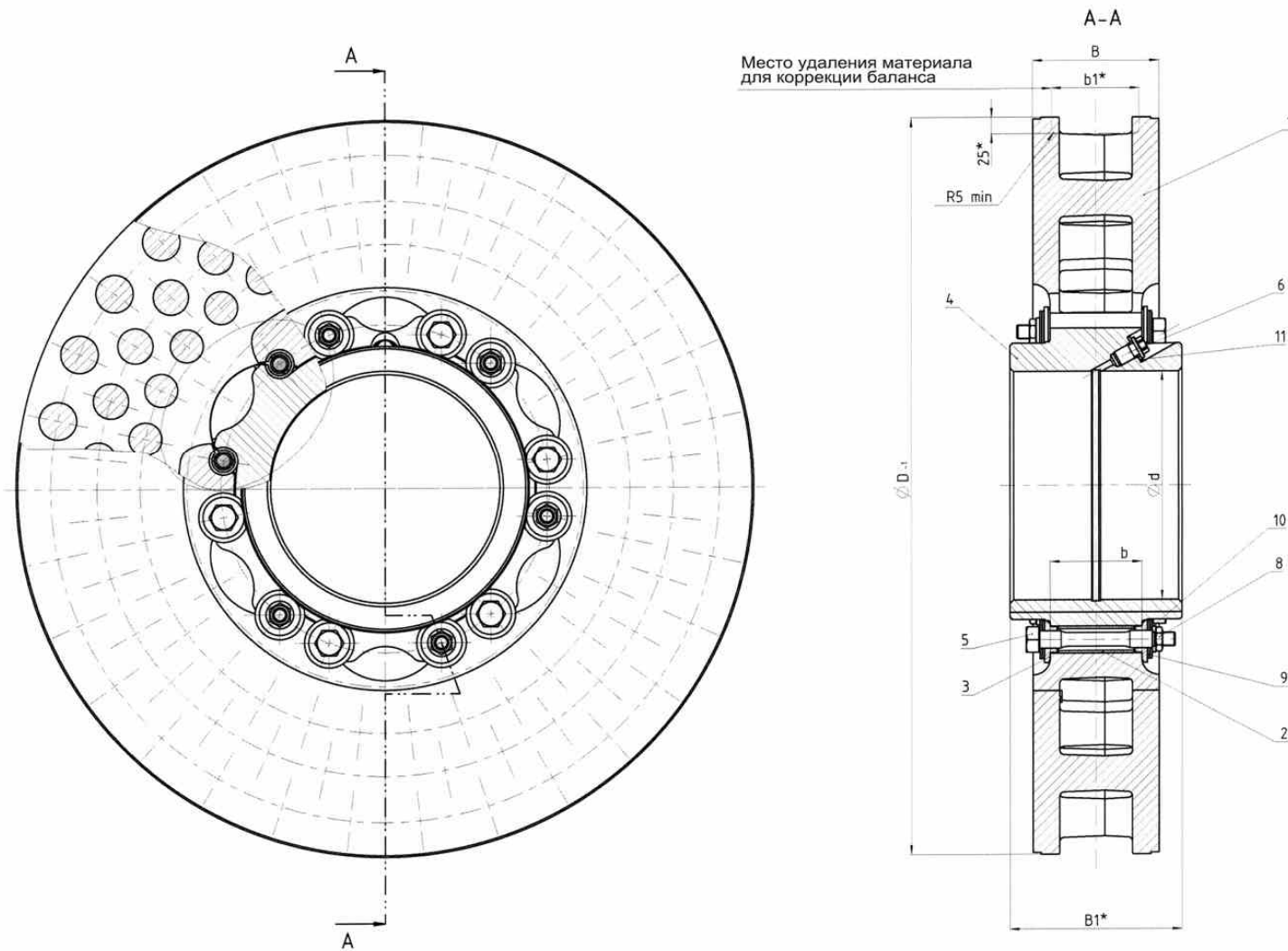
2.9.2.1.2 659

2.9.3

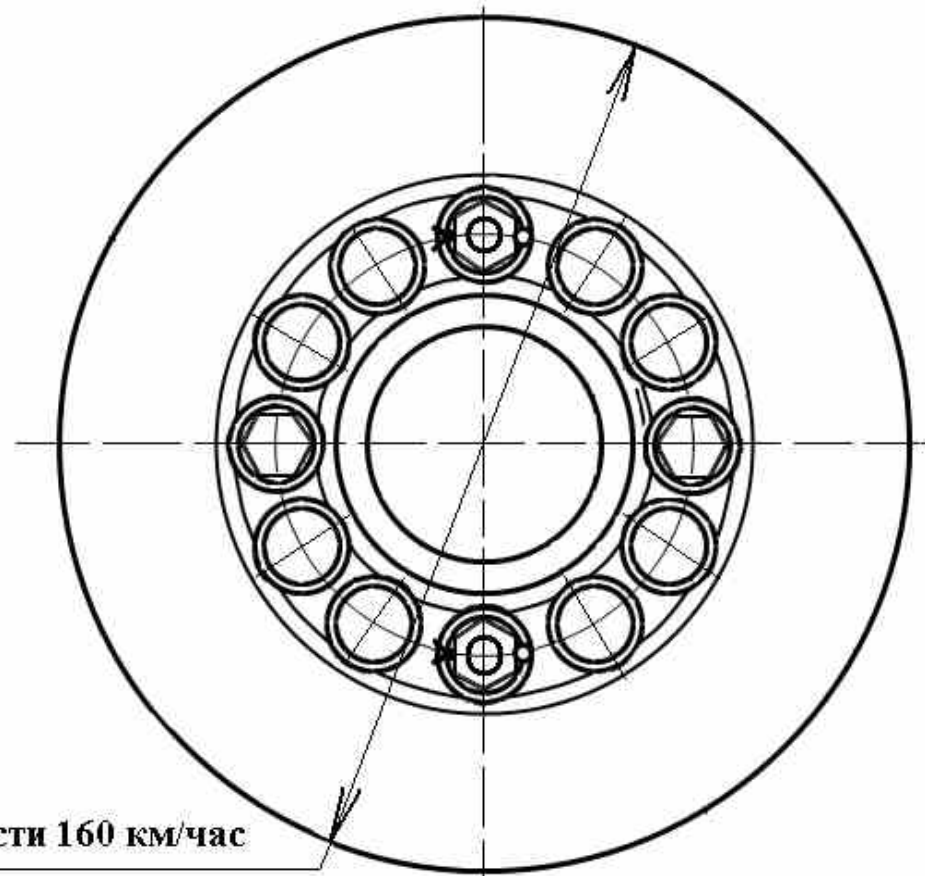
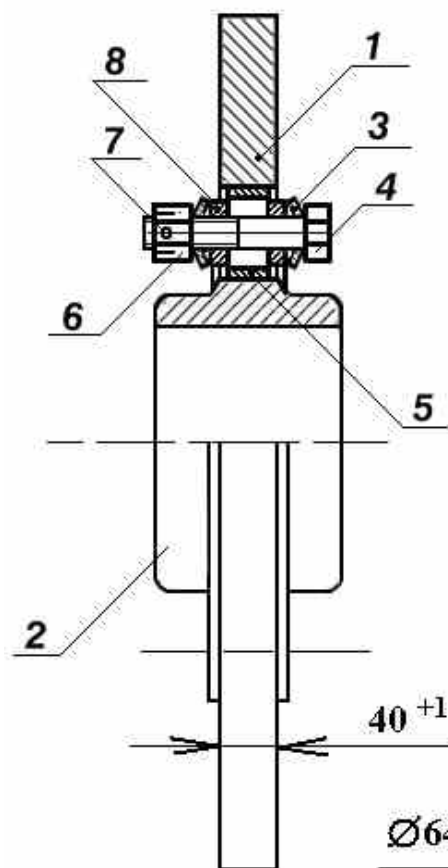
2.9.3.1 -

| | |
|--|---------|
| <p> $\sigma_{\text{ср}} = \frac{1}{n} \sum_{i=1}^n \sigma_i$ </p> | |
| <p> $\sigma_{\text{ср}} = \frac{1}{n} \sum_{i=1}^n \sigma_i$ </p> | |
| <p> $\sigma_{\text{ср}} = \frac{1}{n} \sum_{i=1}^n \sigma_i$ </p> | 20 |
| <p> $\sigma_{\text{ср}} = \frac{1}{n} \sum_{i=1}^n \sigma_i$ </p> | 16 |
| <p> $\sigma_{\text{ср}} = \frac{1}{n} \sum_{i=1}^n \sigma_i$ </p> | |
| <p> $\sigma_{\text{ср}} = \frac{1}{n} \sum_{i=1}^n \sigma_i$ </p> | 0,1 |
| <p> $\sigma_{\text{ср}} = \frac{1}{n} \sum_{i=1}^n \sigma_i$ </p> | 0,2 |
| <p> $\sigma_{\text{ср}} = \frac{1}{n} \sum_{i=1}^n \sigma_i$ </p> | 0,3 |
| <p> $\sigma_{\text{ср}} = \frac{1}{n} \sum_{i=1}^n \sigma_i$ </p> | |
| <p> $\sigma_{\text{ср}} = \frac{1}{n} \sum_{i=1}^n \sigma_i$ </p> | 5 |
| <p> $\sigma_{\text{ср}} = \frac{1}{n} \sum_{i=1}^n \sigma_i$ </p> | |
| <p> $\sigma_{\text{ср}} = \frac{1}{n} \sum_{i=1}^n \sigma_i$ </p> | 200-320 |
| <p> $\sigma_{\text{ср}} = \frac{1}{n} \sum_{i=1}^n \sigma_i$ </p> | |
| <p> $\sigma_{\text{ср}} = \frac{1}{n} \sum_{i=1}^n \sigma_i$ </p> | 850 |
| <p> $\sigma_{\text{ср}} = \frac{1}{n} \sum_{i=1}^n \sigma_i$ </p> | 950 |
| <p> $\sigma_{\text{ср}} = \frac{1}{n} \sum_{i=1}^n \sigma_i$ </p> | |
| <p> $\sigma_{\text{ср}} = \frac{1}{n} \sum_{i=1}^n \sigma_i$ </p> | 700 |
| <p> $\sigma_{\text{ср}} = \frac{1}{n} \sum_{i=1}^n \sigma_i$ </p> | 850 |
| <p> $\sigma_{\text{ср}} = \frac{1}{n} \sum_{i=1}^n \sigma_i$ </p> | 8 |
| <p> $\sigma_{\text{ср}} = \frac{1}{n} \sum_{i=1}^n \sigma_i$ </p> | |
| <p> $\sigma_{\text{ср}} = \frac{1}{n} \sum_{i=1}^n \sigma_i$ </p> | 10 |
| <p> $\sigma_{\text{ср}} = \frac{1}{n} \sum_{i=1}^n \sigma_i$ </p> | 10 |
| <p> $\sigma_{\text{ср}} = \frac{1}{n} \sum_{i=1}^n \sigma_i$ </p> | |

| <p> η) $\frac{1}{K_{IC}} \cdot \left(\frac{1}{2} \right)^{1/2}$, $\frac{1}{K_{IC}} \cdot \left(\frac{1}{2} \right)^{1/2}$ </p> | 50 |
|--|-----|
| <p> $\frac{1}{K_{IC}} \cdot \left(\frac{1}{2} \right)^{1/2}$, $\frac{1}{K_{IC}} \cdot \left(\frac{1}{2} \right)^{1/2}$ </p> | |
| <p> η) $\frac{1}{K_{IC}} \cdot \left(\frac{1}{2} \right)^{1/2}$, $\frac{1}{K_{IC}} \cdot \left(\frac{1}{2} \right)^{1/2}$ </p> | 3,0 |
| <p> η) $\frac{1}{K_{IC}} \cdot \left(\frac{1}{2} \right)^{1/2}$, $\frac{1}{K_{IC}} \cdot \left(\frac{1}{2} \right)^{1/2}$ </p> | 1,6 |



2.9.3.1 ñ ø 740

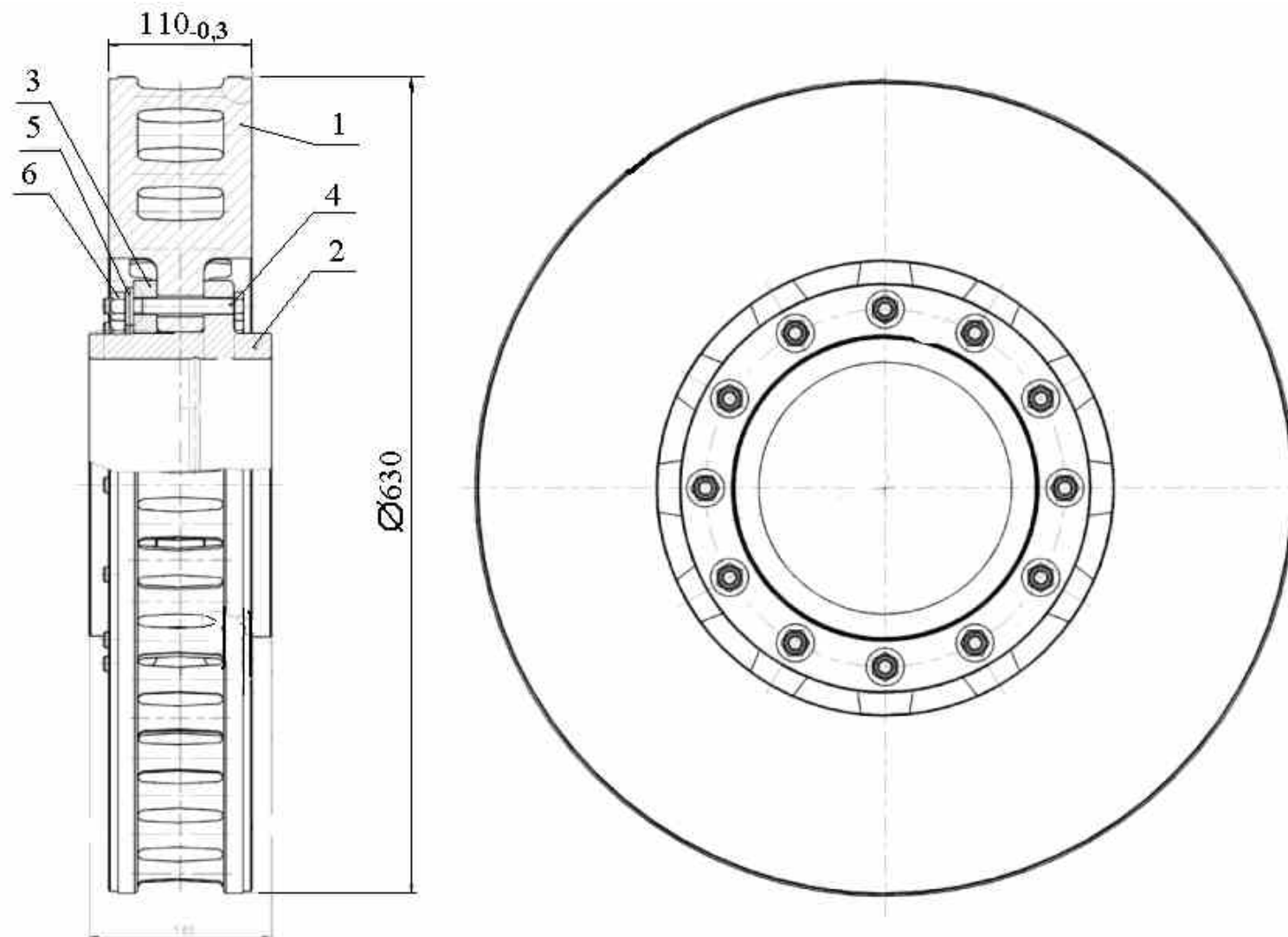


$\varnothing 640-1,75$ - для скорости 160 км/час

$\varnothing 620-1,75$ - для скорости 200 км/час

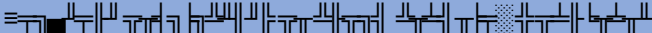
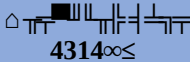
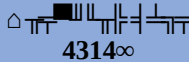
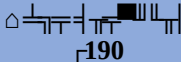
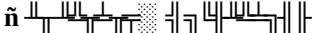
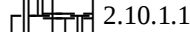
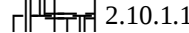
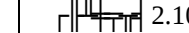
1 ñ , 2 ñ , 3 ñ , 4 ñ ,
5 ñ , 6 ñ , 7 ñ , 8 ñ 

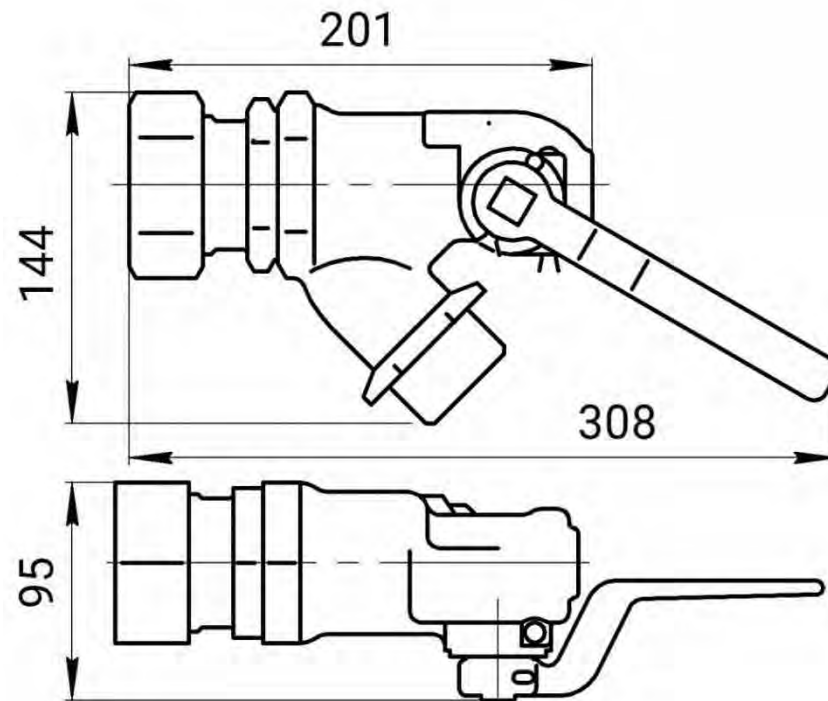
 2.9.3.2 ñ  -√- « L L »



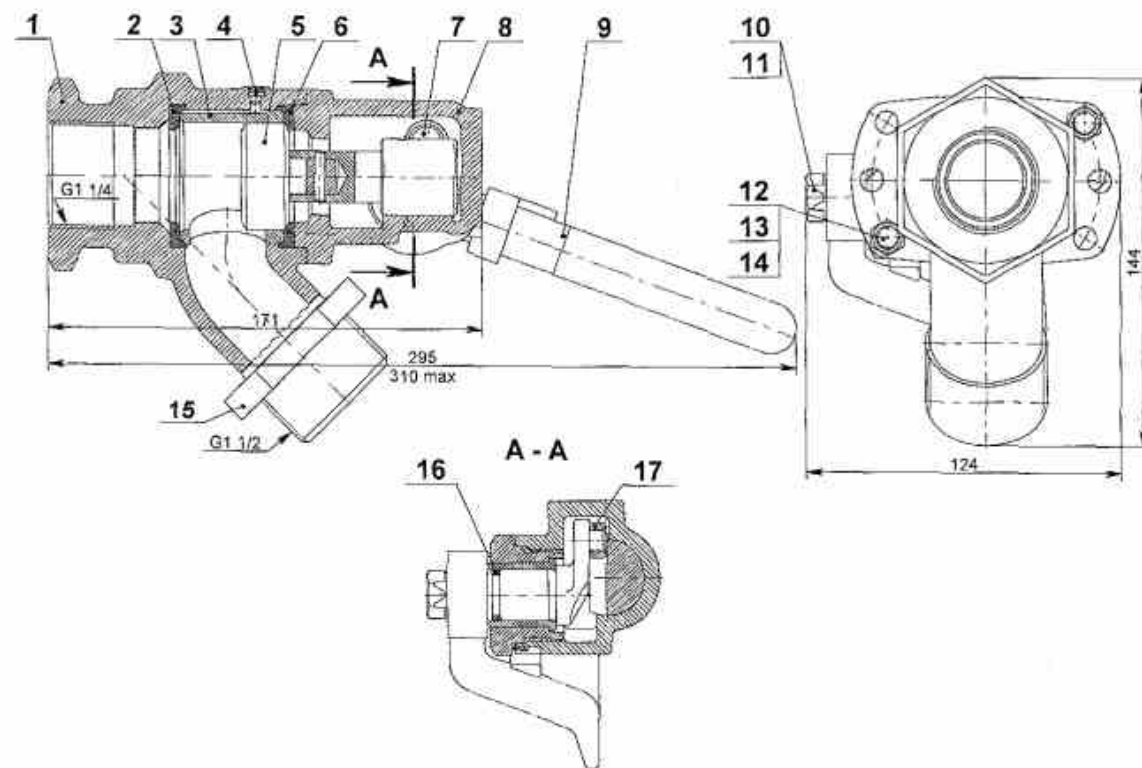
1 ñ , 2 ñ , 3 ñ , 4 ñ 
 5 ñ  6 ñ 
 2.9.3.3 ñ  «Knorr-Bremse»

[illegible]

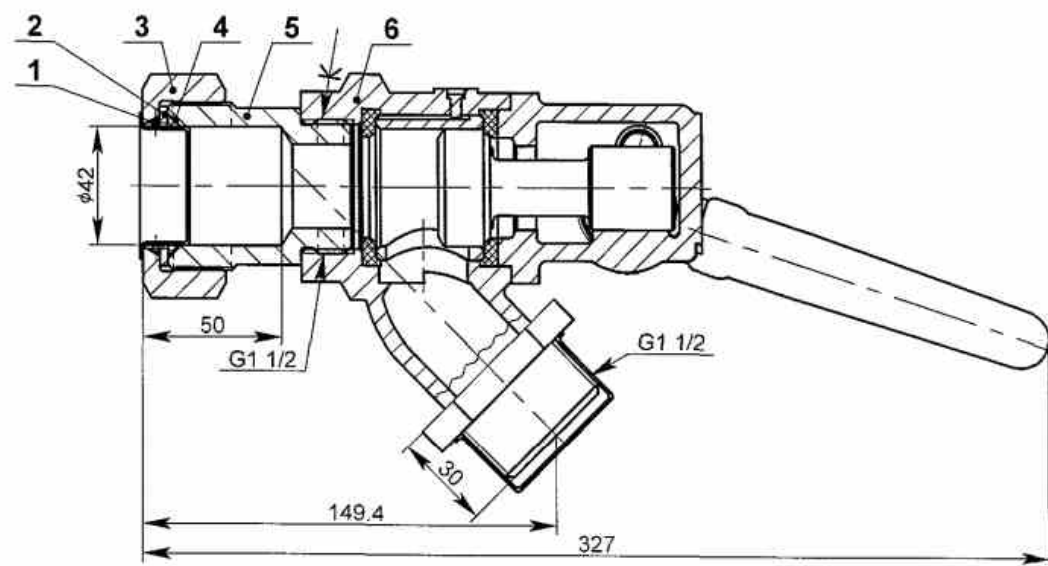
|  |  | | | | | |
|--|---|---|---|---|---|--|
| | 
4314 $\infty \leq$ | 
4314 ∞ | 
271 | 
271 ∞ | 
271 | 
190 |
| 
ñ | 
Ø 42 | 
Ø 42 | G1¼-B/G1½-B | G1¼-B/G1½-B | G1¼-B/G1½-B | G1¼-B/G1½-B |
| 
ñ | G1½ | G1½ | G1½ | G1½ | G1½ | G1½ |
| 
10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 
- | 
- | 
- | 
- | 
- | 
- | 
- |
| 
() | 
2.10.1.1 | 
2.10.1.1 | 
2.10.1.2 | 
2.10.1.3 | 
2.10.1.2 | - |



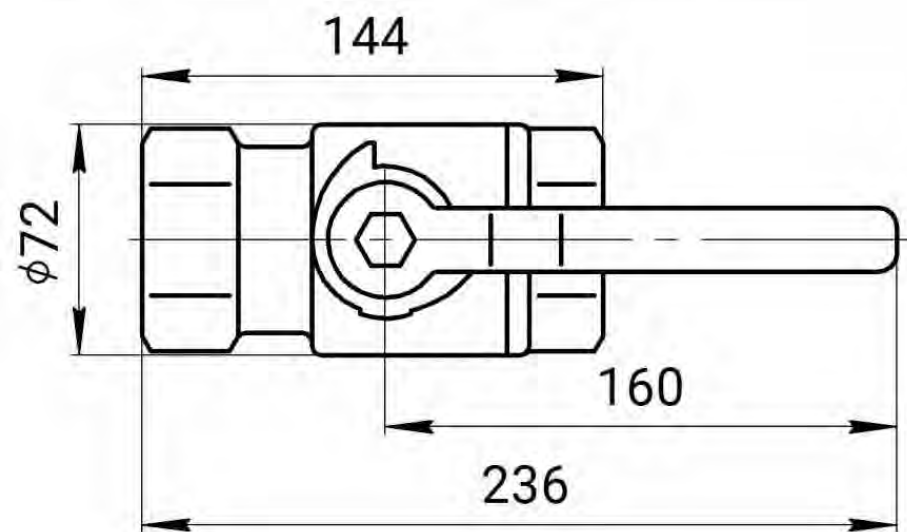
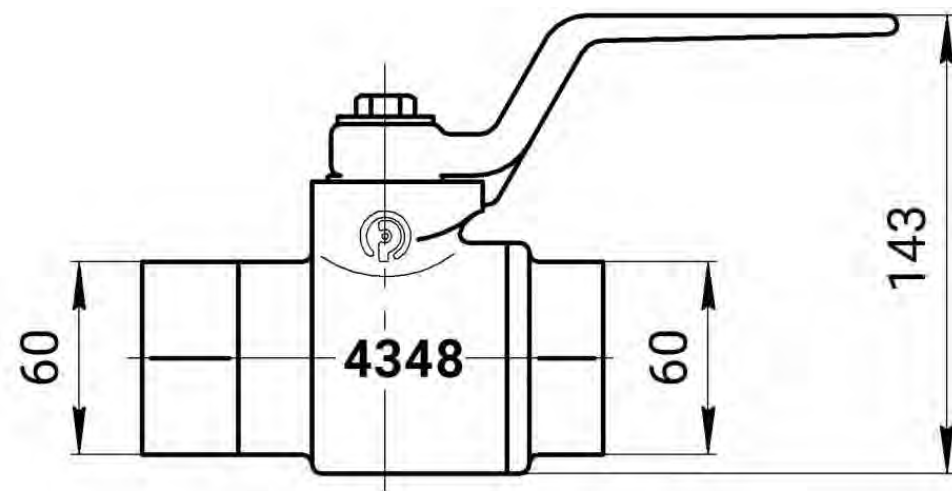
2.10.1.1 - 4314 ∞ , $\infty \leq$



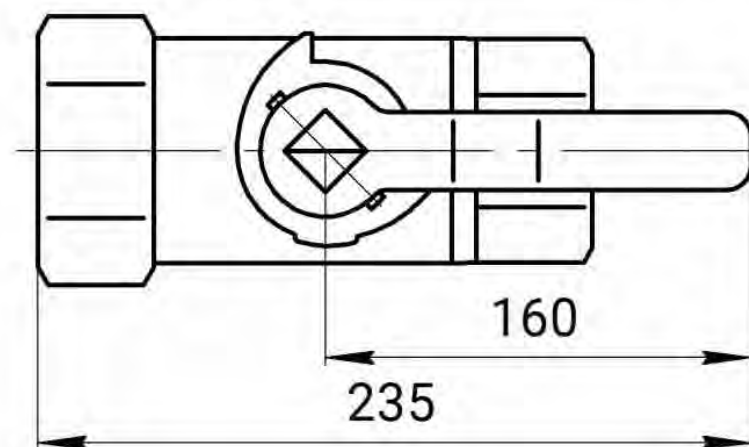
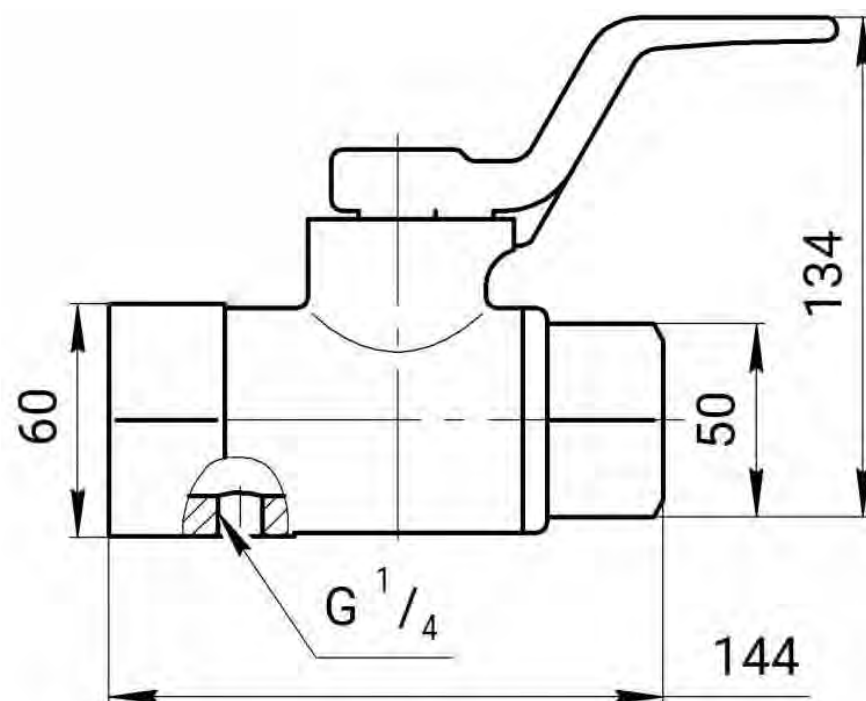
2.10.1.2 - 271



