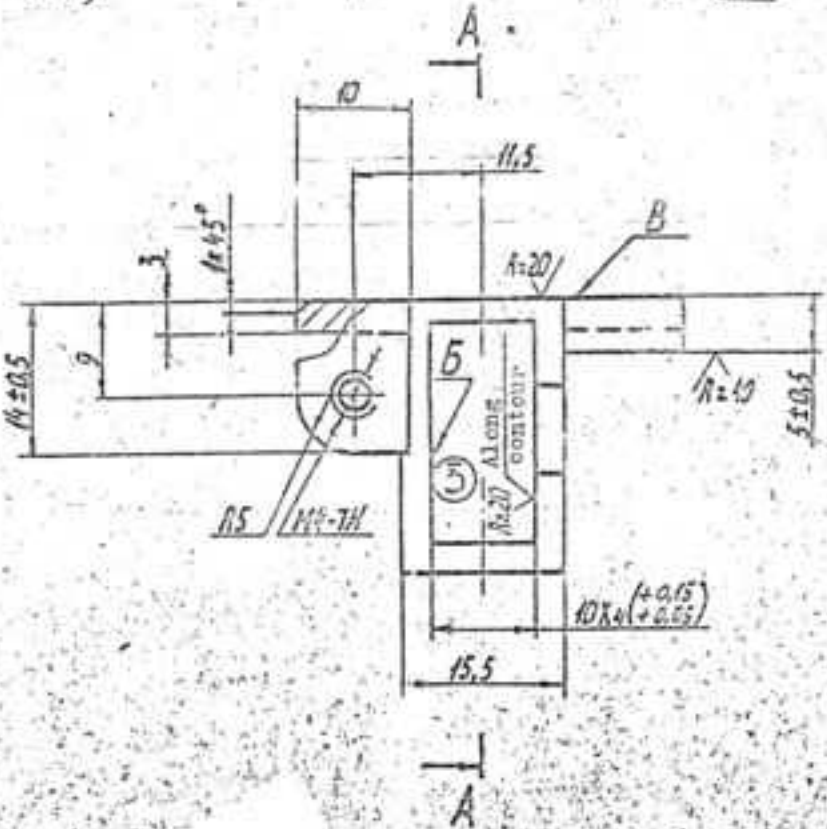
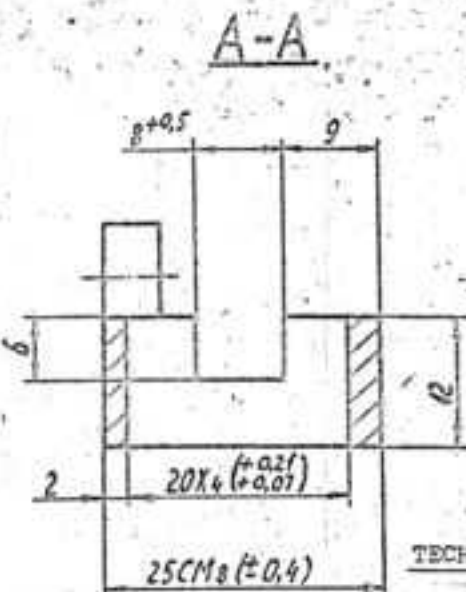
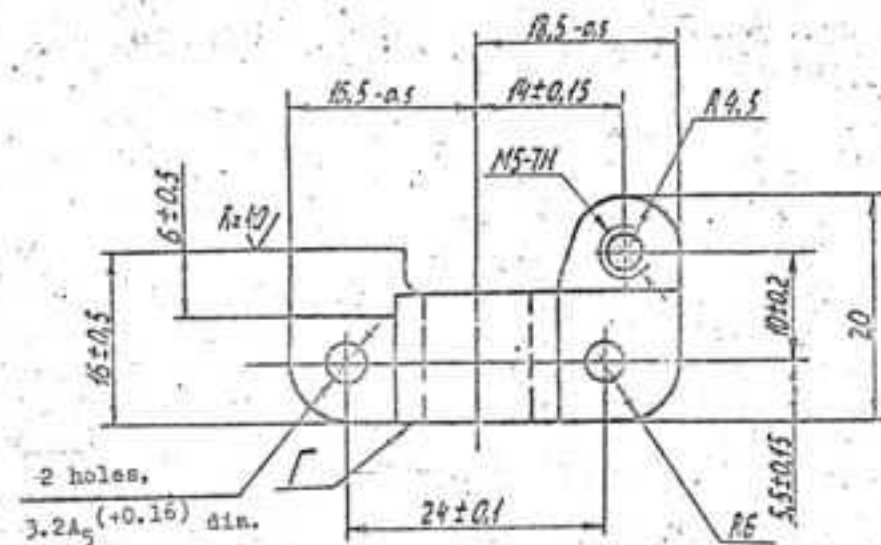


