

FORMAT	ZONE	REF. NO.	DESIGNATION.	DESCRIPTION.	QTY	REMARKS
		1		Factory documents.		
		2		Technological instructions.		
		3		on preparation and		
		4	И-252-78.	correction of solution for chromatization with additive "PEEKON"-15.		
		5	И-109-78.	Technical instructions on preparation of paste and sealing compounds.		
		6				
		7		Departmental documents.		
		8	OST3-1928-73.	Varnish coating.		
		9		Classification, sampling and purpose.		
		10	OST92-1111-71.	Standard technical process and solder for soldering of articles. Enamel MC-17.		
		11	Ty 6-10-1012-78.	T-Specifications.		
		12				
		13	Ty 6-10-1291-77.	Varnish H4-134.		
		14	OST4ГО.033.00	Fluxes and solder for soldering.		
		15		Compositions, properties, field of application.		
		16		State documents.		
		17				
		18	GOST792-67	Low carbon quality wire.		
		19		Brass sheets and strips.		
		20	GOST931-78.	Technical specifications.		
		21	GOST1050-74	Design carbon quality steel.		
		22	GOST1051-73	Quality calibrated steel.		
		23				
		24				
		25				
		26				

APPROVED	M VASU	PM6-1C. 00084		
CHECKED				
CONTROLLERATE OF INSPECTION (ICV)		TRACTION RELAY	WEIGHT	SCALE
		List of reference documents	SHT 1	SHTS 3
			6	OF 80

84

ZONE	REF. NO.	DESIGNATION.	DESCRIPTION.	QTY	REMARKS
	27	GOST21930-76	Soldering lead tin at the pins		
	28		Technical specifications		
	29	GOST1908-77	Capacitor paper		
	30		Technical specifications		
	31	GOST2208-75	Brass tapes in general purpose		
	32				
	33	GOST2214-78	Varnished cambric cloth		
	34		Technical specifications		
	35	GOST2773-78	Copper wire, insulated by varnish on oil basis. Technical specifications		
	36				
	37				
	38	GOST2824-75	Electrical insulating board		
	39	GOST6309-73	Cotton swing thread.		
	40	GOST6402-70	Spring washers		
	41	GOST7417-75	Calibrated round steel assortment		
	42				
	43	GOST 9045-70	Coldrolled, low carbon quality.		
	44		steel sheet for cold stamping.		
	45				
	46	GOST9151-75	Enamel grade ГФ-92		
	47	GOST 9754-76	Enamel МГ-12 Technical specifications		
	48	GOST10144-74	Different colours of enamel XB-124		
	49	GOST11025-78	Fine wool felt for electric equipments		
	50		and parts from its		
	51		Technical specifications.		
	52	GOST12172-74	Adhesive of phenol polyvinyl acetal		
	53		Technical specifications.		
	54	GOST18251-72	Adhesive strip on the paper base		
	55	GOST 19904-79	Cold rolled steel sheet assortment		

APPROVED	BY VASU	PM6-1C000BA	
CHECKED		WEIGHT	SCALE
CONTROLLERATE OF INSPECTION (ICV)		TRACTION RELAY	
		List of Reference Documents	
		SHT 2	SHTS 3
		84	17 OF 80

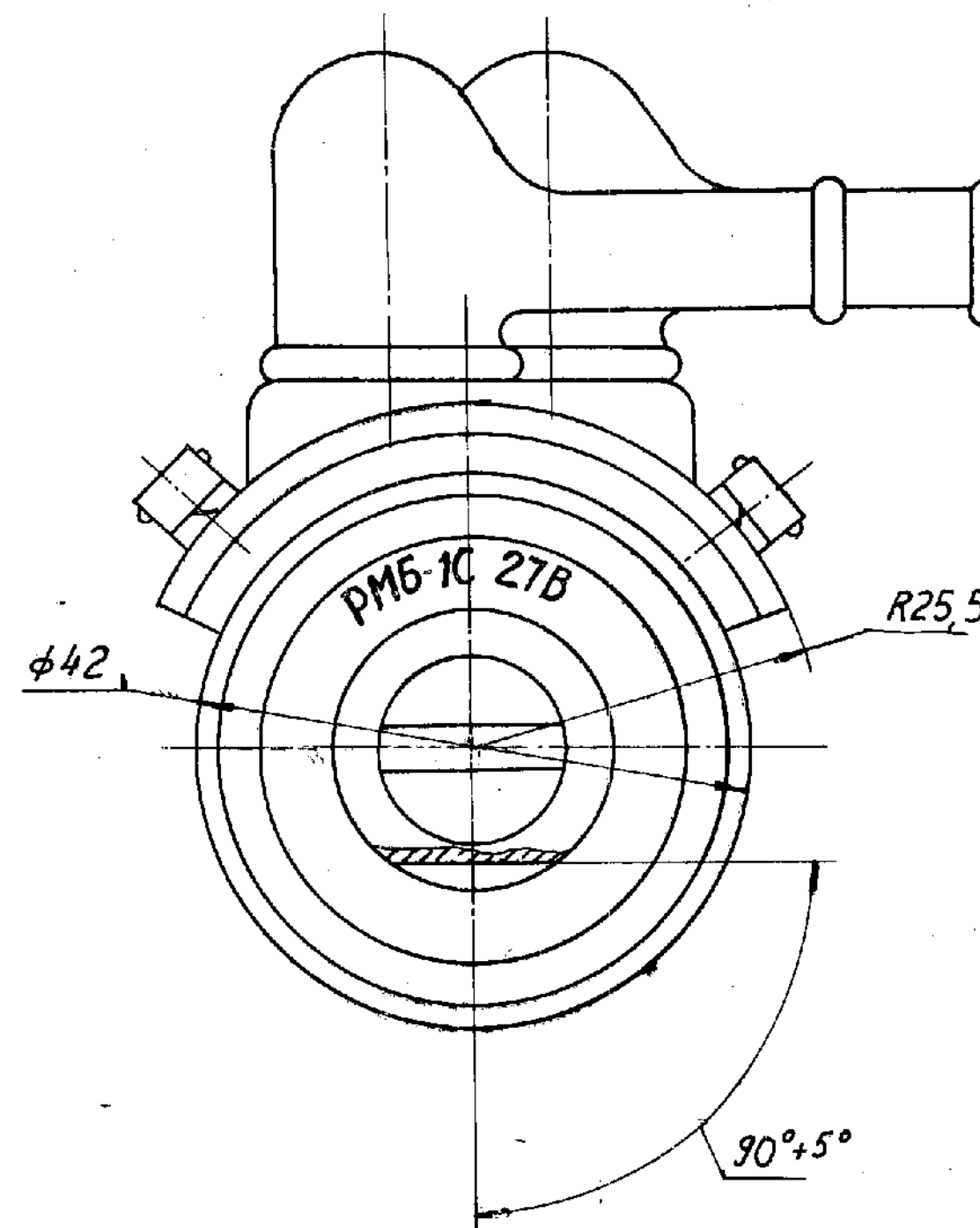
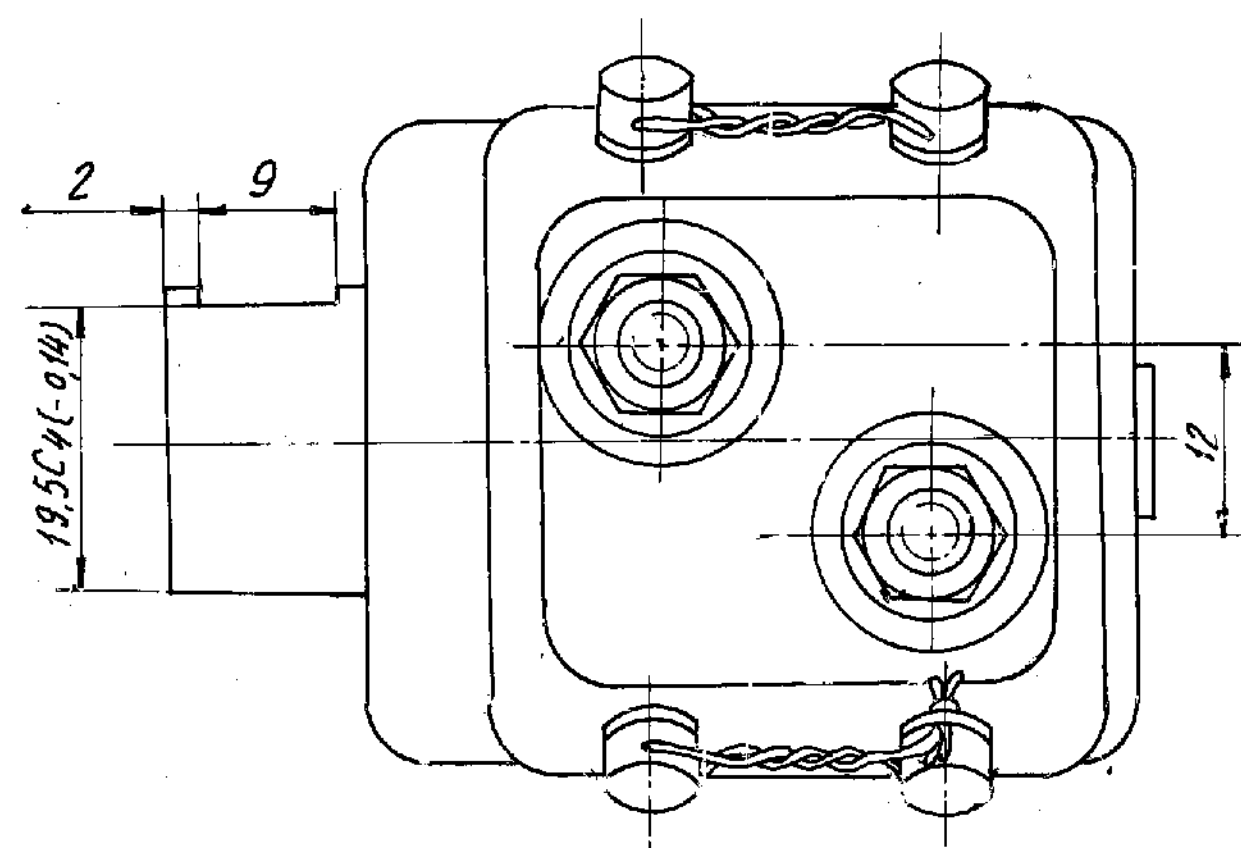
FORMAT	ZONE	REF. NO.	DESIGNATION.	DESCRIPTION.	QTY	REMARKS
		1	GOST9125-74	Copper wire for brushes of electric		
		2		machine.		
		3				
		4				
		5	GOST9614-75	Varnished cotton		
		6		fabric tube for		
		7		insulation.		
		8				
		9	GOST21930-76	Lead-tin soldering bars		Technical
		10		specifications. Rubber tip ends for		
		11	Ty105431-77	the type of parts CT109-86, CA18-66.		
		12		CMC18-48 Technical specifications.		
		13				
		14				
		15	OST B 84-1602-78	Part and assembly unit, of glass ^{made} General		
		16		Technical specifications.		
		17				
		18				
		19	HO.010.007	Letters and symbols for inscription		
		20		on the articles. Sketch, Dimensions, Tolerance		
		21	GOST20437-75.	Press material AF-4. Technical specification.		
		22				
		23				
		24				
		25				
		26				
		27				
		28				

APPROVED	PM6-1C.000B4	
CHECKED	TRACTION RELAY	WEIGHT SCALE
CONTROLLERATE OF INSPECTION (V)	List of Reference Documents	SHT 3 SHTS 3
		8 OF 80

FORMAT	ZONE	REF. NO.	DESIGNATION.	DESCRIPTION.	QTY	REMARKS
*			PM6-1C.000PC	Certificate		*11,32 separate album.
				Assembly units.		
11	1		PM6-1C 020	Coil	1	
11	2		PM6-1C 030	Casing with core.	1	
11	3		PM6-1C 040	Cover.	1	
				Parts.		
12	4		PM6-1C 005	Armature.	1	
11	5		X1 - 9895	Screw	4	
11	6		X2 - 10630	Nut	4	
12	10		CA-18-66	Cap Rubber.	2	

APPROVED	M. VASU	PM6-1C.000	
CHECKED		WEIGHT	SCALE
CONTROLLERATE OF INSPECTION (ICV)		TRACTION RELAY	
		SHT 2 SHTS 3	
		84 45 OF 85	

Rubber end pieces are not shown.



- During installation and operation of relay on article on article, consumer should provide the following.
- a). Protection from falling of dust and sprinkles of water in the place of outlet of armature.
 - b). Setting of armature travel;
 - c). absence of armature specimens.
 - d). absence of armature movement in axial direction when relay is demagnetized and it is under the effect of vibro-impacts loads.

2-601
 146-1C-000 TY
 SA-29/29

APPROVED		PM6-1C-000F4	
CHECKED		TRACTION RELAY OUTLINE DRAWING	WEIGHT SCALE
CONTROLLERATE OF INSPECTION (ICV)			0.5 2:1
		4 OF 80	

RECEIVED COPY



CONTROLLERATE OF INSPECTION
(INFANTRY COMBAT VEHICLES)
SECUNDERABAD

84

37 of 80

Album No. 56.

Technical papers for article

84/OS48711-03- 40007"

Certificate.

0

I-599

RELAY PM6-10

Certificate

PM5-10.000 C.

96

39 OF 80

I-599

Relay RNS-10
Certificate No.

a) Front side

(Certificate is folded along bending line).

44 of 80
15

5-577

1. Main Technical Data
and characteristics

- | | |
|---|---|
| 1.1. Rated voltage | - 27V.
DC. |
| 1.2. Relay force in normal climatic conditions, practically in cold condition at a voltage 24V and with clearance of 1mm between armature and core. | -1.5N, min |
| at voltage 24V and with a
clearance of 1mm between armature and core. | 5.5 kPa, min |
| at voltage 24V and with a
clearance of 1mm between armature and core. | 10N, min |
| 1.3. Coil resistance at 20°C. | 5.9 to 6.9 Ohms. |
| 1.4. Design | dust-proof and splash-proof
with external
armature in outlet place
dust and splash-proofness
of which is provided
by consumer. |
| 1.5. Mode of operation | intermittent (7 trippings
lasting 10s each and
intervals lasting 5 each. |
| 1.6. Connection diagram | double-wire. |
| 1.7. Working position | arbitrary. |
| 1.8. Mass | 0.5kg max. |

Bending line



410F80

1-599

2. Delivery set

- 2.1. Relay FM6-1C - 1 piece.
- 2.2. Certificate - 1 piece

3. Acceptance Certificate

Relay corresponds to technical requirements FM6-1C.0001 and found fit for service.

TID -----

Customer's representative -----

4. Guarantee

Guarantee period of relay is 500 operating hours of main engine for 6000 or 8000km of run in accordance with the guarantee for vehicle.

Storage period of relay. Preserved as per GBT B3-2381-74 should not exceed 5 years when stored in warehouses of customer or 8 years when packed in airtight covers as per GBT B3-2381-74.

Notes: 1. Relay is not to be sealed.

2. Relay is installed instead of relays.

PM -1 and PM-6.

Note: Corrections in certificates published by printing method, are to be agreed with customer's representative.

39

42 OF 80

I-599

Back Side

5. Preservation

Relay RM6-10 is preserved with oil X-17 GOS 10200-10 for
interplant transportation; oil X-17 for storage in warehouses;
in air-tight cover for long-time storage in warehouses:

(Cross out useless record).

Preservation period: 6.5-10 years
(cross out useless data).

Date of preservation _____

P.O. _____

(47)

S.No	Designation Обозначение	Non-English Наименование	K43a Bxodum Incorporated in		Qty	Total Qty	Remarks Примечание
1		Armature					
2	5TB 612005	Якорь	5TB 612005	1	1		
3	5TB 613005	Якорь	5TB 613005	1	4		
4		Stop					
5	5TB 638002	Стол	5TB 730005	1	1		
6		Frame					
7	5TB 730004	Каркас	5TB 520062	1	1		
8	5TB 730005	Каркас	5TB 730004	1	1		
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							

DC(1) NO DATE	ISSUE	NATURE OF AMENDMENTS
DRN	0001	
TCD	0001	
CHD	0001	
APPD	0001	

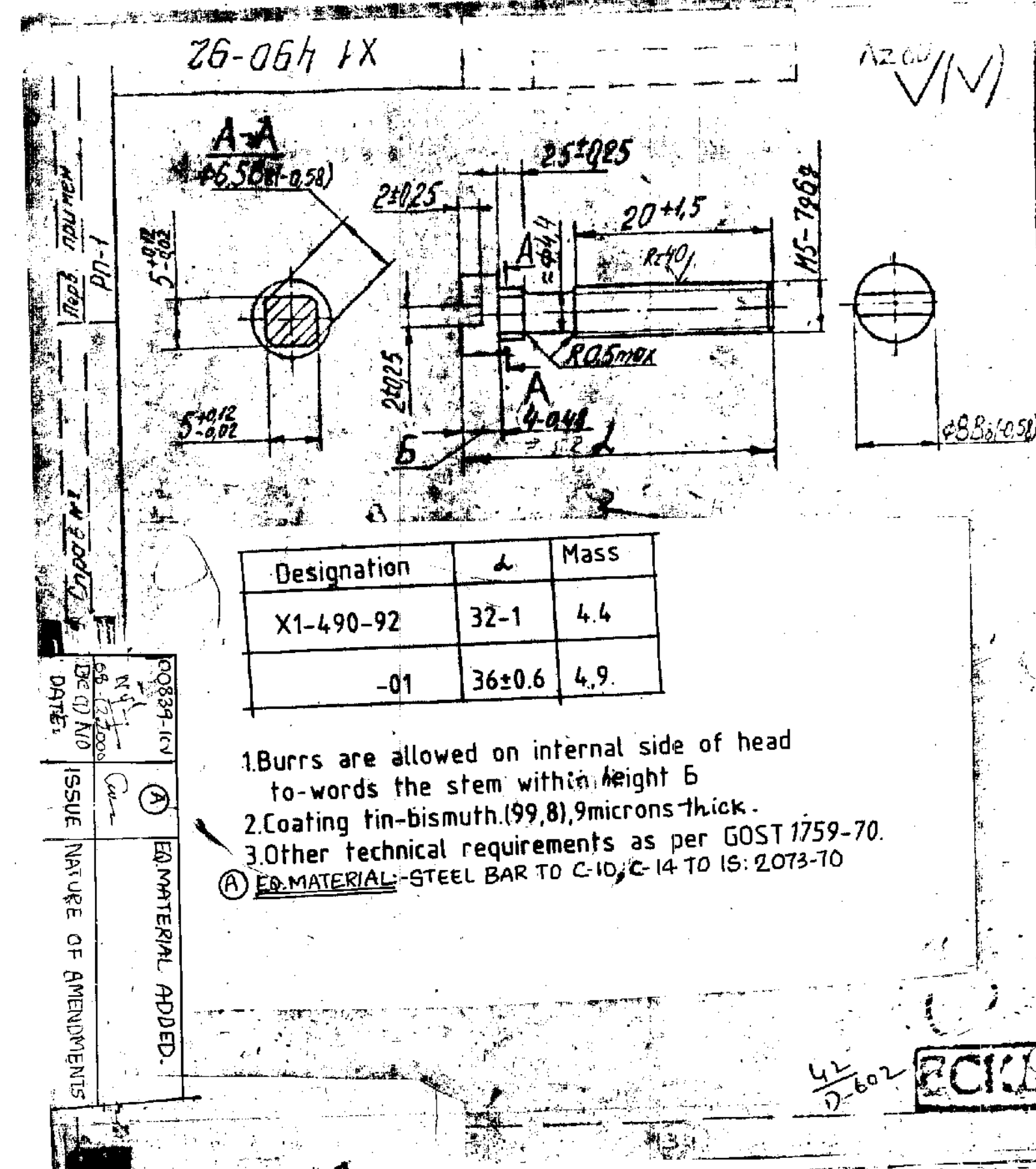
3TB 013 011 BC

ELECTRIC TRIGGER

PARTS LIST

DC(1) NO DATE	ISSUE	NATURE OF AMENDMENTS
		DATE: 21-8-97
		USED ON
		SHEET 21 SHEETS 2
		34 OF 137

CONTROLLERATE OF QUALITY ASSURANCE (ICV)



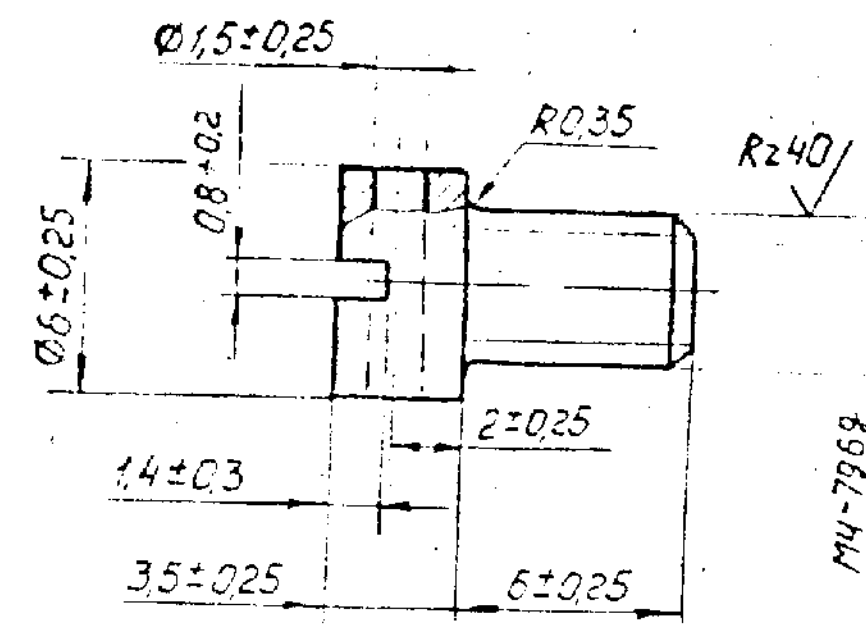
Q0834-10
 08.12.2008
 DATE:
 ISSUE:
 NATURE OF AMENDMENTS:
 EQ. MATERIAL ADDED.