2.10.1.3 - 271



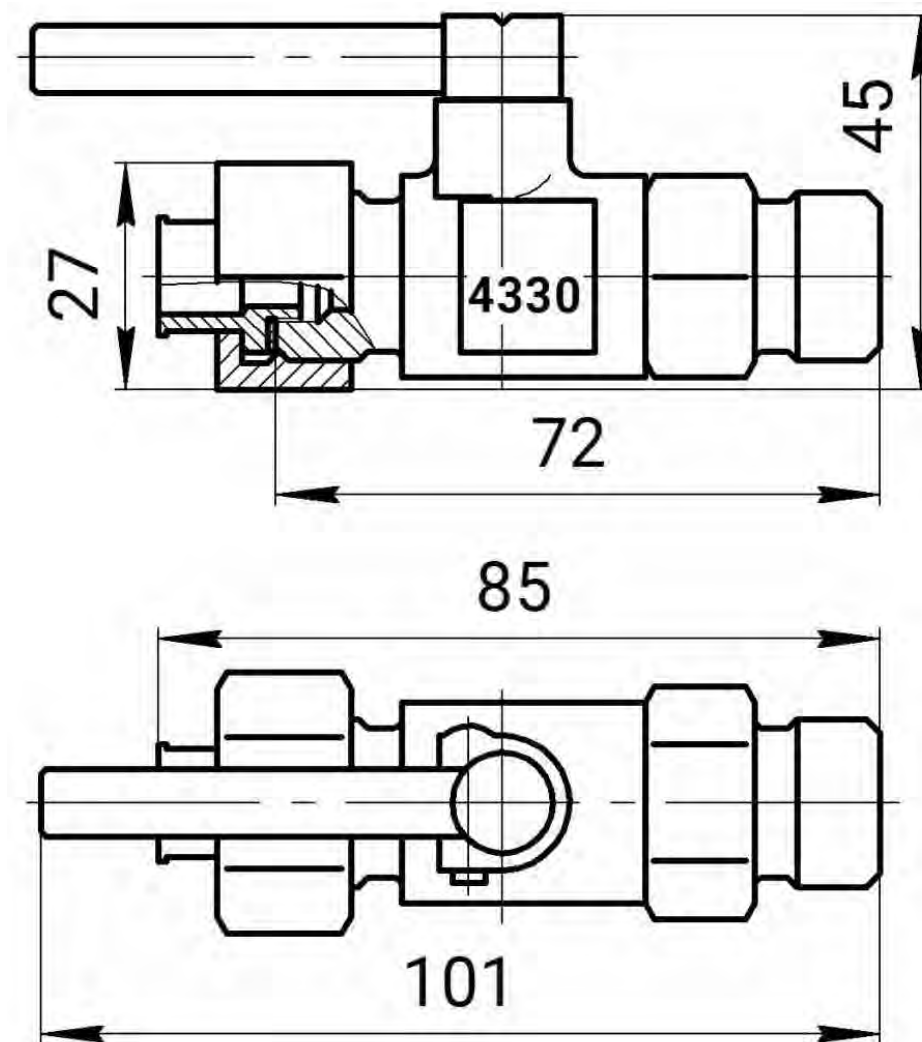
2.10.1.4 - 4348



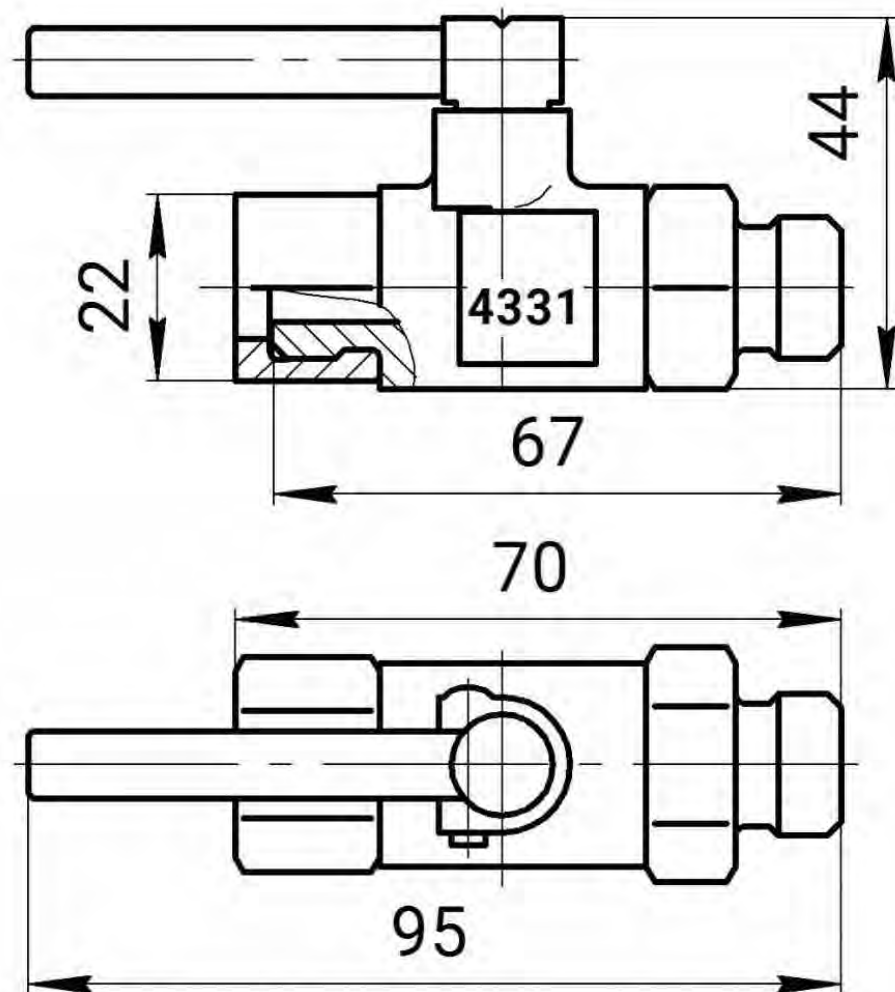
2.10.1.5 - 4308, 4308v

2.10.4

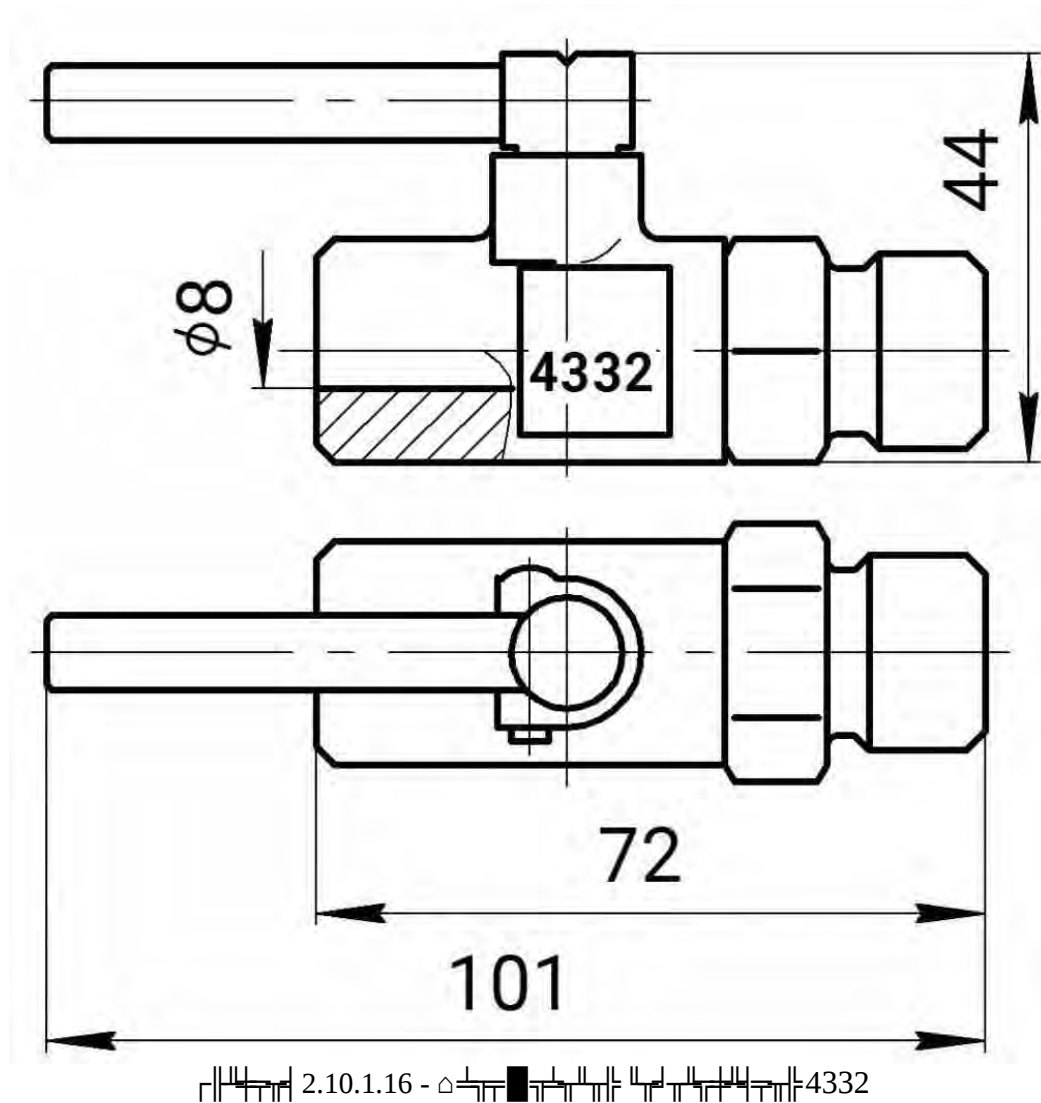
| | 4334 | 4335 | 4336 | 4337 | 4337√ |
|--|--------------|--------------|--------------|--------------|--------------|
| | √ – « » L L/ | √ – « » L L/ | √ – « » L L/ | √ – « » L L/ | √ – « » L L/ |
| | 0,61 | 0,61 | 0,46 | 0,43 | 0,43 |
| | ±60 | ±60 | ±60 | ±60 | ±60 |
| | 8 | 8 | 12 | 10 | 10 |
| | 1,0 | 1,0 | 1,0 | 1,0 | 1,0 |
| | | | | | |
| | 20 1,5 | G3/8 | G1/2 | G1/4 | G1/4 |
| | 3 | 3 | 3 | 3 | 3 |
| | | | | | |
| | 2.10.1.9 | 2.10.1.10 | 2.10.1.11 | 2.10.1.12 | 2.10.1.13 |



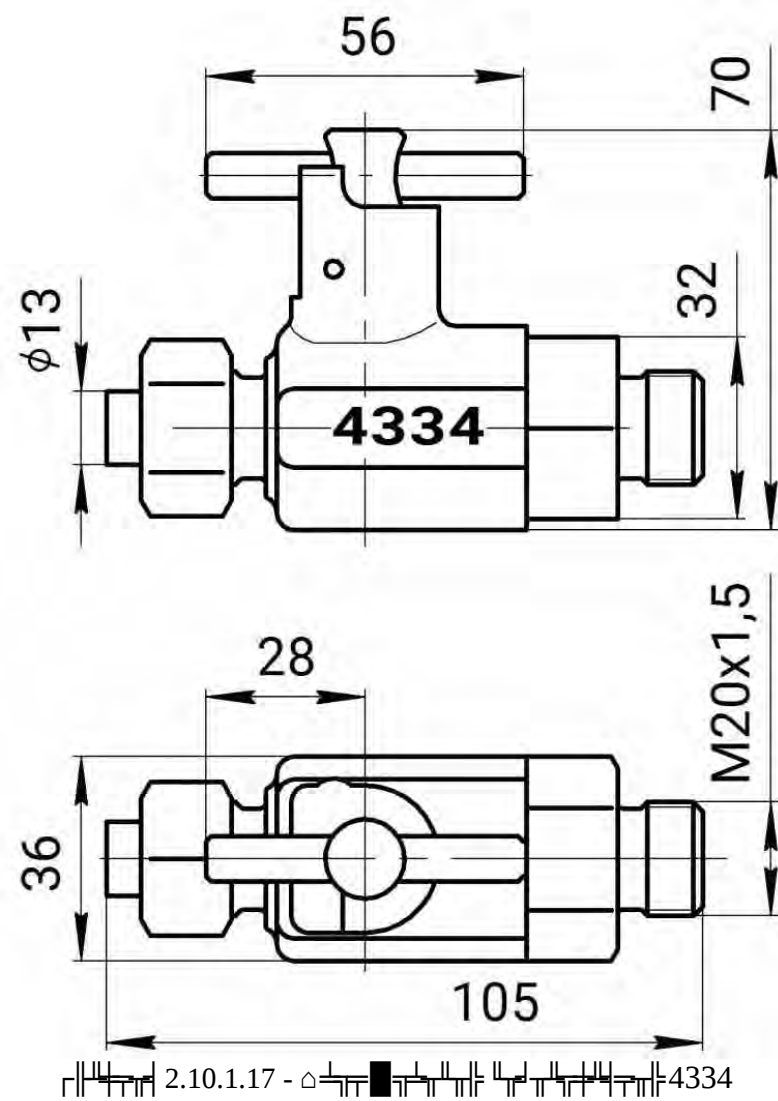
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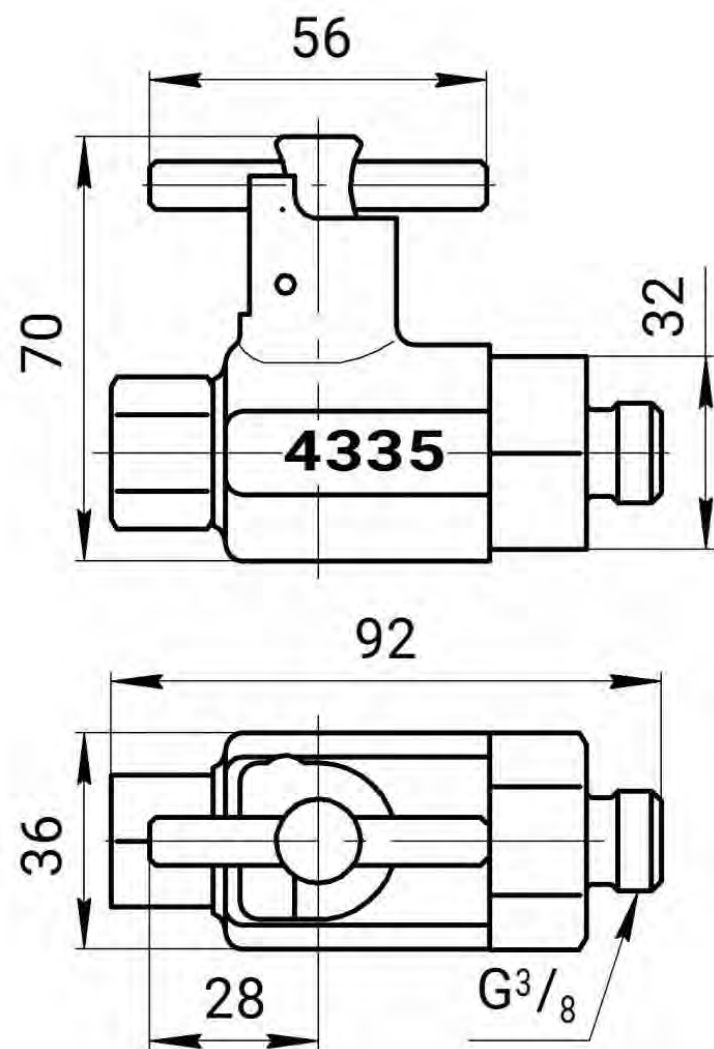


2.10.1.15 - 4331

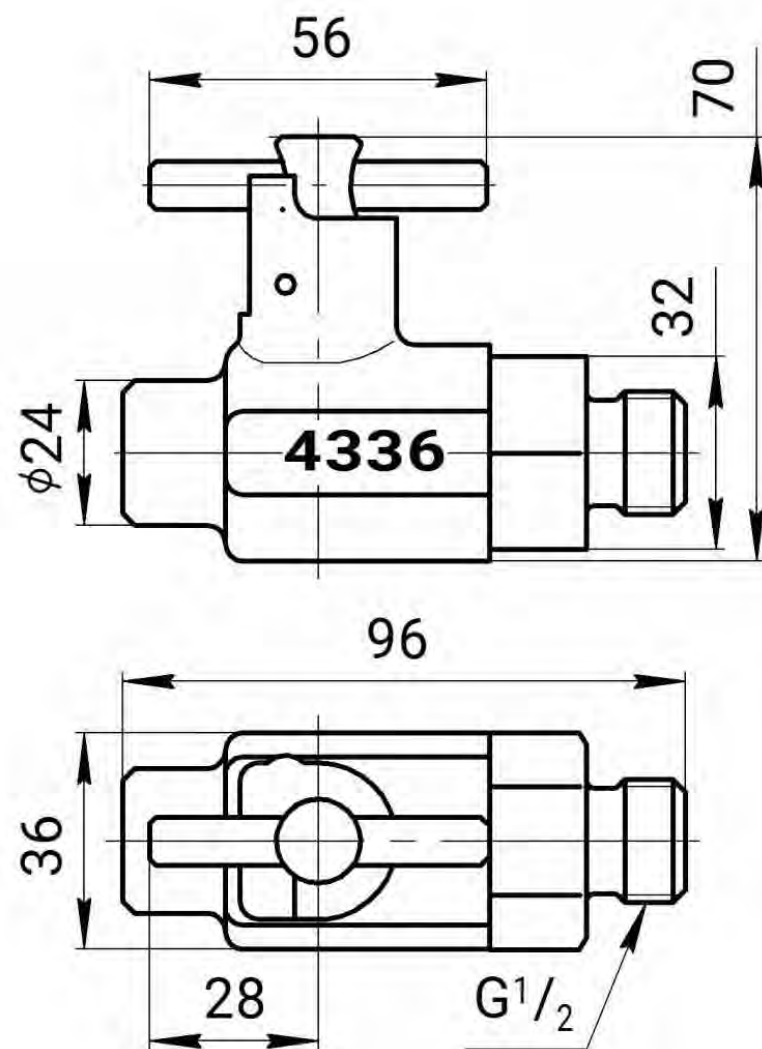


2.10.1.16 - 4332

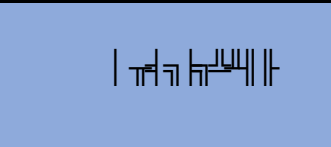
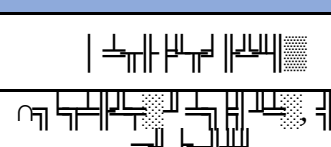
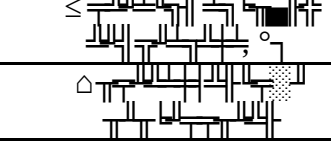
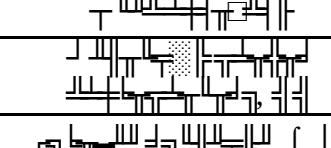
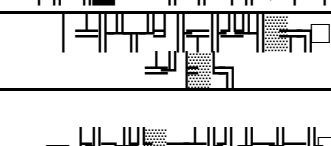
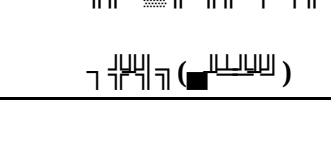


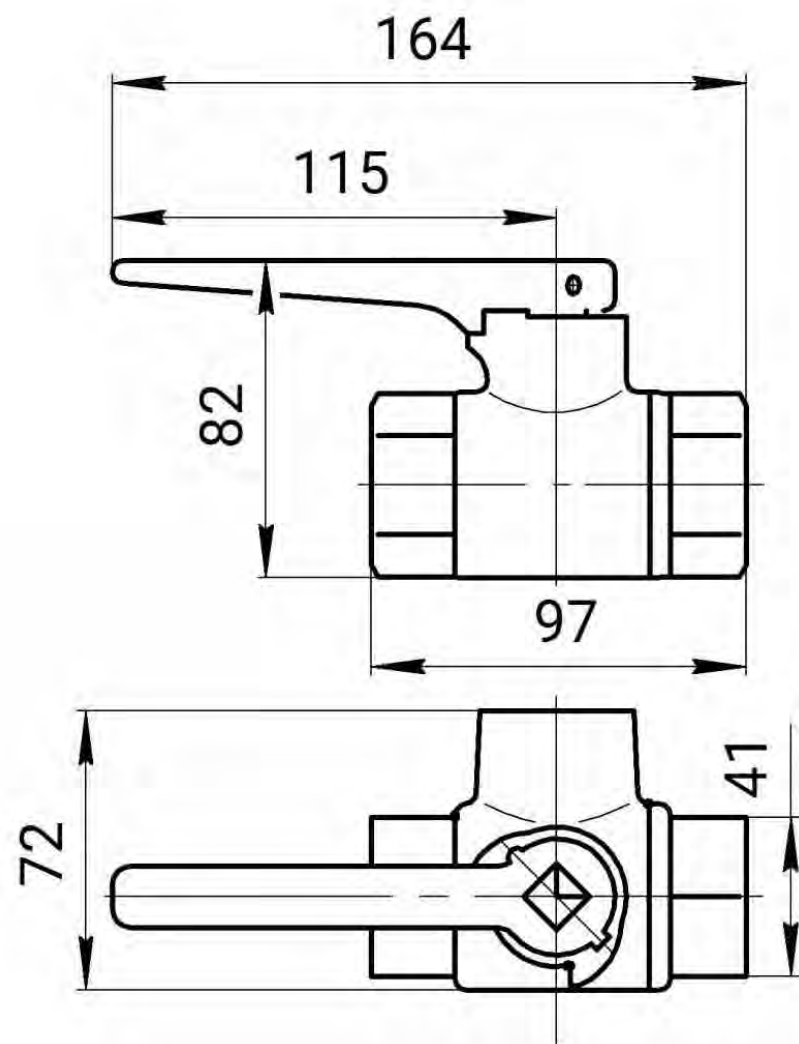


2.10.1.18 - 4335

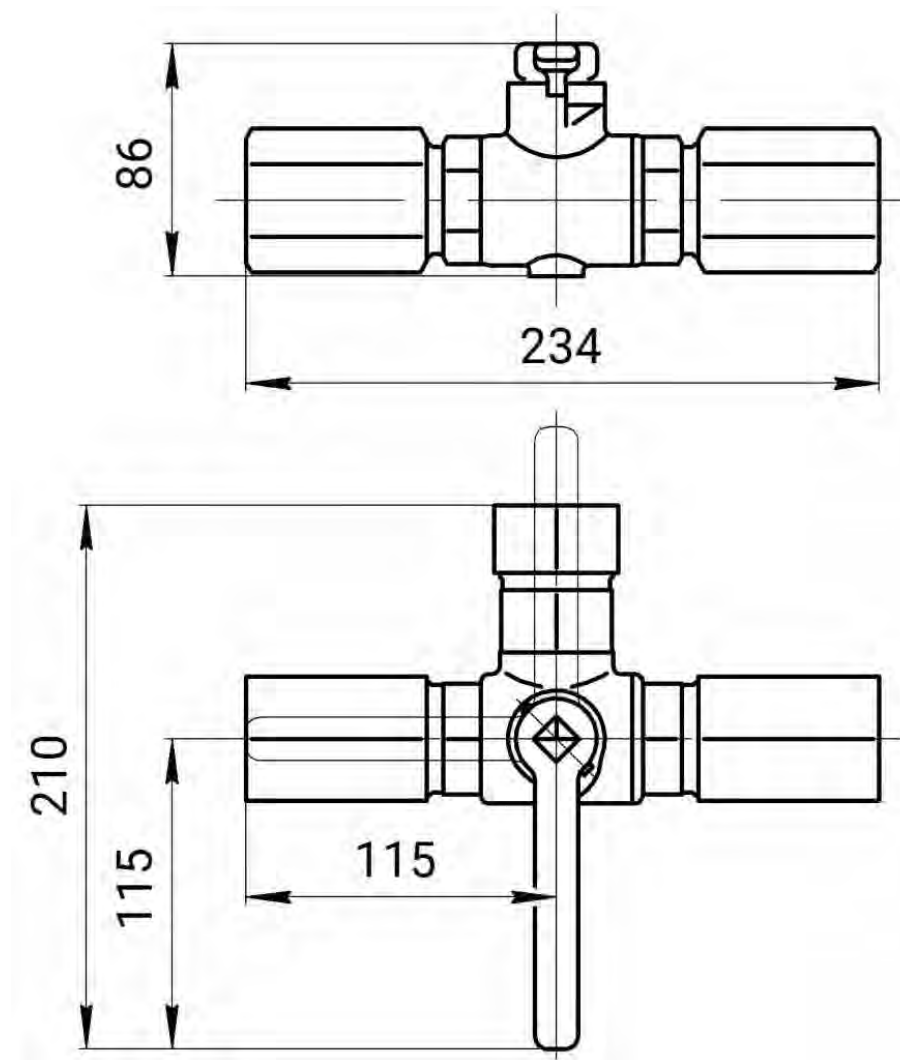


2.10.1.19 - 4336

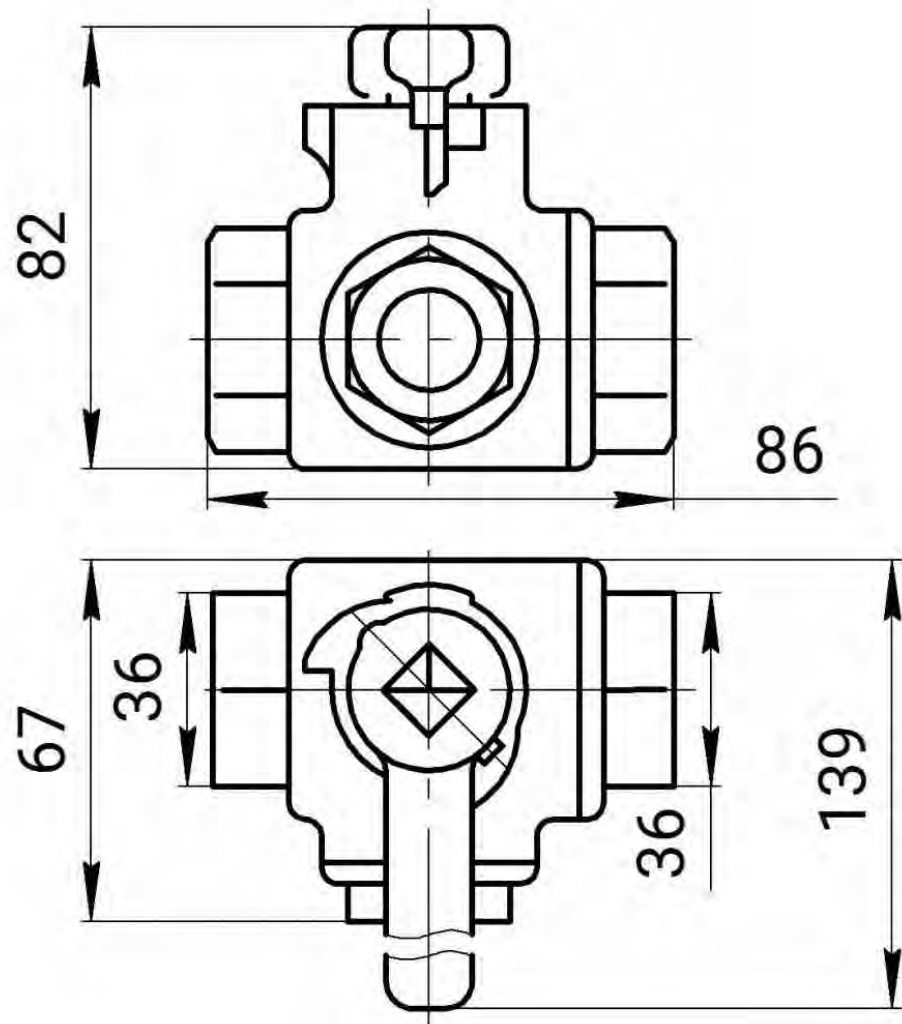
|  |  | | | | |
|---|---|---|---|---|---|
| |  4325 |  4327 |  4327 |  043 |  043-01 |
|  |  | | | | |
| | 164±72 ±82 | 164±72 ±82 | 164±72 ±82 | 141±101±154 | 141±101±154 |
| | 1,6 | 1,3 | 1,3 | 1,53 | 1,53 |
| | - | - | - | 5,0±0,25 | 5,0±0,25 |
| | ±60 | ±60 | ±60 | ±60 ± 50 | ±60 ± 50 |
| | - | - | - | | |
| | - | - | - | | |
| | 20 | 15 | 15 | 10 | 10 |
| | 1,0 | 1,0 | 1,0 | 0,98 | 0,98 |
| | G3/4 | G1/2 | G1/2 | - | - |
| | 2.10.1.19 | 2.10.1.20 | 2.10.1.20 | 2.10.1.21 | 2.10.1.21 |