MB67.035



TECHNICAL CONDITIONS

1. Material substitute: Casting I-OCT3-4227-79 AL9 KTS GOCT 2685 75
2. Tolerable deviations of sizes are within ±0.25 mm, angular deviations, within ±30' unless otherwise specified.
3. Casting slope gradients are 2 in increasing order of outer sizes and in decreasing order of inner sizes.
4. Casting radii are within 1 mm.
5. Round off sharp edges to R = 0.3 mm.
6. Squareness tolerance of axis of window B relative to surface is within 0.3 mm.
7. Markings may be omitted.
8. Tolerable sinks left by the pushers on surface Γ, should be within 0.5 mm deep.

APPROVED	MB67.035	WEIGHT	SCALE
CHECKED	BRUSH HOLDER	12g	2
CASTING I-OCT3-4227-79 AL9 KTS GOCT 2685-75		SHT	SHTS

MB67.035

EXPLANATORY NOTES TO TECHNICAL CONDITIONS

BRUSH HOLDER SHOULD BE MANUFACTURED FROM ALUMINIUM PRESSURE DIE CASTING ALLOYS OF GRADES AL2 OR AL9 OF GOCT 2685-75 THE METHOD OF CASTING FOR AL2 IS PRESSURE DIE CASTINGS (K) AND FOR AL9 CHILL MOULD CASTING (K)

CHEMICAL COMPOSITION

GRADE OF ALLOYS	BASIC COMPONENTS%		ADMIXTURE % (MAX)													
	ALUMINIUM	MAGNESIUM	SILICON	MANGANESE	IRON	MAGNESIUM	MANGANESE	COPPER	ZINC	TIN	LEAD	TITANIUM	BERILLIUM	ZIRCONIUM	TOTAL OF CALCULATED ADMIXTURES	
					K	Д									K	Д
AL2	BASE	-	10-130	-	-	1.50	0.10	0.50	0.60	0.30	-	-	0.10	-	0.10	2.70
AL9	BASE	0.2-0.4	6-80	-	100	-	-	0.50	0.20	0.30	0.01	0.05	-	0.10	0.15	1.50

III MECHANICAL PROPERTIES OF GRADE AL2 Д AND GRADE AL9 KTS IS AS GIVEN BELOW

GROUP OF ALLOYS	GRADE OF ALLOYS	PARTIAL RESISTANCE kg/mm ²	SPECIFIC ELONGATION %	HARDNESS AS PER BRINELL MB
I	AL2 Д	16	1	50
I	AL9 K	21	2	60