APPROVED	M VASU	X1-490-92		WEIGHT	SCALE
CHECKED		TERMINAL BOLT		SEE TABLE	2:1
CONTROLLERATE OF INSPECTION (ICV)		STEEL 10 GOST 1050-74		SHT	SHTS
				72 OF 80	

5686-1X

Rz 80
✓(✓)

ПН-1



ЕСКД

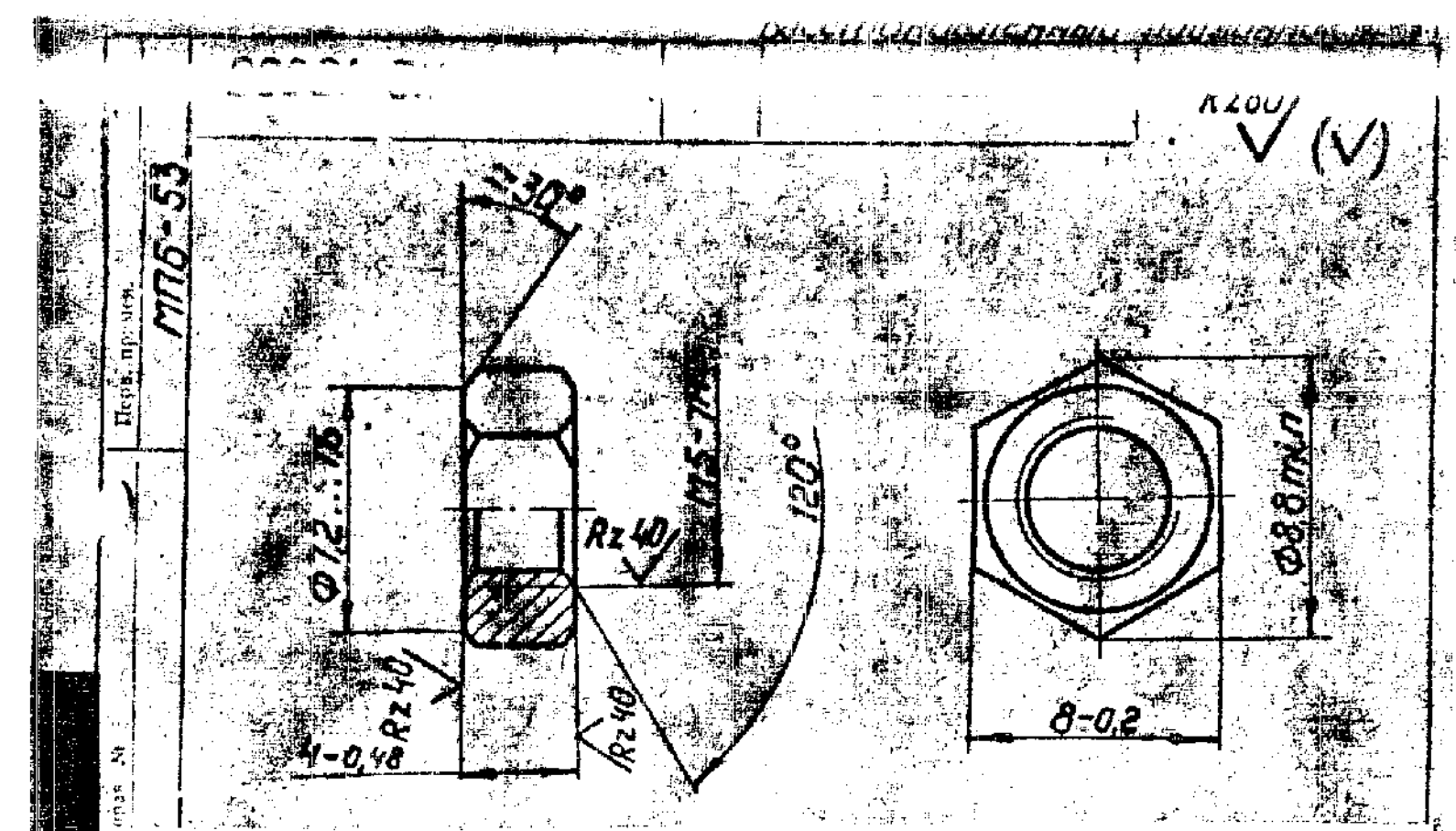
Designation	Coating
X1-9895	Zinc plated, 6 microns thick, chromated composition of solution for chromating as per И-252-78.

1. Alternate material is steel A12, GOST 1414-54.
2. Limit deviation from alignment of axes of head and slot with respect to axis of stem is 0,15mm.
3. Technical requirements as per GOST 1759-70.

ПОДГОТОВИЛ С. КОЗЛОВ

2651

X1-9895		SCALE	
SCREW		1:25	5:1
Wire 3-46-10 GOST 5663-79		75 OF 80	
CONTROLLERATE OF INSPECTION (ICV)			



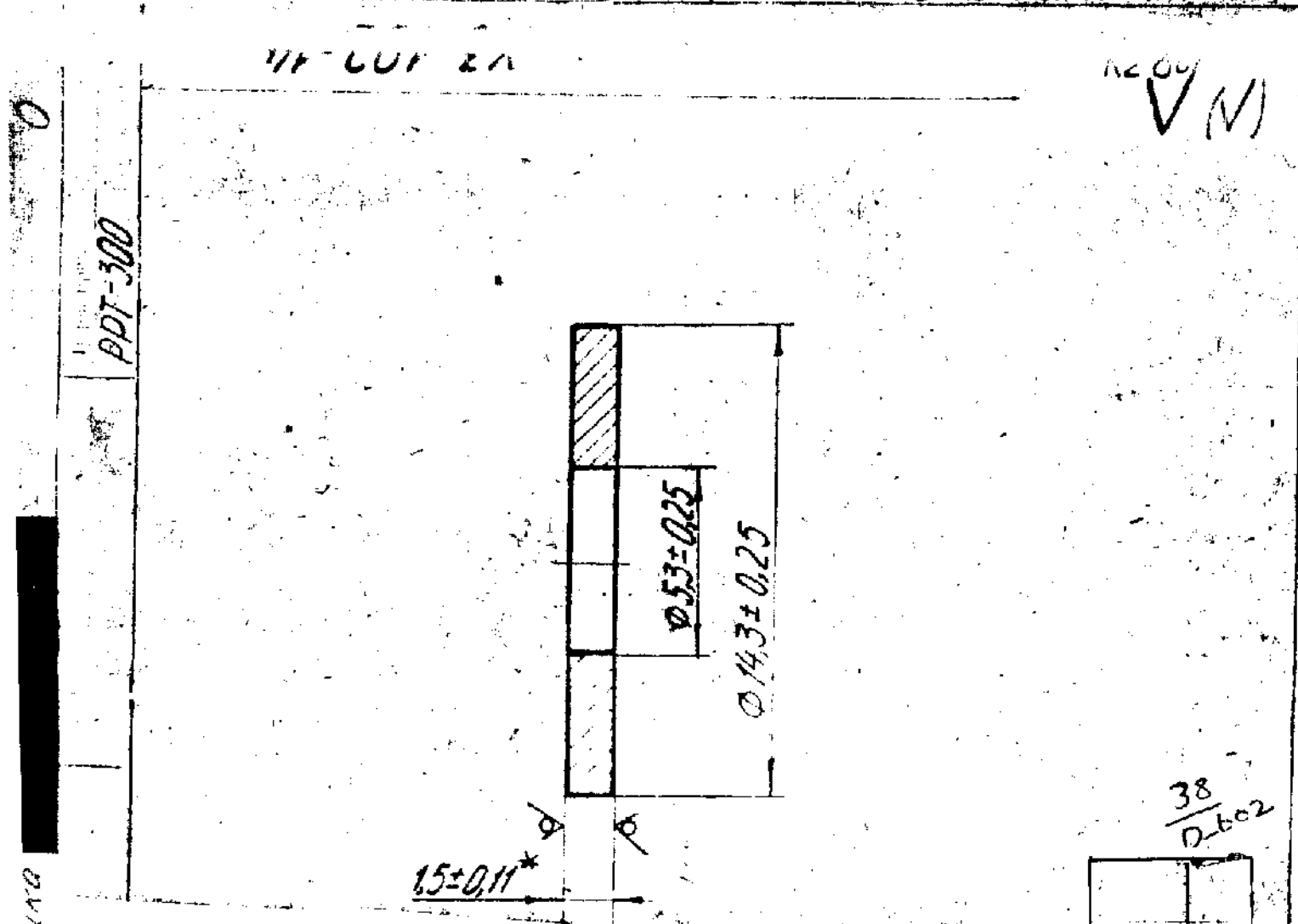
Designation	Coating
X2-10630	Zinc plated, 6 microns, chromated

1. Alternate material is steel 10, GOST 1050-74
 2. Limit displacement of axis of hole with respect to flats is 0.25mm.
 3. Other technical requirements as per GOST 1759-70.
- Ⓐ EQUIMATERIAL - (i) STEEL BAR TO C-14 TO IS: 2073-70
(ii) STEEL BAR TO C-10 TO IS: 2073-70

DATE	06.12.2004	N. V. V.	00035714
	DCJND		
ISSUE NATURE OF AMENDMENT		Ⓐ EQUIMATERIAL ADDED	

ЕСКД

APPROVED	M. VAS	X2-10630	
CHECKED		NUT	WEIGHT SCALE
CONTROLLERATE OF INSPECTION (ICV)			1.2g 4:1
		Steel A12 GOST 1414-75 84	SHT SHTS 73 OF 80



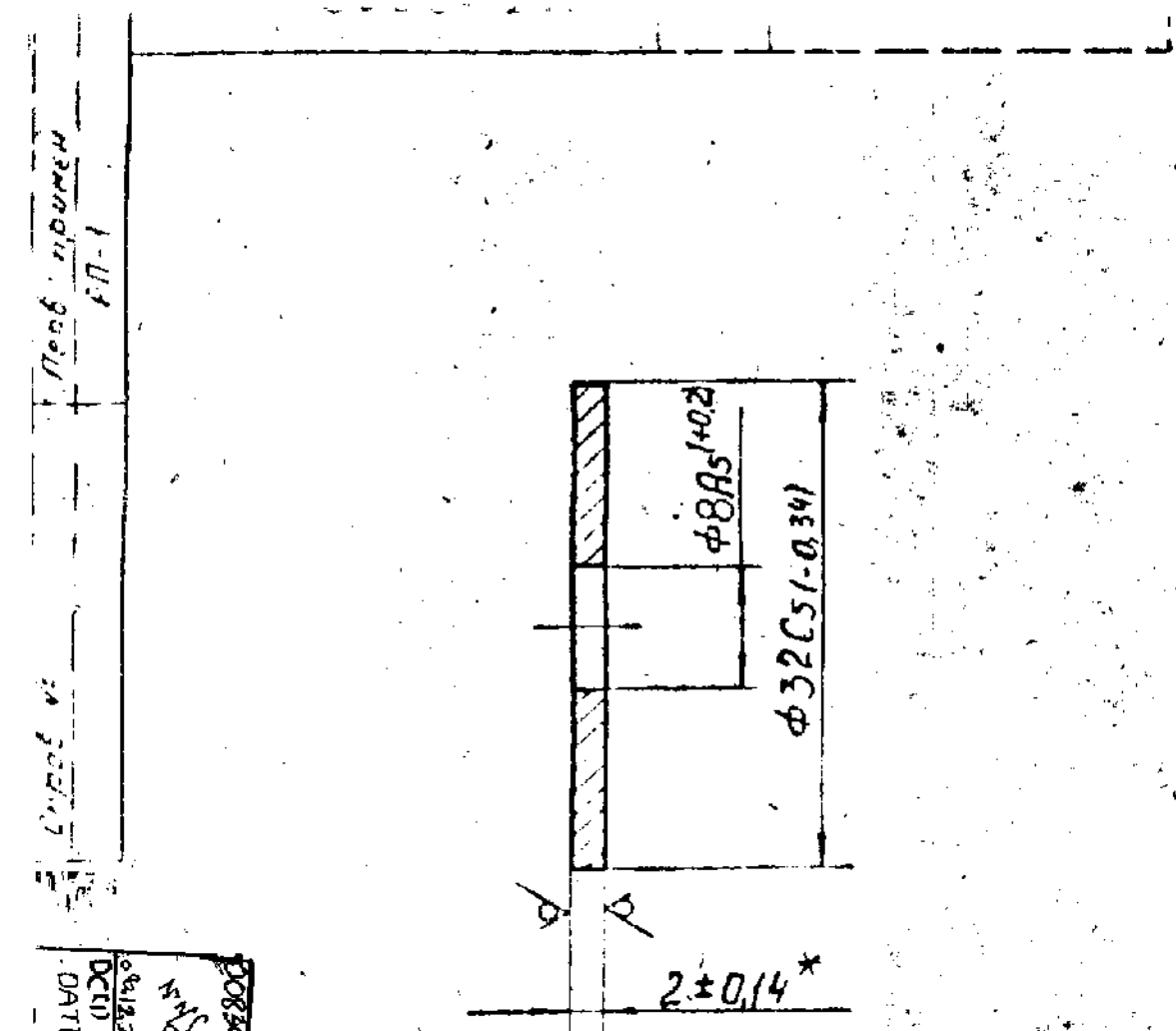
* Dimension is given for reference.
 (A) EQ. MATERIAL: COLD ROLLED SHEET STEEL GRADE 'D' annealed TO IS: 4030-73.

Designation	Coating
X3-102-14	zinc-plated 6 microns, chromated. Composition of solution for chromating as per N.252-78.

EQ. MATERIAL ADDED.	38 D. 602
(A) EQ. MATERIAL ADDED.	ISSUE NATURE OF AMENDMENTS
DATE	DATE

APPROVED	M. VASU	X3-102-14			
CHECKED		WASHER			
CONTROLLERATE OF INSPECTION (ICV)		WEIGHT		SCALE	
		1.6g		5:1	
		SHT		SHTS	
		Steel 51.5 GOST 19904-74		80 78 OF 80	
		4-21-10 GOST 16523-70			

RZ80
VI



DATE	08/12/00
ISSUE	1
NATURE OF AMENDMENT	

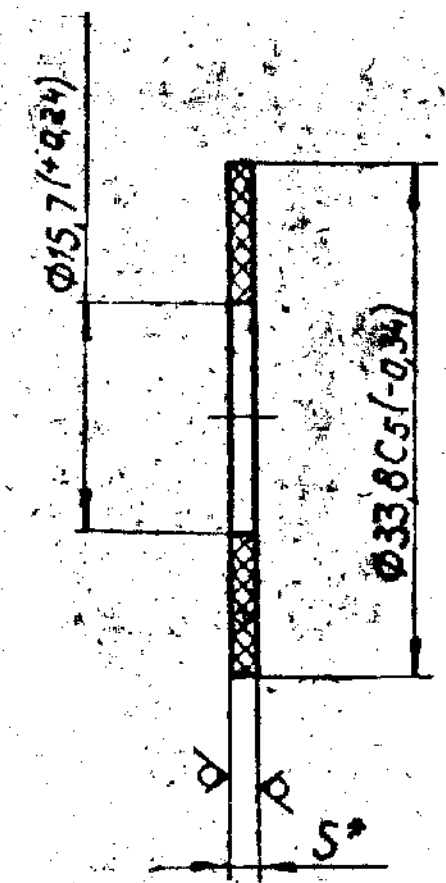
1. Alternate material sheet 52 GOST19904-74 4-11 10 GOST16523-70
 2. * Dimension is given for reference.
 3. Coating (zinc plated, 21 microns, ^{thick}chromatized) composition of solution for chromatizing as per U-252-78
- EQ. MATERIAL: COLD ROLLED SHEET STEEL GRADE D ANNEALED TO 15.4030-73.