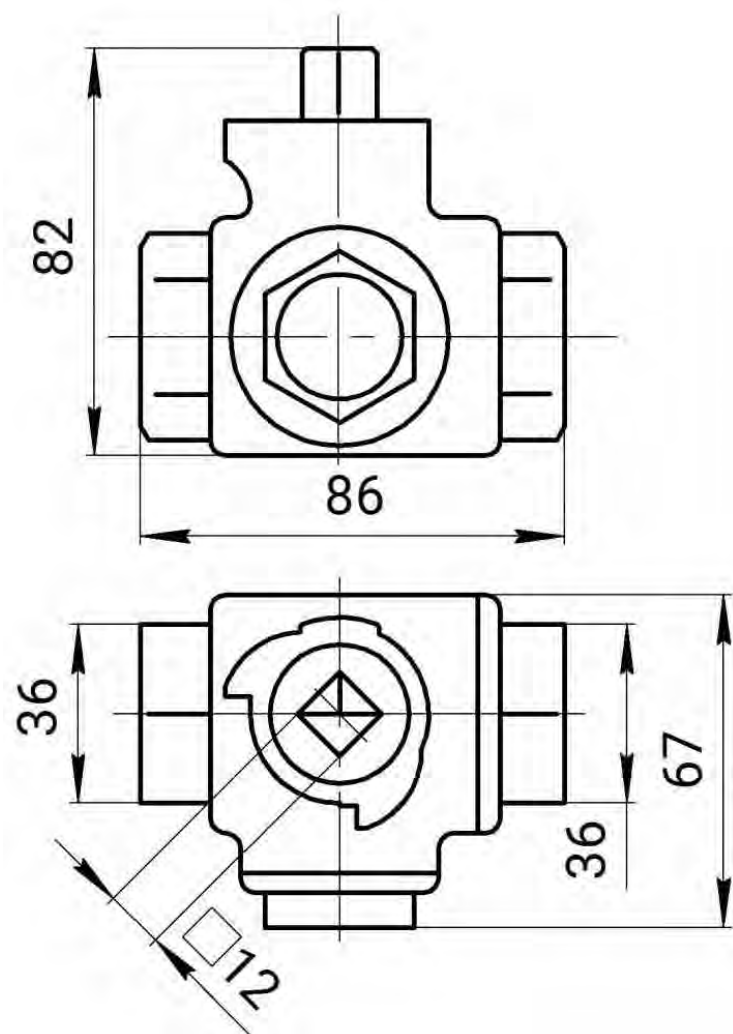
2.10.1. - 4325



2.10.1. - 4325 ∞ , $\infty \leq$



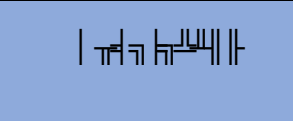
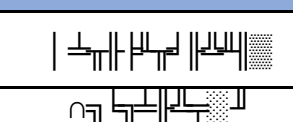
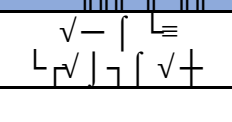
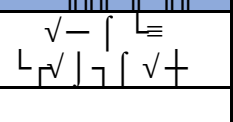
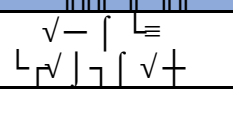
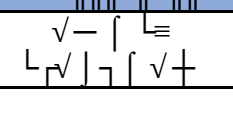
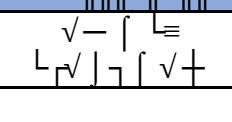
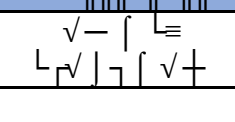
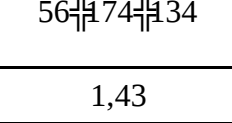
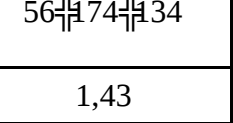
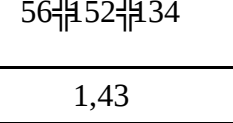
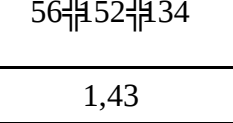
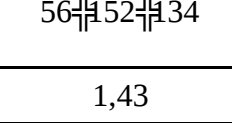
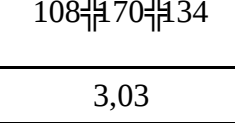
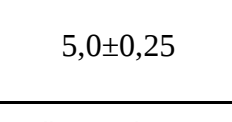
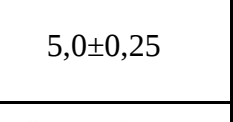
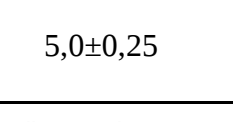
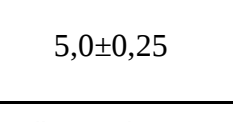
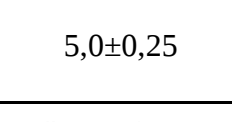
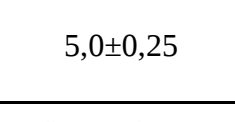
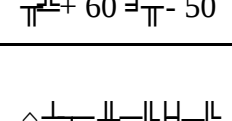
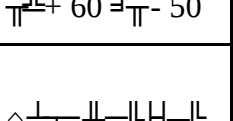
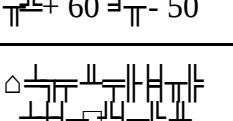
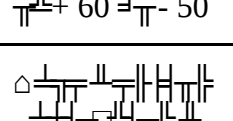
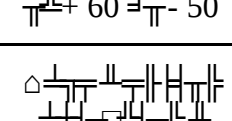
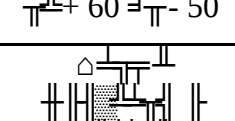
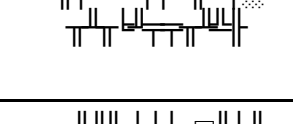
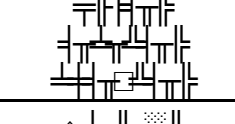
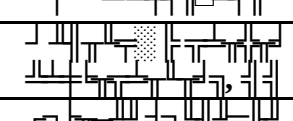
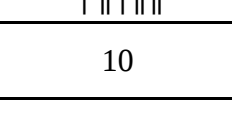
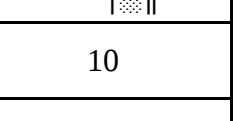
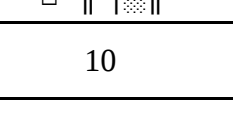
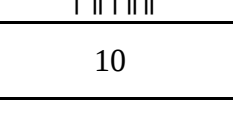
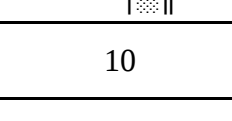
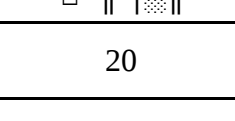
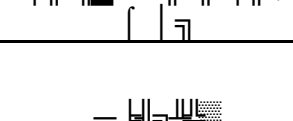
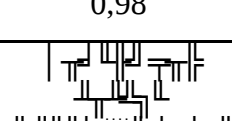
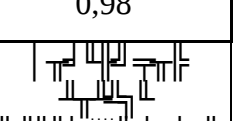
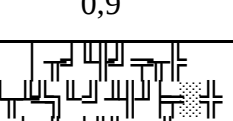
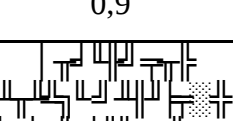
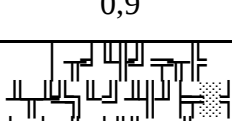
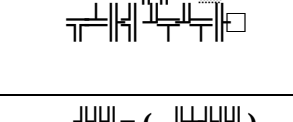
2.10.1. - 4327



2.10.1. - 4327

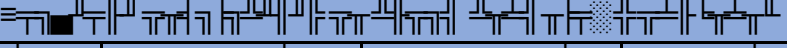
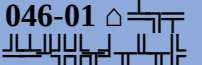
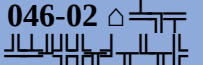
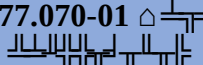
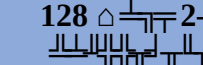
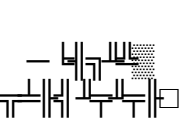
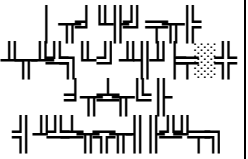
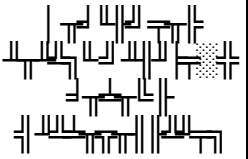
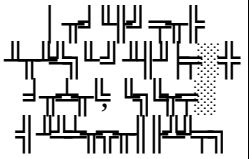
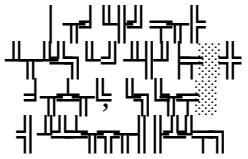
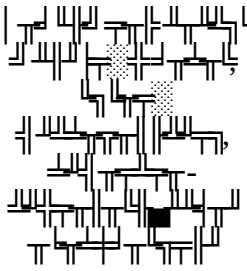
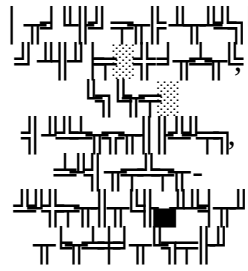
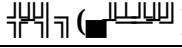
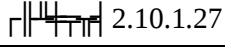
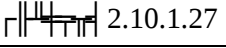
2.10.6 ()

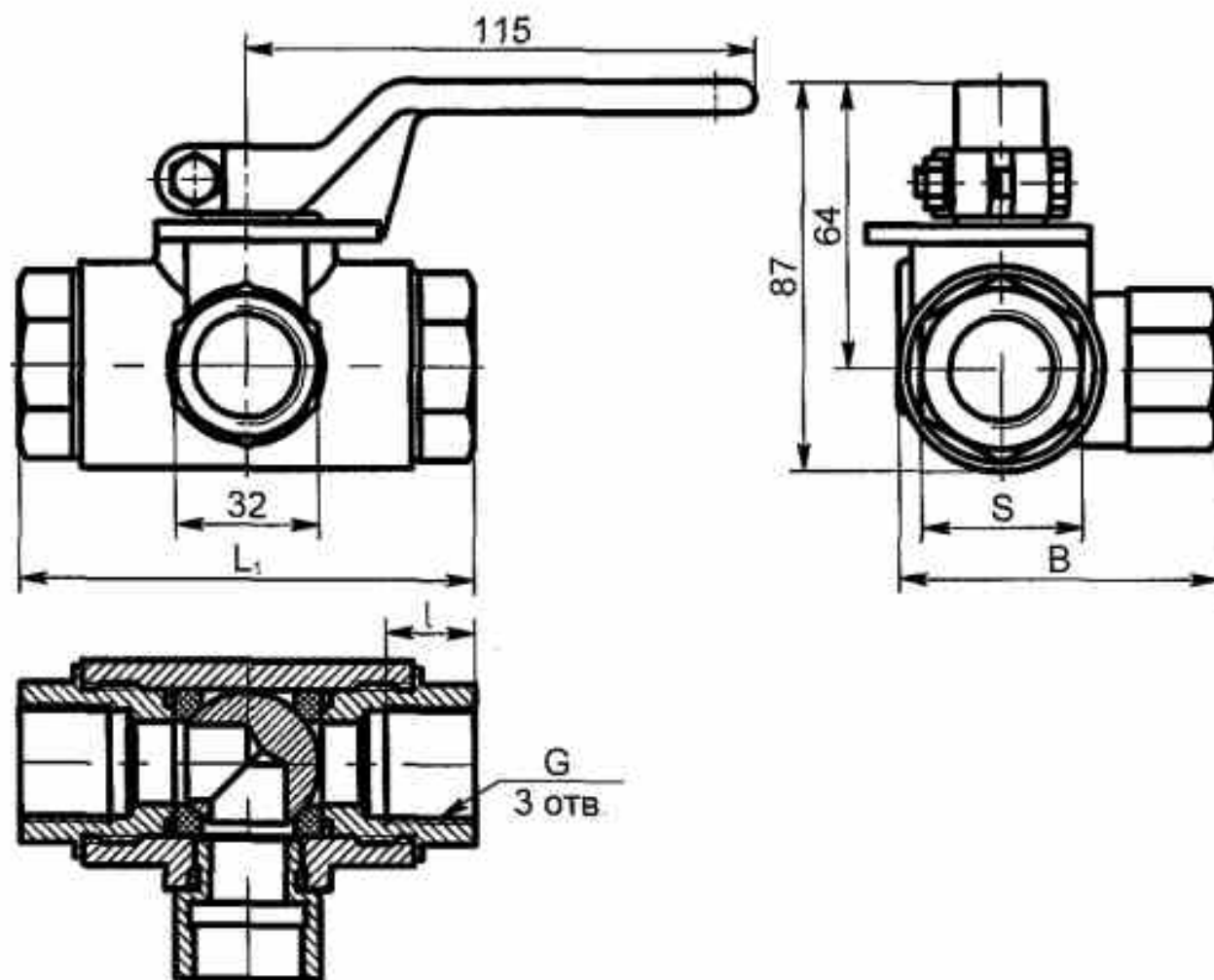
| | 043-02 | 043-1 | 043-1-01 | 043-1-02 | 043-2 |
|--|---|---|---|---|---|
| | $\sqrt{-}$ Γ Ξ
$L \sqrt{\Gamma} \Gamma \sqrt{\Gamma}$ | $\sqrt{-}$ Γ Ξ
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$L \sqrt{\Gamma} \Gamma \sqrt{\Gamma}$ | $\sqrt{-}$ Γ Ξ
$L \sqrt{\Gamma} \Gamma \sqrt{\Gamma}$ | $\sqrt{-}$ Γ Ξ
$L \sqrt{\Gamma} \Gamma \sqrt{\Gamma}$ |
| | 14111011154 | 5611521134 | 5611521134 | 5611521134 | 561741134 |
| | 1,53 | 1,43 | 1,43 | 1,43 | 1,43 |
| | 5,0±0,25 | 5,0±0,25 | 5,0±0,25 | 5,0±0,25 | 5,0±0,25 |
| | $\pi \pm 60 \pi - 50$ | $\pi \pm 60 \pi - 50$ | $\pi \pm 60 \pi - 50$ | $\pi \pm 60 \pi - 50$ | $\pi \pm 60 \pi - 50$ |
| | | | | | |
| | | | | | |
| | 10 | 10 | 10 | 10 | 10 |
| | 0,98 | 0,98 | 0,98 | 0,98 | 0,98 |
| | 10 | 10 | 10 | 10 | 10 |
| | | | | | |
| | - | - | - | - | - |

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|---|---|---|--|--|--|--|
| | 043-2-01  | 043-2-02  | 043  | 043 -01  | 043 -02  | 046  |
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2.10.9 ()

| | 046-01 | 046-02 | 077.070 | 077.070-01 | 127 2-15 | 128 2-20 |
|--|-------------|-------------|-------------|-------------|-----------|-----------|
| | | | | | | |
| | | | | | | |
| | 108-170-134 | 108-170-134 | 101-141-112 | 101-141-112 | 166-72-90 | 166-72-90 |
| | 3,03 | 3,03 | 1,1 | 1,1 | 0,98 | 0,98 |
| | 5,0±0,25 | 5,0±0,25 | 5,0±0,25 | 5,0±0,25 | 5,0±0,25 | 5,0±0,25 |
| | ±60 - 50 | ±60 - 50 | ±60 | ±60 | ±60 | ±60 |
| | | | | | | |
| | 20 | 20 | 10 | 10 | 15 | 20 |
| | 0,98 | 0,98 | 0,98 | 0,98 | 0,7 - 0,9 | 0,7 - 0,9 |
| | 10 | 10 | 10 | 10 | 10 | 10 |
| | G1/2 | G1/2 | G1/2 | G1/2 | G1/2 | G3/4 |

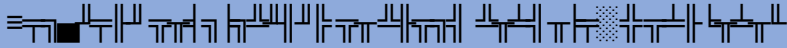
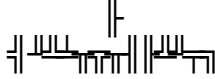
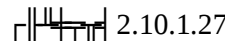
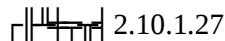
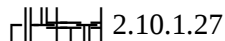
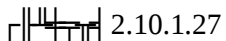
|  |  | | | | | |
|---|---|---|--|---|--|--|
| | 046-01  | 046-02  | 077.070  | 077.070-01  | 127  2-15 | 128  2-20 |
|  |  |  |  |  |  |  |
|  | - | - | - | - |  2.10.1.27 |  2.10.1.27 |



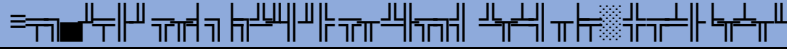
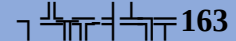
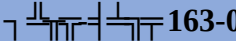
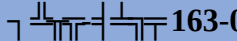
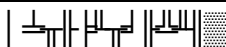
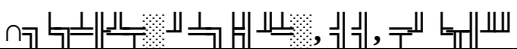
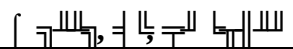
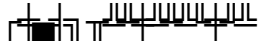
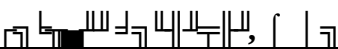
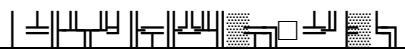
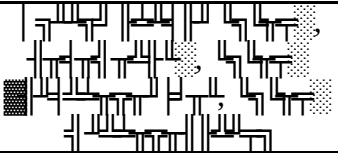
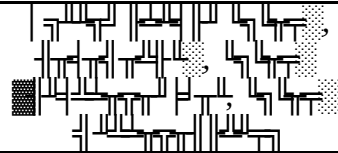
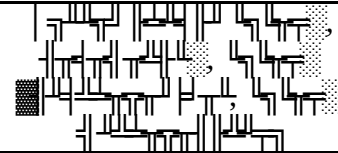
2.10 - 2-15, 2-20, 3-20-1, 3-20-2

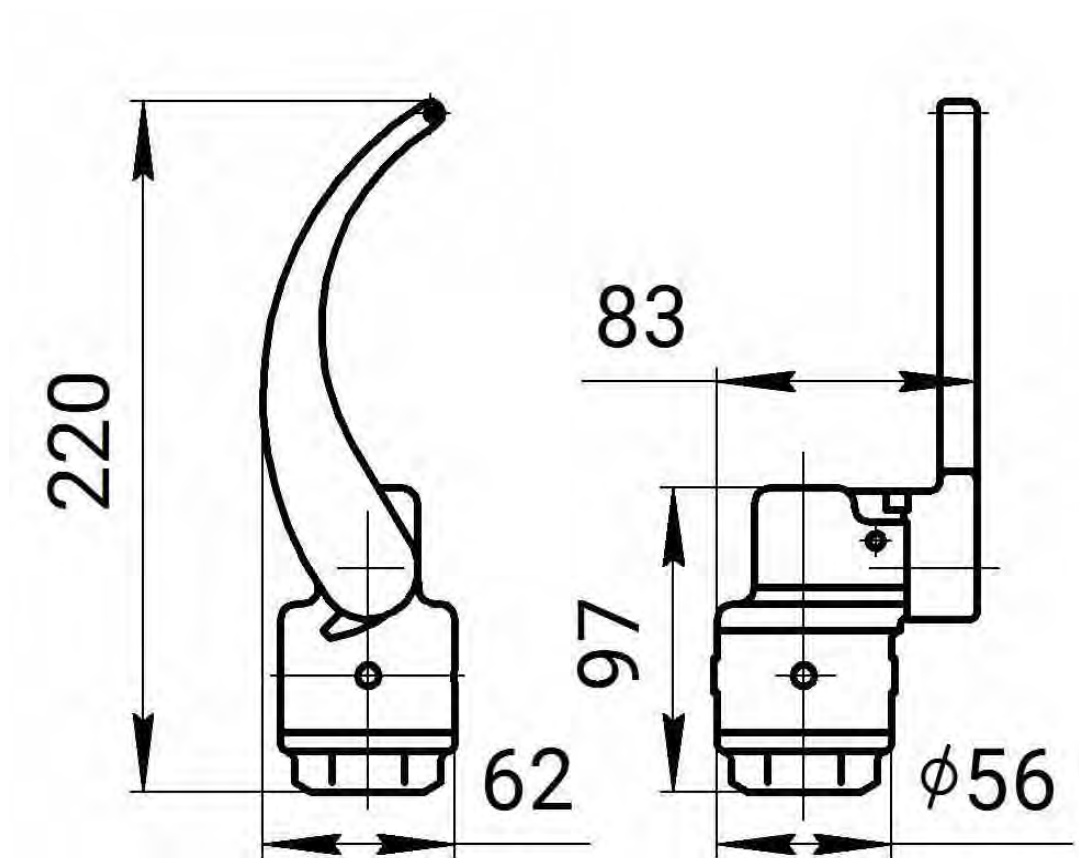
2.10.8 ()

| | 128√ 2-20√ -1 | 128 √ -01 2-20√ -2 | 130.10.070 | 130.10.070-1 | 154 3-20-1 | 154-01 3-20-2 |
|--|---------------|--------------------|-------------|--------------|------------|---------------|
| | √ - ∫ | √ - ∫ | √ - ∫ | √ - ∫ | √ - ∫ | √ - ∫ |
| | 116-152-86 | 234-201-86 | 103-155-110 | 152-59-135 | 166-78-71 | 166-78-71 |
| | 1,01 | 2,93 | 1,20 | 1,48 | 0,91 | 1,01 |
| | 5,0±0,25 | 5,0±0,25 | | | 5,0±0,25 | 5,0±0,25 |
| | ±60 | ±60 | ±60 | ±60 | ±60 | ±60 |
| | | | | | | |
| | | | | | | |
| | 20 | 20 | 8 | 8 | 20 | 20 |
| | 0,98 | 0,98 | 0,98 | 0,98 | 0,98 | 0,98 |
| | 32 | 32 | 10 | 10 | 10 | 10 |
| | G3/4 | Ø27 | | | G3/4 | G3/4 |
| | | | | | | |

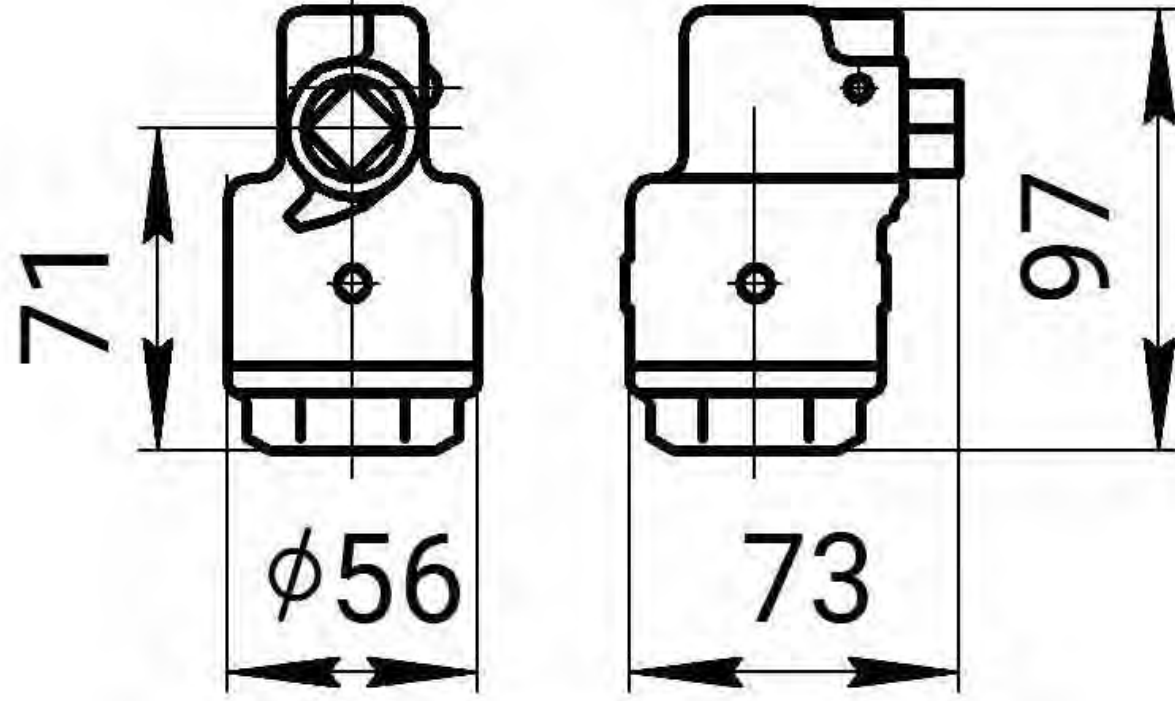
|  |  | | | | | |
|---|--|---|--|--|---|--|
| | 128√  2-
20√ -1  | 128 √ -01  2-
20√ -2  | 130.10.070
 | 130.10.070-1
 | 154  3-20-1
 | 154-01  3-
20-2  |
| |  |  |  |  |  |  |
|  |  2.10.1.27 |  2.10.1.27 | - | - |  2.10.1.27 |  2.10.1.27 |

 2.10.9 -

|  |  | | |
|---|---|--|--|
| | 163  | 163-01  | 163-06  |
|  | $\sqrt{-}$ «  » $\text{L} \mid \text{L}\sqrt{}$ | $\sqrt{-}$ «  » $\text{L} \mid \text{L}\sqrt{}$ | $\sqrt{-}$ «  » $\text{L} \mid \text{L}\sqrt{}$ |
|  | 229  56  75 | 220  56  83 | 97  56  73 |
|  | 1,25 | 1,15 | 1,05 |
| $\leq$  |  + 55 $\neq$  - 55 |  + 55 $\neq$  - 55 |  + 55 $\neq$  - 55 |
|  | - | - |  |
|  | 0,9 | 0,9 | 0,9 |
|  | G3/4 | G3/4 | G3/4 |
|  | 2 | 2 | 2 |
|  |  |  |  |



2.10.1.31 - 163-01

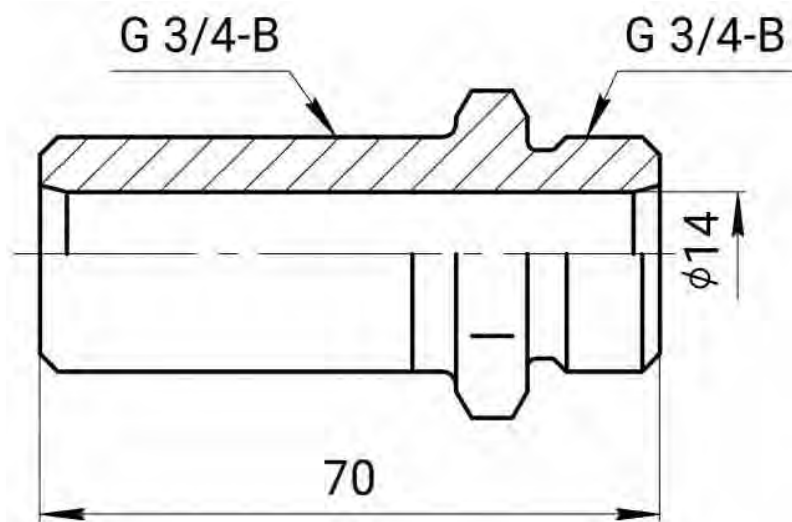


2.10.1.31 - 163-06

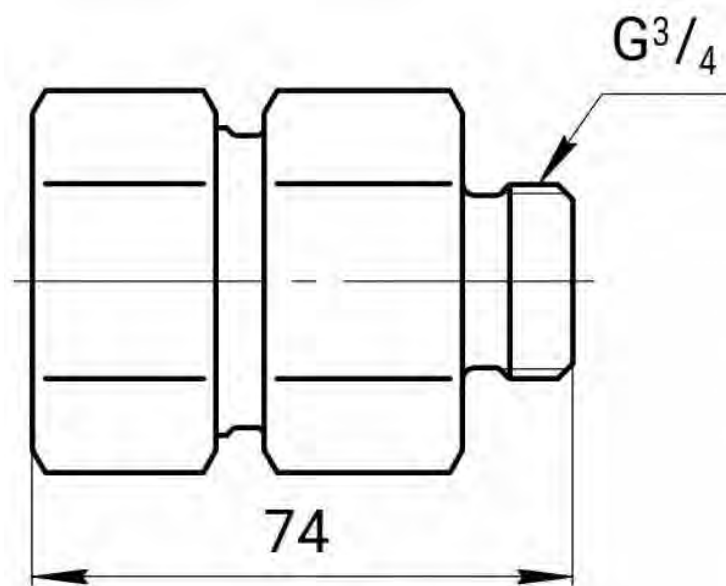
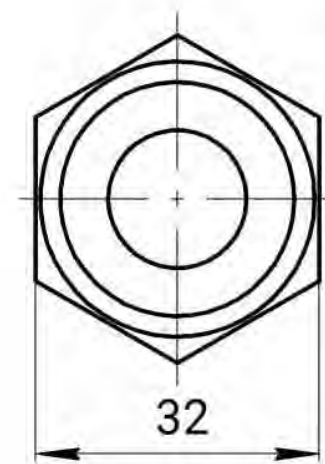
2.10.2

2.10.2.1

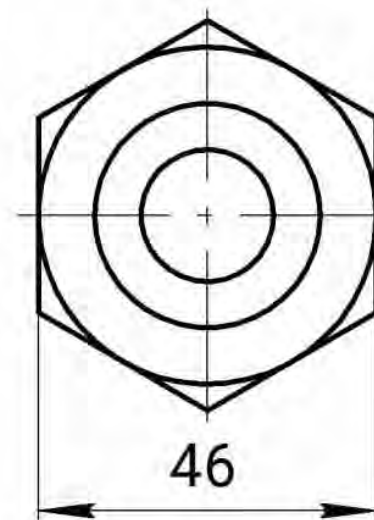
| | 26300-] | 4371 | 4371≤ | 4378 | 4378≤ |
|----|-----------|-----------|-----------|-----------|-----------|
| | √- « | √- « | √- « | √- « | √- « |
| | 0,2 | 0,52 | 0,52 | 0,3 | 0,3 |
| | 1,0 | 1,0 | 1,0 | 1,0 | 1,0 |
| | ±60 | ±60 | ±60 | ±60 | ±60 |
| | G3/4 | G3/4 | G3/4 | G3/4 | G3/4 |
| | Ø 27± 0,3 | Ø 27± 0,3 | Ø 27± 0,3 | Ø 27± 0,3 | Ø 27± 0,3 |
| DN | 15 | 20 | 20 | 20 | 20 |
| | 6 | 6 | 8 | 6 | 8 |
| | | | | | |
| | 2.10.2.1 | 2.10.2.2 | | 2.10.2.3 | |