TS HARDENING AND SHORT TIME (INCOMPLETE) ARTIFICIAL AGEING

SURFACE FINISH

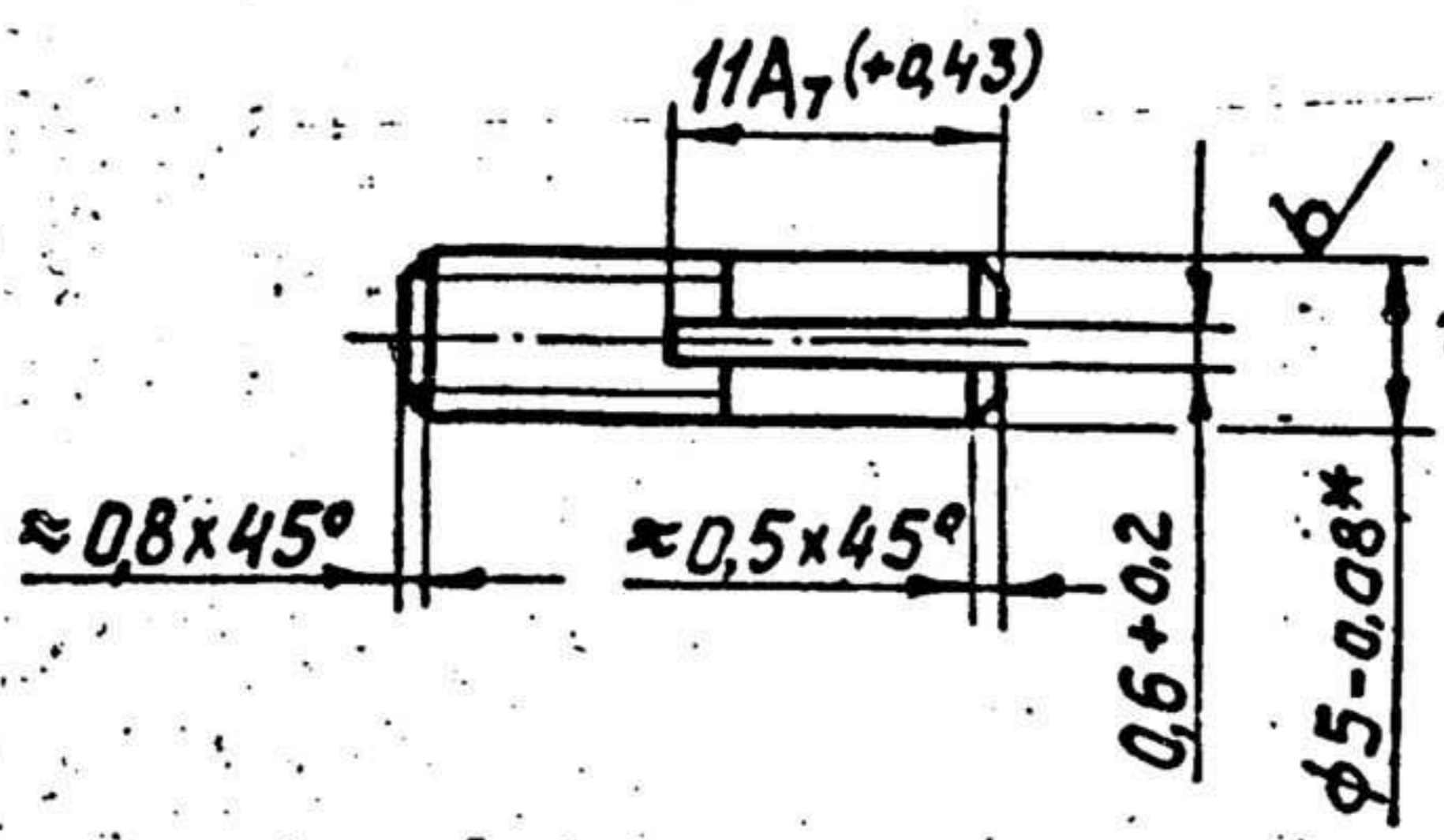
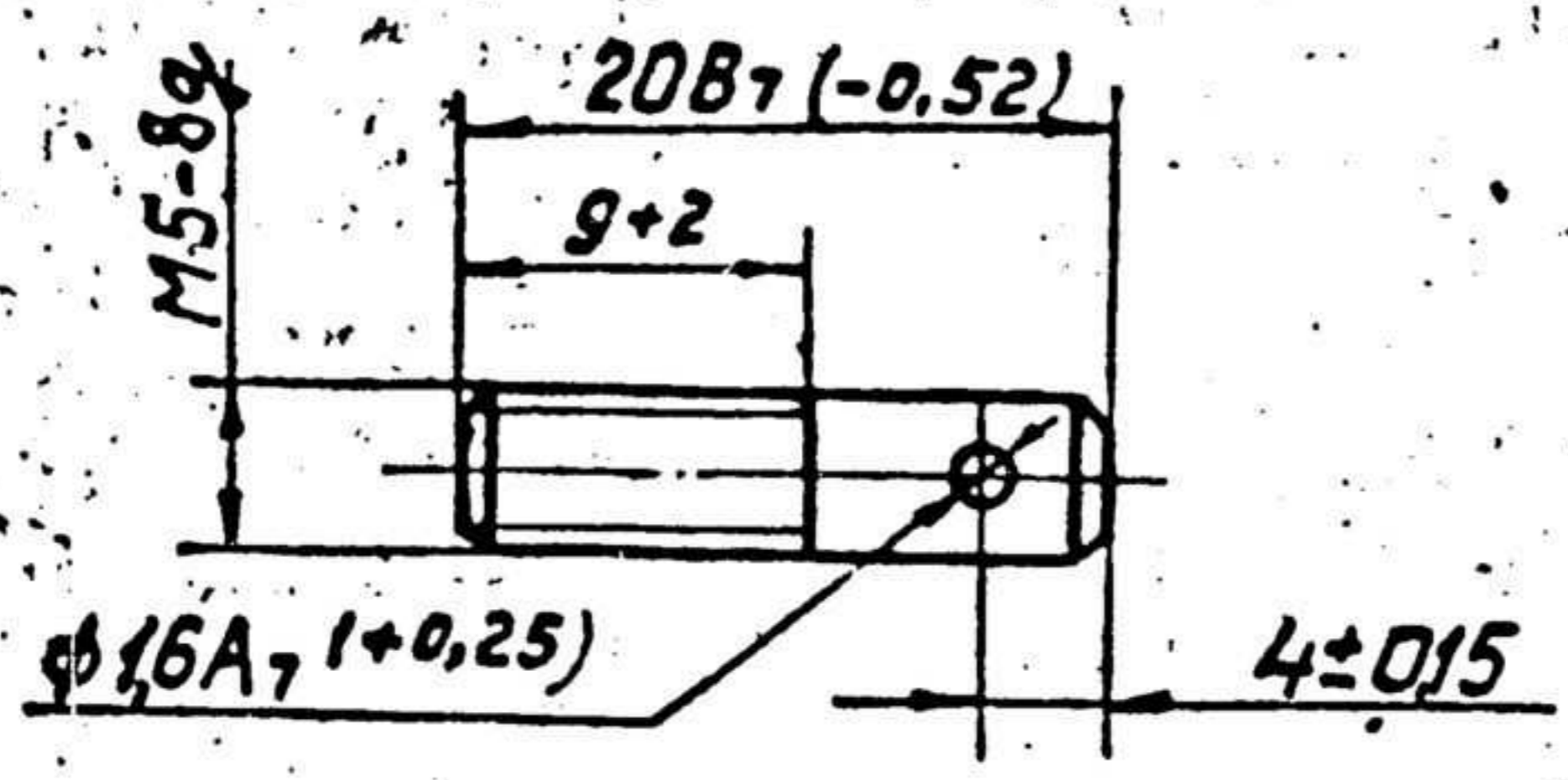
- Rz 30/√ :- REPRESENTS THE SURFACE FINISH OF Rz VALUE 30 MICRONS ON THOSE SURFACES BY ANY PRODUCTION METHOD WHERE THE SURFACE FINISH IS NOT SPECIFIED
- Rz 40/ :- REPRESENTS THE SURFACE FINISH OF Rz VALUE OF 40 MICRONS
- Rz 20/ :- REPRESENTS THE SURFACE FINISH OF Rz VALUE OF 20 MICRONS