ECKI

APPROVED	M. VAS.	X3-9660		
CHECKED		WASHER	WEIGHT	SCALE
CONTROLLERATE OF INSPECTION (ICV)			12g	2:1
		SHT SHTS		
		Sheet 52 GOST 19904-74 68 OF 80 4-11 10 GOST 16523-70 84		

выполнен с погрешностью

07-1



R_z 80
✓(✓)

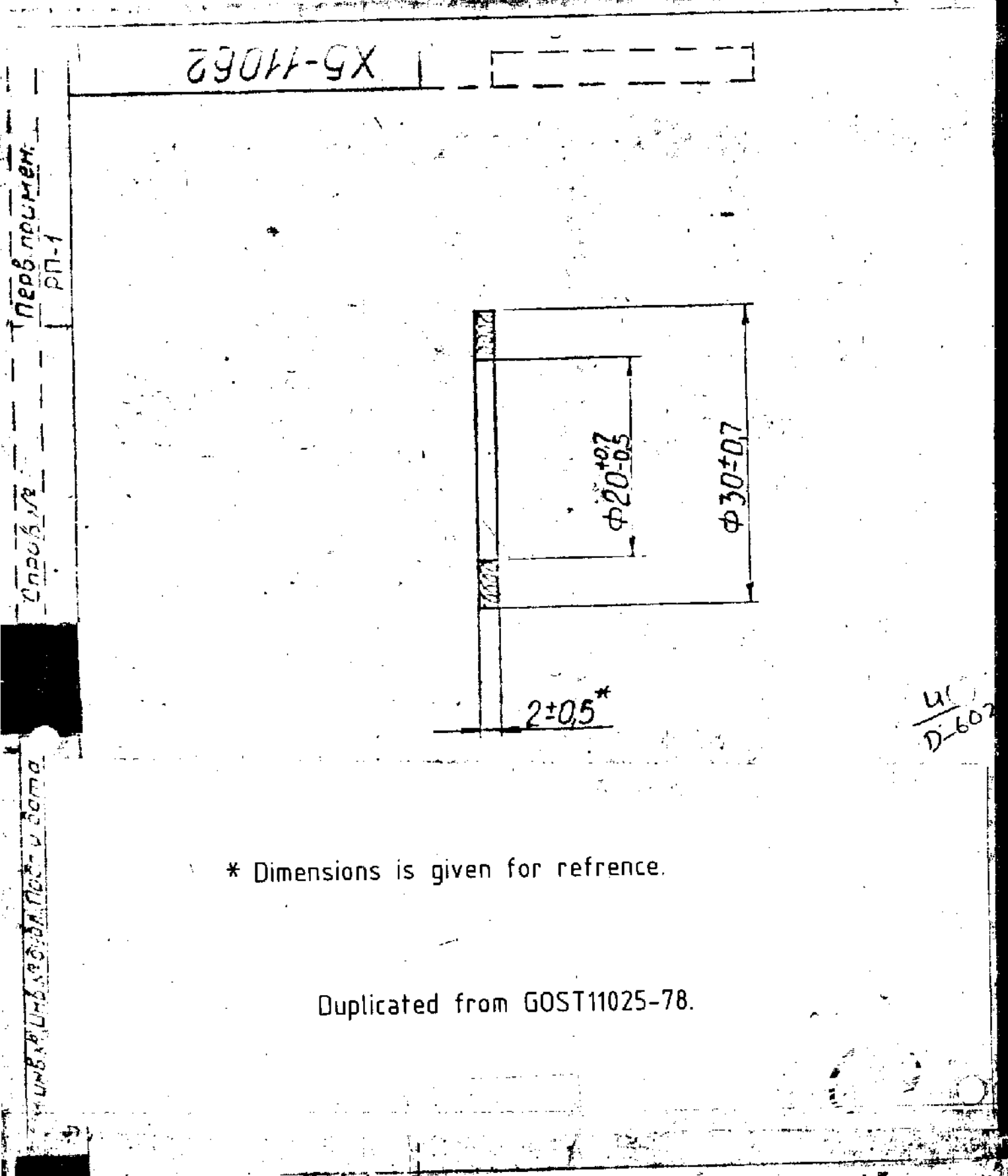
37
D.602

ЕСКД

Designation	Material	S*	Alternate Material	Coating	Allowed coating
X5-9960	Textolite A-1 GOST2910-74.	1±0.15	Textolite 5.1. GOST2910-74.	Varnish 95 GOST8018-70	Varnish M.92(1) GOST1586

*Dimension is given for reference.

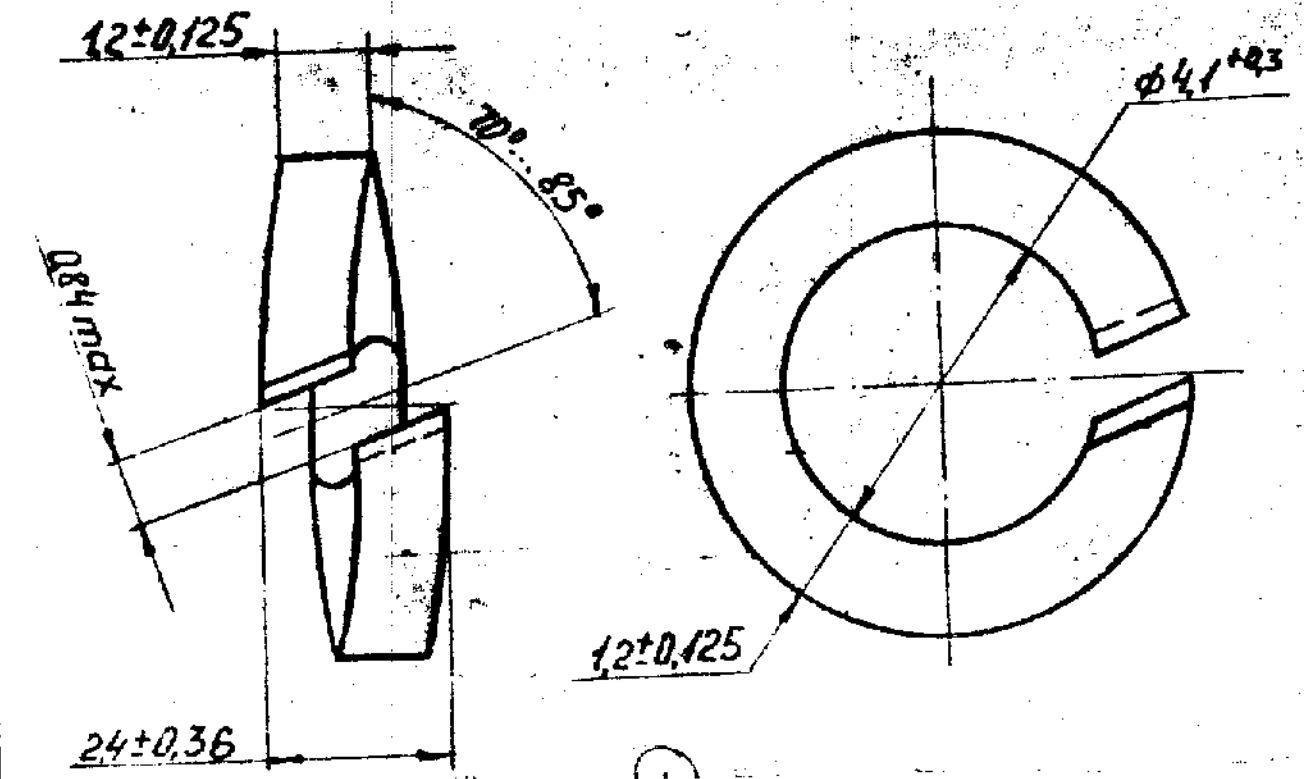
APPROVED		X5-9960			
CHECKED		WASHER	WEIGHT	SCALE	
CONTROLLERATE OF INSPECTION (ICV)			1g	2:1	
		See table		SHT	SPTS
				62 of 80	



APPROVED	M. VAS	X5 - 11062	
CHECKED		RING T330-20-	WEIGHT SCALE
CONTROLLERATE OF INSPECTION (ICV)		2. GOST 11025-78	O-23 2:1
		FELT T 02 GOST 11025-78	78 of 20

Восстановленный подлинник № 1

ГРУП - А



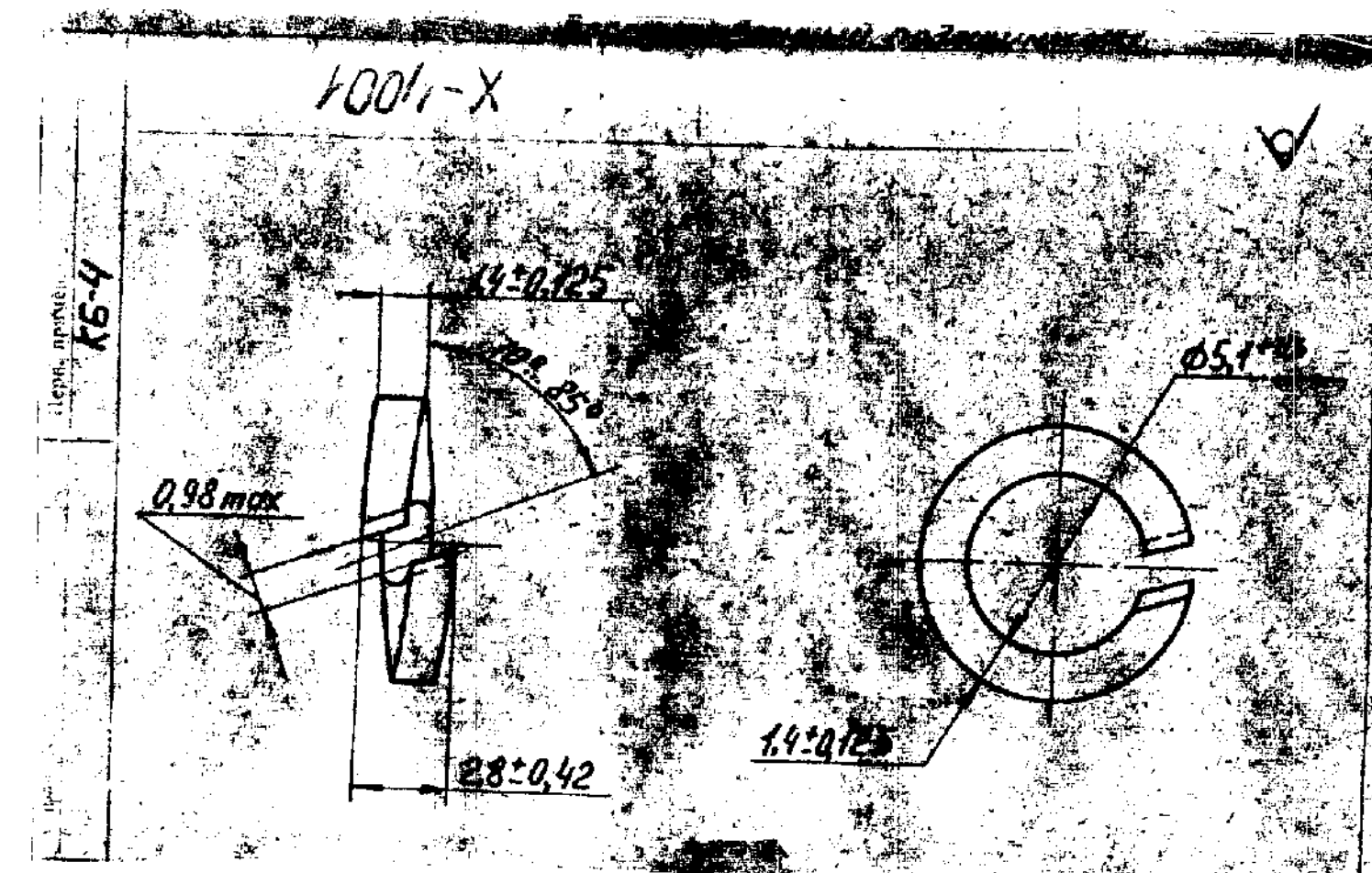
Восстановлен с подлинника

Designation.	*	Coating	Coating is allowed
X-1012	06	Chemically, parkerized, oiled.	Chemically, oxidised, oiled, zinc, plated 6 microns chromatised, cadmium plated 6 microns chromatised.

EQ MATERIAL: (i) GRADE 50 Cr 1 V 23 TO IS: 1570
(ii) EN 47 TO BS: 970
Technical requirements as per GOST 6402-70.

00837-01	EQ MATERIAL ADDED.
DATE	NATURE OF AMENDMENT

APPROVED	M VASU	X-1012	
CHECKED		WASHER	WEIGHT SCALE
CONTROLLERATE OF INSPECTION (ICV)		465 * GOST 6402-70	0.189 10:1
		Steel 65 GOST 1050-74	SHT SHTS
		79 OF 80	



Designation	*	Coating	Allowed coating
X-4001	06	Chemically Parkirized. oiled.	Chemically, oxidised. oiled, cadmium plated, 6 microns chromatized.

Ⓐ EQ. MATERIAL: 1) GRADE 50 Cr 1 V 23 TO IS: 1570
2) EN 47 TO BS-970

Technical requirements as per GOST 6402-70.

00839
-10 V

Ⓐ EQ. MATERIAL ADDED

34
D-607

DATE

ISSUE NATURE OF AMENDMENTS

APPROVED	M. VASU	X-4001	
CHECKED			
CONTROLLERATE OF INSPECTION (ICV)	WASHER	WEIGHT	SCALE
	565r GOST 6402-70	0.315g	5:1
	Steel 65r GOST 1050-74	80 OF 80	

DESIGNATION	DESCRIPTION	PARENT UNIT	REMARKS
	DOCUMENTS		
PM6-1C-000F4	OUT LINE DRAWING	PM6-1C-000	
PM6-1C-000BC	LIST OF SPECIFICATIONS	PM6-1C-000	
PM6-1C-000B1A7	LIST OF REFERENCE	PM6-1C-000	
	DOCUMENTS		
PM6-1C-000TY	SPECIFICATIONS	PM6-1C-000	
PM6-1C-000PC1	CERTIFICATE TO RELAY	PM6-1C-000	
	ASSY. UNITS		
PM6-1C-000CB	TRACTION RELAY	675-84-C62	
PM6-1C-020CB	COIL	PM6-1C-000CB	
PM6-1C-030CB	CASE WITH CORE	PM6-1C-000CB	
PM6-1C-040CB	COVER	PM6-1C-000CB	
PM6-1C-050CB	FRAME	PM6-1C-020CB	
PM-511-79CB	CASING WITH COVER PLATE	PM6-1C-030CB	
	PARTS		
PM6-1C-003	WASHER	PM6-1C-050CB	
PM6-1C-009	BUSHING	PM6-1C-050CB	
PM6-1C-011	BUSHING	PM6-1C-050CB	
X5-9960	WASHER	PM6-1C-050CB	
PM6-1C-006	GASKET	PM6-1C-020CB	
PM6-1C-007	GASKET	PM6-1C-020CB	
PM-511-67	CASING	PM-511-79CB	
PM-511-80	COVER PLATE	PM-511-79CB	
APPROVED	<i>slr</i>	PM6-1C-000 cn	
CHECKED	<i>ABH/asa</i>		
CONTROLLERATE OF QUALITY ASSURANCE (ICV)		TRACTION RELAY	
			SHT 1 SHTS 3
			1 OF 80

DESIGNATION	DESCRIPTION	PARENT UNIT	REMARKS
PM6-1C-004	CORE	PM6-1C-030CB	
X3-9660	WASHER	PM6-1C-030CB	
PM6-1C-008	COVER	PM6-1C-040CB	
PII1-003	BUSHING	PM6-1C-040CB	
PI1-161-68	TERMINAL PANEL	PM6-1C-040CB	
X1-490-92	TERMINAL BOLT	PM6-1C-040CB	
X2-10630	NUT M5	PM6-1C-040CB	
		PM6-1C-000CB	
PM6-1C-005	ARMATURE	PM6-1C-000CB	
X1-9895	SCREW	PM6-1C-000CB	
X3-10214	WASHER	PM6-1C-040CB	
CA-18-56	CAP RUBBER	PM6-1C-000CB	
X5-11062	RING T9-30-20-2	PM6-1C-000CB	
X-1012	WASHER-465F06	PM6-1C-000CB	
X-4001	WASHER-565F06	PM6-1C-000CB	
		PM6-1C-040CB	
	MATERIAL		
	WIRE-K0-0.8	PM6-1C-000CB	
	GOST-732-67		
	WIRE-ПЭЛ 0.5	PM6-1C-020CB	
	GOST-2773-78		
	PAPER-KOH2-22	PM6-1C-020CB	
	GOST-1908-77		
	VARNISHED CLOTH-LWM	PM6-1C-020CB	
	1050-1 GOST-2214-78		
	THREAD EXTRA STRONG	PM6-1C-020CB	
	NO: 00 AT 12 ADDITION POLISH GOST-1 GOST-6349-78		
APPROVED	g. ps	PM6-1C-000CB	
CHECKED	ABBHosale		
CONTROLLERATE OF QUALITY ASSURANCE (ICV)		TRACTION RELAY	
			SHT 2 SHTS 3
			2 OF 80

[illegible]

I-601		NUMBER PN6-1C 00079	
		SHEET 3 OF 2829	

LIST
OF CONTENTS OF ALBUM NO. 58 CONVEN-
TIONAL DESIGNATION "84/084871
-03-15-40007".

Sl. No.	No. of drgs, assemblies, articles.	Description of technical papers.	No. of drgs	No. of sheets	Latest amendment No.	Remarks
1	2	3	4	5	6	7
1	Technical specifications.	Relay PM 6-1C.	PN6-1C.000 Ty	27		
			Sheet 1		AWA2556 ¹ / ₁₉ -79	
			" 2		AWA2299 ⁴ / ₈ -79	
			" 3		-	
			" 4		-	
			" 5		-	
			" 5a		AWA2299 ⁴ / ₈ -79	
			" 6		-	
			" 7		-	
			" 8		-	
			" 9		-	
			" 10		-	
			" 11		-	
			" 12		AWA1529 ³ / ₇ 80	
			" 13		-	
			" 14		-	
			" 15		AWA1181-81	
			" 16		-	
			" 17		-	
			" 18		-	
			" 19		-	
			" 20		-	
			" 21		-	
			" 22		AWA1181-81	
			" 23		AWA1317 ¹ / ₅ -79	
			" 24		-	
			" 25		-	
			" 26		AWA1181-81	

	I-601	NUMBER PM6-1C-8878
		SHEET 4 OF 28

1.	2	3	4	5	6	7

2. Appendix Outline drawing PM5-10.000 4 1 A 10215-79

Total number of sheets 28

Present technical specifications refer to tractive D.C relay PM6-1C, hereⁱⁿ and after-referred to as relay, intended for operation in automatic system.

Designation of relay for order is as follows:
Relay PM6-1C PM 6-1C.000Ty.

1. TECHNICAL REQUIREMENTS.

Relay should correspond to requirements of present technical specifications, set of technical specifications, set of technical papers as per specification PM6-1C.000 and OST B3-1164-72.

All completing articles and materials which are used in manufacture of relay, should correspond to valid-standards and technical specifications for them.

1.1. MAIN PARAMETERS AND DIMENSIONS.

1.1.1. Relay has the following main parameters:

a) Rated voltage	27V D.C;
b) Force of relay in normal climatical conditions, practically in cold condition.	
at voltage of 24V and 10-mm clearance between armature and core.	1.5 kgf, Minimum
at voltage of 26 V and 45-mm clearance between armature and core.	5.5 kgf, Minimum
at voltage of 24 V and 0-mm clearance between armature and core (holding force).	10 kgf, Minimum.

- c) Coil resistance at 20°C 5.9 to 6.9 Ohms.
- d) ~~20°C~~ Mode of operation. Intermittent 7 trippings with duration of 10 sec, and intervals of 5 sec. between them)
- e) Circuit connections two - wire.
- f) design Dust proof and splash proof with exception of armature outlet place.
dust proofness and splash proofness of which are provided by consumer.
- g) Operating position arbitrary
- h) Mass 0.5 kg, Maximum.

1.1.2. Overall dimensions of relay are as per drawing PM6-1C, 000 Ty.

1.2. CHARACTERISTICS.

1.2.1. As per overall and mounting dimensions and appearance relay should correspond to drawings PM6-1C.000.

1.2.2. Relay should:

- a) develop the force; in normal climatic conditions and practically in cold condition;
at voltage of 24 Vand 10-mm clearance between armature and core - 1.5 kgf, min;
at voltage of 26 V and 4.5-mm clearance between armature and core - 5.5 kgf, min at voltage of 24 V and 0-mm clearance between armature and core (holding force) - 10 kgf, min
- b) Consume the current of not more than 4.2 A, in normal climatic conditions and cold condition at a voltage of 24V.

I - 601

c) Develop a force of 1.2 kgf, min, at relay temperature + 135°C and voltage of 24V when clearance between armature and stop is 10 MM and a force (holding force) of 10 kgf, min, when clearance between armature and stop is 0 mm.

d) Have coil overheating of 115°C, max, when voltage of 26V is supplied for 2 minutes.

e) Have coil overheating of 85°C, max at a voltage of 24V after 7 trippings for 10 each with intervals of 53 between trippings.

1.2.3. Insulation resistance between coil and body should be:

a) at least 20 megohms - in normal climatic conditions practically in cold conditions.

b) at least 5 megohms in conditions of elevated temperature.

c) at least 1 megohm - in conditions of high humidity.

1.2.4. In normal climatic conditions insulation between coil and body should with stand test voltage of 500 V (effective value) 50 Hz without break down or surface flashover.

1.2.5. Relay armature should move in the coil without any jamming.

1.2.6. Parts and assembly units of articles of one series should be interchangeable. Relay should be serviceable in operation and maintain its parameters in conditions, given in OST B 3 - 1164-72.

1.2.7. Design of relay should be dust and splash-proof of with an exception of out-let place of armature, protection of which is provided by consumer.

1.2.9. Relay should with stand 10000 trippings in providing guarantee operating time during bench tests.

1.2.10. Guaranteed life of relay should be 20000 trippings.

I-601

NUMBER PM6-1C.000 Ty.