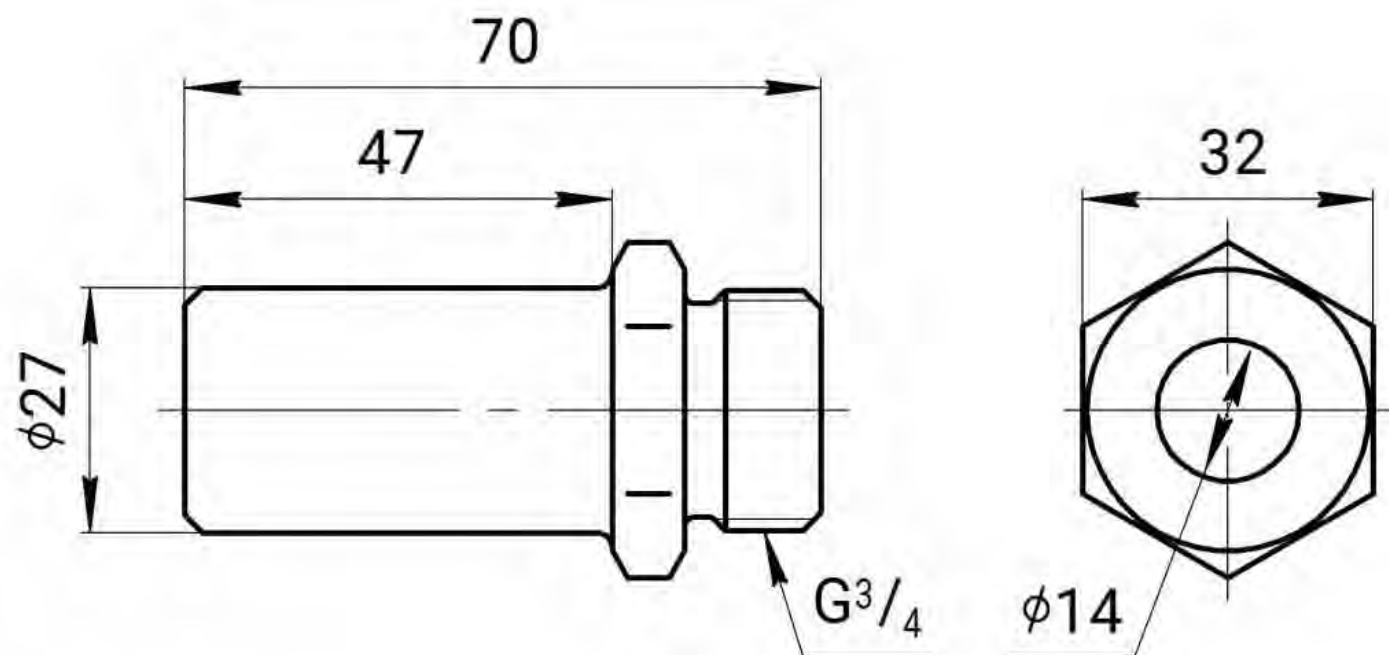


2.10.2.1 ñ | 26300-J



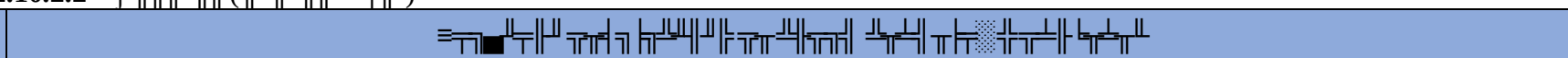
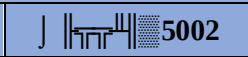
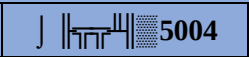
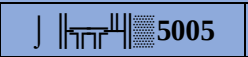
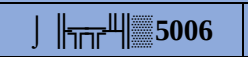
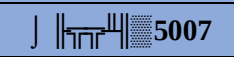
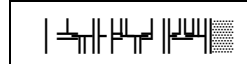
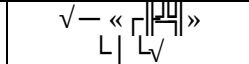
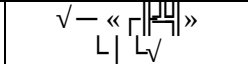
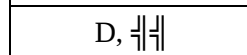
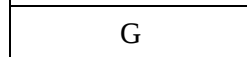
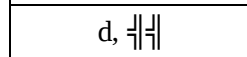
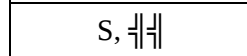
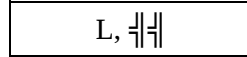
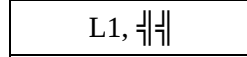
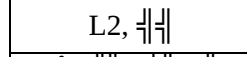
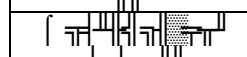
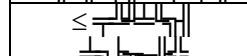
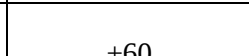
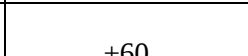
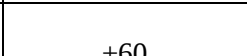
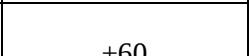
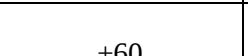
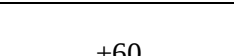
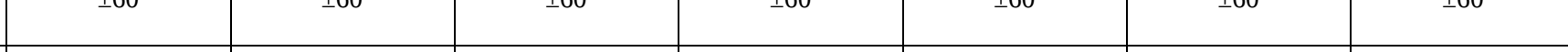
2.10.2.2 - | 4371, 4371≤





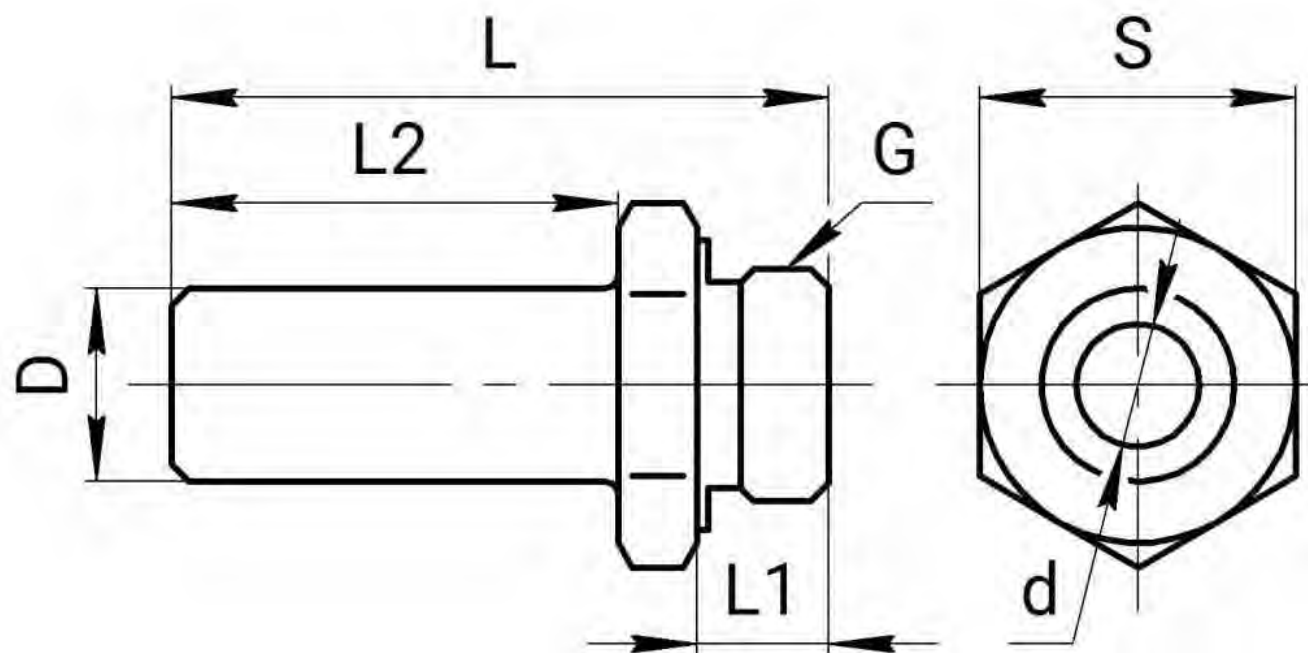
2.10.2.3 - 4378, 4378≤

2.10.2.2 -

|  |  | | | | | | |
|---|---|--|---|--|--|--|--|
| |  5001 |  5002 |  5003 |  5004 |  5005 |  5006 |  5007 |
|  |  |  |  |  |  |  |  |
| D,  | 22 | 27 | 34 | 17 | 42 | 22 | 22 |
| G | G3/4 | G3/4 | G1 | G1/2 | G1 | G1/2 | G1 |
| d,  | 14 | 17 | 23 | 12 | 23 | 12 | 14 |
| S,  | 36 | 36 | 46 | 32 | 55 | 32 | 46 |
| L,  | 75 | 70 | 105 | 75 | 113 | 75 | 80 |
| L1,  | 15 | 15 | 18 | 15 | 18 | 15 | 18 |
| L2,  | 51 | 47 | 77 | 51 | 77 | 51 | 51 |
|  | 0,24 | 0,25 | 0,5 | 0,16 | 0,98 | 0,22 | 0,32 |
|  | 1,0 | 1,0 | 1,0 | 1,0 | 1,0 | 1,0 | 1,0 |
|  | ±60 | ±60 | ±60 | ±60 | ±60 | ±60 | ±60 |
|  | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
|  |  |  |  |  |  |  |  |
|  |  2.10.2.4 | | | | | | |

2.10.2.3 - $\int$ $\frac{1}{R} \frac{dU}{dt}$ ($\frac{1}{R} \frac{dU}{dt}$)

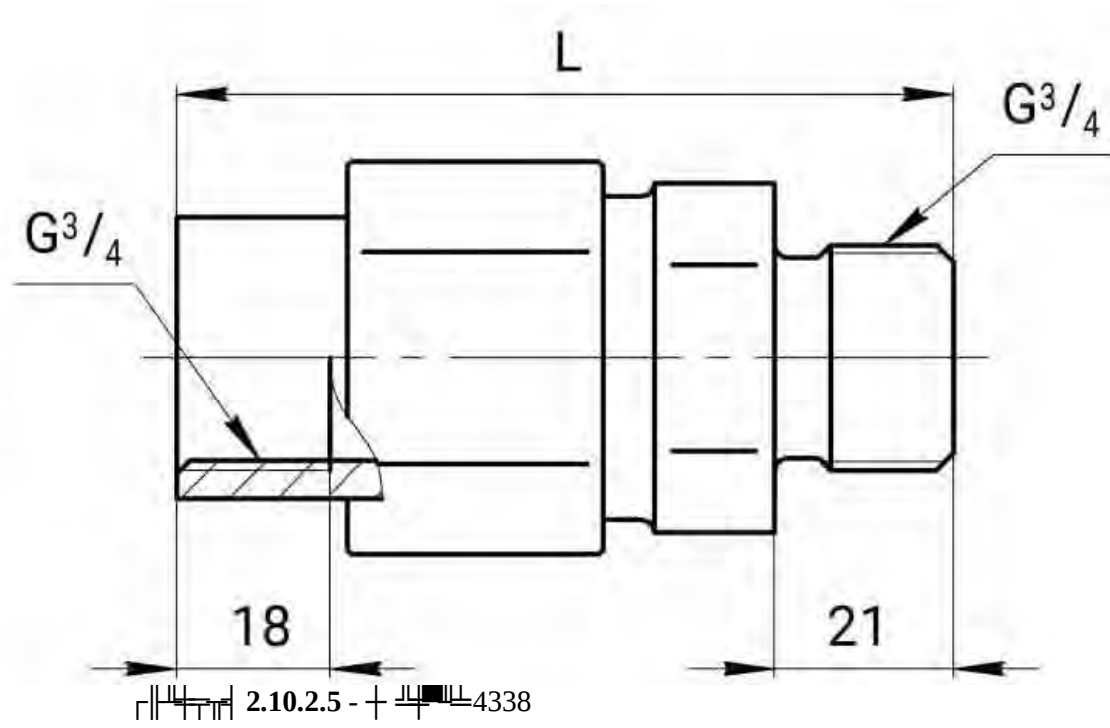
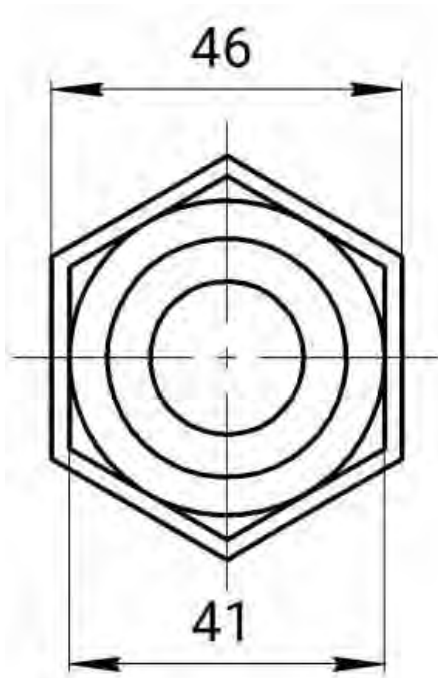
| $\int$ $\frac{1}{R} \frac{dU}{dt}$ | $\frac{1}{R} \frac{dU}{dt}$ $\frac{1}{R} \frac{dU}{dt}$ $\frac{1}{R} \frac{dU}{dt}$ $\frac{1}{R} \frac{dU}{dt}$ $\frac{1}{R} \frac{dU}{dt}$ | | | | |
|--|--|---|---|---|---|
| | $\int$ $\frac{1}{R} \frac{dU}{dt}$ 5008 | $\int$ $\frac{1}{R} \frac{dU}{dt}$ 5009 | $\int$ $\frac{1}{R} \frac{dU}{dt}$ 500V | $\int$ $\frac{1}{R} \frac{dU}{dt}$ 5001 ∞ | $\int$ $\frac{1}{R} \frac{dU}{dt}$ 500L |
| $\sqrt{-\langle \frac{1}{R} \frac{dU}{dt} \rangle} \quad L \quad L_V$ | $\sqrt{-\langle \frac{1}{R} \frac{dU}{dt} \rangle} \quad L \quad L_V$ | $\sqrt{-\langle \frac{1}{R} \frac{dU}{dt} \rangle} \quad L \quad L_V$ | $\sqrt{-\langle \frac{1}{R} \frac{dU}{dt} \rangle} \quad L \quad L_V$ | $\sqrt{-\langle \frac{1}{R} \frac{dU}{dt} \rangle} \quad L \quad L_V$ | $\sqrt{-\langle \frac{1}{R} \frac{dU}{dt} \rangle} \quad L \quad L_V$ |
| D, $\frac{1}{R} \frac{dU}{dt}$ | 27 | 27 | 22 | 27 | 22 |
| G | G1 | G1 | G3/4 | G3/4 | G1/2 |
| d, $\frac{1}{R} \frac{dU}{dt}$ | 20 | 20 | 14 | 17 | 12 |
| S, $\frac{1}{R} \frac{dU}{dt}$ | 46 | 46 | 36 | 36 | 32 |
| L, $\frac{1}{R} \frac{dU}{dt}$ | 105 | 143 | 85 | 87 | 85 |
| L1, $\frac{1}{R} \frac{dU}{dt}$ | 18 | 18 | 15 | 15 | 15 |
| L2, $\frac{1}{R} \frac{dU}{dt}$ | 77 | 115 | 61 | 64 | 61 |
| $\int \frac{1}{R} \frac{dU}{dt} \quad \frac{1}{R} \frac{dU}{dt} \quad \frac{1}{R} \frac{dU}{dt}$ | 0,37 | 0,45 | 0,25 | 0,29 | 0,23 |
| $\int \frac{1}{R} \frac{dU}{dt} \quad \frac{1}{R} \frac{dU}{dt} \quad \frac{1}{R} \frac{dU}{dt}$ | 1,0 | 1,0 | 1,0 | 1,0 | 1,0 |
| $\leq \frac{1}{R} \frac{dU}{dt} \quad \frac{1}{R} \frac{dU}{dt} \quad \frac{1}{R} \frac{dU}{dt}$ | ± 60 | ± 60 | ± 60 | ± 60 | ± 60 |
| $\int \frac{1}{R} \frac{dU}{dt} \quad \frac{1}{R} \frac{dU}{dt} \quad \frac{1}{R} \frac{dU}{dt}$ | 8 | 8 | 8 | 8 | 8 |
| $\frac{1}{R} \frac{dU}{dt} \quad \frac{1}{R} \frac{dU}{dt} \quad \frac{1}{R} \frac{dU}{dt}$ | $\frac{1}{R} \frac{dU}{dt} \quad \frac{1}{R} \frac{dU}{dt} \quad \frac{1}{R} \frac{dU}{dt}$ | $\frac{1}{R} \frac{dU}{dt} \quad \frac{1}{R} \frac{dU}{dt} \quad \frac{1}{R} \frac{dU}{dt}$ | $\frac{1}{R} \frac{dU}{dt} \quad \frac{1}{R} \frac{dU}{dt} \quad \frac{1}{R} \frac{dU}{dt}$ | $\frac{1}{R} \frac{dU}{dt} \quad \frac{1}{R} \frac{dU}{dt} \quad \frac{1}{R} \frac{dU}{dt}$ | $\frac{1}{R} \frac{dU}{dt} \quad \frac{1}{R} \frac{dU}{dt} \quad \frac{1}{R} \frac{dU}{dt}$ |
| $\frac{1}{R} \frac{dU}{dt} \quad \frac{1}{R} \frac{dU}{dt} \quad \frac{1}{R} \frac{dU}{dt}$ | $\frac{1}{R} \frac{dU}{dt} \quad \frac{1}{R} \frac{dU}{dt} \quad \frac{1}{R} \frac{dU}{dt} \quad \frac{1}{R} \frac{dU}{dt} \quad \frac{1}{R} \frac{dU}{dt}$ 2.10.2.4 | | | | |

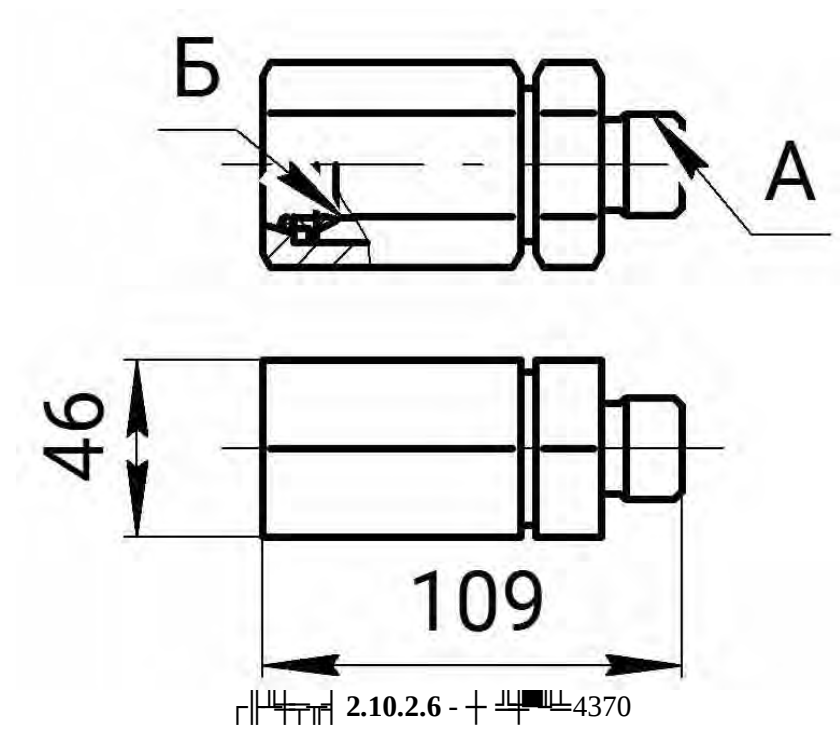


2.10.2.4 - J 5001-500 L

2.10.2.4 -

| | 4338 | 4338-01 | 4338≤ | 4338≤ -01 | 4370 |
|----|-------------|-------------|-------------|-------------|-------------|
| | √- « » L L√ | √- « » L L√ | √- « » L L√ | √- « » L L√ | √- « » L L√ |
| | 91 | 89 | 91 | 89 | 109±53 |
| | 0,5 | 0,5 | 0,5 | 0,5 | 1,1 |
| | 1,0 | 1,0 | 1,0 | 1,0 | 1,0 |
| | ±60 | ±60 | ±60 | ±60 | ±60 |
| | G3/4 | G3/4 | G3/4 | G3/4 | G3/4 |
| DN | 20 | 20 | 20 | 20 | 20 |
| | 4 | 4 | 8 | 8 | 6 |
| | 150±15 | 150±15 | 150±15 | 150±15 | 150±15 |
| | | | | | |
| | 2.10.2.5 | | | | |



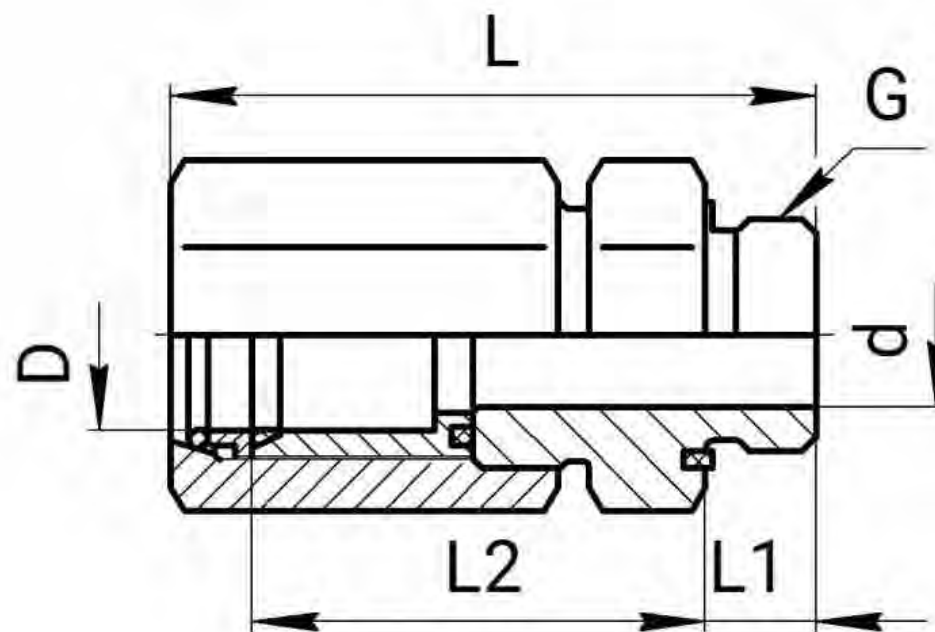
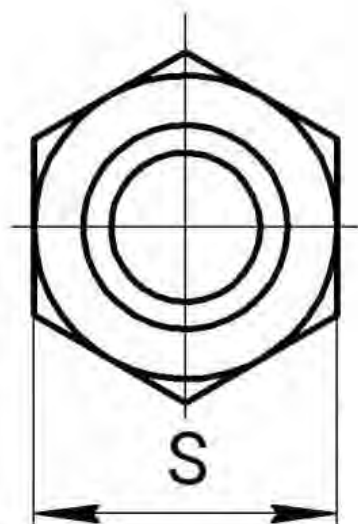


2.10.2.5 - ()

| | 4370≤ | 4374 | 4374≤ | 4374 [| 4374] ≤ |
|------|-------------|-------------|-------------|-------------|-------------|
| | √- « » L L√ | √- « » L L√ | √- « » L L√ | √- « » L L√ | √- « » L L√ |
| | 109±53 | 84±70 | 84±70 | 84±70 | 84±70 |
| | 1,1 | 1,2 | 1,2 | 1,2 | 1,2 |
| | 1,0 | 1,0 | 1,0 | 1,0 | 1,0 |
| ≤ | ±60 | ±60 | ±60 | ±60 | ±60 |
| G3/4 | G3/4 | [52 ±1,5 | [52 ±1,5 | G1 1/2 | G1 1/2 |
| D | 27 | 42 | 42 | 42 | 42 |
| DN | 20 | 32 | 32 | 32 | 32 |
| | 8 | 6 | 8 | 6 | 8 |
| | 150±15 | 200±20 | 200±20 | 200±20 | 200±20 |
| - | | | | | |
| () | 2.10.2.6 | | | | |

2.10.2.6 - ()

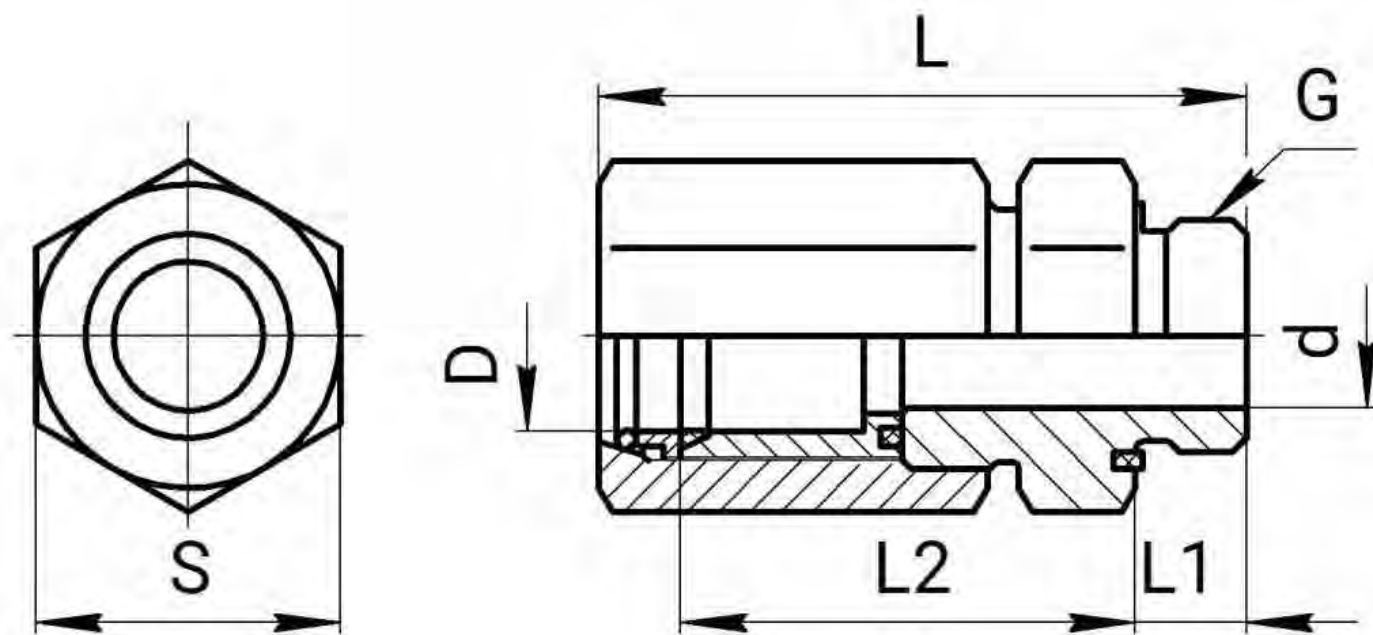
| | 5111 | 5112 | 5113 | 5114 | 5115 | 5116 |
|-------|-------------|-------------|-------------|-------------|-------------|-------------|
| | √ - « » L L | √ - « » L L | √ - « » L L | √ - « » L L | √ - « » L L | √ - « » L L |
| | | | | | | |
| D, : | 22 | 27 | 27 | 34 | 34 | 42 |
| G | G1/2 | G3/4 | G1 1/4 | G1 | G1 3/4 | G1 |
| d, : | 12 | 18 | 21 | 23 | 26 | 23 |
| S, : | 41 | 46 | 55 | 55 | 55 | 70 |
| L, : | 98 | 112 | 120 | 119 | 117 | 139 |
| L1, : | 15 | 21 | 25 | 22 | 20 | 20 |
| L2, : | 70 | 77 | 81 | 79 | 82 | 101 |
| | | | | | | |
| | 100 | 150 | 150 | 170 | 170 | 200 |
| | 0,76 | 0,9 | 1,25 | 1,25 | 1,53 | 2,85 |
| | 1,0 | 1,0 | 1,0 | 1,0 | 1,0 | 1,0 |
| ≤ °C | ±60 | ±60 | ±60 | ±60 | ±60 | ±60 |
| | 8 | 8 | 8 | 8 | 8 | 8 |
| | | | | | | |
| () | 2.10.2.7 | | | | | |



2.10.2.7 ñ 5111-5117

2.10.2.7 - ()

| | 5117 | 5121 | 5122 | 5123 | 5124 | 5125 |
|-------|-------------|-------------|-------------|-------------|-------------|-------------|
| | √ - « » L L | √ - « » L L | √ - « » L L | √ - « » L L | √ - « » L L | √ - « » L L |
| | | | | | | |
| D, H | 42 | 27 | 34 | 22 | 27 | 34 |
| G | G1 1/4 | G1 3/4 | G1 | G1/2 | G1 1/4 | G1 1/4 |
| d, H | 31,5 | 18 | 23 | 12 | 21 | 28 |
| S, H | 70 | 46 | 55 | 41 | 55 | 55 |
| L, H | 139 | 109 | 116 | 95 | 113 | 116 |
| L1, H | 20 | 22 | 25 | 15 | 20 | 20 |
| L2, H | 101 | 74 | 76 | 67 | 79 | 81 |
| | | | | | | |
| | 200 | 150 | 170 | 100 | 150 | 170 |
| | 2,73 | 0,9 | 1,3 | 0,72 | 1,2 | 1,36 |
| | 1,0 | 1,0 | 1,0 | 1,0 | 1,0 | 1,0 |
| ≤ °C | ±60 | ±60 | ±60 | ±60 | ±60 | ±60 |
| | 8 | 8 | 8 | 8 | 8 | 8 |
| - | | | | | | |
| () | 2.10.2.7 | 2.10.2.8 | | | | |



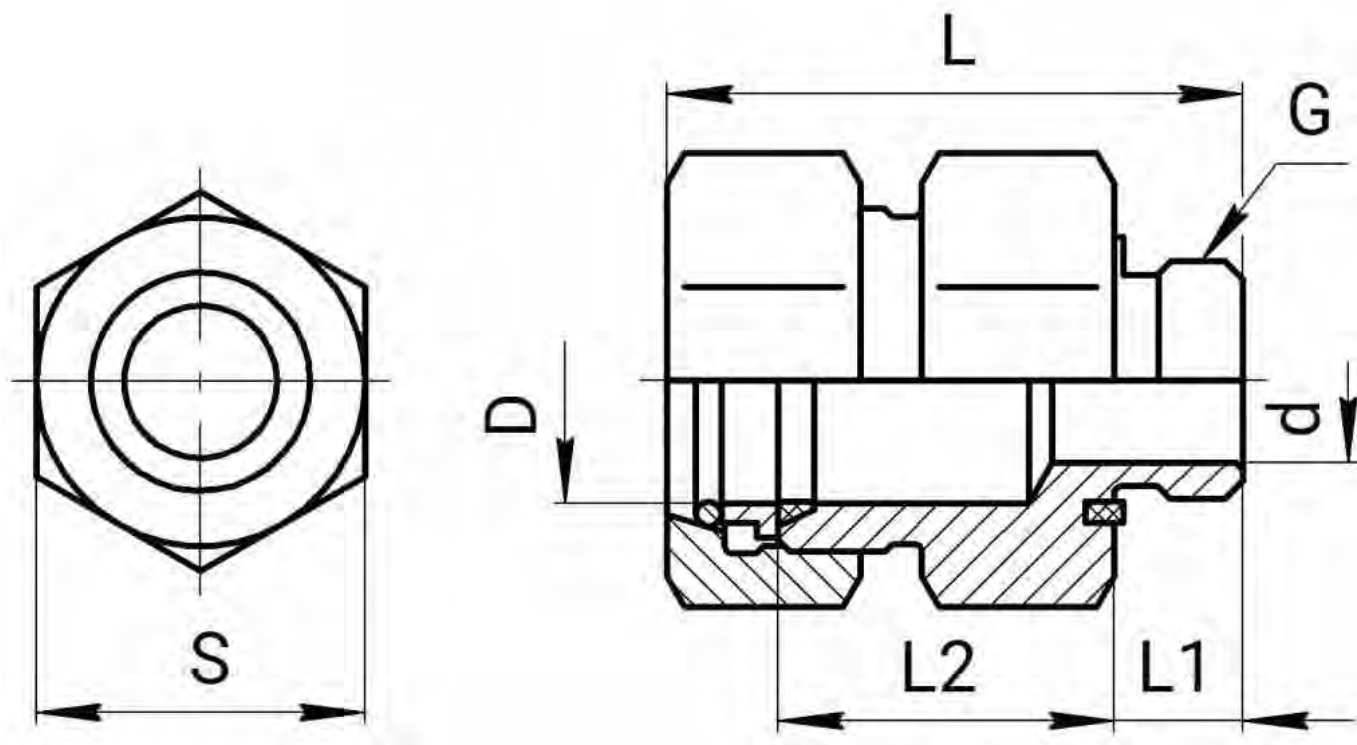
2.10.2.8 ñ + 5122-5127

2.10.2.8 - ()