SHEET 8 OF 2229

1.3. COMPLETE SET:

1.3.1. The set contains:

- a) Relay PM6-1C;
- b) Certificate.

1.4. MARKING.

1.4.1. Marking of relay should be carried out in compliance with the set of technical papers as per specification PM6-1C.000.

1.5. PACKING.

1.5.1. Packing of relay should be carried out in compliance with requirements specified in OST B3-1164-72 and ^{effective} drawing of packing effective.

1.5.2. Preservation should be carried out with regard to requirements set forth in OST B3-2381-74.

13

T-601

2. ACCEPTANCE RULES.

2.1. Main technical papers for manufacture, test and acceptance of relay are present technical specifications, OST B3-1164-72 and set of technical papers as per specification PM6-1C.000.

2.2. All commercial articles and materials, which are used for manufacturing relay should be checked by technical inspection department of external acceptance. Scope and procedure of incoming check is set by agreement with customer representative.

2.3. Tests of relay are divided into approval, periodic and type tests.

2.4. Each relay is subjected to approval tests in scope and procedure as per Table 1 of present technical specifications. Relays are accepted by batches containing 56 to 74 pcs.

2.5. Periodic tests are carried out twice a year on two samples in scope and procedure as per Table I of present technical specifications.

2.6. Type tests are carried out when it is necessary to check the relay for compliance with requirements of present technical specifications; in case of radical changes of design or technology of manufacture of relay which can affect operating properties; when it is necessary to check the service life and to take measures, used for elimination of faults of relay as well as for initial batch of full-scale production.

Necessity of conducting of type tests, including service life test is determined and agreed by manufacturing factory and customer representative in scope required for checking effectiveness of measures or service life as per the agreed programme of tests guiding by types of tests given in Table I.

		I- 601		NUMBER RM6-1G.000 Ty.	
				SHEET 10 OF 2228	
TABLE I.					
Types of tests and checkings.	Number of items		Category of tests.		
	Require-ments.	Prece-dure	Approval tests.	Periodic tests.	Type tests.
1. Checking of set and compliance with drawings.	1.2.1	3.2	+	+	+
2. Checking of armature for jamming.	1.2.5	3.3	+	+	+
3. Checking of para meters of relay:					
a) developed forces and consumed current in cold condition	1.2.2a				
	1.2.2b	3.4a	+	+	+
b) Developed forces in hot condition. coil overheat temperature.	1.2.2B	3.4b	-	+	+
c) Coil overheat- ing temperature.	1.2.2c				
	1.2.2e	3.5	-	+	+
4. Insulation resistance test:					
a) in normal climatic conditions	1.2.3a	3.6	+	+	+
b) in conditions of elevated temperature.	1.2.3b	3.6	-	+	+
c) in conditions of high humidity.	1.2.3c	3.6	-	+	+
5. Electrical insulation strength test.	1.2.4	3.7	+	+	+
6. Checking of interchangeability.	1.2.6	3.8	+	+	+
7. Moisture resistant test.	1.2.7	3.9	-	+	+

I-601		NUMBER PH6-15-18			
		SHEET 11 OF 2529			
Conti of table 1/--					
Types of tests and checkings.	Number of items.		Category of tests.		
	Require-ments.	Proce-dure.	Appro-val tests.	Periodic tests.	type tests.
8. Cold resistance test.	1.2.7	3.10 3.10	-	+	+
9. Heat-resistance test.	1.2.7	3.11	-	-	+
10. Test for resist- ance effect of hoarfrost and dew.	1.2.7	3.12	-	+	+
11. Test for effect of sea (salt) fog.	1.2.7	3.13	-	+	+
12. Thermal cycling test.	1.2.7	3.14	-	+	+
13. Vibration-sur- vival test.	1.2.7	3.15	-	+	+
14. Impact strength test.	1.2.7	3.16	-	+	+
15. Lowered ambient air pressure test:					
a) down to 460MM Hg	1.2.7		-	-	+
b) down to 0170MM Hg	1.2.7	3.17	-	-	+
16. Guaranteed life test.	1.2.9	3.16	-	+	+
17. Service life test.	1.2.10	3.19	-	-	+
18. Dust proofness test.	1.2.8	3.20	-	+	+
19. Splash proofness test.	1.2.8	3.21	-	+	+
20. Single impact test with high accelerations.	1.2.7	3.23	-	-	+
21. Test for effect of vapours, anti- freeze and fuels and lubricants.	1.2.7	3.23	-	-	+
22. Test for effect of T and T-hum.	1.2.7	3.24	-	-	+

I - 601

NUMBER 816-11-0078

SHEET 12 OF 2020

DESIGNATIONS: " + " test is carried out

" - * test is not carried out.

NOTES:

1. Test sequence may be changed by agreement with customer representative.

2. Vibration - survival test and impact - strength test sequence is determined by tests procedure.

3. TEST METHODS.

3.1. All tests are carried out in normal climatic conditions, except those where climatic conditions are mentioned specially. normal climatic conditions are as follows:

- a) ambient air temperature plus $25 \pm 10^{\circ}\text{C}$;
- b) relative air humidity 45 to 80%.
- e) atmospheric pressure is 630 to 800 MM Hg.

NOTE: Relative humidity should not exceed 40% at temperature above 30°C .

Test equipment should have accuracy class of not worse than 0.5.

3.2. Set, compliance with requirements of drawings, quality of assembly, external finishing 1,0 soldering quality, absence of loosenings are checked during the visual inspection; mounting and over all dimensions are checked with the help of inspection-measuring tools.

3.3. Checking of relay armature for absence of jamming should be carried out manually. Relay armature should enter the coil for full travel and fall from it under gravity.

3.4. Checking of force developed by relay and current consumption is carried out on special bench as per the following procedure:

- a) In cold condition
Set 10mm clearance between armature and core and apply the load of 1.5 kgf to armature, trip relay at voltage of 24 V 3 times total time during which the relay is energized should not exceed 10 s.

Set 4.5mm clearance, apply the load of 5.5 kgf to armature trip the relay at voltage of 26 V 3 times, total time ~~draw~~ ^{during} which the relay is energized should not exceed 10s.

set 0-mm clearance; apply the load of 10 kgf and trip the relay at a voltage of 24 V, the time during which the relay is energized should not exceed 10 s.

Checking of current, consumed by relay is carried out when relay force is checked at clearance of 0 MM.

Relay is considered to have passed the test, if it raises a load of 1.5 kgf when clearance is 10 MM, holds a load of 10 kgf when clearance is 0 MM and current consumption is not more than 4.2 A; *when clearance is 4.5 mm*

Checking of force in hot condition is carried out as per the procedure of item 3.4 a of present technical specifications after keeping relay for 2 hours in heat chamber at temperature + 135°C.

Relay is considered to have passed the checking, if it complies with requirements of item 1.2.20 of present technical specifications.

3.5. Checking of coil overheating is carried out by the method of resistance. Current of relay coils are measured in the beginning and end of test.

Overheating is calculated as per the following formula:

$$\Theta = \frac{I_x - I_r}{I_r} (235 + t_x) + t_{0x} - t_{0r}, ^\circ\text{C}$$

where

I_x - is coil current in cold condition, A

I_r - is coil current in heat condition, A

t_{0x} - is ambient air temperature when I_x is measured, °C,

t_{0r} - is ambient air temperature when I_r is measured, °C.

Relay is considered to have passed the test, if *calculated* ~~calculated~~ value of overheating does not exceed values specified in items 1.2.2 or 1.2.2 - e of present technical specifications.

3.6. Insulation resistance test is carried out by 500-v D.C. megohm-meter. Insulation resistance is measured between any terminal bolt and body of relay.

Relay is considered to have passed the test, if the measured values of insulation resistance correspond to requirements of item 1.2.3 of present technical specifications (for corresponding conditions of tests).

3.7. Checking of electric insulation strength is carried out in special high-voltage installation with power of not less than 0.5 KVA, supplying full test voltage for 1 minute. Test voltage is applied between the body and any terminal bolt.

Relay is considered to have passed the test, if there is not any puncture or surface flashover while checking.

NOTES:

1. Time required for keeping the insulation under the voltage may be reduced to 15 by simultaneously test voltage should be increased upto 625 V (effective value).

2. In the following checkings of relay before installing it on vehicle, test voltage is set at a rate of 80% of that specified by requirements of present technical specifications. On request of customer's representative, dismantling of one sample from accepted batch is carried out to check the relay for compliance with drawings and interchangeability. In this case parts and assembly units are checked for compliance with requirements of design technical papers.

Interchangeability is checked by replacing armatures of relays.

Relay is considered to have passed the checking for interchangeability if parts and assembly units are correspond- ing to drawings and after their replacement relay corresponds to items of approval tests of present technical specifications.

3.9. Deenergized relay sealed by any method from the side of out-let of armature is placed in constant humidity cabinet relative ^{with} air humidity of 93 to 97% and temperature of + 20 to 25°C and held in it for 5 days during moisture resistance test. It is allowed to increase the humidity (for a short time) upto 98% and temperature upto + 35°C, as a result of vibrations of ambient air temperature and by the modes of operation of test equipment. With a lapse of not more than 3 minutes after removing the relay from constant humidity cabinet check the following:

- a) insulation resistance as per procedure of item 3.6 of present technical specifications;
- b) developed force and current consumption as per procedure set forth in item 3.4 a of present technical specifications;
- c) absence of corrosion;
- d) preservation of paint- and-varnish coatings after keeping relays in normal climatic conditions for 30 hours, insulation resistance and electric insulation strength are checked as per procedure of items 3.6, 3.7 or present technical specifications.

Relay is considered to have passed the test, if it meets the requirements of item 8 1.2.2a, 1.2.2.b; 1.2.2c of present technical requirements, is free from scaling of paint-and-varnish coatings and traces of corrosion, and if after holding in normal climatic conditions electric strength and insulation resistance meet requirements of items 1.2.3a, 1.2.4 of present technical specifications.

During the cold resistance test deenergized relay is placed in cold chamber, where the temperature is decreased down to minus 50°C and maintained with accuracy of $\pm 3^\circ\text{C}$ when the above mentioned temperature is obtained relay is kept in chamber for 4 hours, this done, the relay is removed from the chamber and with the lapse of not more than 3 min.

I-601

NUMBER 846-12.0079

SHEET 17 OF 2899

of
checking delay force is carried out as per the procedure
of item 3.4 a of present technical specifications. In this
case current consumption is **not checked**.

0

I-601

NUMBER 2.112-1.2-20078

SHEET 18 OF 2029

Relay is considered to have passed the test, if the force meets requirement of item 1.2.2a of present technical specifications.

NOTE: Relay may be placed in cold chamber whose temperature is brought to minus 50°C beforehand.

In this case relay is held in chamber for 6 hours.

3.11. Temperature of +70°C with accuracy of $\pm 3^\circ\text{C}$ is set in the heat chamber during the heat resistance test. Deenergized relay is held in heat chamber for 4 hours. After finishing the test, relay is removed from the chamber and with the lapse of not more than 3 minutes checking of force and insulation resistance is carried out as per the procedure of items 3.4a, 3.6 of present technical specifications.

Relay is considered to have passed the test, if it remains efficient, force and insulation resistance comply with requirements of items 1.2.a, 1.2.3b of present technical specifications.

3.12. To perform test for resistance to frost and dew deenergized relay is placed in cold chamber and kept in it at a temperature of minus 20⁺⁵°C for two hours. After this relay is removed from the chamber and placed in normal climatic conditions within 3 hours in conditions of hoar frost and dew immediately after removal and every 30 minutes relay force is checked as per procedure of item 3.4a of present technical specifications. In this case current is not checked.

Relay is considered to have passed the test, if in time of being in normal climatic conditions after removing from the cold chamber its ~~force~~^{force} complies with requirements of item 1.2.2a of present technical specifications.

3.13. While testing for the effects of sea (salt) fog relay, sealed from the side of outlet of armature, is placed in chamber, where the temperature of + 27 to 30°C is set and subjected to the effect of salt fog. Visual inspection of

relay for absence of damaged coatings is carried out before placing it in the chamber.

Relay is placed in the chamber so that sprinkles of solution, and also the drops from ceiling, walls and suspension system do not fall on it during the test process.

Fog is formed by spraying salt solution, which is prepared by dissolving sodium chloride in distilled water as per GOST 4233-77 in quantity of 33 ± 3 with the help of rotary aerosol device or sprayer, should possess dispersion of 1 to 10 (95% drops) and water content of 2 to 3 g/L, spraying of solution is carried out for 15 minutes every 45 minutes. Duration of test is counted from the moment of first spraying of solution.

After finishing the test relay is cleaned with wab, wetted in distilled water, and after this it is dried for one hour at temperature $55 \pm 2^\circ\text{C}$, cooled and subject to visual inspection.

Relay is considered to have passed the test, if it is free from traces of corrosion and damaged paint-and-varnish coatings.

3.14. When performing thermal cycling test, deenergized relay is subject to effect, of 3 thermal cycles which follow each other continuously.

Each cycle is carried out in following sequence.

Relay is placed in cold chamber, where the temperature is brought to minus 50°C beforehand and it is kept at the same temperature for 4 hours.

Relay is immediately transferred from cold chamber to heat chamber, where the temperature is $+ 65^\circ\text{C}$ and kept in it at the same temperature for 4 hours.

Time for keeping relay in heat and cold chambers is counted off from the moment of attaining the preset air temperature in the chamber after loading relay.

Relay is removed from the heat chamber and kept in normal climatic conditions for 4 hours after finishing the last cycle.

of test. After this visual inspection of relay is carried out, and force is checked as per the procedure of item 3.4a of present technical specifications.

Relay is considered to have passed the test, if it meets requirements of items 1.2.2a of present technical specifications.

NOTE: Thermal cycling test may be carried out in one chamber, where the rate of temperature change is at least 0.5°C per minute.

3.15. Vibration-survival test, is carried out when relay is deenergized. Visual inspection of relay is carried out before the test.

Relay is rigidly installed on stand with single-component horizontal or vertical vibration in two mutually perpendicular positions, in one of which armature axis is perpendicular to stand plane and in the other it is parallel to it. Relay is subject to test in each position by the method of fixed frequency as per norms given in Table 2.

In this case relay armature is fixed rigidly with respect to body by any method.

TABLE 2/--

Fixed frequency, Hz.	amplitude value		Total duration of tests, h
	Acceleration, g	displacement, MM	
10	1.0	2.0	3.0
20	2.0	1.0	9.0
30	3.0	0.8	6.0
40	4.0	0.6	4.5
50		0.4	
60		0.3	
80		to be corresponded to acceleration.	
100			1.5
120			

NOTE: Check is carried out by one of the methods; as per acceleration of displacement.

Vibration survival test is carried out simultaneously with the test for guarantee life as per the following table:

1/4 of total time of vibration in first position of relay before tests for guarantee life, 1/2 of total time of vibration in second position of relay in the middle of test for guarantee life and 1/4 of total time of vibration in first position of relay after test for guarantee life.

Visual inspection, checking of force and current as per procedure specified in item 3.4 of present technical specifications are carried out after the test.

Relay is considered to have passed the test, if mechanical damage is not detected during visual inspection and relay meets requirements of items 1.2.2a, 1.2.2b of present technical specifications.

3.16. Impact strength test is carried in the middle of test guaranteed life. When relay is deenergized—Visual inspection of relay is carried out before test. Relay is rigidly installed on stand, in turn, in two mutually perpendicular positions, given in item 3.15 of present technical specifications and subject to the effect of impacts in each position as per norms, given in Table 3.

In this case relay armature is fixed rigidly with respect to body by any method.

Acceleration, g	Pulse duration, ms	Total number of impacts, per minute	Value
15	From 10 to 15	2000	Upto 100

Total number of impacts is equally divided for different positions of relay. Visual inspection and checking of force and current as per the procedure of item 3.4a of present technical specifications are carried out after test.

Relay is considered to have passed the test, if mechanical damages is not detected during visual inspection and parameters items 1.2.2a, 1.2.2b of present technical specifications. *«the corresponding to requirements»*

3.17. Test for effect of low ambient air pressure is not carried out. *Compliance*

compliance with requirements of the given item is provided by design of relay.

3.18. Test of relay for guarantee life is carried out in special device as per the following procedure:

a) Clearance of 4.5 MM is set between armature and core, load of 5.5kgf is suspended from armature 20 cycles of tripping should be carried out, number of tripping:

at voltage 22V - 2 cycles

at voltage 27V - 16 cycles

at voltage 29V - 2 cycles.

Each cycle consists of 15 tripping. Duration of each tripping is 20 seconds, interval between tripping is 3 minutes, interval after 3 tripping is minimum 1 hour, after 15 tripping interval should be upto complete cooling; forced air cooling is allowed.

b) Clearance of 10MM is set between armature and core, load of 1.5 kgf is suspended from relay.

Number of tripping:

at voltage 22 V - 2500 tripping.

at voltage 27 V - 5000 tripping.

at voltage 29 V - 2500 tripping.

Tripping are carried out by series each containing 7 tripping.

Duration of one tripping is 10 sec, interval between tripping is 5 s, interval after 7 tripping should be upto complete cooling; forced air cooling is allowed.

After completion of test, 100 more trippings are carried out additionally at voltage 27 V and relay force, and current are checked as per the procedure of item 3.4a of present technical specifications.

Relay is considered to have passed the test, if there have been no tripping during the test and it meets the requirements of items 1.2.2a; 1.2.2b of present technical specifications.

3.19. Service life test of relay is carried out as per procedure of item 3.18 of present technical specifications. Number of trippings carried out during guarantee life are taken into account during the service life test.

Relay is considered to have passed the test, if additional operations have not been required during the test, and it remains efficient during additional 50 trippings as per mode specified in item 3.18b of present technical specifications.

3.20. Dust-proofness test is carried out using fine cement powder, which is charged in the chamber with dimensions of 1x1x1 M in quantity of 4 kg.

Relay, which is protected from dust falling in place of out-let of armature, is placed in chamber and subject to test for 5 hours, and every 15 minutes cement powder is disturbed by air blast at a speed of 10 to 15 M/5.

Relay is considered to have passed the test, if dust visible to the naked eye, does not penetrate inside the coil of relay.

3.21. When performing splash proofness test, deenergized relay protected by any method from splash falling in the place of out-let of armature, is placed in sprinkling chamber at an angle of 45° and subject to effect of water stream directed down wards with intensity of 2 to 2.5 MM/min, equally sprayed with compressed air at a pressure of 3 to 3.5 cm². Stream should be sprayed above the relay at the

height of not less than 100mm. During the test relay should be rotated ^{gradually through 360°} the vertical axis. Duration of test is 5 min. After finishing the test, external surface of relay should be wiped dry and relay is opened for inspection.

Relay is considered to have passed the test, if there is not water in coil of relay.

3.22. ^{Compliance} Compliance of relay and its installation with requirements for resistance to ~~destraining~~ ^{destraining} effect of single impacts with greater accelerations is checked by full-scale test performed on vehicle.

3.23. Before development of the procedure of bench tests for resistance to effect of vapours of antifreeze and fuels and lubricants ^{compliance} compliance of relay with this requirement is certified during full. Scale tests and its operation on vehicle.

3.24. Test for the effect of V and Z-bus should not be carried out ^{compliance} ~~compliance~~ with requirements specified in given item is provided by design of relay.

4. TRANSPORTATION AND STORAGE.

- 4.1. Packed relays may be transported by any type of transport providing that they are protected from the effects of vibration and mechanical damage.
- 4.2. Storage of relay should be carried out in compliance with requirements of OST B3-1164-72 and OST B3-2381-74.

5. OPERATING INSTRUCTIONS.

- 5.1. Relay should be operated in conditions and modes corresponding to requirements of present technical specifications.
- 5.2. During installation and operation of relay on article, consumer should provide the following:
 - a) protection from falling of dust and water sprinkles in place of out let of relay armature;
 - b) setting of armature travel;
 - c) absence of armature skewness;
 - d) absence of armature movement in axial direction when relay is deenergized and it is under the effect of vibration loads.
- 5.3. Relay should be used in compliance with GOST 2.117-71
- 5.4. Maintenance of relay should be performed in compliance with requirements of operating instructions of vehicle.

1-379

Back Side

5. Preservation

Relay PM6-1C is preserved with oil K-17 ACST 10877-16 for
interplant transportation; oil K-17 for storage in warehouses;
in air-tight cover for long-time storage in ware-houses:

(Cross out useless record).

Preservation period: C.5.5: 2 years
(cross out useless data).

Date of preservation -----

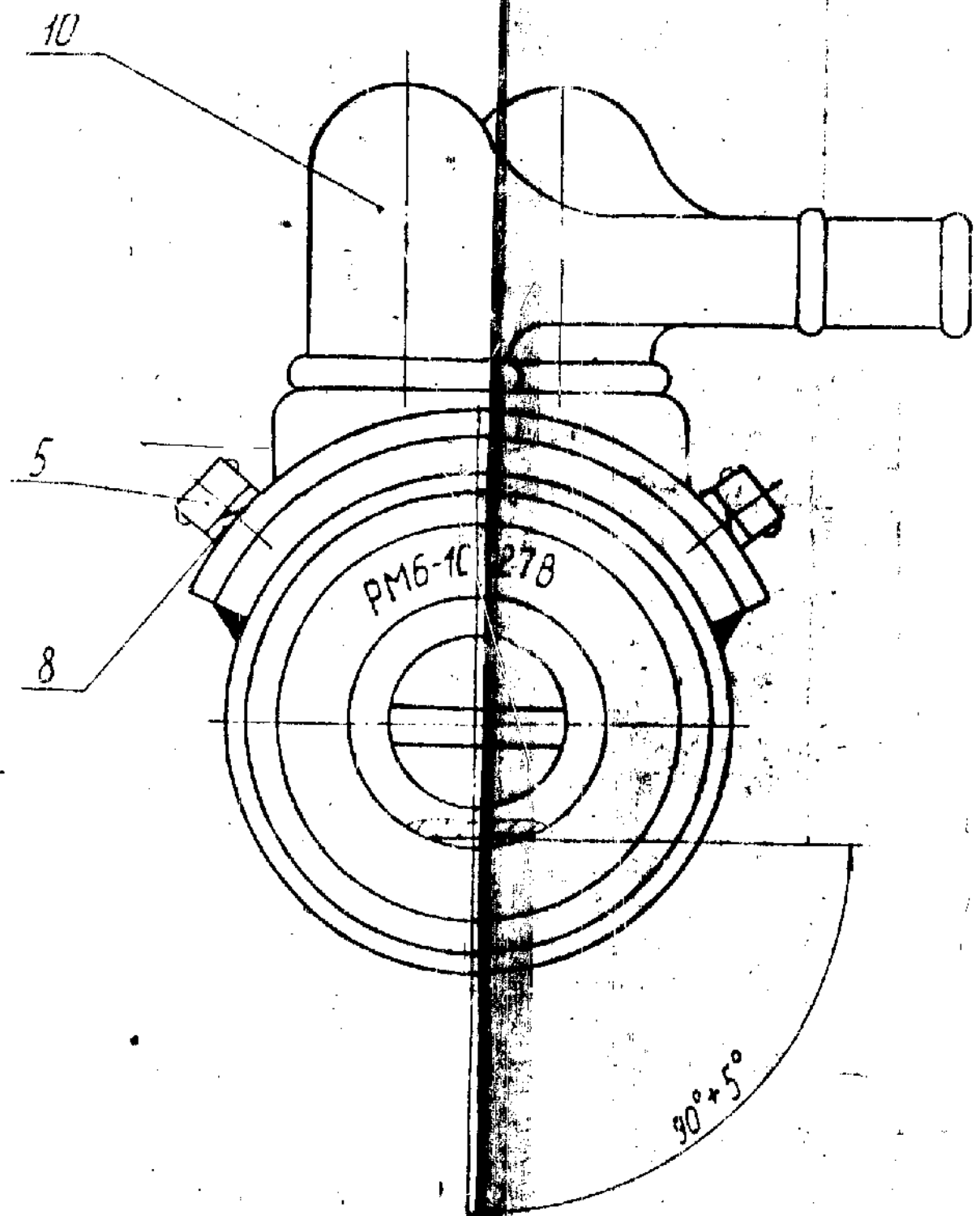
TID - -----

(2)

Восточные посылы

7

A technical drawing of a square flange valve. The valve body is square with rounded corners. It features a central circular flange with a hexagonal bolt pattern. A handle is attached to the side of the valve. Four mounting bolts are shown, two on the top and two on the bottom, securing the valve to a surface. The drawing is a line drawing with no shading.



1. Before beading, punch casing with core, Ref.2., at places of bushing grooves of coil. Ref.1. After ~~punching~~ through slots are not allowed.
2. Braze tap Γ in-to slots of bolts ^A with solder ПООС40-2. GOST21930-76 WITH flux Φ КCn, OST4. CO.033.000. Tap ends should not come out the limits of bolt head diameter.
3. Apply compound prepared as per instructions 4-109-78 to places A.
4. Bind screws, Ref.5. with wire, Ref.11, from each side.
5. Coat beaded places of painted parts with black enamel M17TY6-10-1012-78. ^{screw heads Ref.5}
6. Coat ^{screw heads Ref.5} with gray enamel XB-124, GOST1014-74.
7. Mark without type 3 as per NO.010.007 to a depth of 0,5mm apply marking, prior to relay Assembly. Coat marking with varnish MU-134 TY6-10-1291-77.
8. Traction relay should match PM6-1C.000TY.
9. Coil should not have axial displacement, adjust by mounting a required number of rings, Ref.7.

APPROVED	M VASU	PM6-1C-000c5	
CHECKED		TRACTION RELAY	WEIGHT SCALE
CONTROLLERATE OF INSPECTION (ICV)			0.5 2.1
		SHT	SHTS
		47 OF 80	

SECRET/RECEIVED

NUMBER PM6-1C-00074

SHEET 1 OF 20 29

DATE 1980

TY-244

I - 601

ALBUM NO. 58

TECHNICAL PAPERS ON

ARTICLE 84/0848711

-03-15-40007

TECHNICAL

SPECIFICATIONS.

RELAY PM6-10

PM6-1C-00074

CONTROLLERATE OF INSPECTION

(INFANTRY COMBAT VEHICLES)

SECUNDERABAD

9.1.80

30

I-601

NUMBER 846-10-0078

SHEET 2 OF 29

APPENDIX 1/

LIST OF TECHNICAL PAPERS TO WHICH
REFERENCE IS GIVEN IN PRESENT
TECHNICAL SPECIFICATIONS.

Description of technical papers.	Designation of technical papers.	Nos of pages at which reference to technical papers is given.
1. Coordination of application of commercial articles.	GOST 2.117-71	22
2. Sodium chloride.	GOST 4233-77	15
3. Electrical equipment of special transport vehicles. General technical specifications.	OCT B3-1164-72	2,4,5,5a,22
5. Assembly units and parts of track laying machines. Methods and means of preservation.	OCT B3-2381-74	5,22,23.

10 OF 80

109-I.

1 xtpuøddy

List of technical papers to which reference is given in present technical specifications

Description of technical papers	Designation of technical papers	Nos of pages at which reference to technical papers
------------------------------------	------------------------------------	--

Classification of
application of
commercial articles
GOST 2.117-71 22

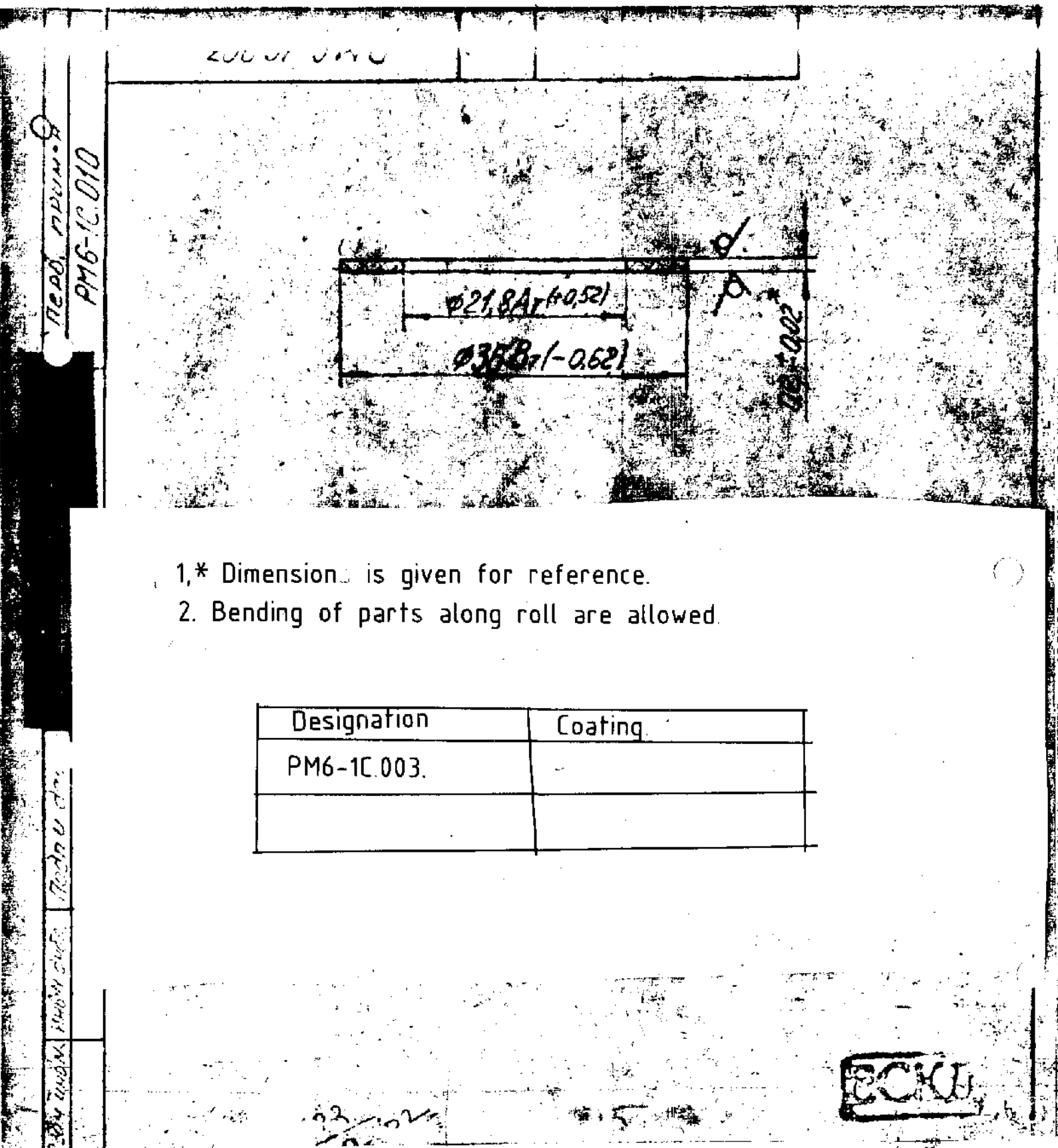
Sodium chloride
GOST 4233-77
15

Electrical equipment
o special transport
vehicles
OST BJ-1164-72 2.4.5.5a22

General technical specifications

Assembly units and parts of track-laying machines. Methods and means of preservation

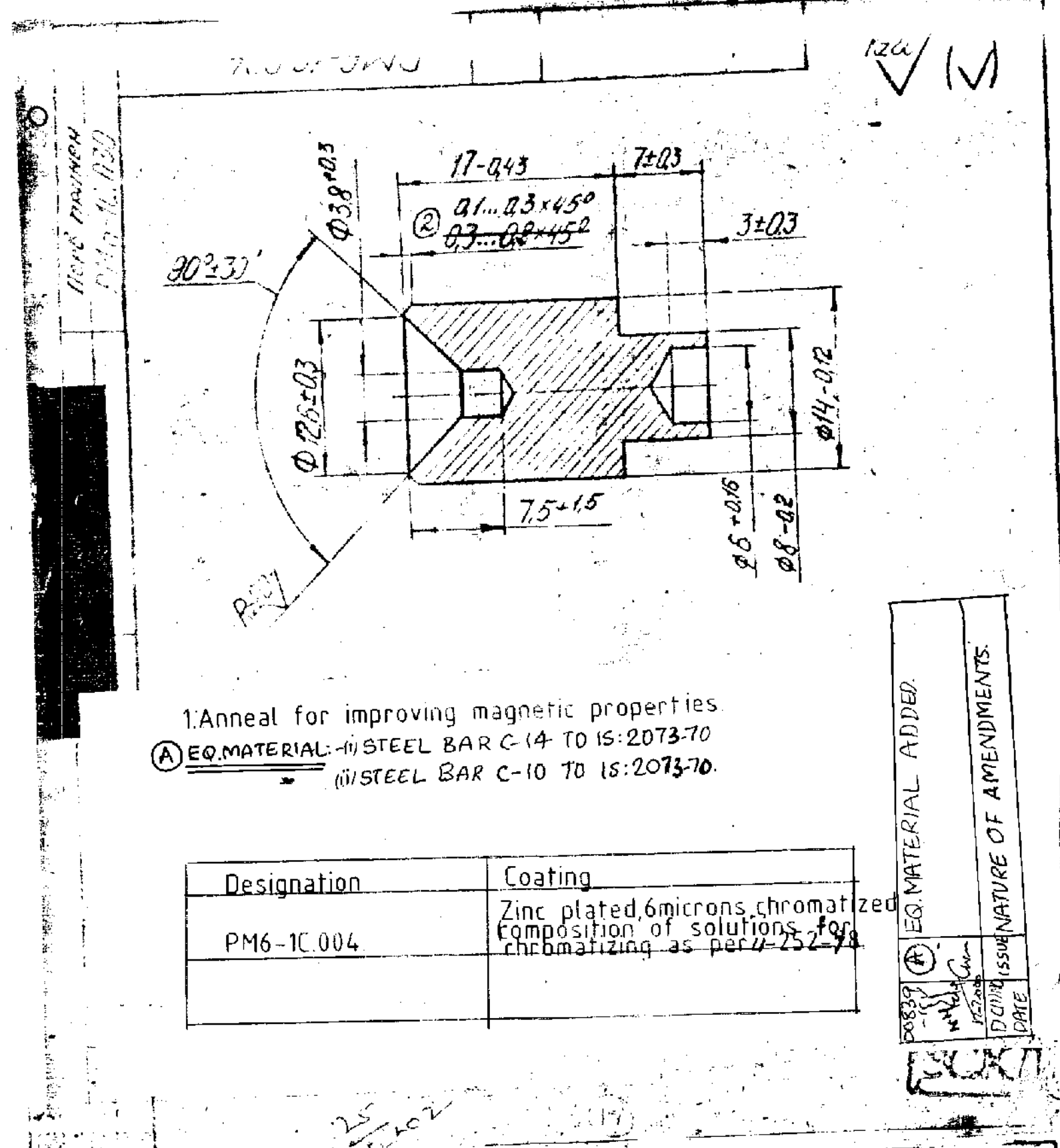
[illegible]



- 1.* Dimension is given for reference.
2. Bending of parts along roll are allowed.

Designation	Coating
PM6-1C.003.	

APPROVED	M VASU	PM6-1C-003	
CHECKED		WASHER	WEIGHT SCALE
CONTROLLERATE OF INSPECTION (ICV)			0.2 2:1
		SHT SHTS	
		Paper board 3B-0.2 GOST 2824-75	59 OF 80



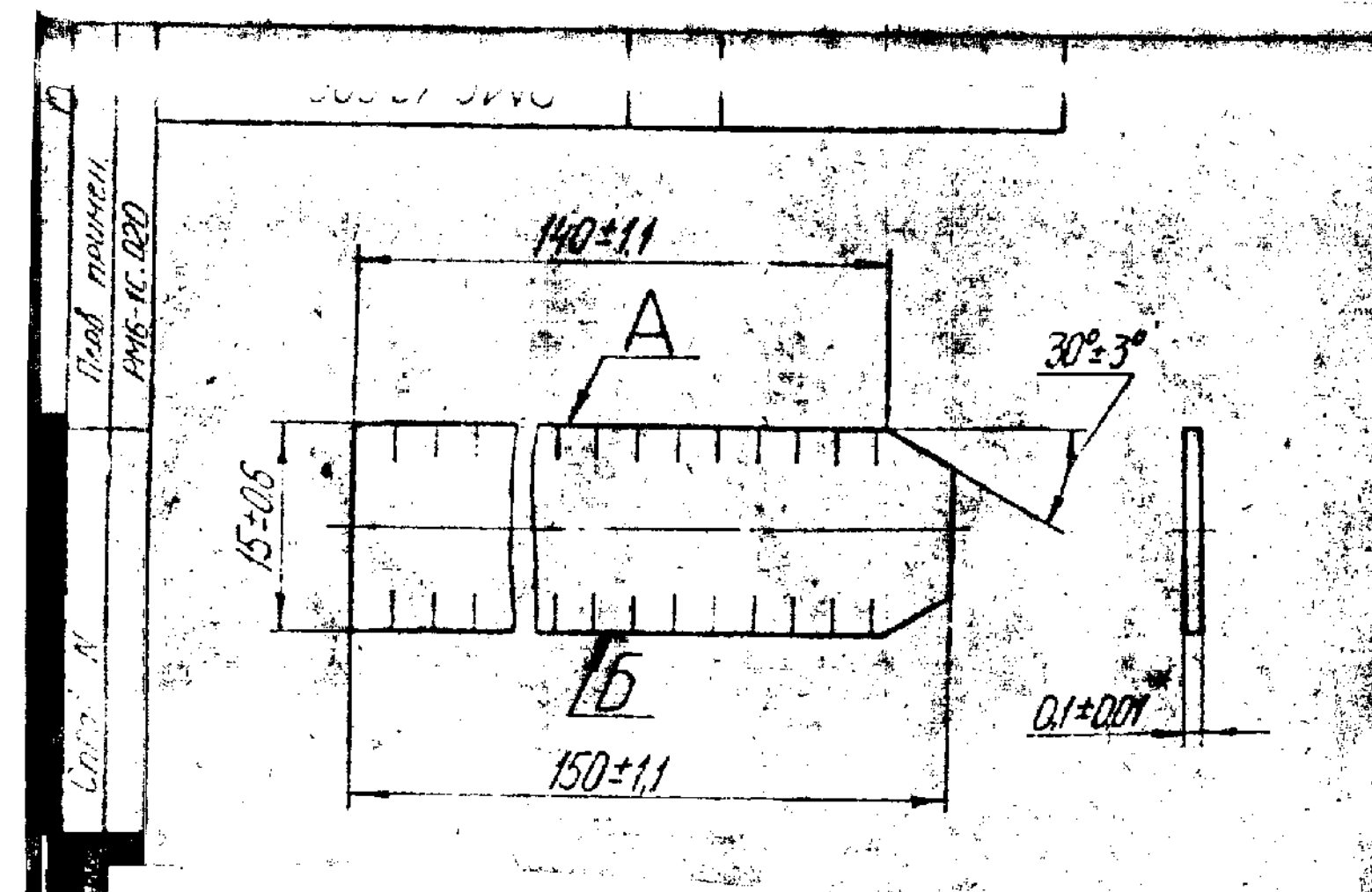
APPROVED	V. VASU	PM6-1C.004	
CHECKED		WEIGHT	SCALE
CONTROLLERATE OF INSPECTION (ICV)		22.4g	25.1
		SHT	SHTS
		Steel to GOST 1050-74	
		67 OF 80	