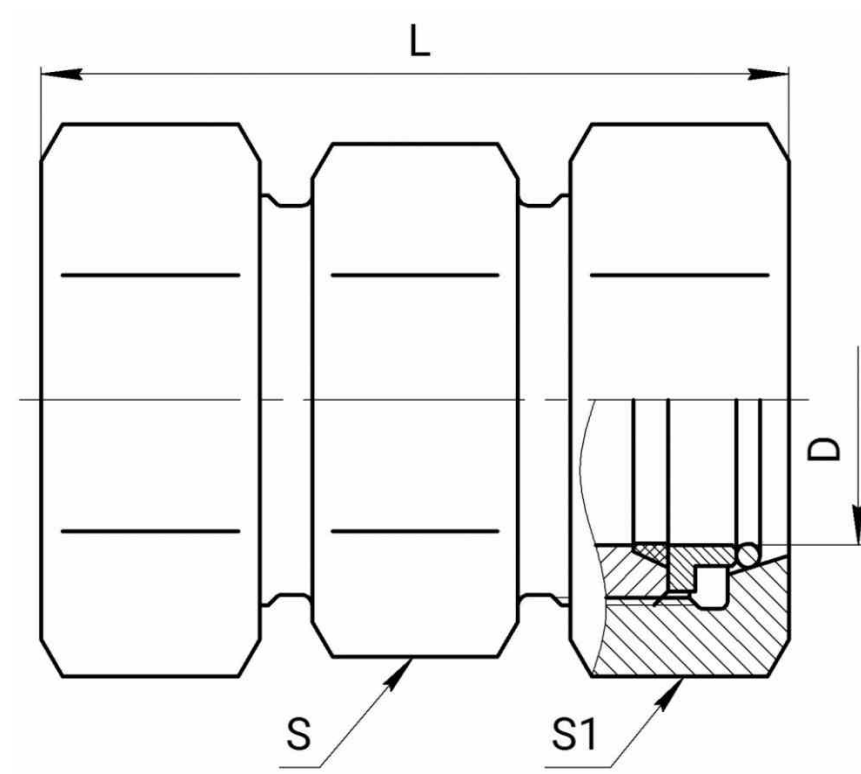
| | 5126 | 5127 | 5131 | 5132 | 5133 | 5134 |
|------|--------------|--------------|--------------|--------------|--------------|--------------|
| | √ - « » L L√ | √ - « » L L√ | √ - « » L L√ | √ - « » L L√ | √ - « » L L√ | √ - « » L L√ |
| | | | | | | |
| D, | 42 | 42 | 34 | 34 | 22 | 27 |
| G | G1 | G1 1/4 | G1 | G1 1/4 | G1/2 | G3/4 |
| d, | 23 | 32 | 23 | 26 | 12 | 18 |
| S, | 70 | 70 | 55 | 55 | 41 | 46 |
| L, | 138 | 138 | 80 | 79 | 67 | 68 |
| L1, | 20 | 20 | 18 | 20 | 17 | 17 |
| L2, | 100 | 100 | 47 | 44 | 37 | 37 |
| | | | | | | |
| | 200 | 200 | 170 | 170 | 100 | 150 |
| | 2,6 | 2,57 | 0,87 | 0,87 | 0,47 | 0,53 |
| | 1,0 | 1,0 | 1,0 | 1,0 | 1,0 | 1,0 |
| ≤ °C | ±60 | ±60 | ±60 | ±60 | ±60 | ±60 |
| | 8 | 8 | 8 | 8 | 8 | 8 |
| | | | | | | |
| | 2.10.2.8 | | 2.10.2.9 | | | |

2.10.2.9 - ()

| | 5135 | 5136 | 5137 | 5138 | 5139 | 513V |
|------|-------------|-------------|-------------|-------------|-------------|-------------|
| | √- « » L L√ | √- « » L L√ | √- « » L L√ | √- « » L L√ | √- « » L L√ | √- « » L L√ |
| | | | | | | |
| D, | 27 | 42 | 42 | 25 | 32 | 32 |
| G | G1 1/4 | G1 | G1 1/4 | G1 | G3/4 | G1 |
| d, | 21 | 23 | 31,5 | 20 | 17 | 23 |
| S, | 55 | 70 | 70 | 46 | 55 | 55 |
| L, | 77 | 94 | 94 | 77 | 77 | 77 |
| L1, | 20 | 20 | 20 | 20 | 18 | 18 |
| L2, | 43 | 56 | 56 | 43 | 47 | 47 |
| | | | | | | |
| | 150 | 200 | 200 | 130 | 170 | 170 |
| | 0,82 | 1,66 | 1,66 | 0,63 | 0,91 | 0,91 |
| | 1,0 | 1,0 | 1,0 | 1,0 | 1,0 | 1,0 |
| ≤ °C | ±60 | ±60 | ±60 | ±60 | ±60 | ±60 |
| | 8 | 8 | 8 | 8 | 8 | 8 |
| | | | | | | |
| () | 2.10.2.9 | | | | | |



2.10.2.9 - 5131-513V



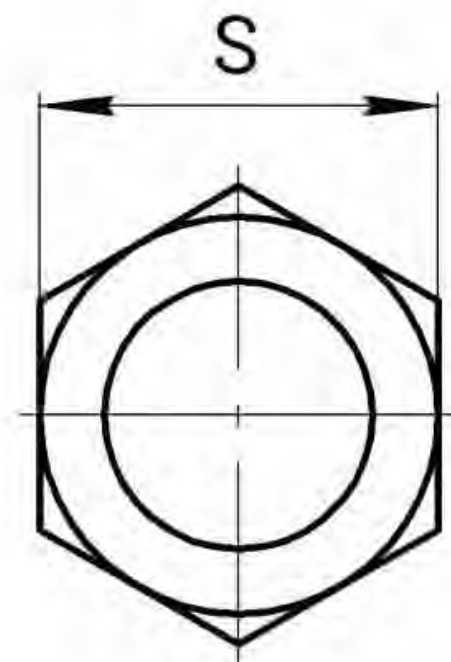
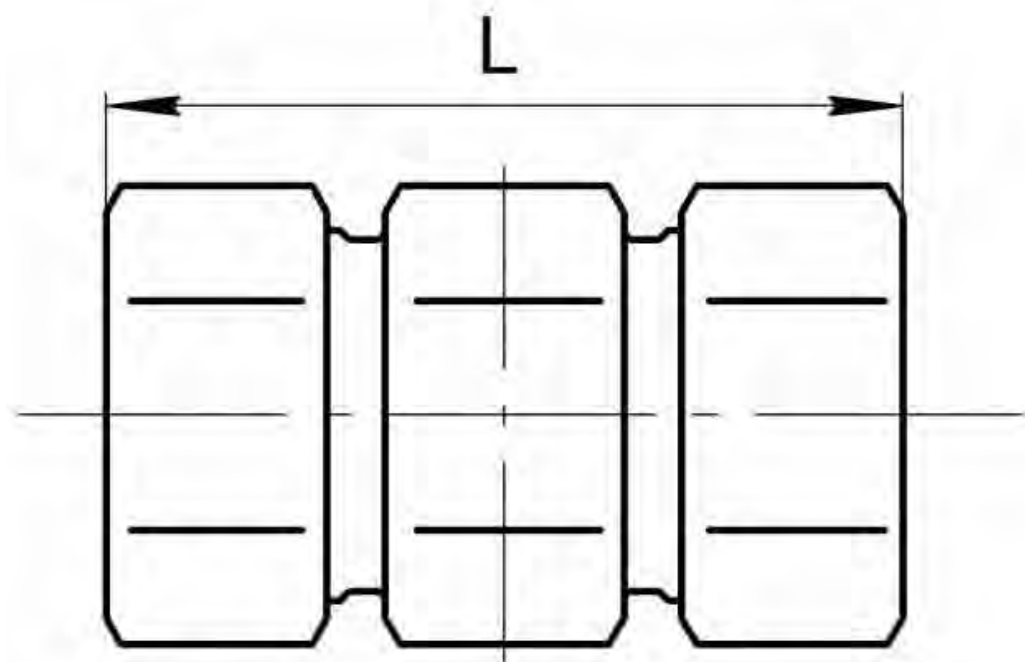
2.10.2.9 ñ 5401-540V

2.10.2.11 -

| | 5406 | 5407 | 5408 | 5409 | 540√ |
|---|--------------|--------------|--------------|--------------|--------------|
| | √ - « » L L√ | √ - « » L L√ | √ - « » L L√ | √ - « » L L√ | √ - « » L L√ |
| | 106-75-75 | 80-27-27 | 88-46-46 | 90-55-55 | 80-32-32 |
| | 2,4 | 0,4 | 0,9 | 1,2 | 0,5 |
| | 1,0 | 1,0 | 1,0 | 1,0 | 1,0 |
| | ±60 | ±60 | ±60 | ±60 | ±60 |
| D | 48 | 10 | 25 | 32 | 14 |
| | 8 | 8 | 8 | 8 | 8 |
| | 220 | 60 | 130 | 170 | 70 |
| | | | | | |
| | 2.10.2.10 | | | | |

2.10.2.12 -

| | 4379 | 4379-01 | 4379≤ | 4379≤ -01 |
|-----|-------------|-------------|-------------|-------------|
| | √- « » L L√ | √- « » L L√ | √- « » L L√ | √- « » L L√ |
| | 10970 | 9246 | 10970 | 9246 |
| | 1,9 | 0,8 | 1,9 | 0,8 |
| | 1,0 | 1,0 | 1,0 | 1,0 |
| ≤ | ±60 | ±60 | ±60 | ±60 |
| D | 42 | 27 | 42 | 27 |
| DN | 32 | 20 | 32 | 20 |
| D | 32 | 20 | 32 | 20 |
| | 6 | 6 | 8 | 8 |
| | 200±20 | 150±15 | 200±20 | 150±15 |
| | | | | |
| () | 2.10.2.10 | | | |

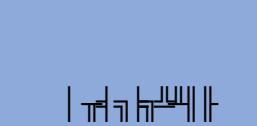
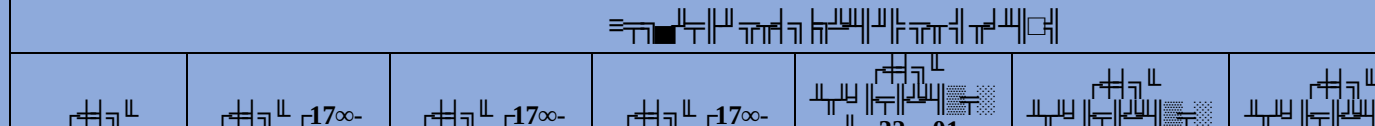
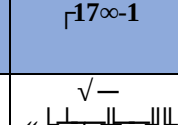
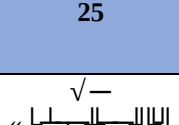
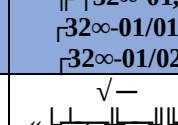
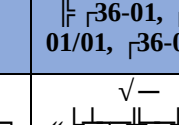
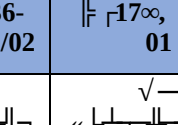
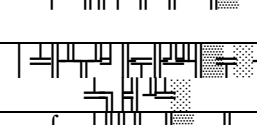
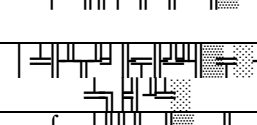
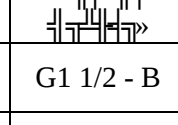
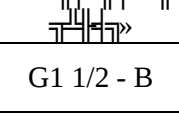
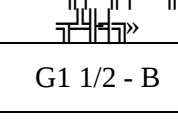
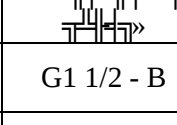
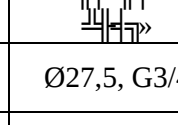
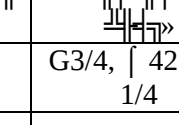
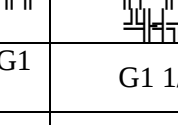
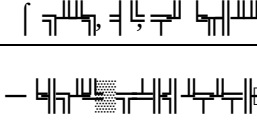


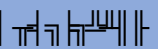
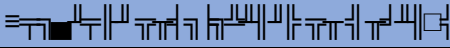
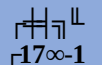
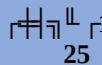
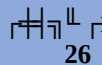
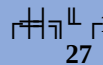
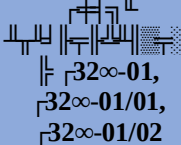
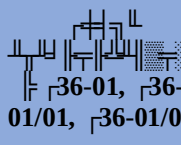
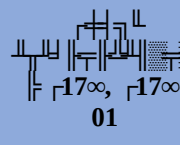
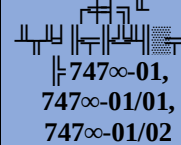
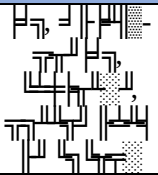
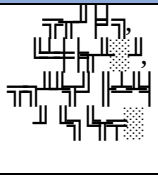
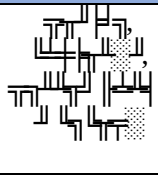
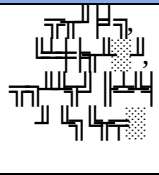
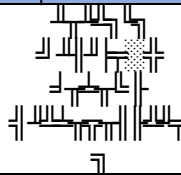
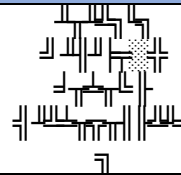
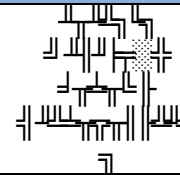
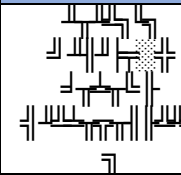
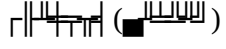
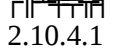
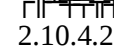
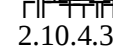
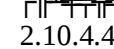
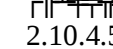
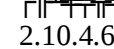
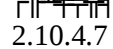
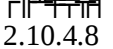
2.10.2.10 ñ 4379

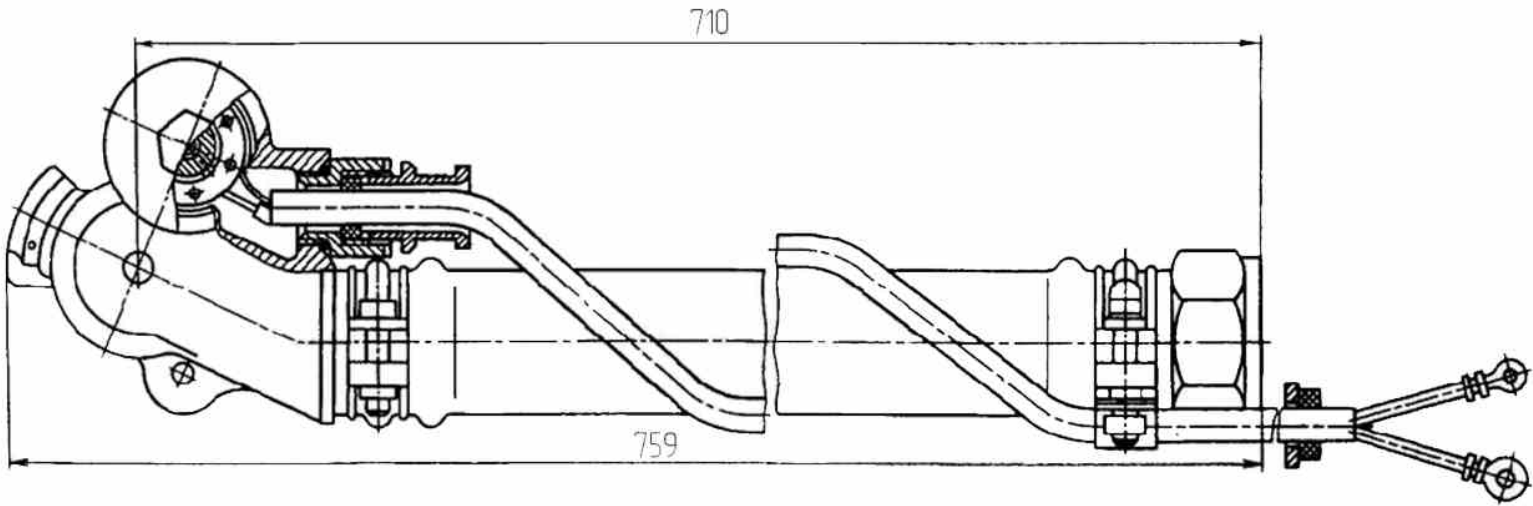
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2593-2014

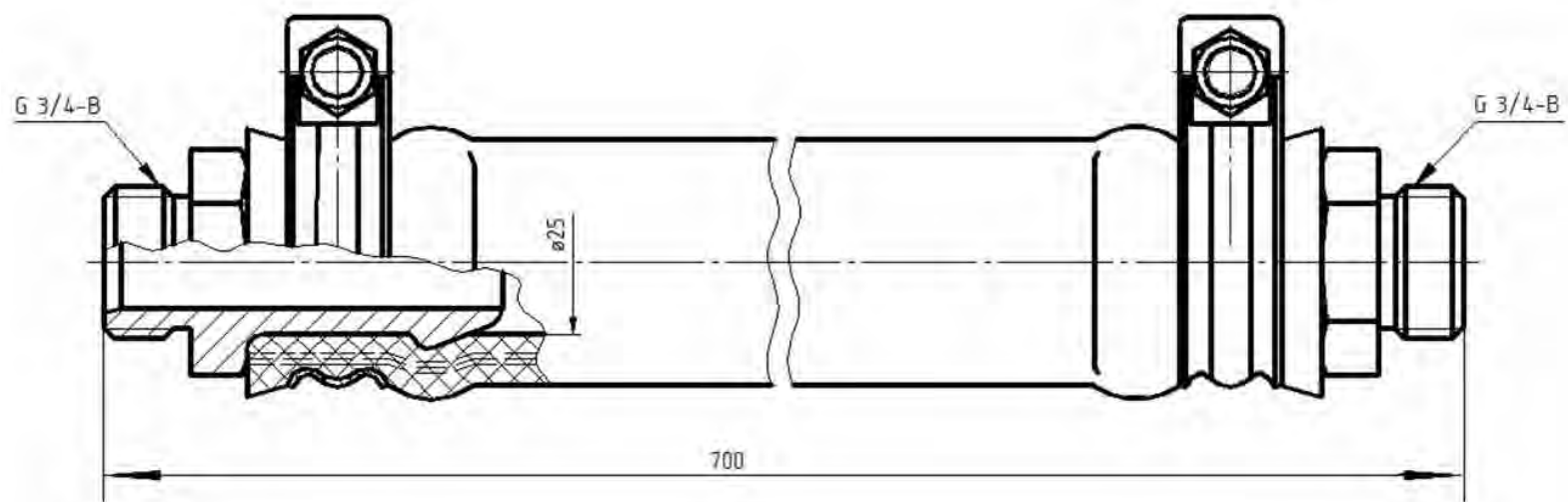
2.10.3.1 -

|  |  | | | | | | | |
|--|--|---|---|---|---|---|--|--|
| | 
$\Gamma_{17\infty-1}$ | 
$\Gamma_{17\infty-25}$ | 
$\Gamma_{17\infty-26}$ | 
$\Gamma_{17\infty-27}$ | 
$\Gamma_{32\infty-01},$
$\Gamma_{32\infty-01/01},$
$\Gamma_{32\infty-01/02}$ | 
$\Gamma_{36-01}, \Gamma_{36-01/01}, \Gamma_{36-01/02}$ | 
$\Gamma_{17\infty}, \Gamma_{17\infty-01}$ | 
$\Gamma_{747\infty-01},$
$\Gamma_{747\infty-01/01},$
$\Gamma_{747\infty-01/02}$ |
|  |  |  |  |  |  |  |  |  |
|  | G1 1/2 - B | G1 1/2 - B | G1 1/2 - B | G1 1/2 - B | Ø27,5, G3/4 | G3/4, $\Gamma_{42};$ G1 1/4 | G1 1/2 | Ø42,5, $\Gamma_{60};$ G3/4, G1 1/2 |
|  | 0,1 | 0,1 | 0,1 | 0,1 | 1,0 | 1,0 | 1,0 | 1,0 |
| 
DN, Γ_{42} | 32 | 32 | 32 | 32 | 20 | 20 | 32 | 32 |
|  | | | | | 25 | 25 | 35 | 35 |
|  | 759 | 759 | 759 | 759 | 500 - 1000
(± 10) | 400 - 1200
(± 10) | 300 - 2500
(± 10) | 400 - 2500
(± 10) |
|  | 2,9 | 2,9 | 2,9 | 2,9 | 3,7 | 3,0 | 8,0 | 9,2 |
| | | | | | | | | |

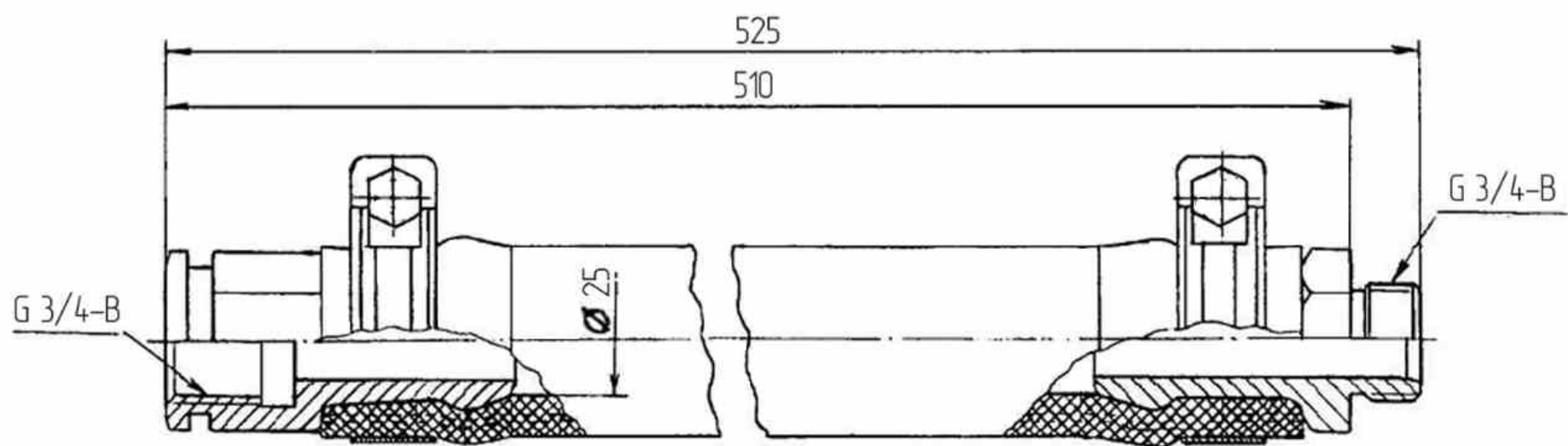
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|--|---|---|---|---|--|--|--|---|
| | 
1700-1 | 
1700-25 | 
1700-26 | 
1700-27 | 
3200-01,
3200-01/01,
3200-01/02 | 
36-01, 36-01/01, 36-01/02 | 
1700, 1700-01 | 
74700-01,
74700-01/01,
74700-01/02 |
| |  |  |  |  |  |  |  |  |
| 
() | 
2.10.4.1 | 
2.10.4.2 | 
2.10.4.3 | 
2.10.4.4 | 
2.10.4.5 | 
2.10.4.6 | 
2.10.4.7 | 
2.10.4.8 |



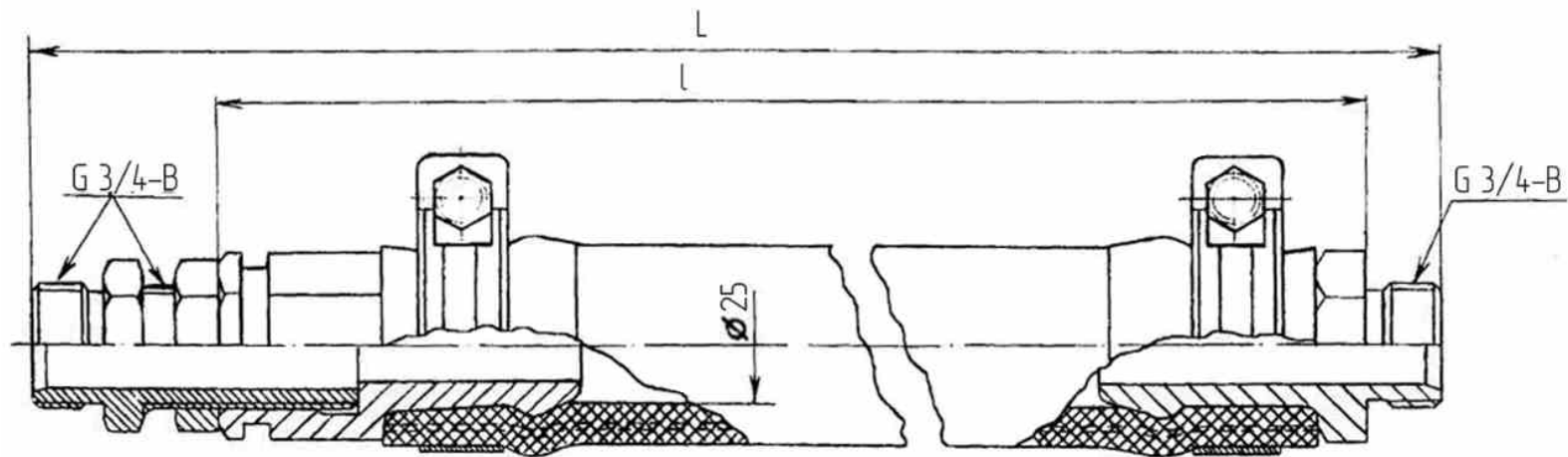

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2.10.4.2

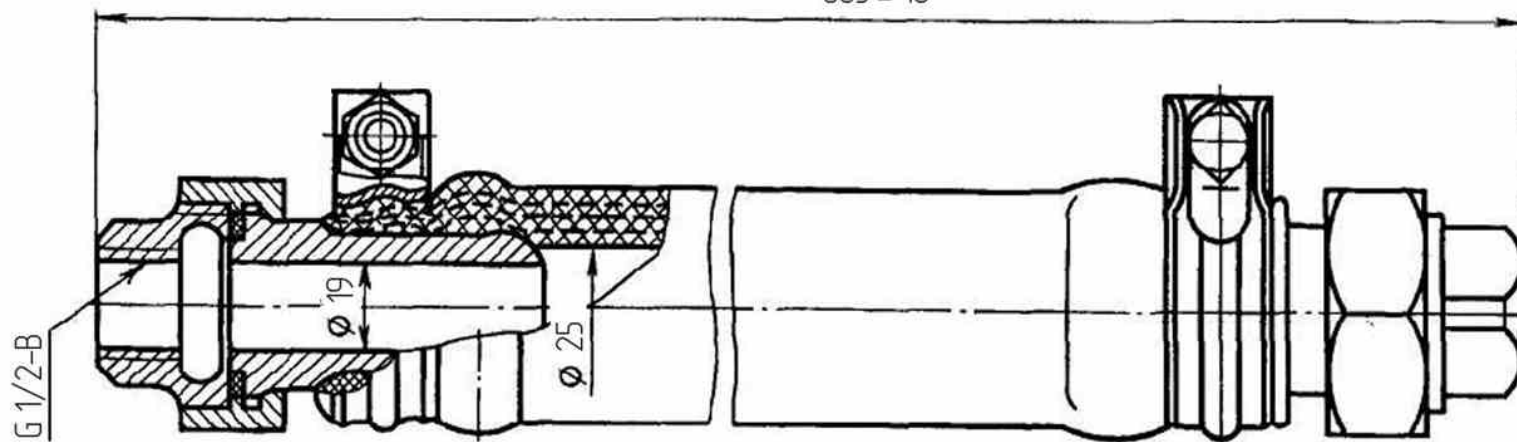


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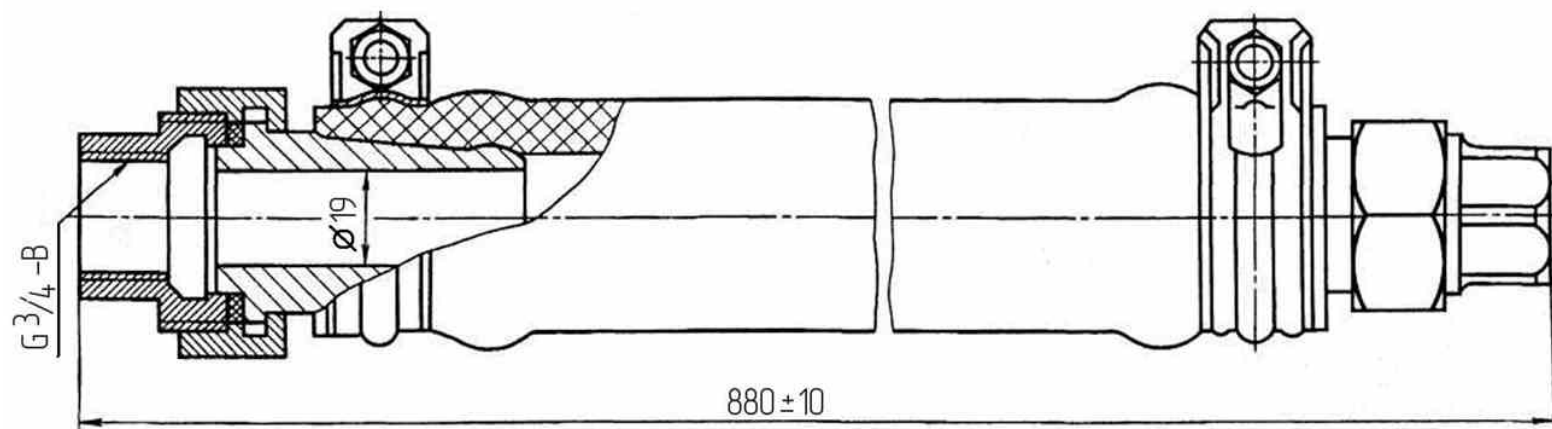