- ✓✓

00839-10V	(A)	E.Q. MATERIAL ADDED.
NEW 07-12-2000 DCI/NO DATE	Con	ISSUE NATURE OF AMENDMENT

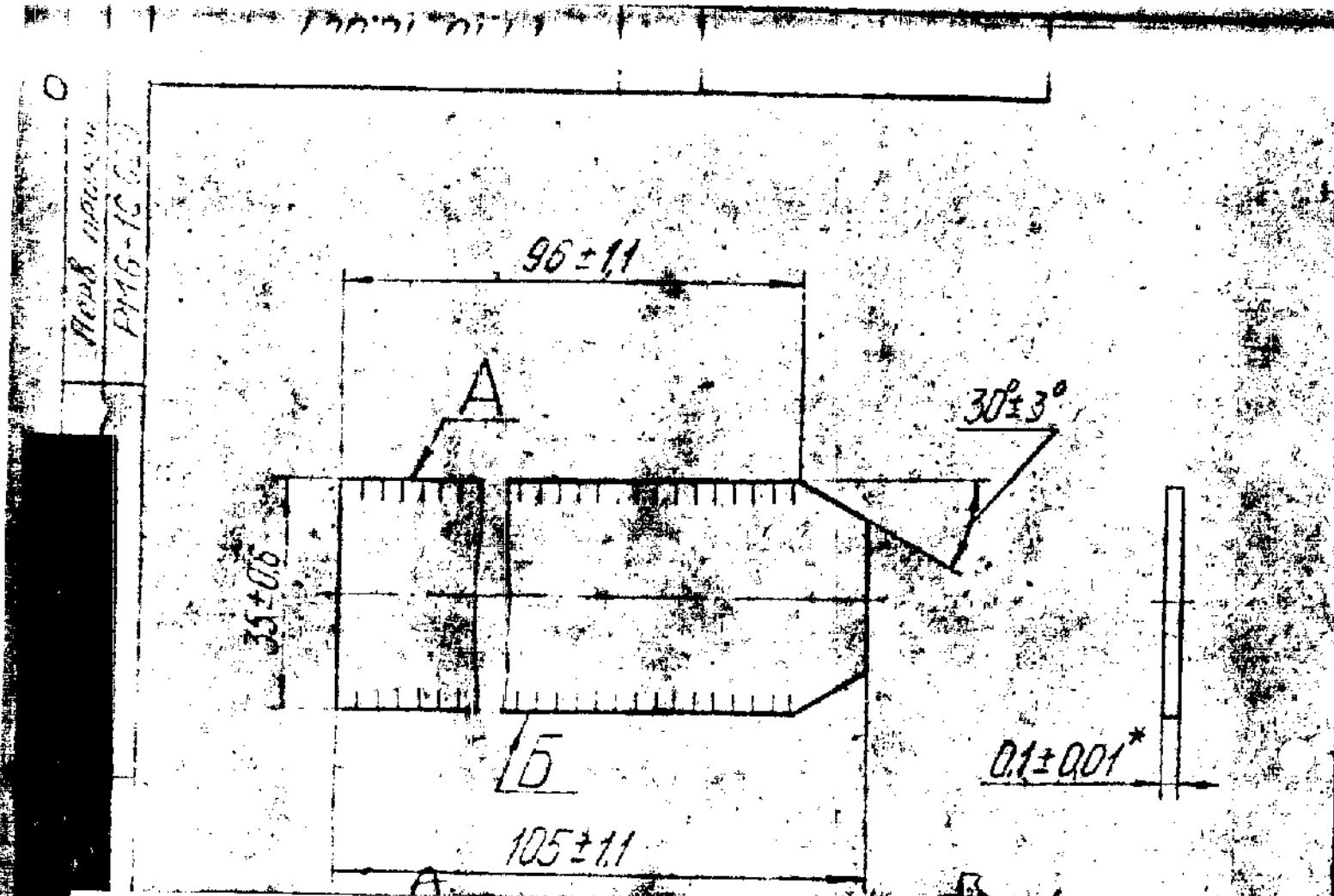
26
26



1. * Dimension is given for reference.
2. Make 35 cuts to a depth of 3mm equally spaced on surfaces, A and B
- 3.

Designation	Material
PM6-1C.006	Varnished fabric/16M105-01 GOST2214-78.

APPROVED	M. VASU	PM6-1C-006	
CHECKED		GASKET	
CONTROLLERATE OF INSPECTION (ICV)		WEIGHT	SCALE
		1g	2:1
		SHT	SHT'S
		See table	63 OF 80



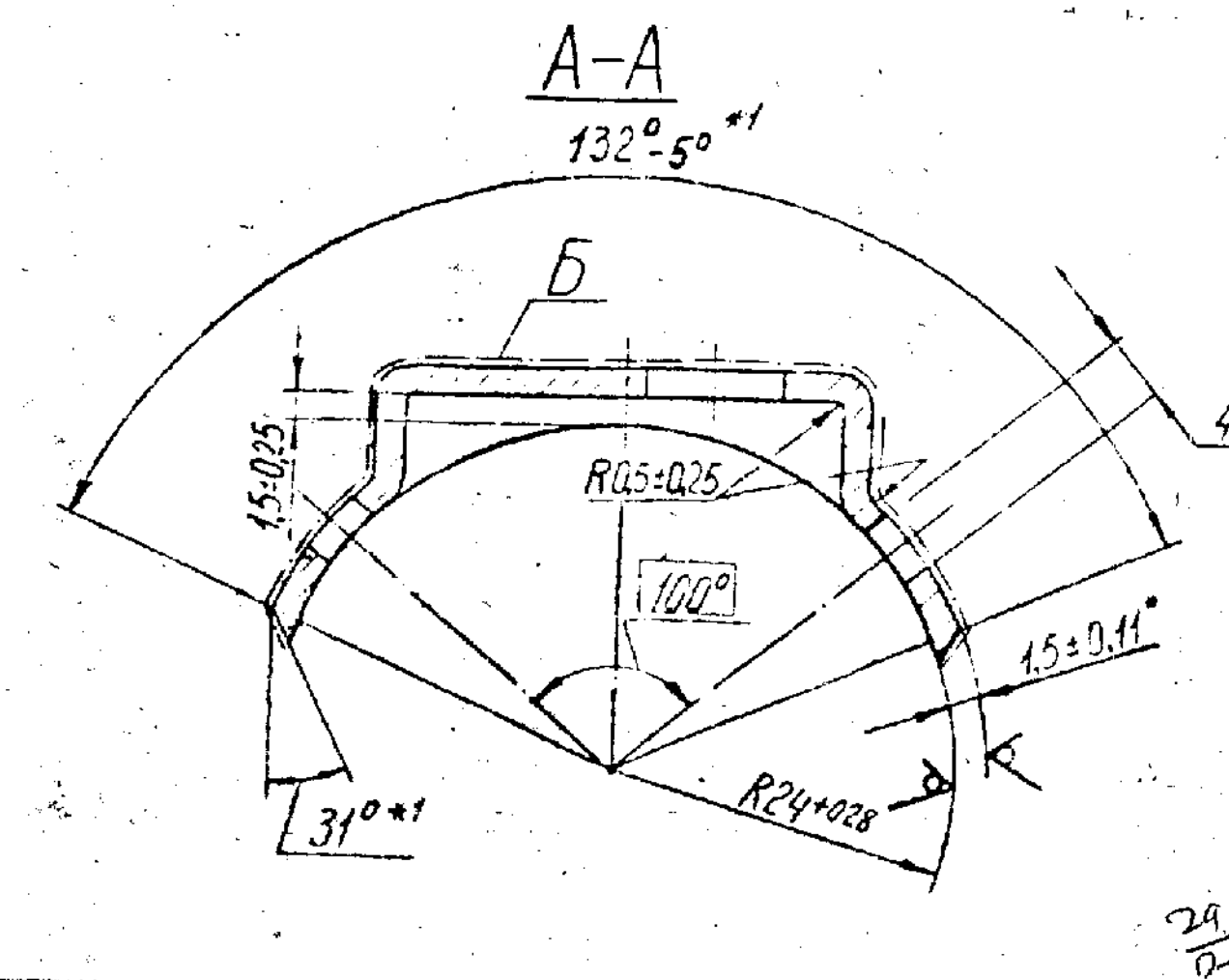
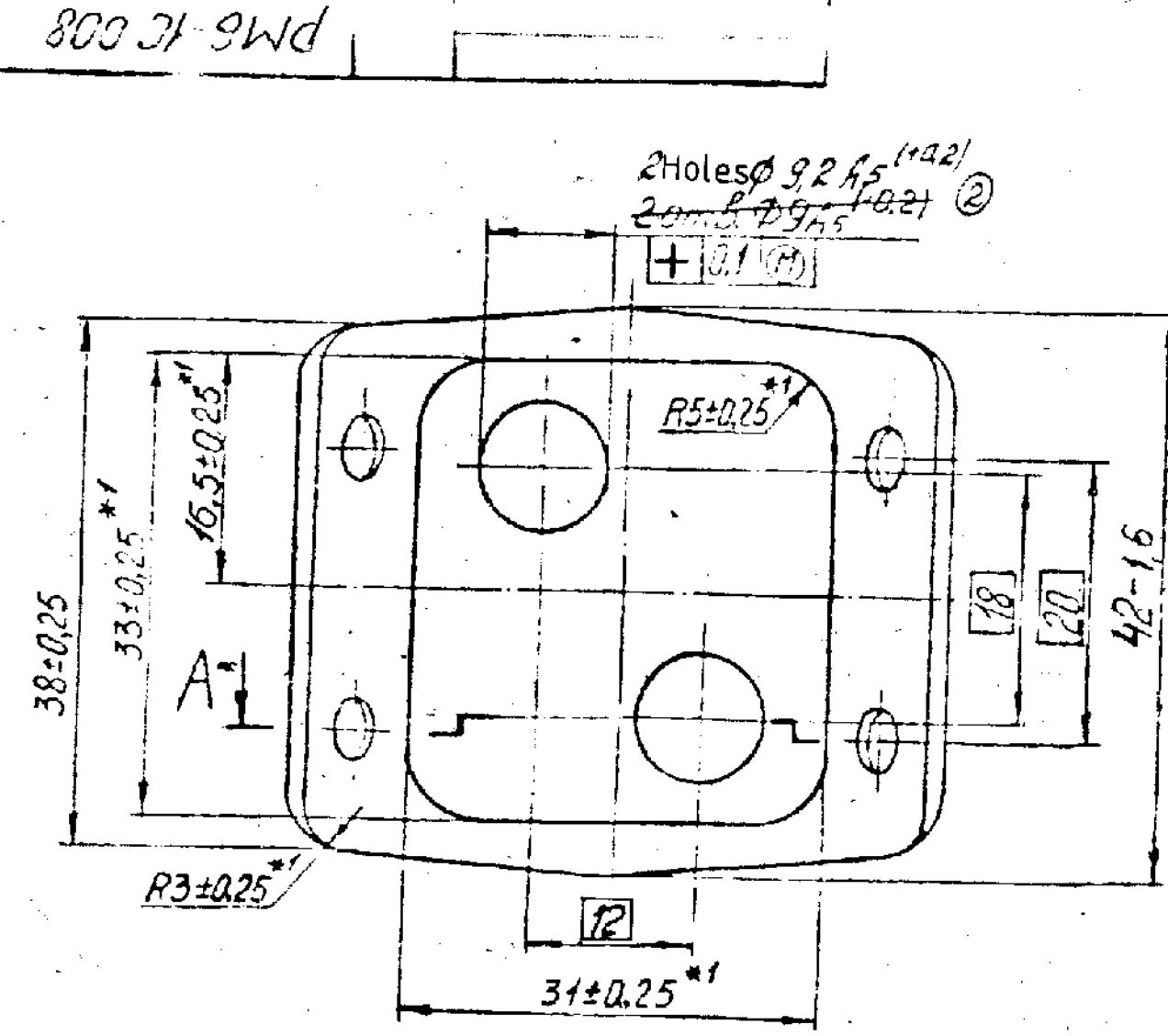
Designation	Material
PM6-1C.007.	Varnished fabric M.105-01 GOST2214-78.

*Dimension is given for reference.

2. Make 32 cuts to a depth of 3mm equally spaced on surfaces A and B.

28 62

APPROVED	M. VASU	PM6-1C.007	
CHECKED		GASKET	WEIGHT
CONTROLLERATE OF INSPECTION (ICV)			1g
		SCALE	
		1:1	
		SHT	SHTS
		84	64 OF 80



1. * Dimension is given for reference.
2. Dimensions are provided with tool, checked at least once in a quarter.
3. Deviation from symmetrical arrangement of dimensions with respect to axes should not exceed 0.5mm.
4. Coating of surface B with black enamel MA-12, GOST 9754-76, EX, ②
5. Select the process of applying varnish and plain coating in accordance with OST B-1928-73.
- ① EQ. MATERIAL: COLD ROLLED CARBON STEEL STRIP TO GRADE EDD, RIMMED STEEL TO IS: 4030-73.

Designation	Coating
PM6-1C.008	Zinc-plated, 24 microns chromitized) composition of solution for chromitizing as per 4.252-78.

00839-KV

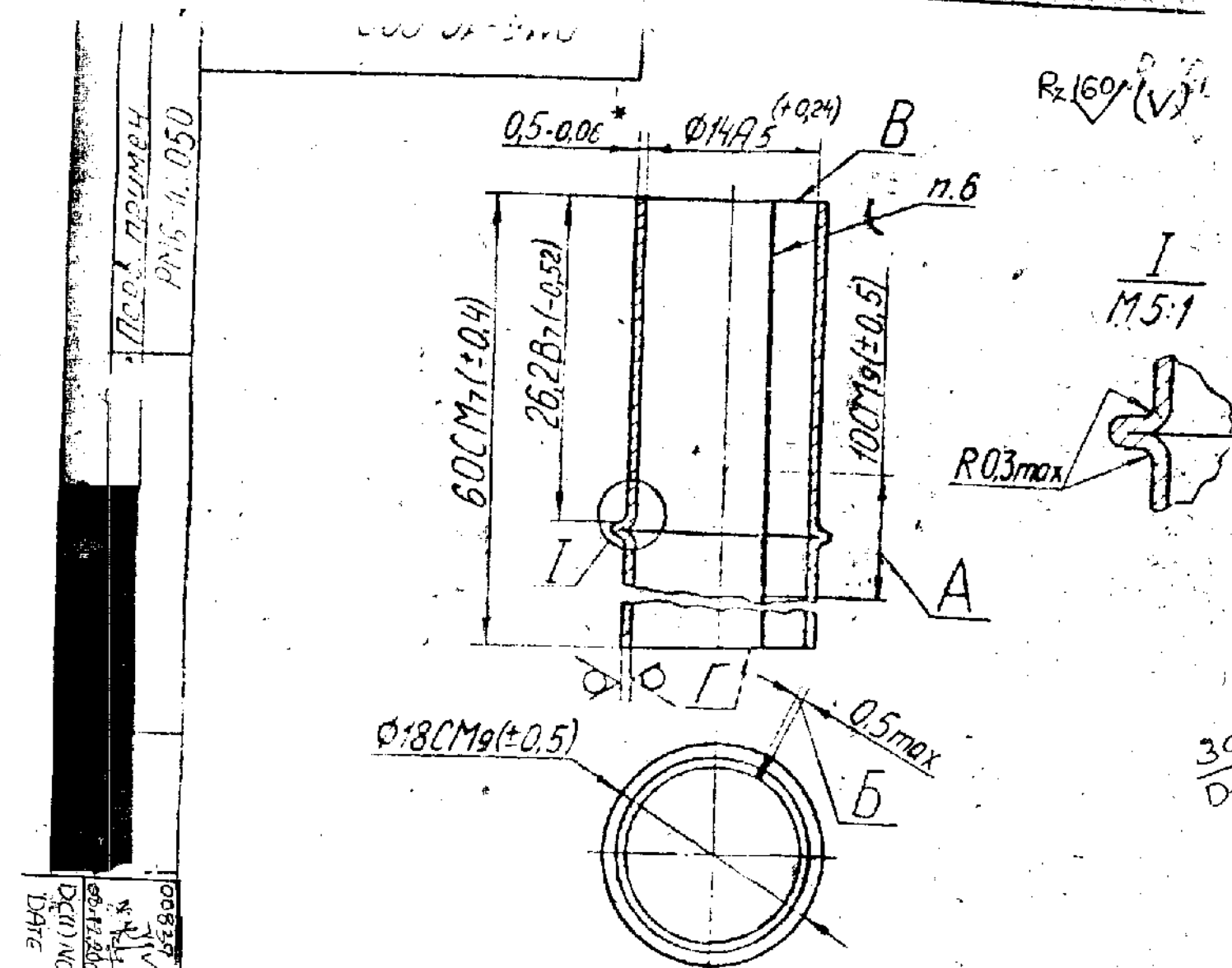
DATE

ISSUE

NATURE OF AMENDMENTS

① EQ. MATERIAL ADDED

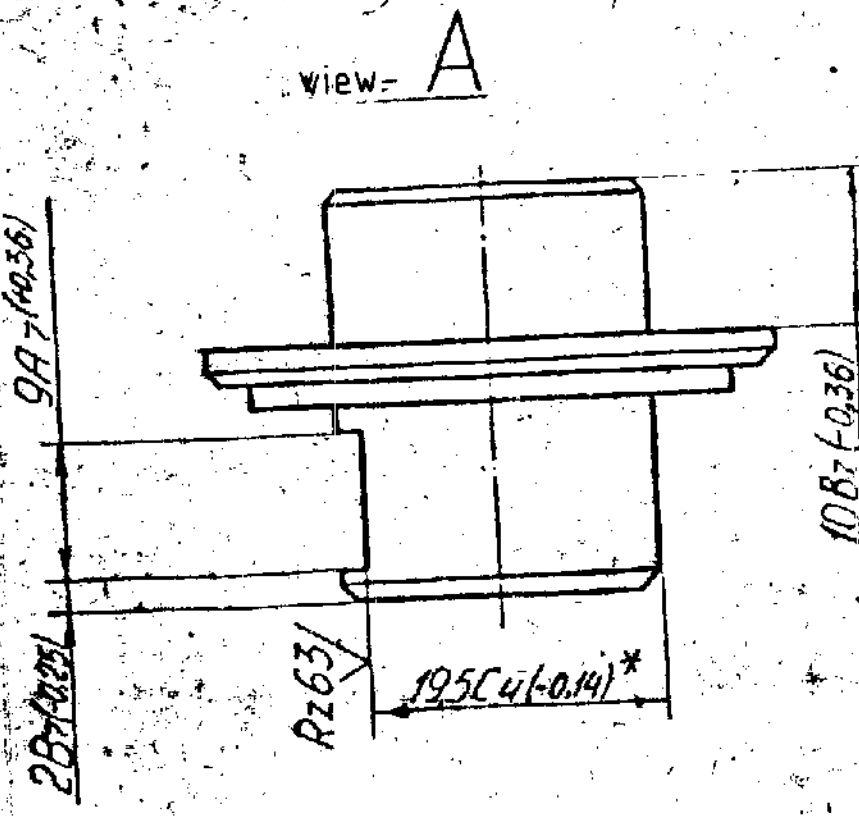
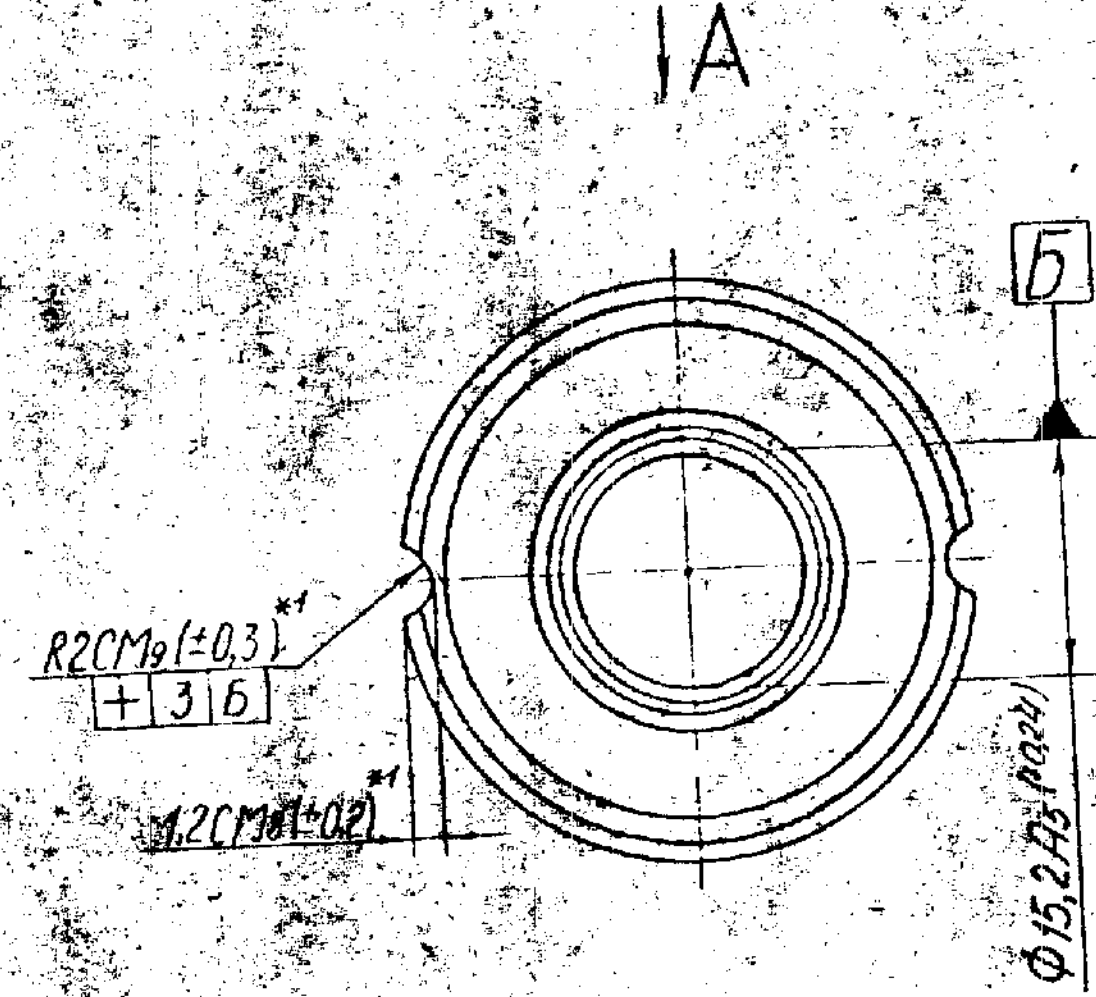
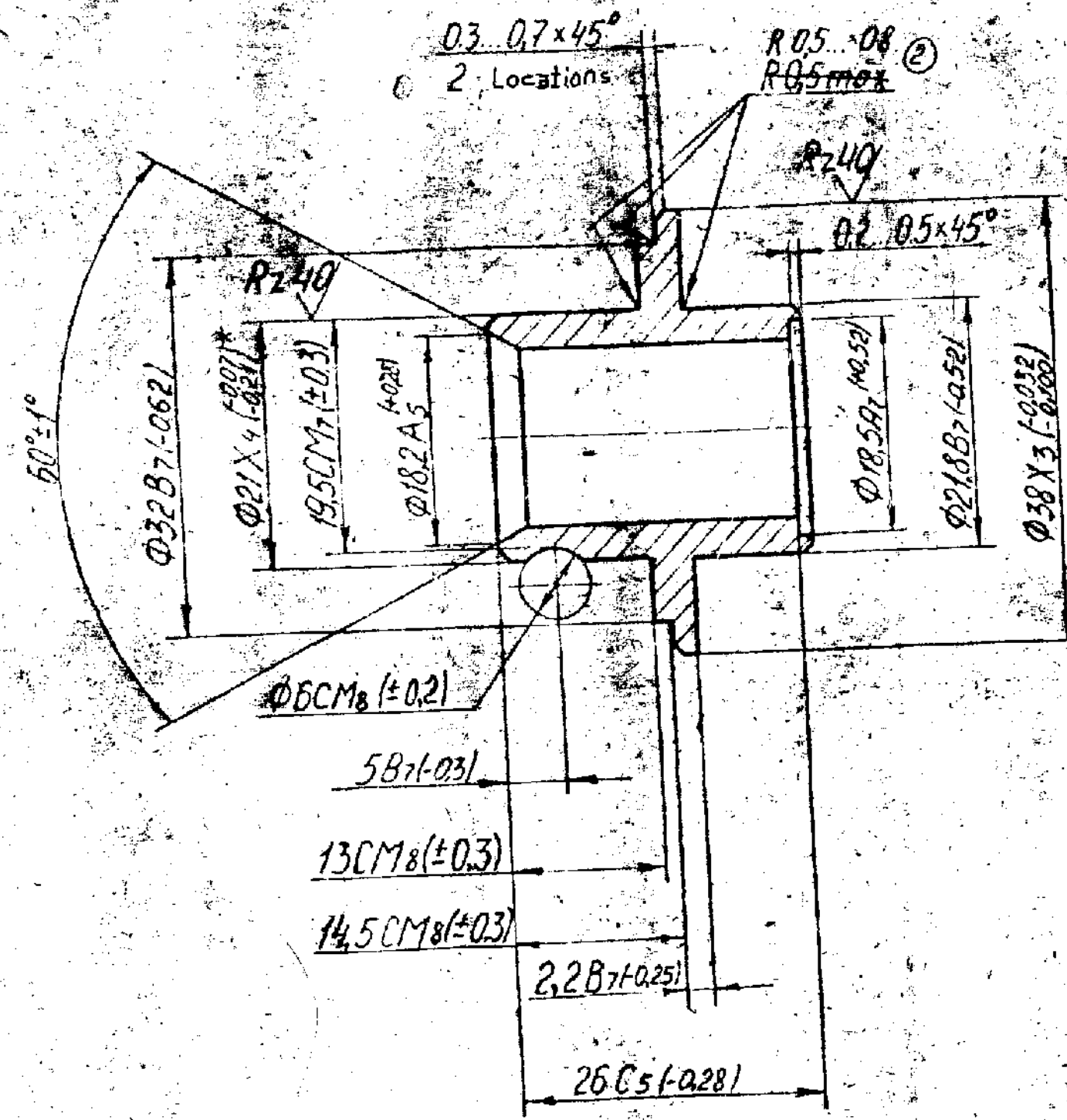
APPROVED	M. VASU	PM6-1C.008	
CHECKED		COVER	WEIGHT SCALE
CONTROLLERATE OF INSPECTION (IC V)			27.5g
		SHT	SHTS
		10.69 OF 80	



1. Alternate material-band АПНМ0,5/63 GOST2208-75.
 2. It is allowed to increase dimensions B by 1mm maximum at collar place over the length of A.
 3. Non parallelism of surfaces B and Г should not exceed 0,6mm
 4. * Dimension is given for refrence.
 5. Solder ПОССУ НО-2, GOST21930-76. Flux ФКН, OST4CO.033.000. Dress after soldering.
 6. Coating: Chemically, passivated.
 (A) EQ MATERIAL: BRASS SHEET Cu Zn 37 TO IS:410-77.

APPROVED	M VASU	PM6-1C.009	
CHECKED		BUSHING	WEIGHT SCALE
CONTROLLERATE OF INSPECTION (ICV)			0.012 2:1
		SHT SHTS	
		50 OF 80	

PM6-1C-011



- 1.* Dimensions after coating.
2. Dimensions provided with tool, checked at least once per quarter.
3. Coating: Cadmium plated, 24microns^{thick}, chromatised.
- ④ EQ MATERIAL: STEEL BAR C-14 TO IS: 2073-70
- ⑤ STEEL BAR C-14 TO IS: 2073-70

00832	④	EQ MATERIAL: ADD
DATE	ISSUE	NATURE OF AMENDMENTS

APPROVED	M VASU	PM6-1C-011
CHECKED		BUSHING
CONTROLLERATE OF INSPECTION (ICV)		Steel 10 GOST 1050-75
		61 OF 80

FORMAT	ZONE	REF. NO.	DESIGNATION.	DESCRIPTION.	QTY	REMARKS
				Technical papers		
13			PM6-1C.020CB	Assembly drawing.		
				Assembly units.		
11	1		PM6-1C.050	Frame	1	
				Parts.		
11	2		PM6-1C.006	Gasket	1	
11	3		PM6-1C.007	Gasket	1	
				Materials		
	4			Wire ПЗ10-5		
				GOST 2773-78.	0,5	Kg
	5			Paper(sheet) КОМ2-22		
				GOST 1908-77	0,002	Kg
	6			Varnished cloth, ПЛОМ1050.1		
				GOST 2214-78	0,01	m.
	8			Thread "Extra strong"		
				No:00 at 12 addition polish		
				Grade 1, GOST 6309-73.	0,15	m

APPROVED

CHECKED

**CONTROLLERATE
OF
INSPECTION
(ICV)**

H. VASU

PM6-1C.020

COIL

WEIGHT

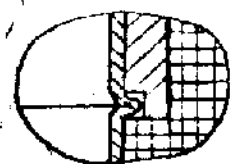
SCALE

SHT 1 SHTS 2

48 OF 80

[illegible]

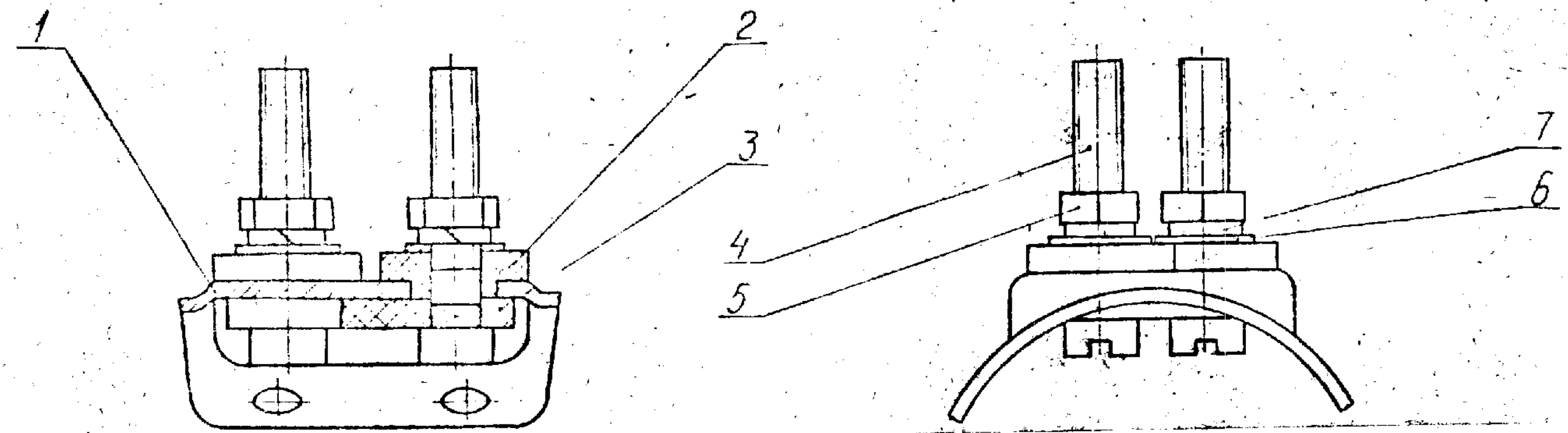
APPROVED	M VASU	PM6-1C. 020	
CHECKED		COIL	WEIGHT
CONTROLLERATE OF INSPECTION (ICV)			SHT 2 SHTS 2
		49 OF 80	



- | | | | | | | | |
|--|----------|---|--|--------|-------|--|----------|
| APPROVED | MADE | PM6-1C.020C5 | | | | | |
| CHECKED | | Coil | <table border="1"> <tr> <td>WEIGHT</td> <td>SCALE</td> </tr> <tr> <td></td> <td>2:1</td> </tr> </table> | WEIGHT | SCALE | | 2:1 |
| WEIGHT | SCALE | | | | | | |
| | 2:1 | | | | | | |
| CONTROLLERATE
OF
INSPECTION
(ICV) | |  | <table border="1"> <tr> <td>SHT</td> <td>SHTS</td> </tr> <tr> <td></td> <td>50 OF 80</td> </tr> </table> | SHT | SHTS | | 50 OF 80 |
| SHT | SHTS | | | | | | |
| | 50 OF 80 | | | | | | |

PM6-1C.040C5

7108 11/11/11
PM6-1C.040C5



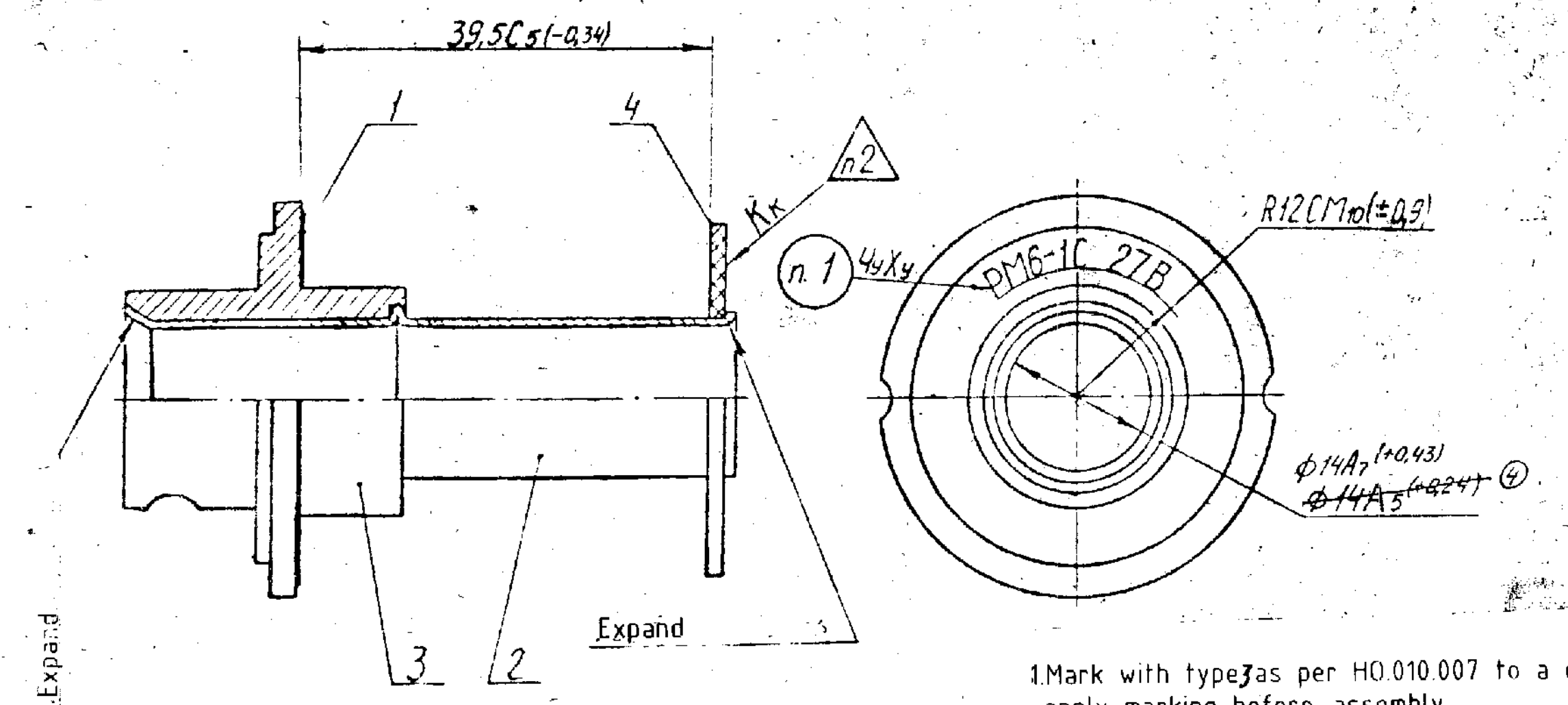
Punch nuts, Ref, No5, is three places.