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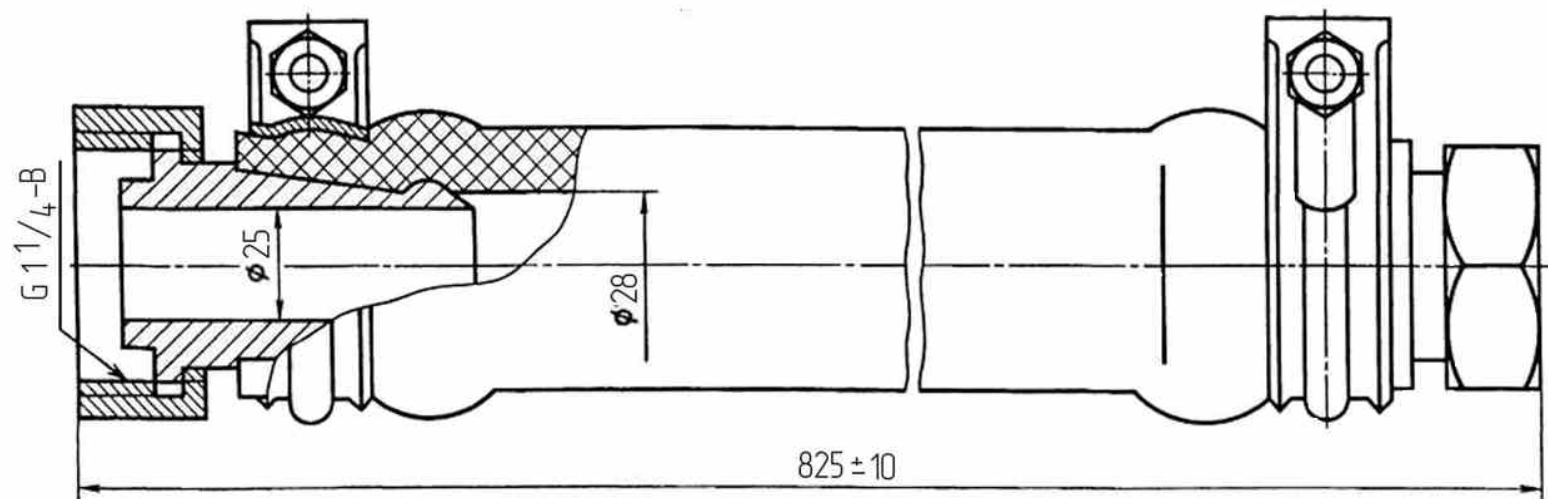
885 ± 10



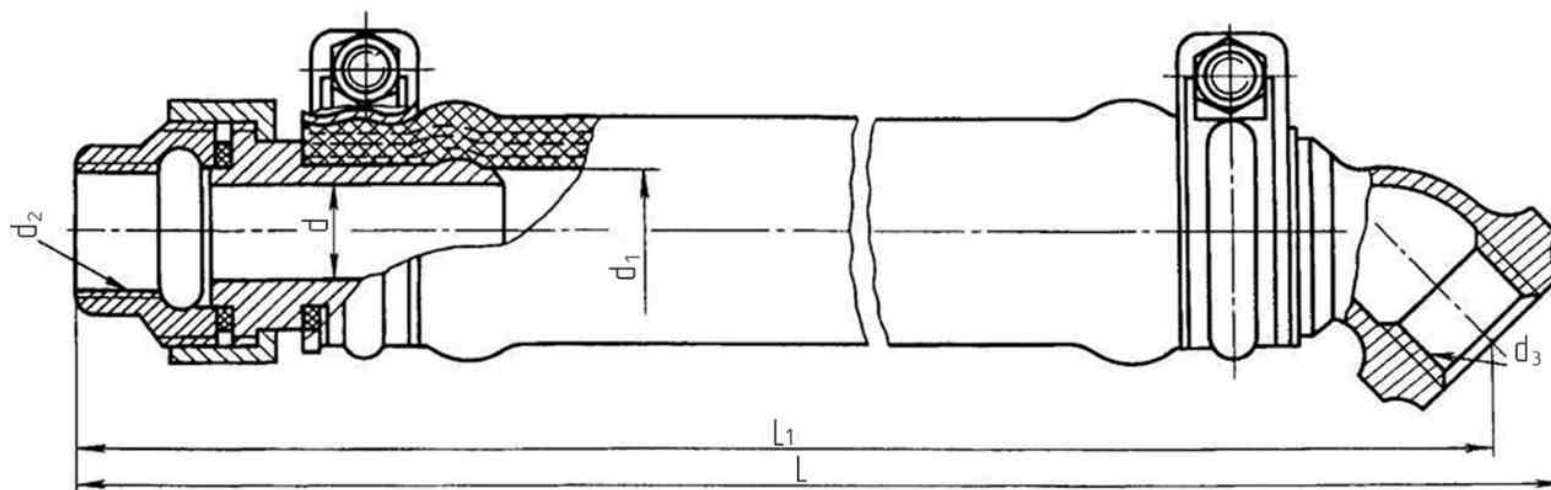
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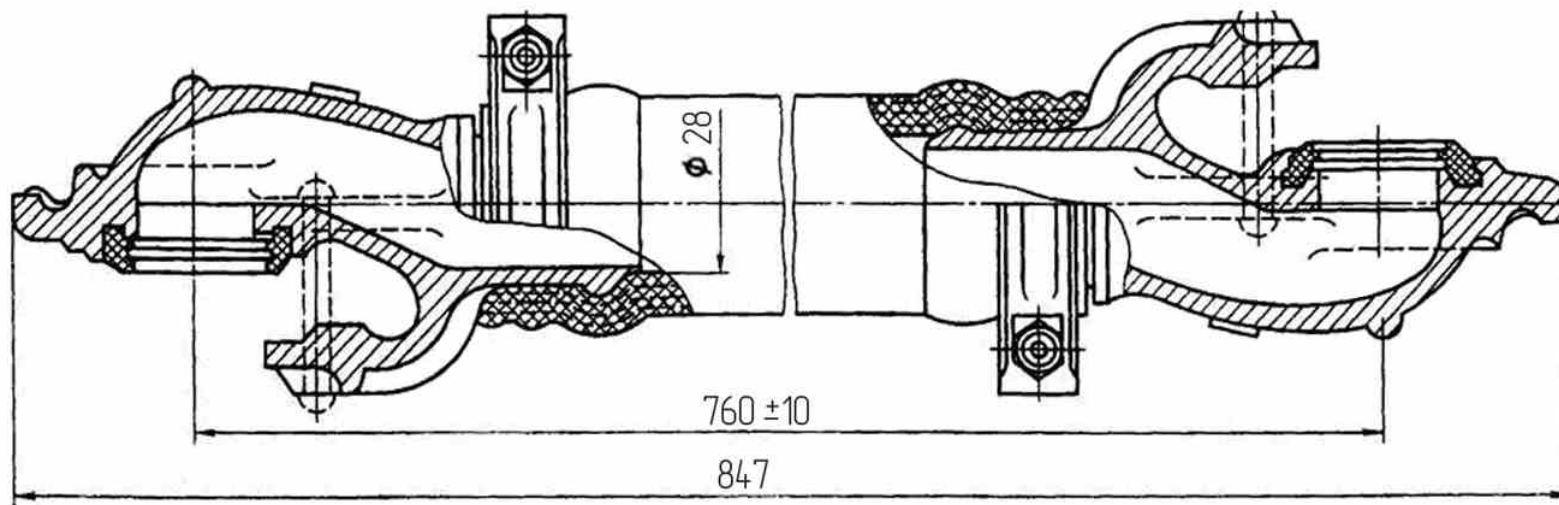
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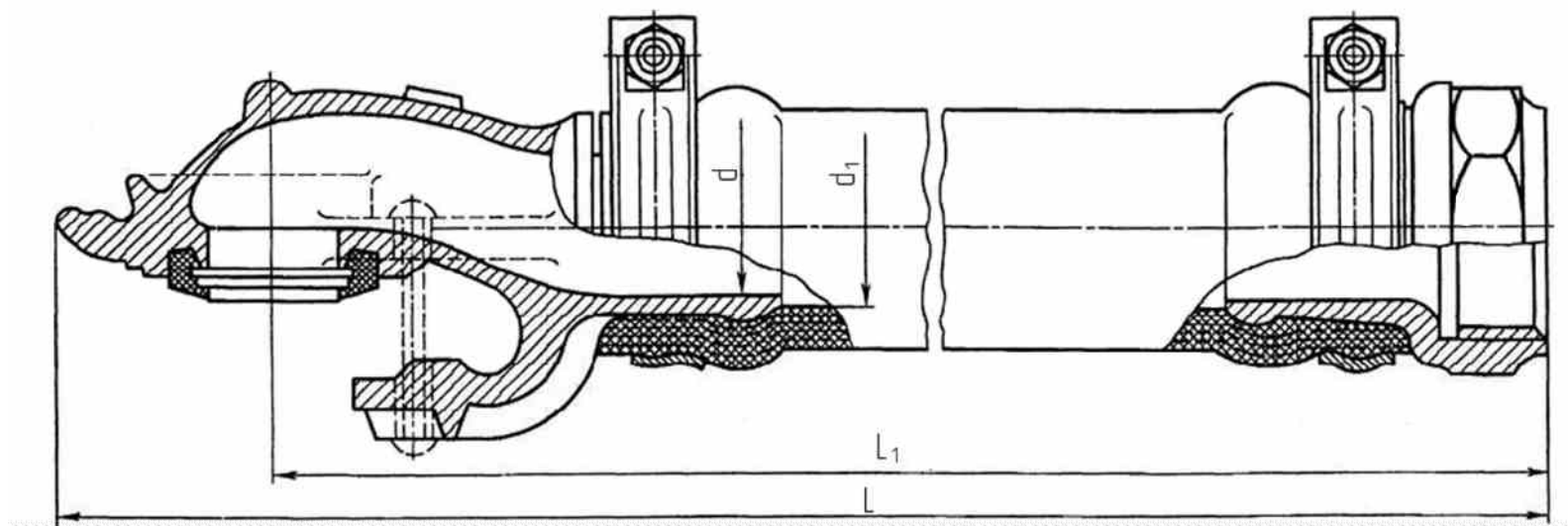
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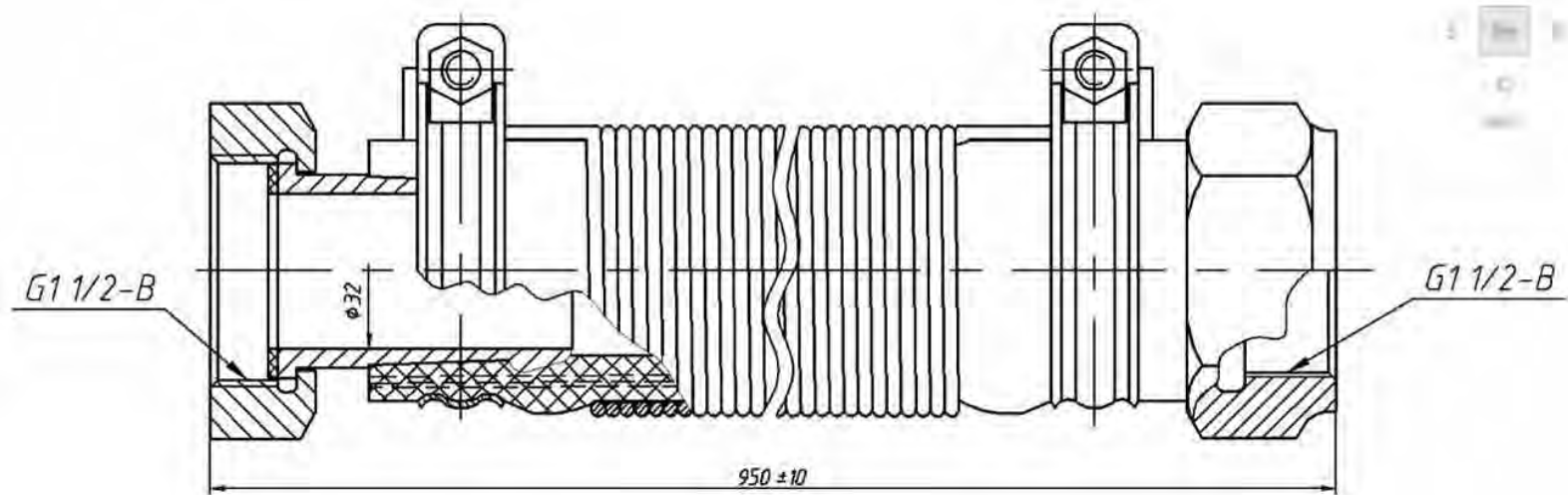
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2.10.4.9



2.10.4.10



2.10.4.11

3. 

3.1

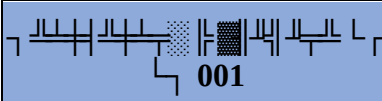
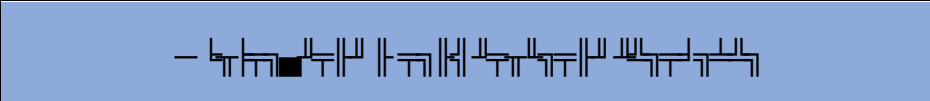
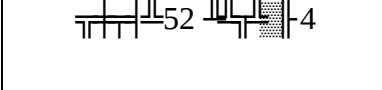
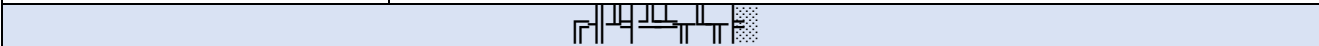
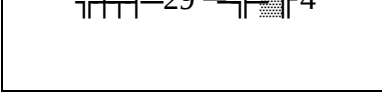
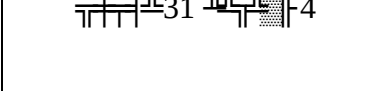
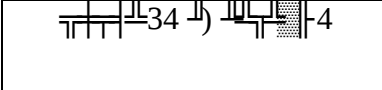
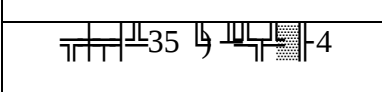
3.1.1 $(\mathcal{C}_1, \mathcal{C}_2)$

3.1.1.1.

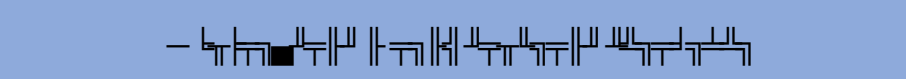
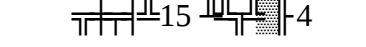
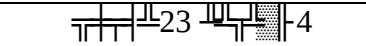
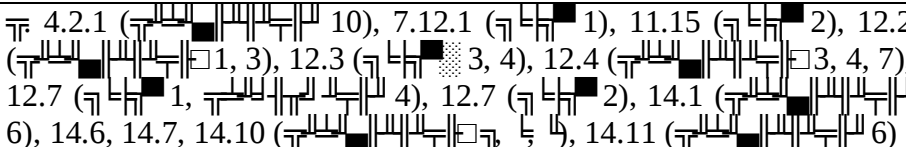
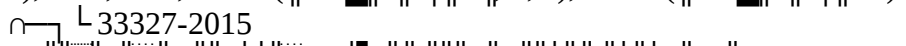
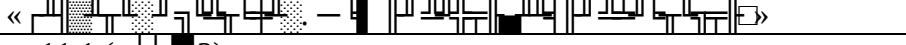
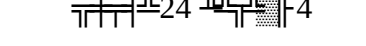
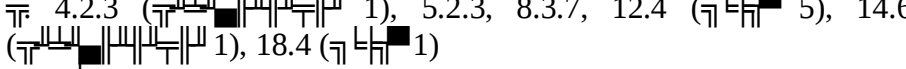
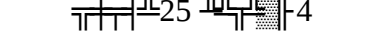
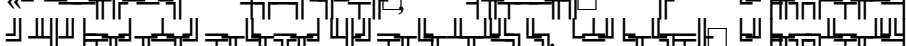
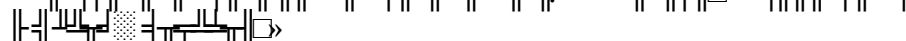
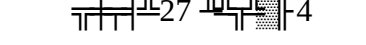
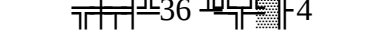
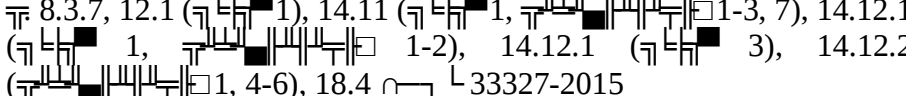
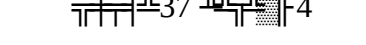
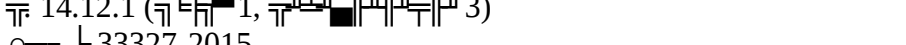
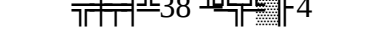
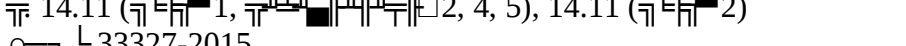
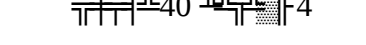
| σ | $\int \frac{1}{x} dx$ | $\int \frac{1}{x} dx$ | $\int \frac{1}{x} dx$ |
|----------|---|--|--|
| 1. | $\int \frac{1}{x} dx = \ln x + C$ 01-98 | $\int \frac{1}{x} dx = \ln x + C$ | $\int \frac{1}{x} dx = \ln x + C$ 07.08.1998 σ 935 |
| 2. | $\int \frac{1}{x} dx = \ln x + C$ 01-98 | $\int \frac{1}{x} dx = \ln x + C$ σ 1 | $\int \frac{1}{x} dx = \ln x + C$ 07.08.1998 σ 935 |
| 3. | $\int \frac{1}{x} dx = \ln x + C$ 01-98 | $\int \frac{1}{x} dx = \ln x + C$ σ 1 | $\int \frac{1}{x} dx = \ln x + C$ 07.08.1998 σ 935 |
| 4. | $\int \frac{1}{x} dx = \ln x + C$ 02-98 | $\int \frac{1}{x} dx = \ln x + C$ σ 1 | $\int \frac{1}{x} dx = \ln x + C$ 07.08.1998 σ 935 |
| 5. | $\int \frac{1}{x} dx = \ln x + C$ 03-98 | $\int \frac{1}{x} dx = \ln x + C$ σ 1 | $\int \frac{1}{x} dx = \ln x + C$ 07.08.1998 σ 935 |
| 6. | $\int \frac{1}{x} dx = \ln x + C$ 04-98 * | $\int \frac{1}{x} dx = \ln x + C$ σ 1 | $\int \frac{1}{x} dx = \ln x + C$ 07.08.1998 σ 935 |
| 7. | $\int \frac{1}{x} dx = \ln x + C$ 05-98 | $\int \frac{1}{x} dx = \ln x + C$ σ 1 | $\int \frac{1}{x} dx = \ln x + C$ 08.10.98 σ 1181 |
| 8. | $\int \frac{1}{x} dx = \ln x + C$ 07-99 | $\int \frac{1}{x} dx = \ln x + C$ | $\int \frac{1}{x} dx = \ln x + C$ 28.07.2000 σ 2122 |

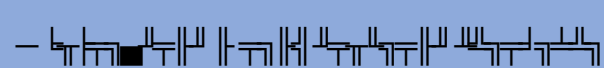
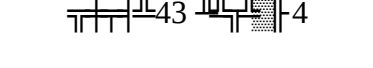
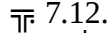
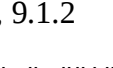
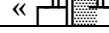
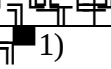
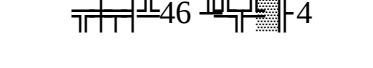
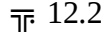
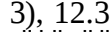
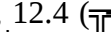
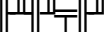
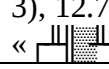
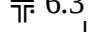
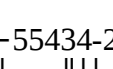
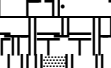
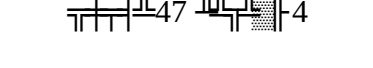
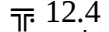
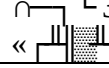
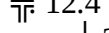
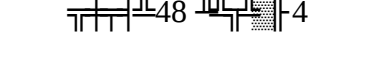
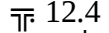
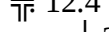
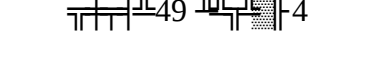
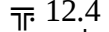
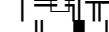
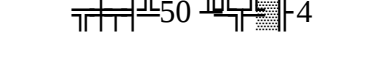
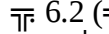
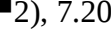
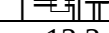
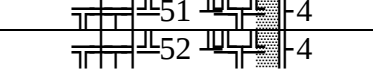
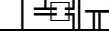
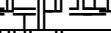
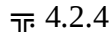
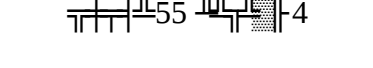
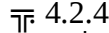
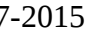
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43 | <p>  7.12.1 ( 4),  8.1.4 ( 3),  9.1.2
 
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49 | <p>  12.4 ( 9)
 
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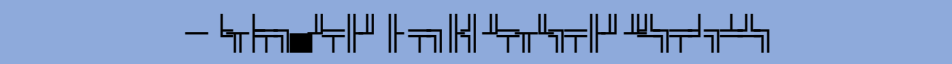
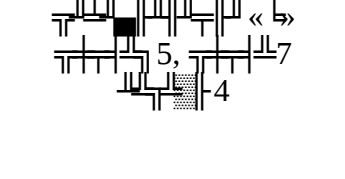
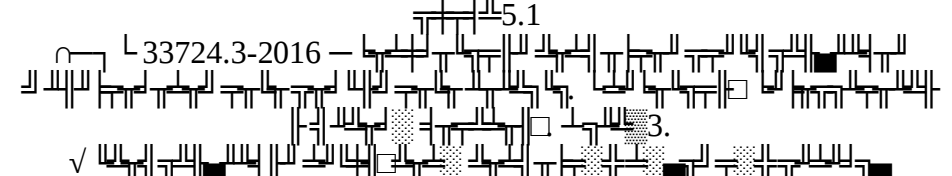
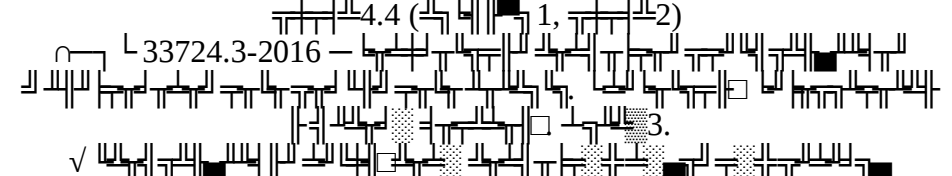
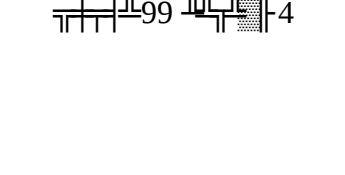
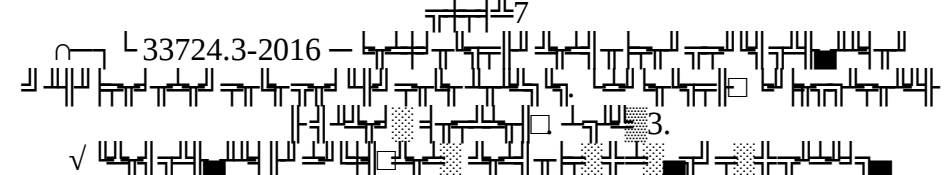
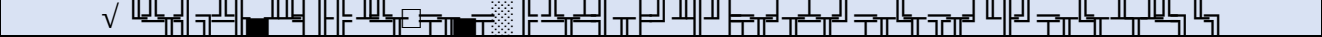
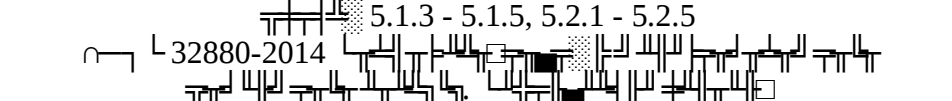
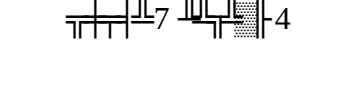
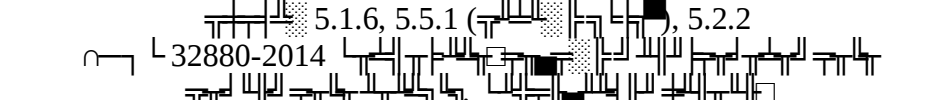
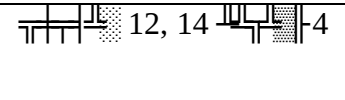
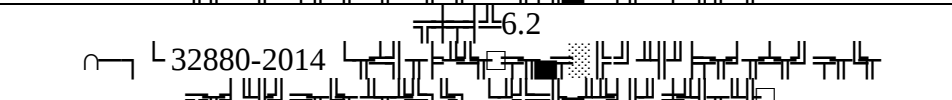
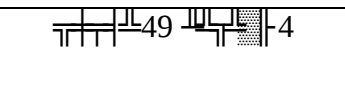
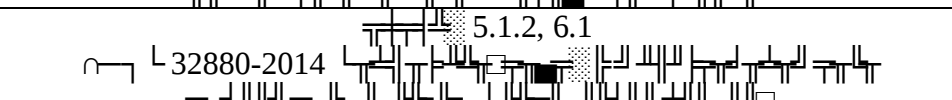
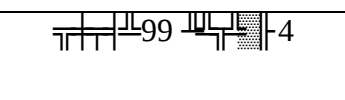
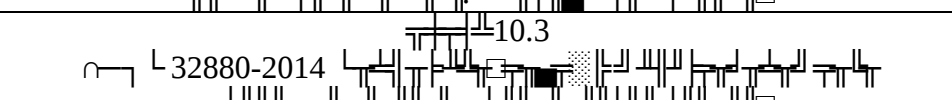
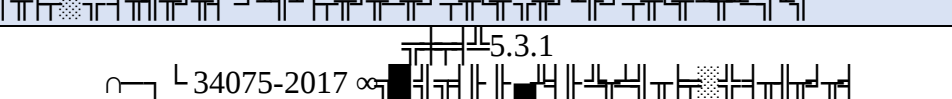
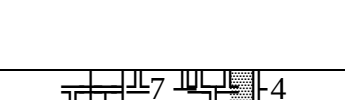
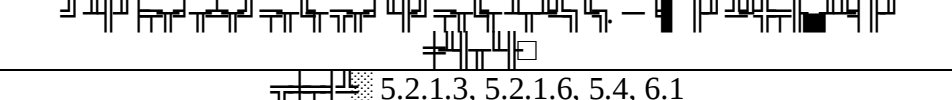
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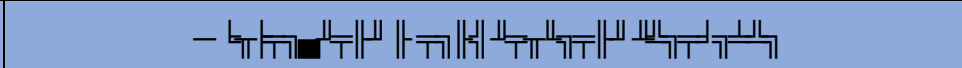
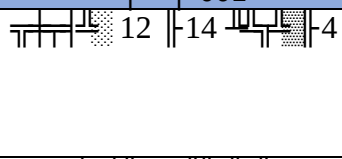
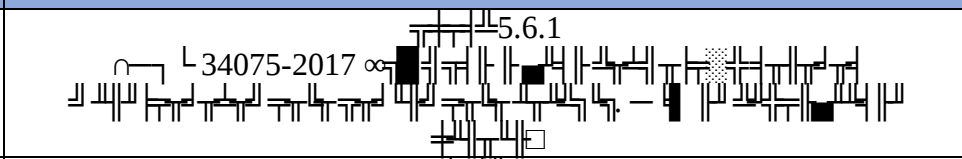
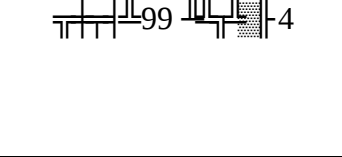
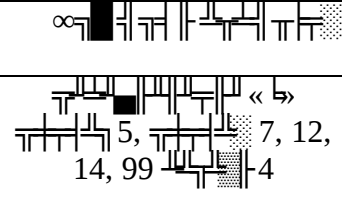
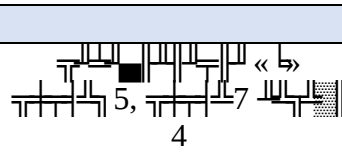
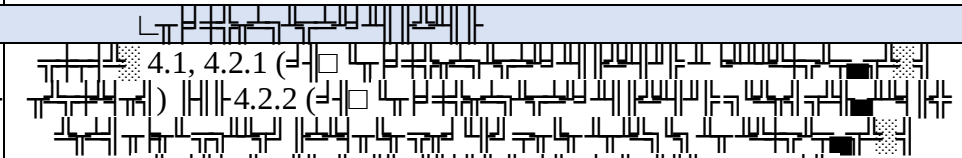
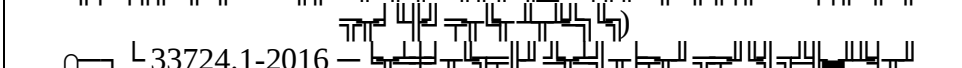
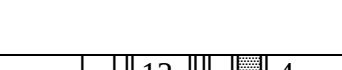
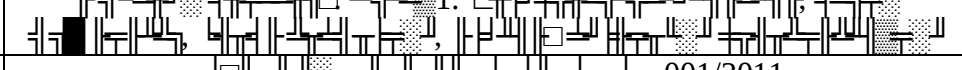
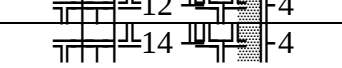
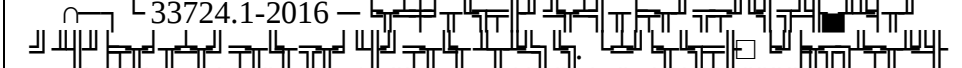
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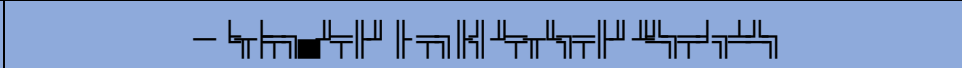
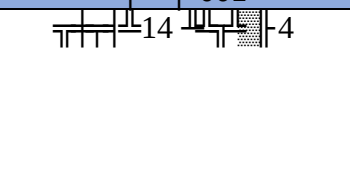
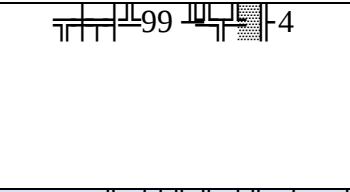
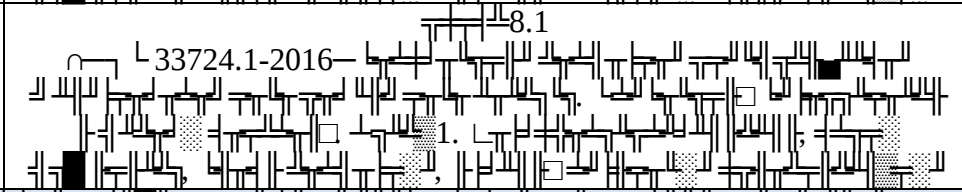
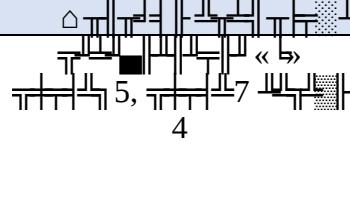
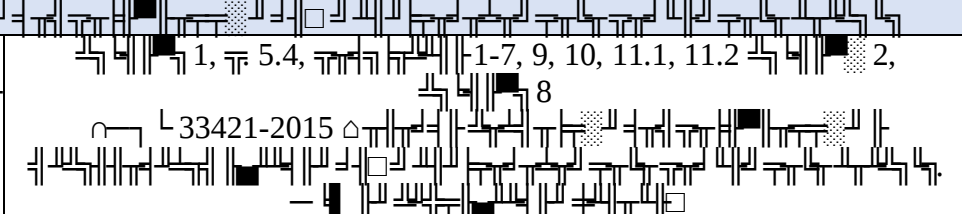
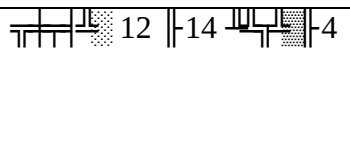
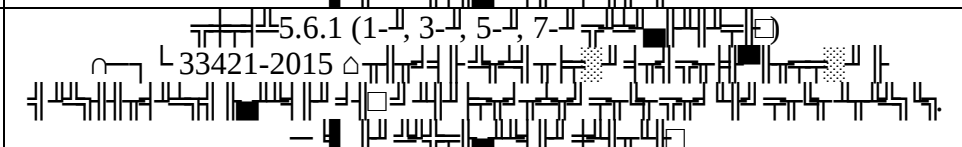
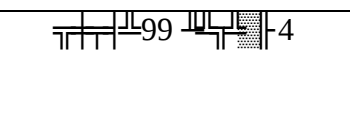
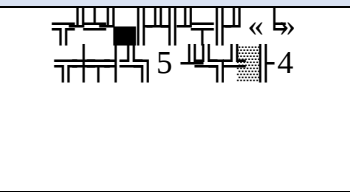
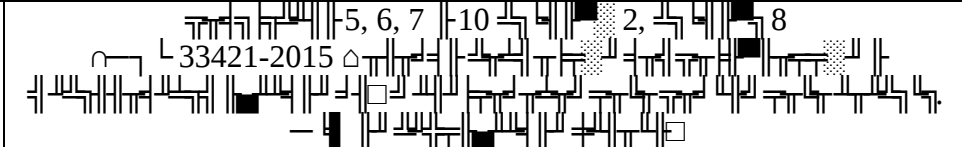
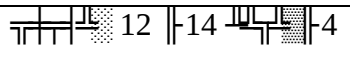
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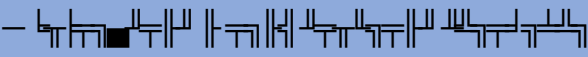
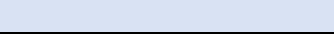
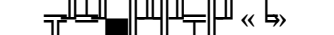
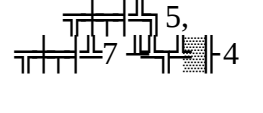
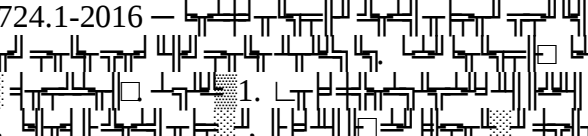
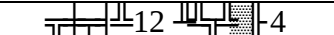
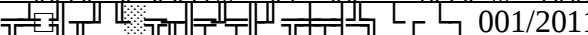
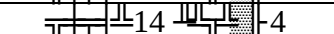
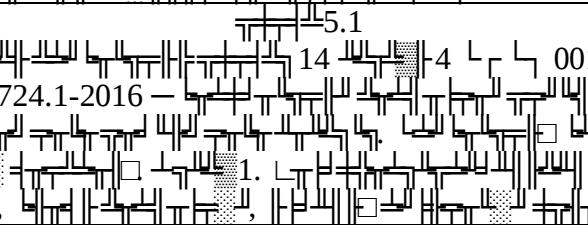
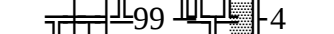
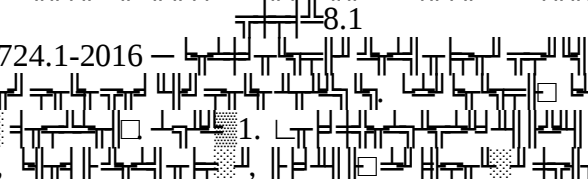
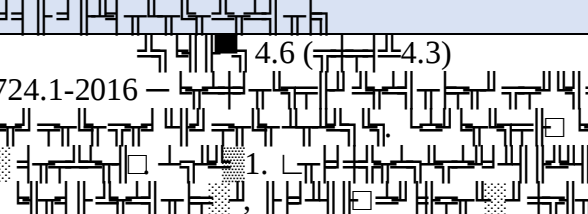
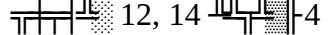
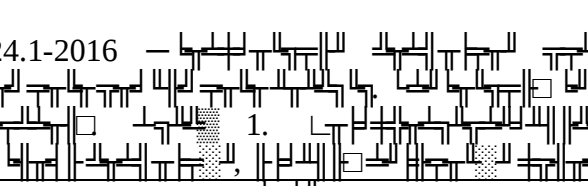
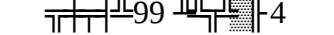
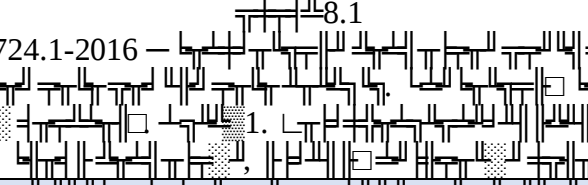
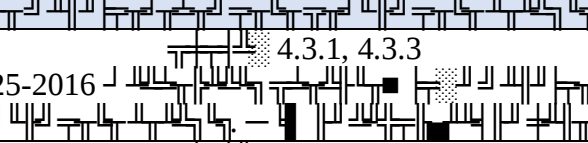
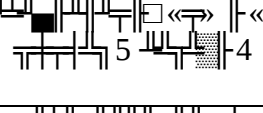
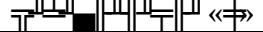
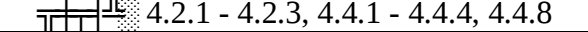
3.1.1.2. $\int_{\infty}^{\infty} \frac{1}{x^2} dx$, $\int_{\infty}^{\infty} \frac{1}{x^2} dx$ « $\int_{\infty}^{\infty} \frac{1}{x^2} dx$ »

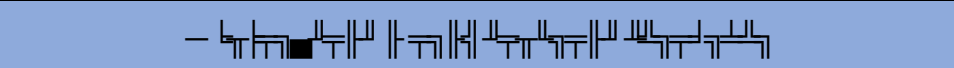
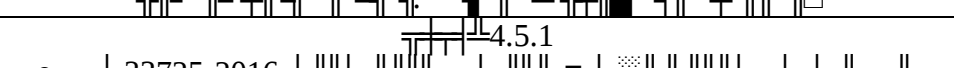
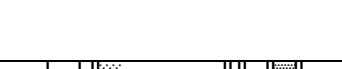
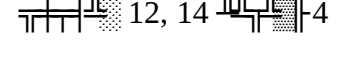
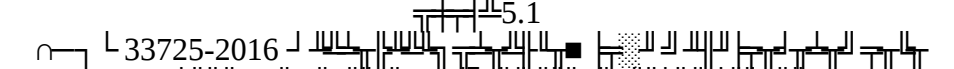
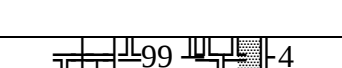
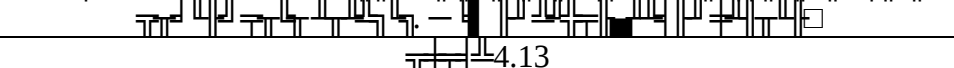
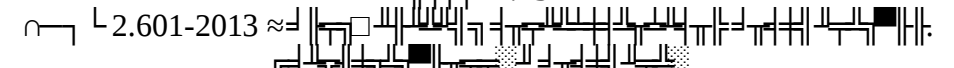
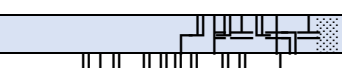
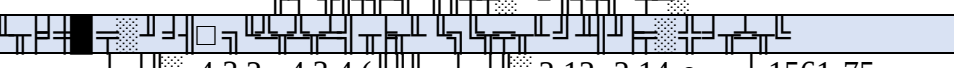
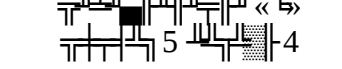
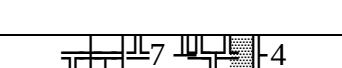
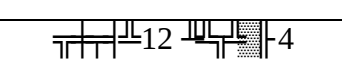
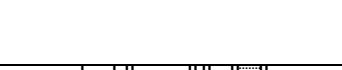
| $\int_{\infty}^{\infty} \frac{1}{x^2} dx$ 001 | $\int_{\infty}^{\infty} \frac{1}{x^2} dx$ |
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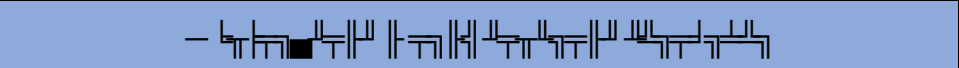
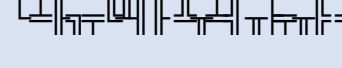
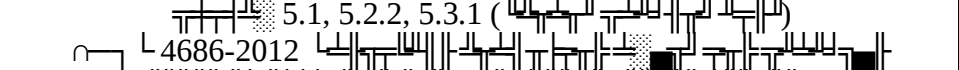
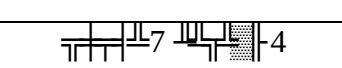
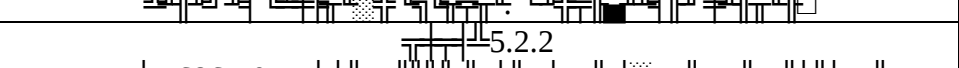
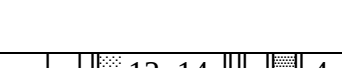
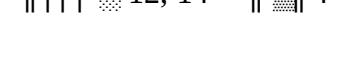
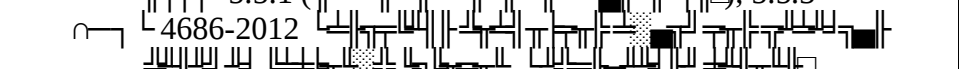
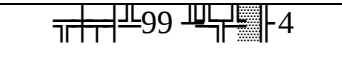
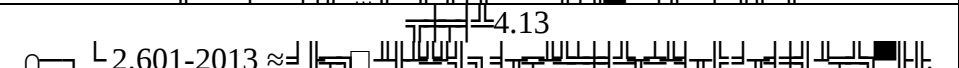
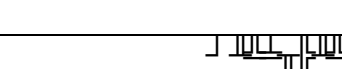
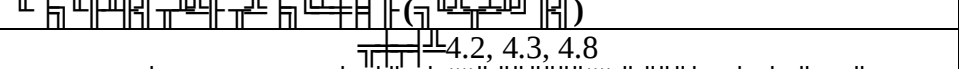
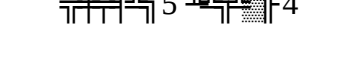
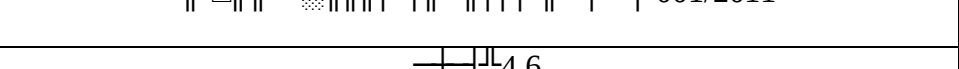
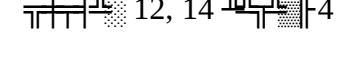
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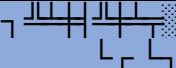
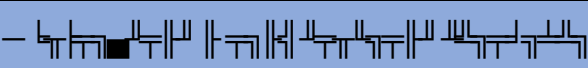
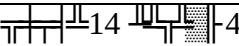
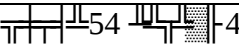
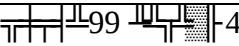
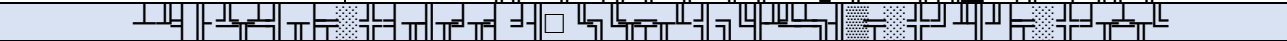
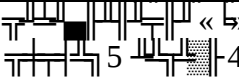
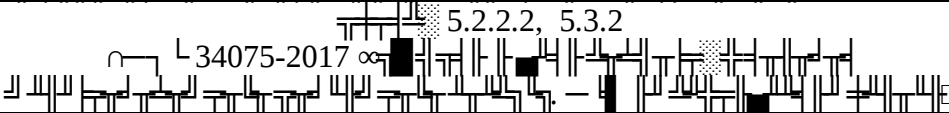
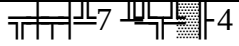
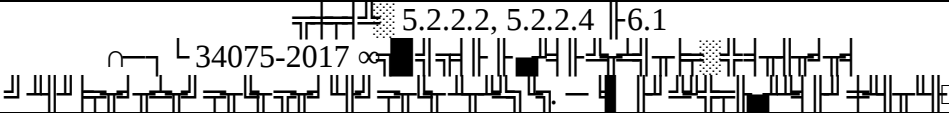
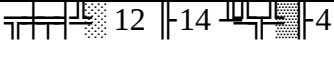
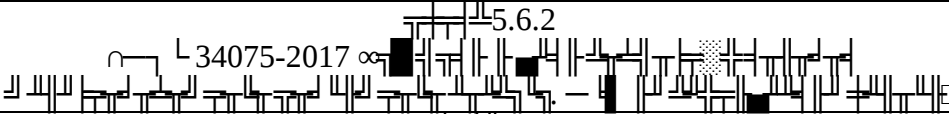
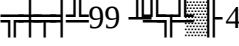
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|  <p>5, 7, 4</p> | - |
|  <p>12, 14, 4</p> | |
|  <p>99, 4</p> | |
|  <p>5, 7, 4</p> |  <p>1 ñ 3, 4.6 (1 ñ 3, 4.2)</p> |
|  <p>12, 14, 4</p> |  <p>001/2011</p> |
|  <p>12, 14, 4</p> |  <p>5.1 (14, 4, 001/2011)</p> |
|  <p>99, 4</p> |  <p>8.1</p> |
|  <p>5, 7, 4</p> |  <p>4.6 (4.3)</p> |
|  <p>12, 14, 4</p> |  <p>5.1</p> |
|  <p>99, 4</p> |  <p>8.1</p> |
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|  <p>5, 4</p> |  <p>4.3.5, 4.3.6</p> |
|  <p>4.2.1 - 4.2.3, 4.4.1 - 4.4.4, 4.4.8</p> |  <p>4.2.1 - 4.2.3, 4.4.1 - 4.4.4, 4.4.8</p> |

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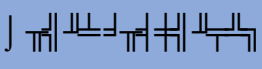
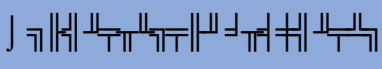
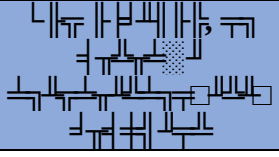
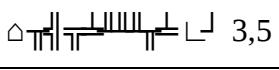
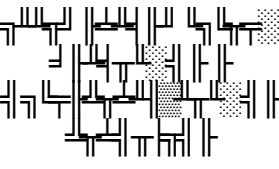
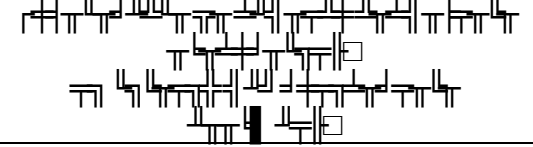
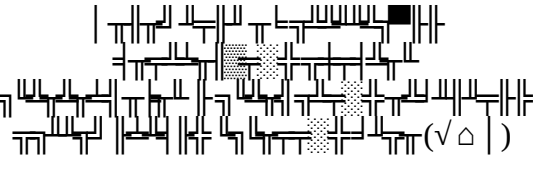
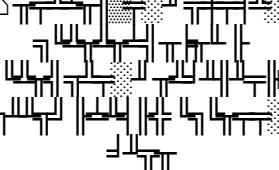
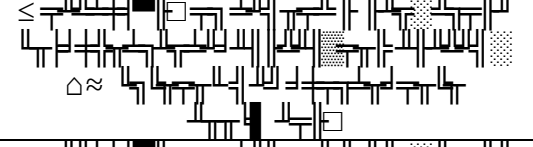
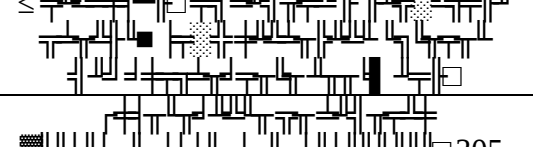
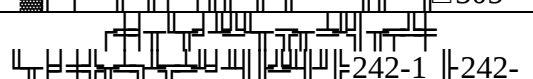
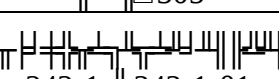
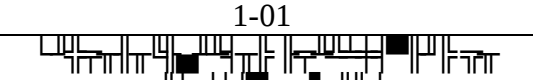
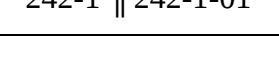
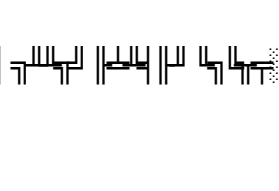
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|  <p>5</p> |  <p>5.1, 5.2.2, 5.3.1 ()</p> |
|  <p>7</p> |  <p>4686-2012</p> |
|  <p>12, 14</p> |  <p>5.5.1 (), 5.5.3</p> |
|  <p>99</p> |  <p>4.13</p> |
|  <p>5</p> |  <p>4.2, 4.3, 4.8</p> |
|  <p>5</p> |  <p>33223-2015</p> |
|  <p>5</p> |  <p>001/2011</p> |
|  <p>7</p> |  <p>4.6</p> |
|  <p>12, 14</p> |  <p>33223-2015</p> |
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|  <p>47</p> |  <p>4.1, 4.4 - 4.7, 4.9</p> |
|  <p>99</p> |  <p>4.13</p> |
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|  <p>7</p> |  <p>3.1.4, 3.4.1</p> |
|  <p>12</p> |  <p>3.5.1</p> |

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р | (Δ-1) | |
| 104.03.00675-
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| 104.03.00676-
2010Δ- | | |
| р 103.11.431-2006 | | |
| р 103.11.429-2006 | | |
| р 015 Δ∞ ТЛ-2007
р | 483√. | 483√.000-01, 483√.010-01. |
| р 008 Δ∞ ТЛ-2009
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| $\Gamma 002 \mid \Delta^\infty \text{T L-97}$
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| $\Gamma 003 \mid \Delta^\infty \text{T L-2008}$
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| $\Gamma 016 \mid \Delta^\infty \text{T L-2008}$
$\Gamma \Delta$ | | |
| $\Gamma 004 \mid \Delta^\infty \text{T L-2008}$
$\Gamma \Delta$ | | |
| $\Gamma 005 \mid \Delta^\infty \text{T L-2000}$
$\Gamma \Delta$ | | |
| $\Gamma 017 \mid \Delta^\infty \text{T L-2008}$
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| $\Gamma 007 \mid \Delta^\infty \text{T L-2009}$
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| $\Gamma 009 \mid \Delta^\infty \text{T L-2008}$
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| $\Gamma 010 \mid \Delta^\infty \text{T L-2009}$
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| $\Gamma 018 \mid \Delta^\infty \text{T L-2008}$
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| $\Gamma 019 \mid \Delta^\infty \text{T L-2008}$
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| $\Gamma \Delta$ 103.11.316-2003 | | |
| $\mid \Delta^\infty \text{T L-25.0124}$ | | |
| $\Gamma 011 \mid \Delta^\infty \text{T L-2001}$
$\Gamma \Delta$, $\Gamma 013 \mid \Delta^\infty \text{T L-2001}$
$\Gamma \Delta$ | | |
| $\Gamma \Delta$ 103.11.322-200 | | |
| $\Gamma \Delta$ 103.11.318-2004- Γ | | |

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| 043 $\Delta^\infty T^-06$ f |  |  |
| N 215 $T \sqrt{8-73}$ |  |  |
| f 32 $T^-019-03$ |  ($\sqrt{\Delta}$) |  |
| N 211 $\Delta^\infty T^-$ |  $\Delta \approx$ |  |
| No 212 $\Delta^\infty T^-$ |  |  |
| r011 $\Delta^\infty T^-2001$
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| f $\mathbb{L} \equiv 242. r$ |  242-1 242-1-01 |  242-1 242-1-01 |
| T^-297 |  |  |
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3.4 $\int$ $\frac{1}{x^2} dx = -\frac{1}{x} + C$ ($\int \frac{1}{x^2} dx = -\frac{1}{x} + C$)

3.4.1 $\int \frac{1}{x^2} dx = -\frac{1}{x} + C$

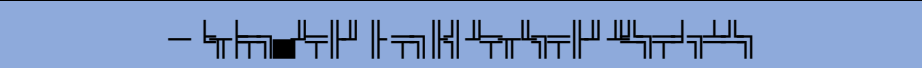
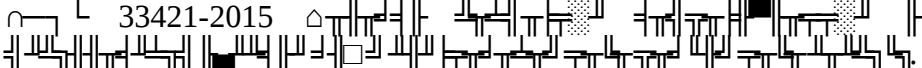
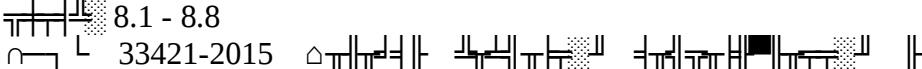
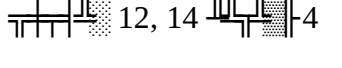
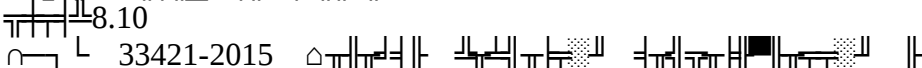
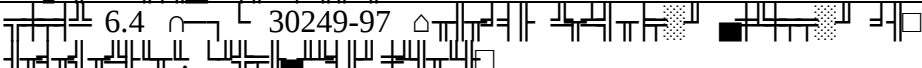
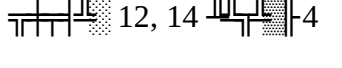
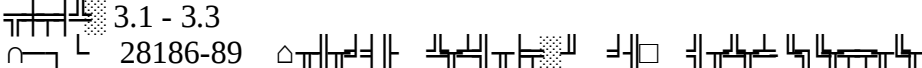
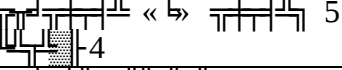
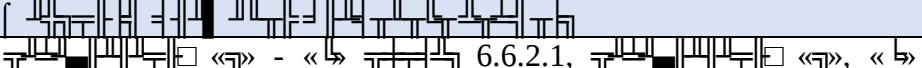
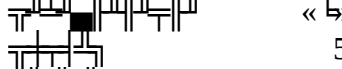
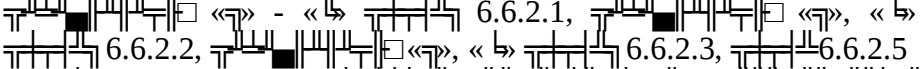
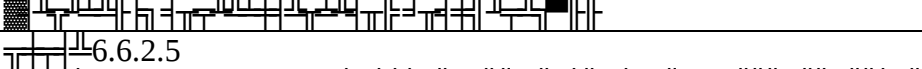
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|---|--|--|
| $\int \frac{1}{x^2} dx = -\frac{1}{x} + C$
T ^L 042-99 | $\int \frac{1}{x^2} dx = -\frac{1}{x} + C$ | $\int \frac{1}{x^2} dx = -\frac{1}{x} + C$
10.12.99 $\int \frac{1}{x^2} dx = -\frac{1}{x} + C$ |
| $\int \frac{1}{x^2} dx = -\frac{1}{x} + C$
T ^L 045-99 | $\int \frac{1}{x^2} dx = -\frac{1}{x} + C$ | $\int \frac{1}{x^2} dx = -\frac{1}{x} + C$
03.03.2000 $\int \frac{1}{x^2} dx = -\frac{1}{x} + C$ |
| $\int \frac{1}{x^2} dx = -\frac{1}{x} + C$
T ^L 052-99 | $\int \frac{1}{x^2} dx = -\frac{1}{x} + C$ | $\int \frac{1}{x^2} dx = -\frac{1}{x} + C$
21.12.99 $\int \frac{1}{x^2} dx = -\frac{1}{x} + C$ |
| $\int \frac{1}{x^2} dx = -\frac{1}{x} + C$
T ^L 071-99 | $\int \frac{1}{x^2} dx = -\frac{1}{x} + C$ | $\int \frac{1}{x^2} dx = -\frac{1}{x} + C$
29.08.2001 $\int \frac{1}{x^2} dx = -\frac{1}{x} + C$
1503 $\int \frac{1}{x^2} dx = -\frac{1}{x} + C$ |
| $\int \frac{1}{x^2} dx = -\frac{1}{x} + C$
T ^L 28-2002 | $\int \frac{1}{x^2} dx = -\frac{1}{x} + C$ | $\int \frac{1}{x^2} dx = -\frac{1}{x} + C$
10.03.2004 $\int \frac{1}{x^2} dx = -\frac{1}{x} + C$
-34 $\int \frac{1}{x^2} dx = -\frac{1}{x} + C$ |
| $\int \frac{1}{x^2} dx = -\frac{1}{x} + C$
T ^L 091-2000 | $\int \frac{1}{x^2} dx = -\frac{1}{x} + C$ | $\int \frac{1}{x^2} dx = -\frac{1}{x} + C$
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425 $\int \frac{1}{x^2} dx = -\frac{1}{x} + C$ |