18
12.602

APPROVED	M. VASU	PM6-1C.040C5	
CHECKED		COVER	WEIGHT SCALE
CONTROLLERATE OF INSPECTION (ICV)			42.5
		SHT	SHTS
		540x80	

9J05001-8W8

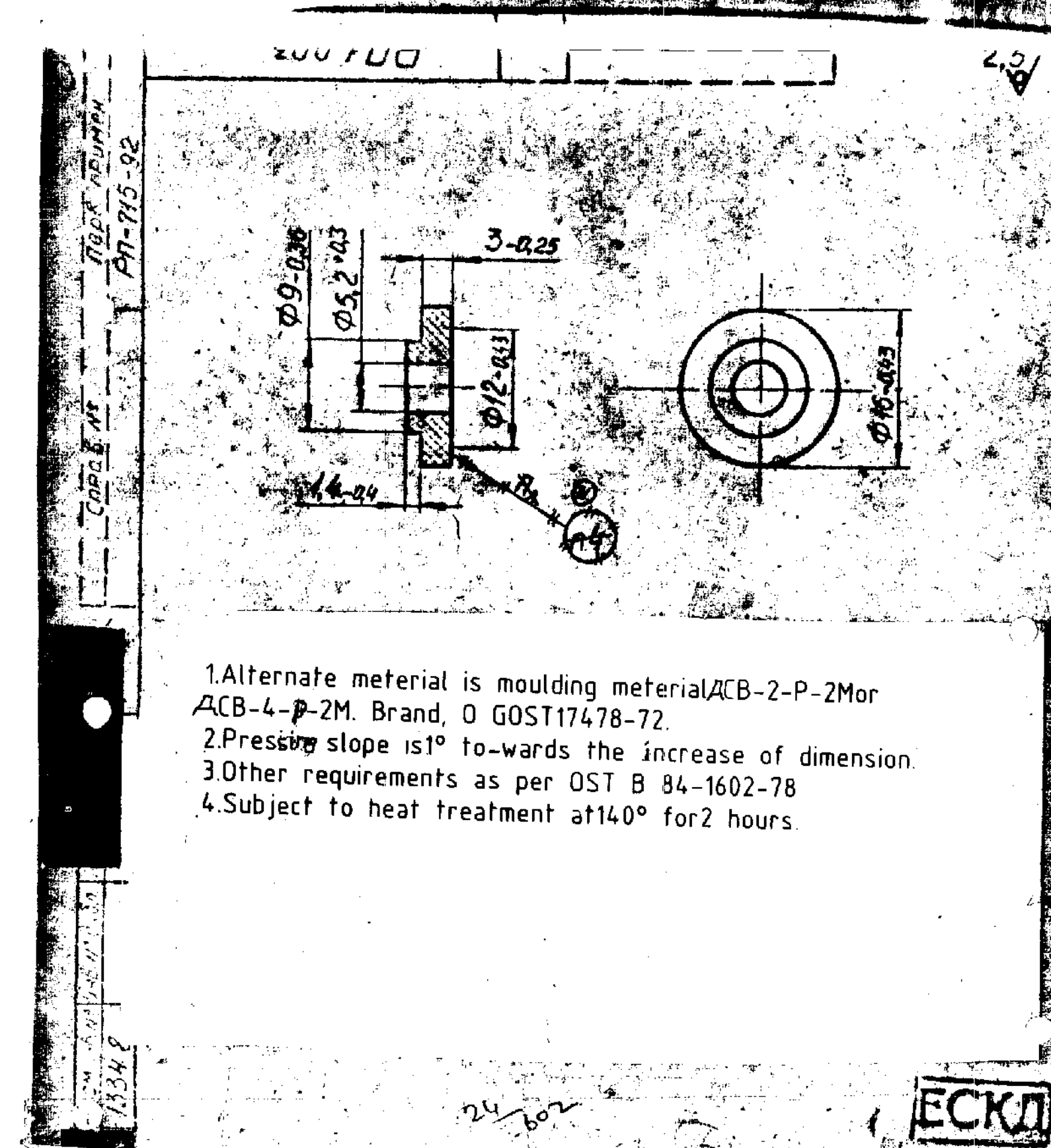
PM6-1C.050



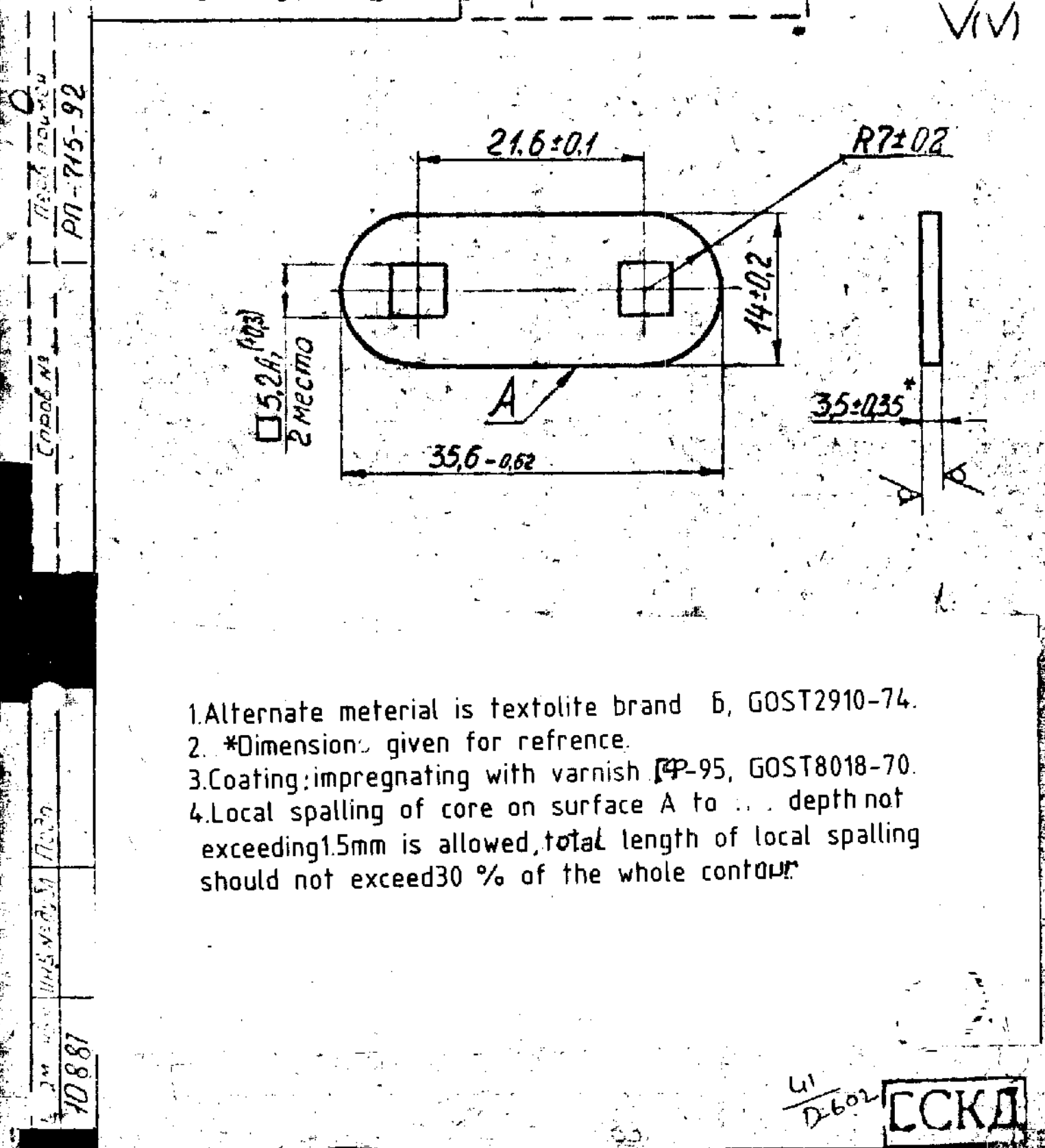
1. Mark with type 3 as per H0.010.007 to a depth of 0,5mm
apply marking before assembly
2. Stamp.
3. While flowing out the bushing, Ref. 2. Breakage of soldering
over a length not exceeding 10mm is allowed from each
end.

20
D.602

APPROVED	M VASU	PM6-1C.050C5	
CHECKED		FRAME	WEIGHT SCALE
CONTROLLER OF INSPECTION (IC VI)			0.87 2.1
		SHT	SHTS
			56 OF 80

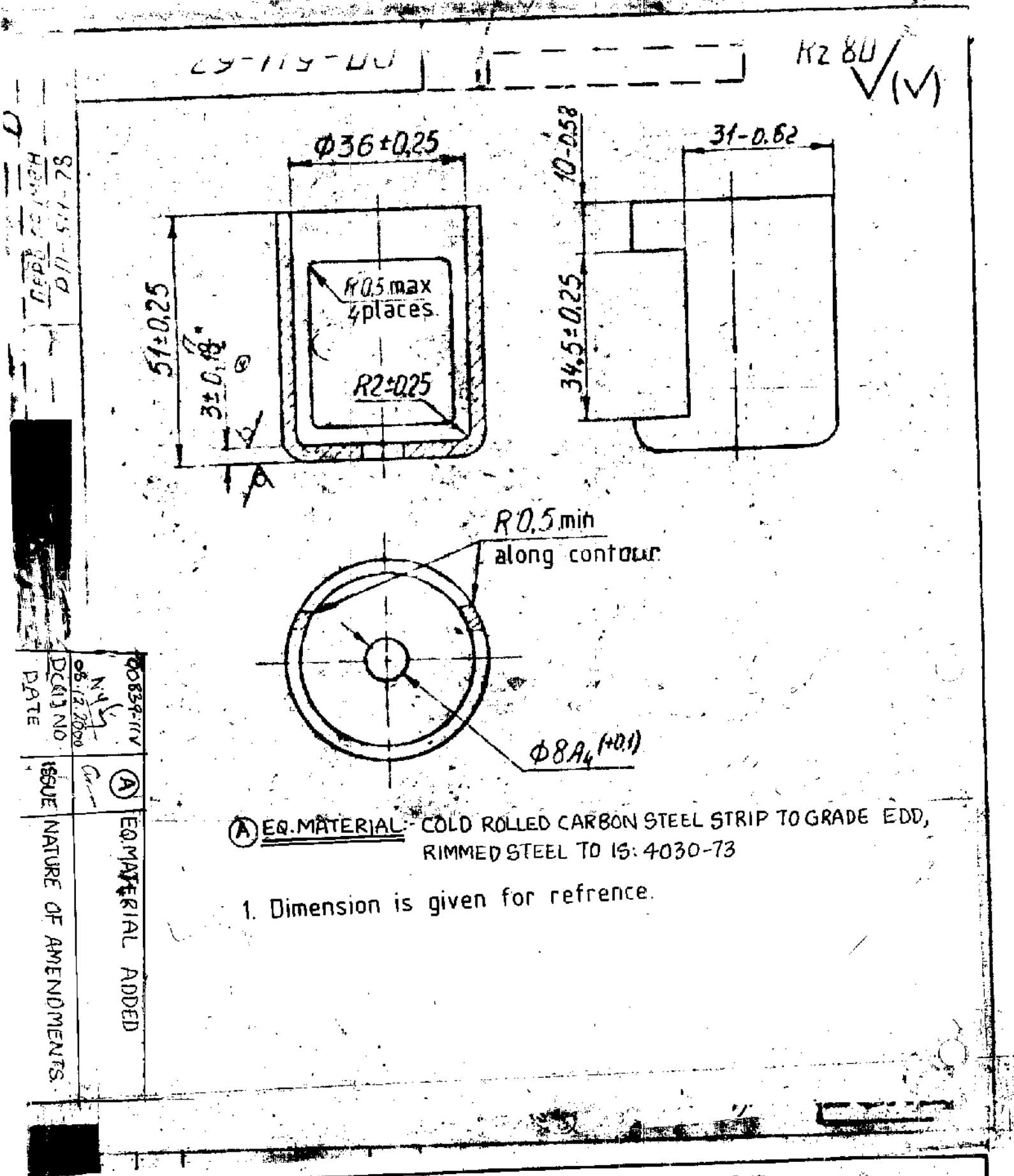


APPROVED	M. VASU	P 1.003	
CHECKED		BUSHING	
CONTROLLERATE OF INSPECTION (ICV)		WEIGHT	SCALE
		0.001	2:1
		SHT	SHTS
		Moulding Material AF-48 GOST 20437-75	
		70 OF 80	



1. Alternate material is textolite brand 6, GOST2910-74.
2. *Dimensions given for reference.
3. Coating: impregnating with varnish П-95, GOST8018-70.
4. Local spalling of core on surface A to ... depth not exceeding 1.5mm is allowed, total length of local spalling should not exceed 30 % of the whole contour.

APPROVED	M. VASU	ПП-161-68			
CHECKED					
CONTROLLERATE OF INSPECTION (ICV)		TERMINAL PANEL		WEIGHT	SCALE
				1.8g	2:1
		Textolite A-3-5 GOST 2910-74		SHT	SHTS
					71 OF 80



APPROVED		M VASU		PN-511-67					
CHECKED				CASING		WEIGHT		SCALE	
						120g			
CONTROLLERATE OF INSPECTION (ICV)						SHT		SHTS	
								6.5 F 8.0	
						70			

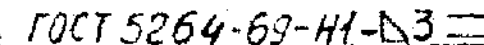
[illegible]

M VAS		PP-511-79	
CONTROLLERATE OF INSPECTION (ICV)	CASE WITH COVER PLATE	WEIGHT	SCALE
	SHT	SHTS	
	84	57 OF 80-	

01-11-79

WELLS ROAD, GLENVIEW, ILL. 60045

Veruon 91.14



16

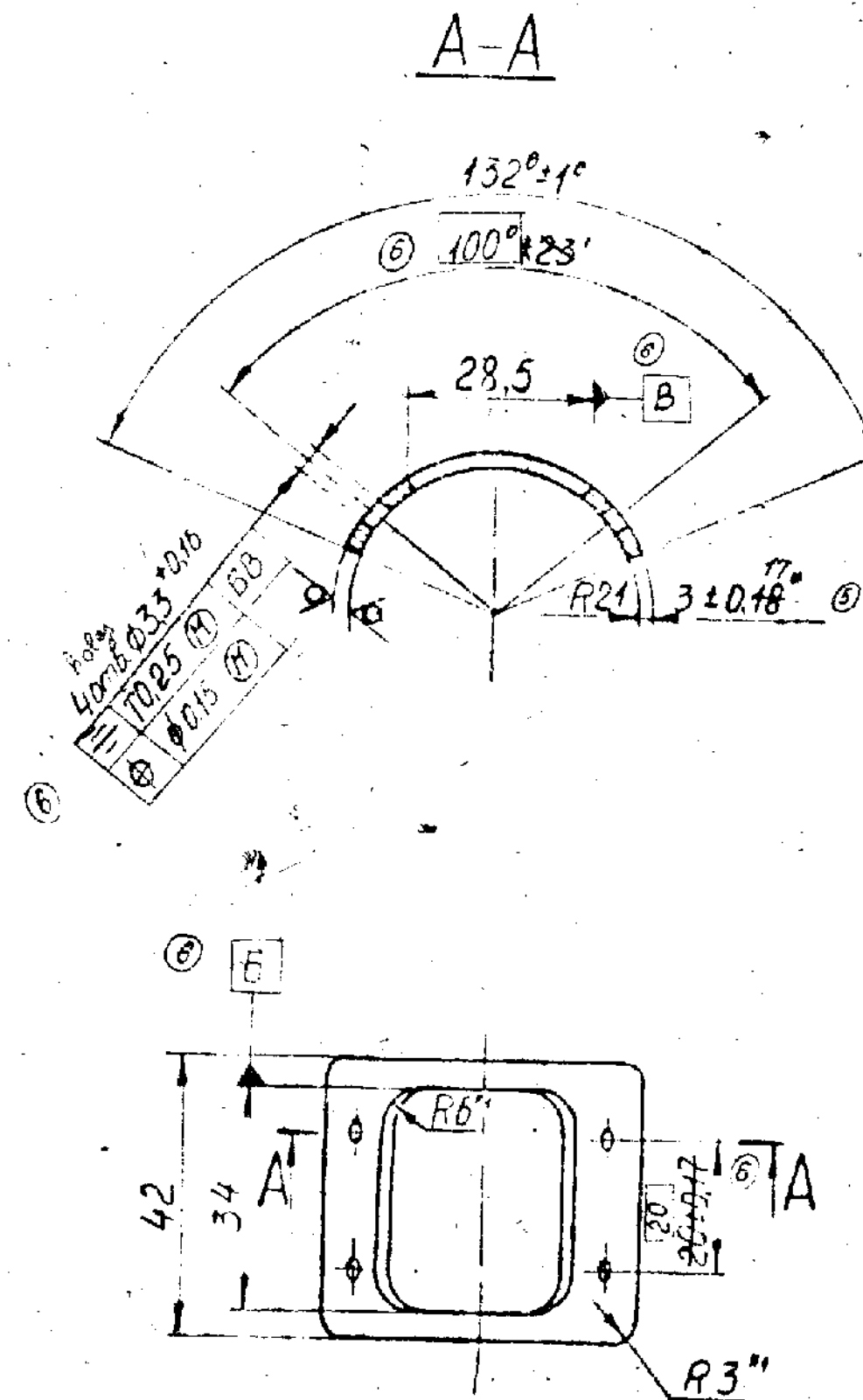
ЕСКАД

APPROVED	M VASU	PN-511-79CB	
CHECKED			WEIGHT SCALE
CONTROLLERATE OF INSPECTION (ICV)	CASING WITH COVER PLATE		SHT SHTS
		84	58 OF 80

62-115-114
HOWARD ROSS
2

4322

5004



4-0-10GOST16523-70.

ions of dimensions $\pm 0,25\text{mm}$.

ed with tool.

arrangements with respect to
the limits

CARBON STEEL STRIP TO GRADE EDD, RIMMED
4030-73.

① EQ. MATERIAL: COLD ROLLED CARBON STEEL STRIP TO GRADE EDD, RIMMED
STEEL TO IS: 4030-73.

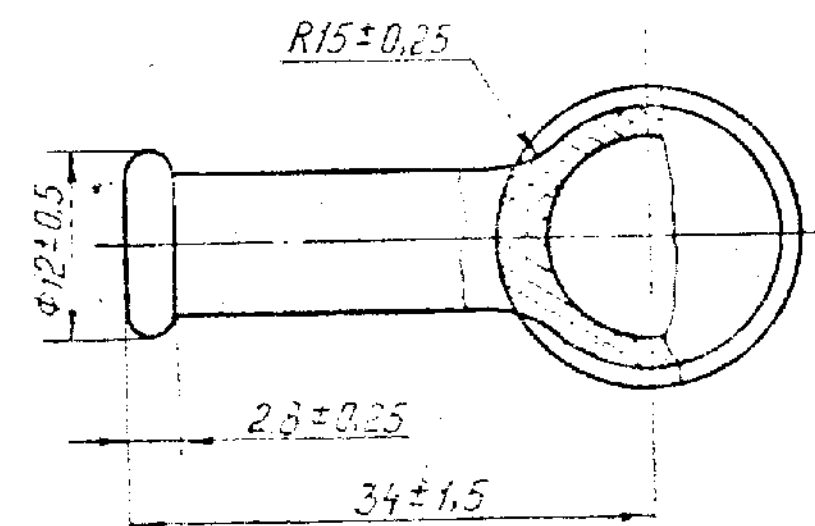
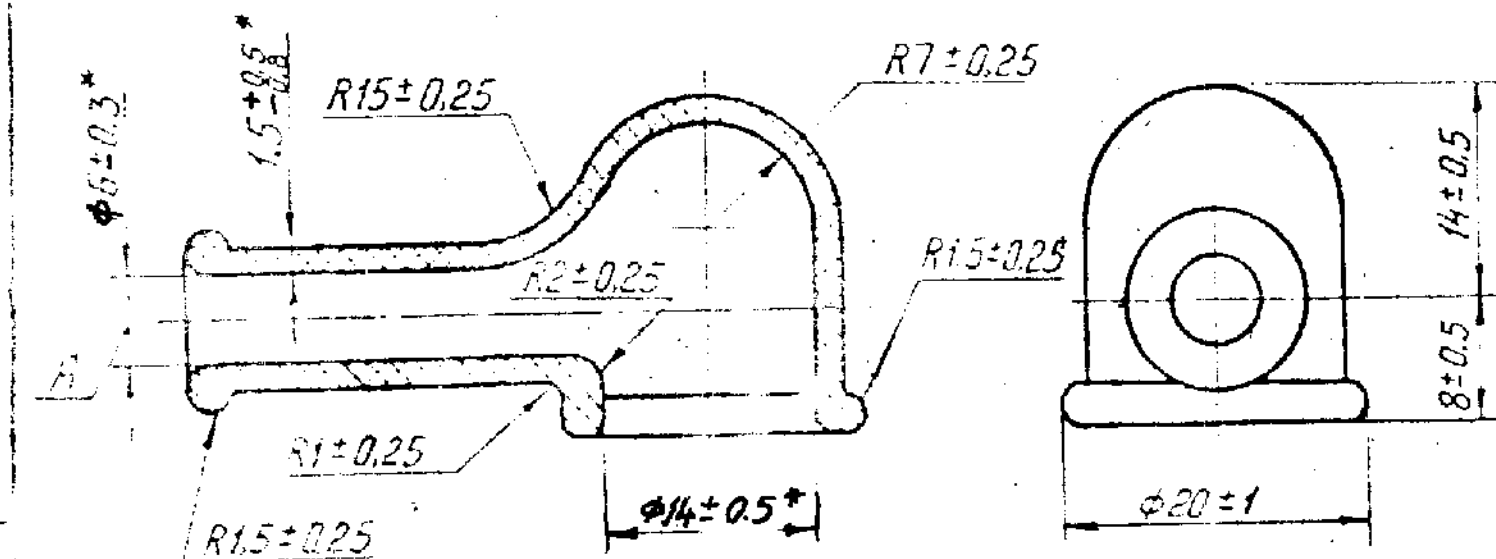
Rz 160
✓(✓)

00839-104 11/21/74 12/2/74	(A) EQ. MATERIAL ADDED.
DC(1) NO DATE	ISSUE NATURE OF AMENDMENTS

APPROVED	M. VASU	P7-511-80	
CHECKED			
CONTROLLERATE OF INSPECTION (ICV)	COVER PLATE	WEIGHT	SCALE
		27g	1:1
Sheet	E.D. GUST 10-11-79 D. B. 108K 10-15-79	SHT	SHTS
			66 OF 80

99-81-00

MH-1



1. Provide all dimensions, except dimensions having symbol * with tool, checked periodically once per quarter.
2. At the place of intersection of diameter A with $\phi 14 \pm 0.5$, it is allowed sharp corner with burr up to 1mm, swelling at places of crossing of diameters, and tear outs to a depth not exceeding 1mm, with total length up to 1/3 of circumference.
3. Other technical requirements as per T/105 431-77.

Traction Relay

33
D-602

ECKI

APPROVED	M. VASL	CA-18-66	
CHECKED		RUBBER CAP	WEIGHT SCALE 4.5g 2:1
CONTROLLERATE OF INSPECTION (ICV)		Soft rubber	SHT SHTS 77 OF 80

I-601 NUMBER 176-0013	SHEET 27 OF 28 80
	0810 74

6. SUPPLIER'S GUARANTEE.

6.1. Relay should be accepted by technical inspection department of manufacturing factory.

Supplier guarantees the compliance of relay with requirements of present technical specifications and no failure operation provided that customer observes the conditions of operation; transportation and storage set forth in technical specifications.

Guarantee life is set for 500 operating hours of main engine within the run of 6000 or 8000 km in compliance with guarantee for vehicle.

Storage life of relays, preserved with regard to OST B3-281-74 in store houses of consumer should not exceed 5 yrs or 8 yrs when packed in sealed bags as per OST B3-2381-74.

NUMBER 14-100014
SHEET 22 OF 22

I-601

LIST OF APPENDICES.

1. List of technical papers to which reference is given in present Technical Specifications.

2. Relay PM6-C, out line drawing PM6-10.000 Ty

12