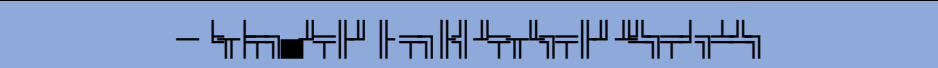
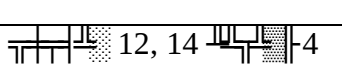
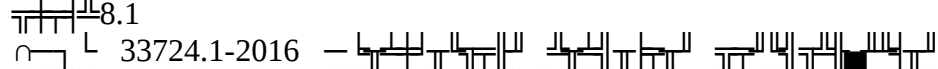
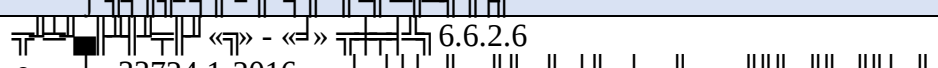
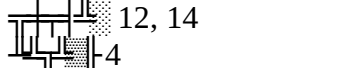
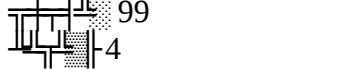
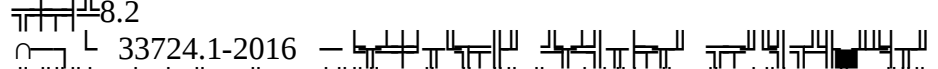
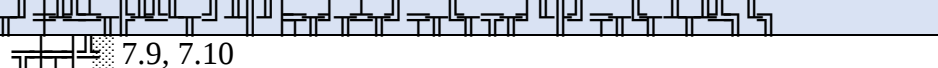
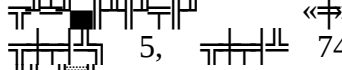
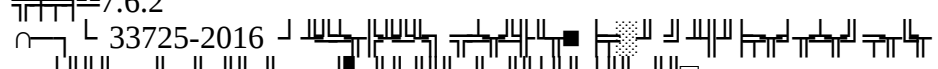
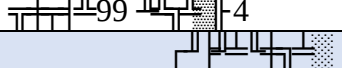
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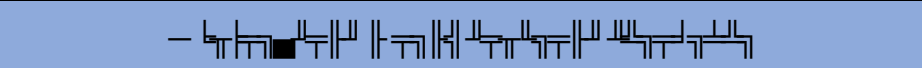
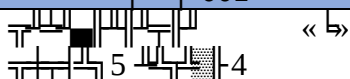
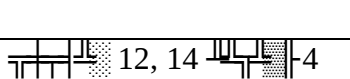
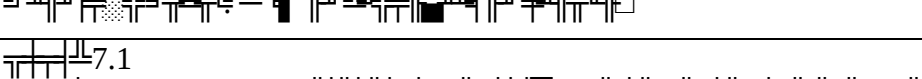
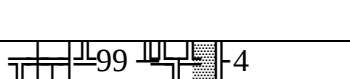
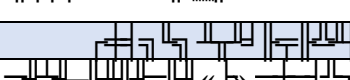
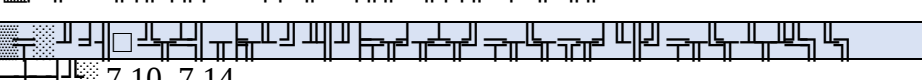
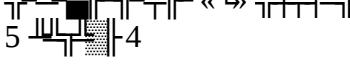
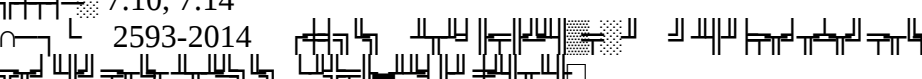
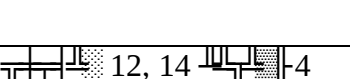
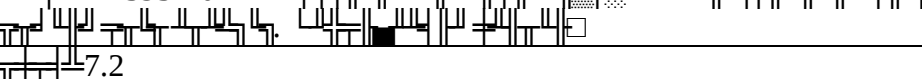
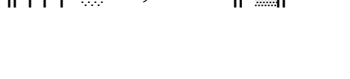
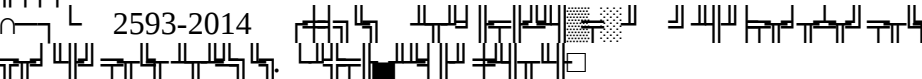
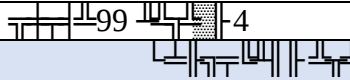
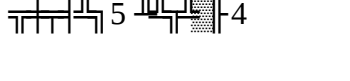
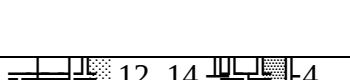
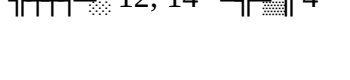
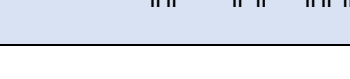
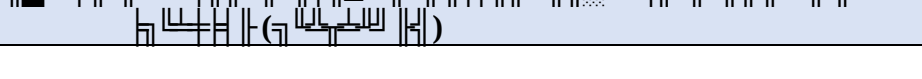
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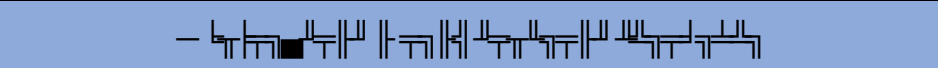
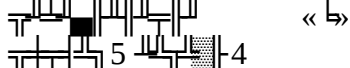
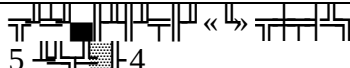
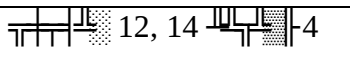
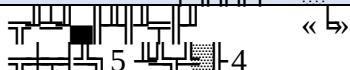
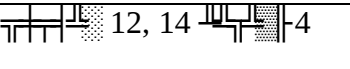
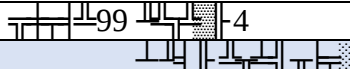
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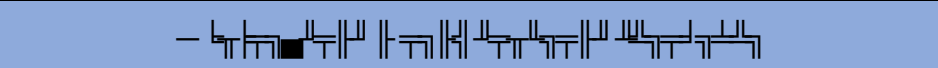
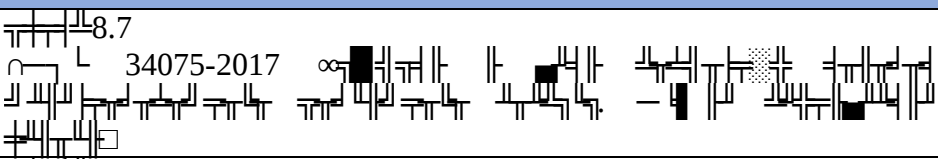
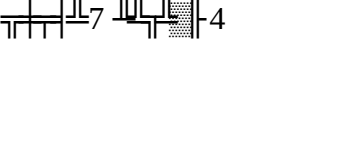
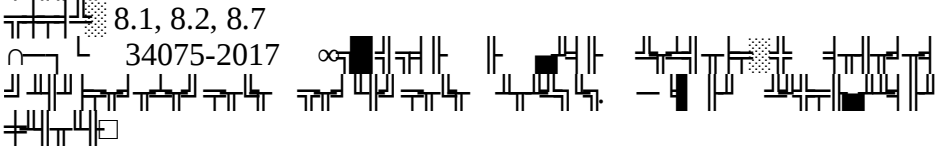
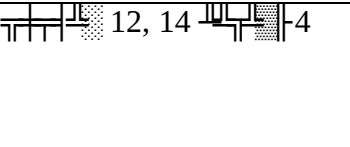
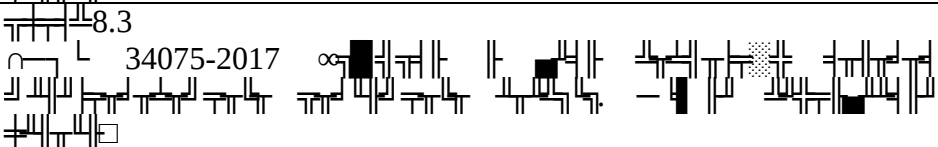
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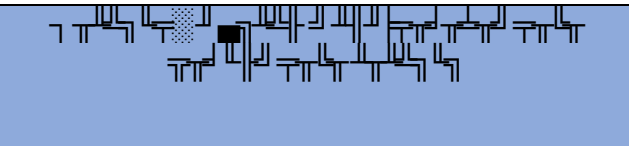
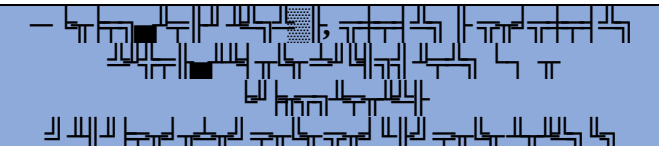
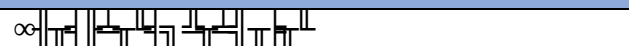
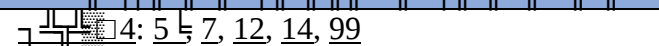
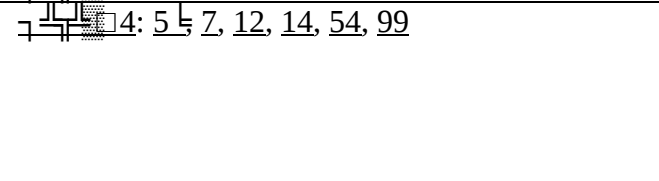
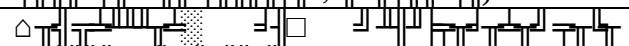
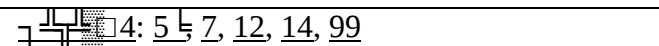
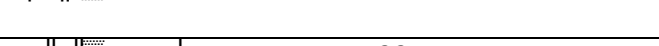
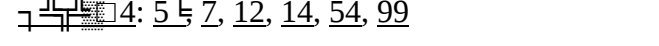
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|  <p>5, 74</p> |  <p>7.7, 7.8, 7.14-7.16</p> <p>33725-2016</p> |
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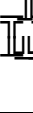
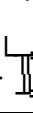
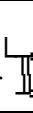
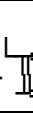
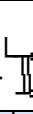
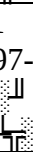
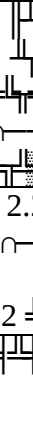
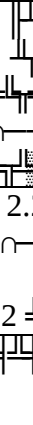
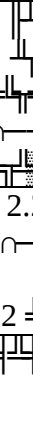
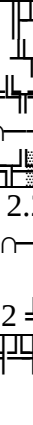
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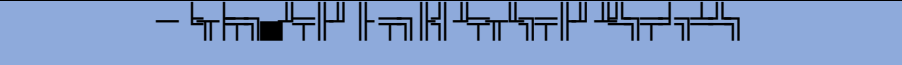
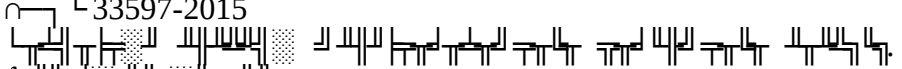
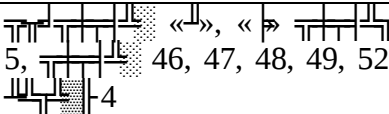
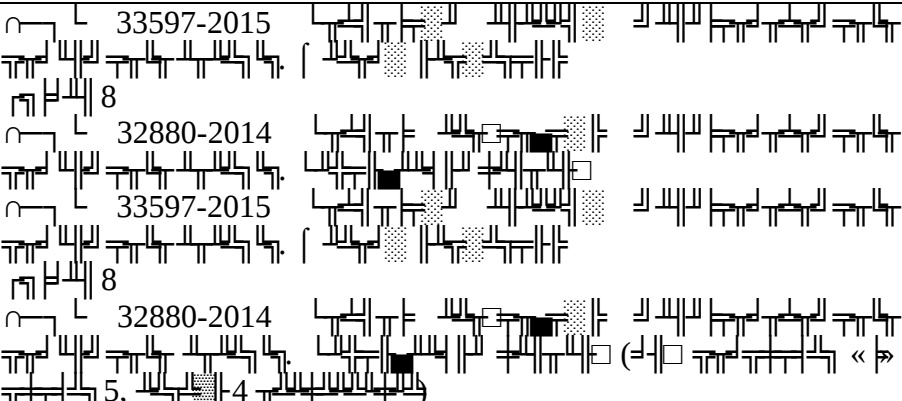
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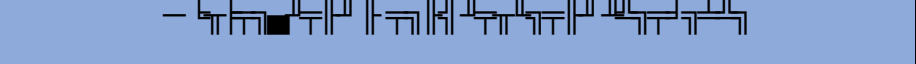
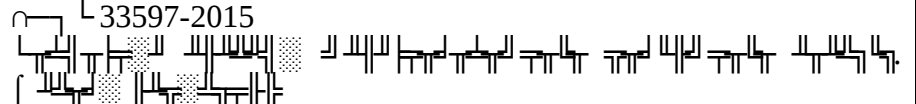
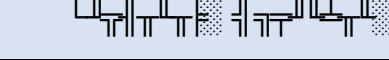
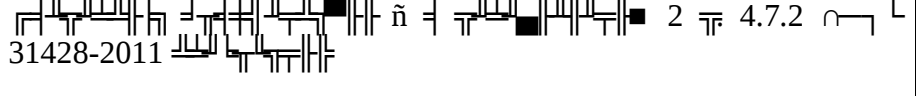
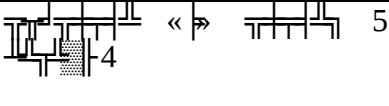
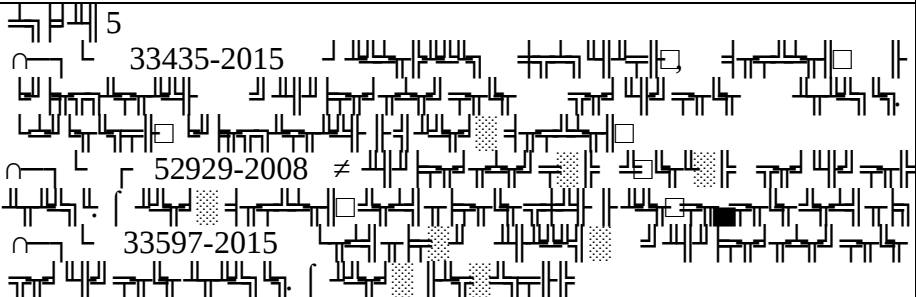
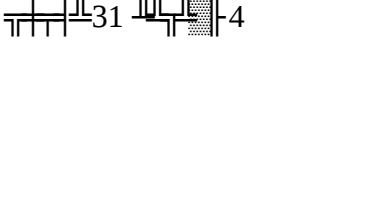
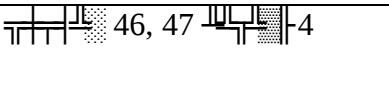
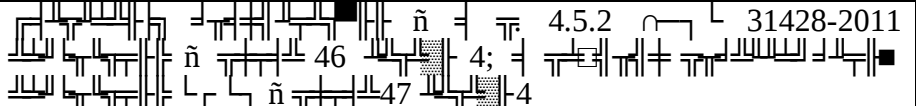
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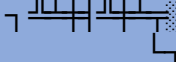
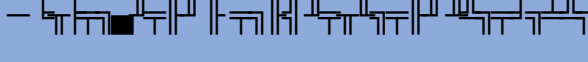
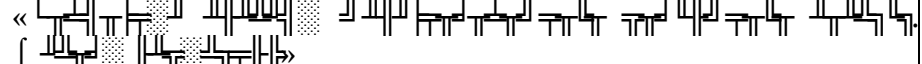
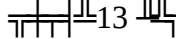
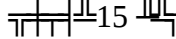
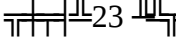
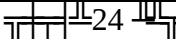
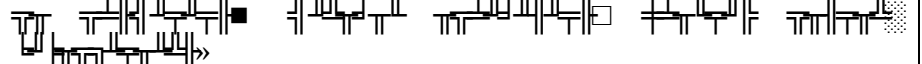
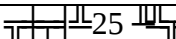
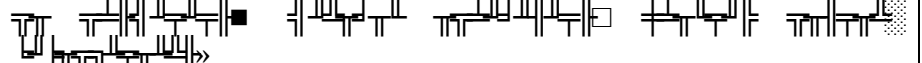
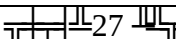
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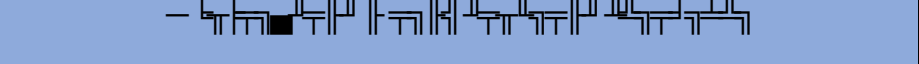
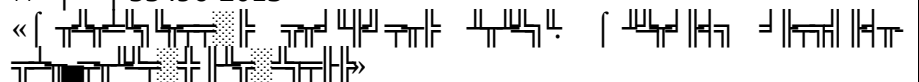
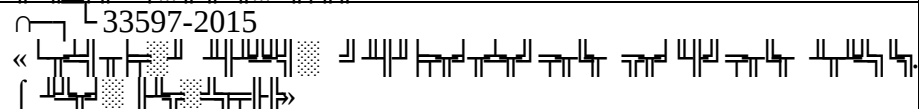
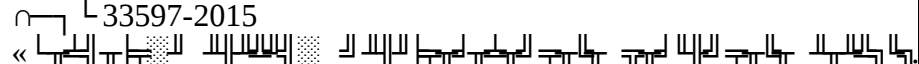
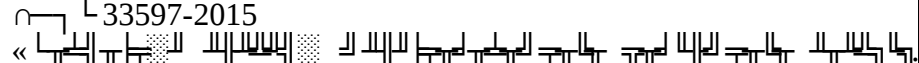
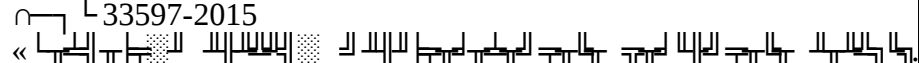
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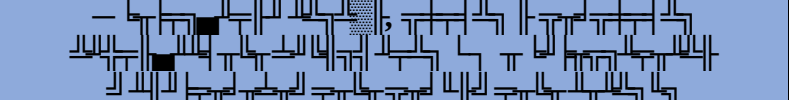
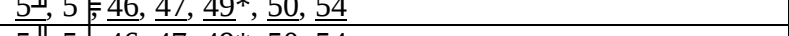
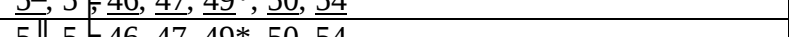
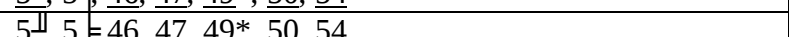
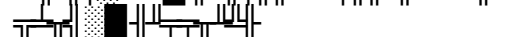
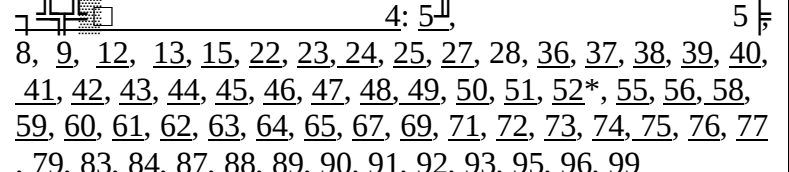
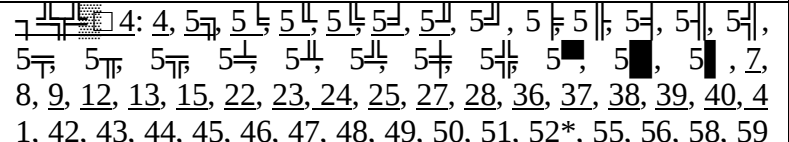
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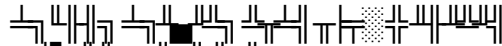
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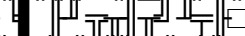
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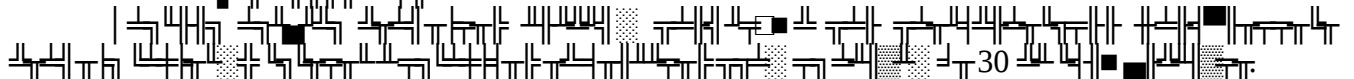
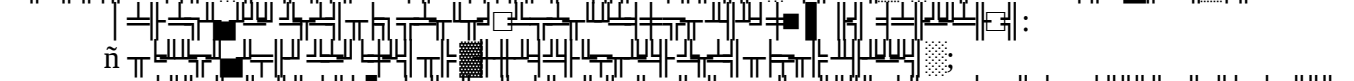
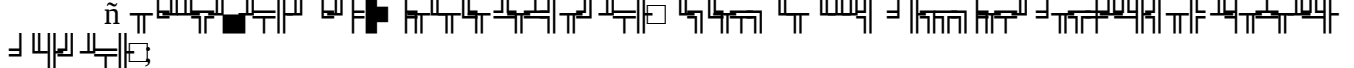
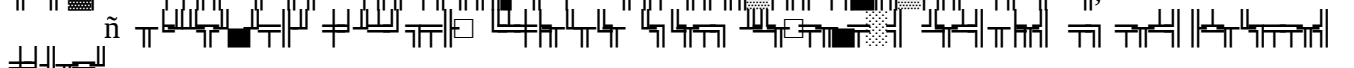
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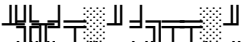
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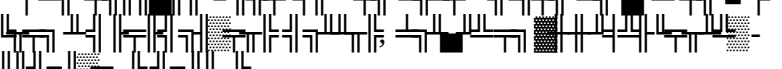
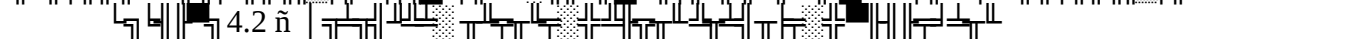
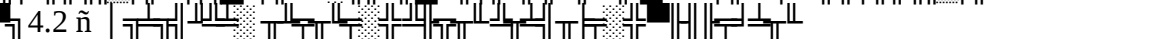
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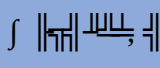
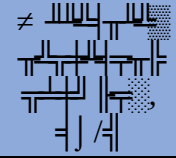
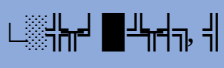
4.2 | 

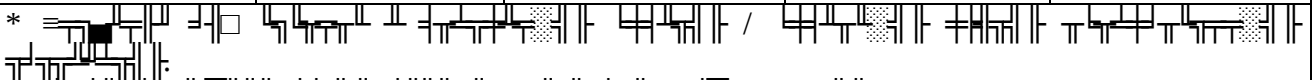
4.2.1 – 

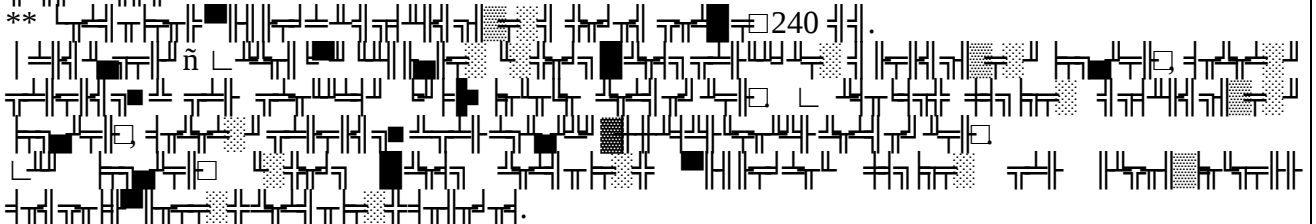
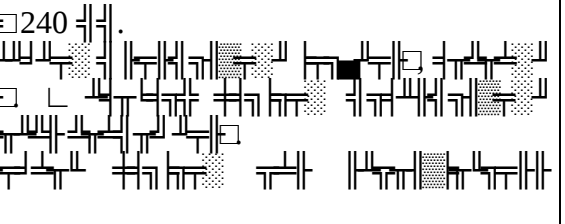
 30 :
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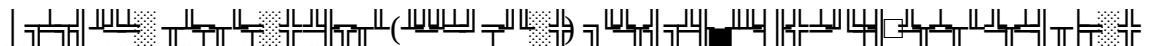
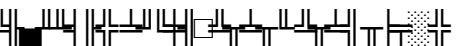
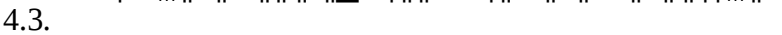
4.2.2 ≤ 

 4.2, 4.3, 4.5, 4.6. ;
 4.2. ;
 4.2 .

|  |  |  |  |  |
|--|--|--|---|--|
| 0,356 (0,402) | 6,45 | 1,560 | 0,98 | 0,050 (0,100) |
| 0,254 | 2,30 | 0,883 | 0,98 | 0,025
(0,065/0,075)* |
| 0,254** | 2,30 | 0,883 | 0,98 | 0,050 (0,100) |

* 

**  240 .

4.2.2.3 |  () 

 4.3.

4.3 ñ |

| (500 = 675) | 1,657 | 22,7 | 0,015 | 0,020 |
|--------------|-------|------|-------|-------|
| (250 = 300) | 0,883 | 20,8 | 0,010 | 0,010 |

4.2.2.4 4.

4.4 ñ

| | 140/180 |
|--|---------|
| | 300/340 |
| | 400/450 |
| | |

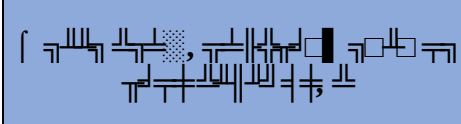
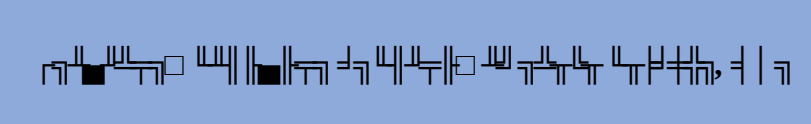
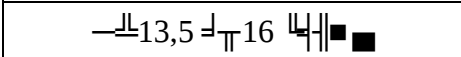
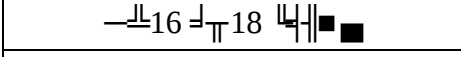
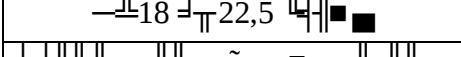
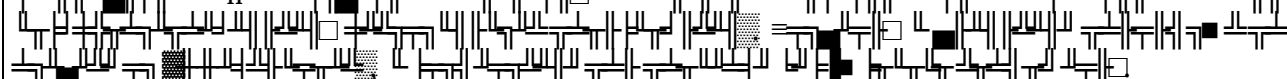
13,5 4.5.

4.5 ñ 13,5

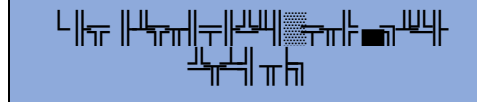
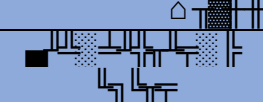
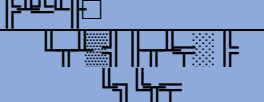
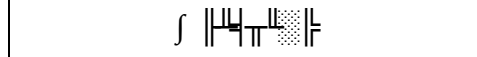
| | 130/160 | 300/340 |
|--|---------|---------|
| | 160/200 | 400/450 |
| | | |

12,5 4.2.2.4. 4.5, 13,5 22,5 4.6.

6 ñ 13,5 22,5

|  |  |
|---|--|
|  | 150/170 |
|  | 180/200 |
|  | 210/230 |
|  | |

22,5 4.1.2.3 4.1.2.4. 4.5 4.6, 4.7.

|  | | | |
|--|---|--|---|
|  |  |  |  |
|  | 0,95 | 0,80 | 0,80 |
|  | 0,95 | 0,90 | 0,90 |
|  | 0,95 | 0,95 | 0,95 |

$$\Delta S_L = \frac{\Delta t \cdot v_{\text{ш}}}{3,6}, \quad (4)$$

$$v_{\text{ш}} \tilde{n} \leq \frac{\Delta t}{\Delta v} \leq \frac{1}{\Delta v} \leq \frac{\zeta (b_{\text{ш}} + w_{\text{ш}}) \Delta t}{3600}, \quad (5)$$

$$\zeta \tilde{n} \leq \frac{1}{\Delta v^2}, \quad \text{где } \zeta = 12, 2;$$

$$b_{\text{ш}} \tilde{n} \leq \frac{\Delta t}{\Delta v},$$

$$w_{\text{ш}} \tilde{n} \leq \frac{\Delta t}{\Delta v},$$

$$v_{\text{ш}} \tilde{n} \leq \frac{\Delta t}{\Delta v},$$

$$v_{\text{ш}} \tilde{n} \leq \frac{\Delta t}{\Delta v},$$

$$v_{\text{ш}(n)} = v_{(n-1)} - \frac{\Delta v_{(n-1)}}{2}; \quad (6)$$

$$v_{\text{ш}(n)} \tilde{n} \leq \frac{\Delta t}{\Delta v_{(n-1)}},$$

$$v_{(n-1)} \tilde{n} \leq \frac{\Delta t}{\Delta v_{(n-1)}},$$

$$\Delta v_{(n-1)} \tilde{n} \leq \frac{\Delta t}{\Delta v_{(n-1)}},$$

$$w_{\text{ш}} \tilde{n} \leq \frac{\Delta t}{\Delta v_{(n-1)}},$$

$$q_0, \quad \text{где } q_0 = \frac{34,2 + 0,732v + 0,022v^2}{q_0}; \quad (7)$$

$$w_{\text{ш}} = 5,2 + \frac{34,2 + 0,732v + 0,022v^2}{q_0}; \quad (7)$$

$$q_0, \quad \text{где } q_0 = \frac{27,9 + 0,436v + 0,022v^2}{q_0}; \quad (8)$$

$$w_{\text{ш}} = 6,3 + \frac{27,9 + 0,436v + 0,022v^2}{q_0}; \quad (8)$$

$$q_0, \quad \text{где } q_0 = \frac{9,8 + 0,41v + 0,0016v^2}{q_0}; \quad (9)$$

$$w_{\text{ш}} = 9,8 + 0,41v + 0,0016v^2; \quad (9)$$

$$q_0, \quad \text{где } q_0 = \frac{78,5 + 0,78v + 0,017v^2}{q_0}; \quad (10)$$

$$w_{\text{ш}} = 6,9 + \frac{78,5 + 0,78v + 0,017v^2}{q_0}; \quad (10)$$

$$q_0, \quad \text{где } q_0 = \frac{58,9 + 0,26v + 0,017v^2}{q_0}; \quad (11)$$

$$w_{\text{ш}} = 6,9 + \frac{58,9 + 0,26v + 0,017v^2}{q_0}; \quad (11)$$

$$v \tilde{n} \leq \frac{\Delta t}{\Delta v},$$

$$\delta_{\frac{1}{2}} = \frac{m_{\frac{1}{2}} K_p}{g(T + Q)}; \quad (15)$$

$$\delta_{\frac{1}{2}} = \frac{m_{\frac{1}{2}} K_p}{gT}, \quad (16)$$

$$K_p = 1,22 K_f \frac{0,1 K_f + 20}{0,4 K_f + 20}. \quad (17)$$

$$b_{\pm} \leq 1000 g [\psi_r], \quad (18)$$

$$[\psi_r] = \psi(q_0) \times \psi(v), \quad (19)$$

$$\psi(q_0) = 0,17 - 0,0015 (q_0 - 5), \quad (20)$$

$$\psi(v) = \frac{v + 81}{2,5v + 85,3}, \quad (21)$$

$$\psi(v) = \frac{v + 576}{4v + 605}. \quad (22)$$

$$\begin{aligned}
F_1 \tilde{n} &= \text{...}; \\
F_2 \tilde{n} &= \text{...}; \\
n \tilde{n} &= \text{...}; \\
\eta \tilde{n} &= \text{...}; \\
\varphi_{\text{c}} &= 0,44 \frac{0,1K_{\text{дл}} + 20}{0,4K_{\text{дл}} + 20}. \quad (26)
\end{aligned}$$

$$\begin{aligned}
K_{\text{дл}} \tilde{n} &= \text{...}; \\
K_{\text{дл}} &= \frac{\sum K_{\text{дл}}}{m_{\text{дл}}} \quad (27)
\end{aligned}$$

$$\begin{aligned}
m_{\text{дл}} \tilde{n} &= \text{...}; \\
i &= \frac{1000 \sum K_{\text{дл}} \times \varphi_{\text{дл}} k}{9,81(T + Q)} \times \frac{r}{R}. \quad (28)
\end{aligned}$$

$$\begin{aligned}
&\text{...}; \\
\tilde{n} &= \text{...}; \\
\tilde{n} &= \text{...} \tilde{n} \ 85 \% \text{ ...}
\end{aligned}$$

| | |
|--------------------|--|
| $\triangle \nabla$ | $\int \frac{1}{x} dx = \ln x + C$ |
| | $\sqrt{x}$ |
| 401 | $\int \frac{1}{x} dx = \ln x + C$ |
| 411 | $\int \frac{1}{x} dx = \ln x + C$ |
| 412 | $\int \frac{1}{x} dx = \ln x + C$ |
| 413 | $\leq$ |
| | |
| 408 | $\int \frac{1}{x} dx = \ln x + C$ |
| 444 | $\leq \int \frac{1}{x} dx = \ln x + C$ |
| 443 | $\leq \int \frac{1}{x} dx = \ln x + C$ |
| 453 | $\leq \int \frac{1}{x} dx = \ln x + C$ |
| 450 | $\leq \int \frac{1}{x} dx = \ln x + C$ |
| 446 | $\leq \int \frac{1}{x} dx = \ln x + C$ |
| 402 | $\int \frac{1}{x} dx = \ln x + C$ |
| 445 | $\equiv a \nabla p \nabla a \nabla a$ |
| 447 | $P a \nabla p \nabla p o \nabla p \nabla a \nabla o \nabla p e \nabla a$ |
| | |
| 452 | $\int \frac{1}{x} dx = \ln x + C$ |
| 451 | $O p \nabla \int \frac{1}{x} dx = \ln x + C$ |
| 440 | $O c \nabla a \nabla \int \frac{1}{x} dx = \ln x + C$ |
| 414 | $\int \frac{1}{x} dx = \ln x + C$ |
| | |
| 403 | $\int \frac{1}{x} dx = \ln x + C$ |
| 409 | $O p \nabla \int \frac{1}{x} dx = \ln x + C$ |
| | |
| 404 | $\int \frac{1}{x} dx = \ln x + C$ |
| | $\sqrt{x}$ |
| 405 | $\int \frac{1}{x} dx = \ln x + C$ |
| 406 | $\int \frac{1}{x} dx = \ln x + C$ |
| | |
| 407 | $\int \frac{1}{x} dx = \ln x + C$ |
| | |
| 410 | $\int \frac{1}{x} dx = \ln x + C$ |
| 441 | $\int \frac{1}{x} dx = \ln x + C$ |
| 442 | $\int \frac{1}{x} dx = \ln x + C$ |
| | |
| 448 | $\int \frac{1}{x} dx = \ln x + C$ |
| 449 | $\int \frac{1}{x} dx = \ln x + C$ |
| 455 | $\int \frac{1}{x} dx = \ln x + C$ |