INSCRIBED		DRG NOT TO BE SCALED	PERTAINS TO
CHECKED		ALL SHARP EDGES & CORNERS TO BE ROUNDED OFF	
APPROVED		ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED	
DATE	12.11.91	BRUSH HOLDER	MB67-035
TOLERANCE UNLESS OTHERWISE SPECIFIED	GEN + DEC + ANG	SCALE :-	CONTROL OFFICE OF INSPECTION FIRE FIGHTING FOOT POOR

Восстановлен с подлинника. Дата: 12.11.91. Изм. № 1.

MB67-111-199W

Rz40
✓(✓)



Designation	Coating
MB67-111	Zinc plating 6 followed by chromate treatment

TECHNICAL CONDITIONS

1. Size for reference.
2. The slot displacement relative to the axis should be within 0.4 mm.
3. Round off sharp edges: chamfer $\approx 0.3 \text{ mm} \times 45^\circ$ or radius $\approx 0.3 \text{ mm}$.

REFER TO DRG NO 3425.038 FOR EXPLANATORY NOTES

(R. VEERARAGHAVAN)
SSO-II

78/D2073

APPROVED *MVASV*

CHECKED. *G. Balakrishnan*

CONTROLLERATE
OF
INSPECTION

MB67-111

SHAFT

WEIGHT	SCALE
3.1g	2:1
SHT	SHTS. 1

ROUND BAR 5-4 DCT7417-75
A-12-H-B DCT1414-75

1-4-4

М867-021

Срещ. №

Получено в 2273

Мат. № дубл.

Мат. № дубл.

1853

TE

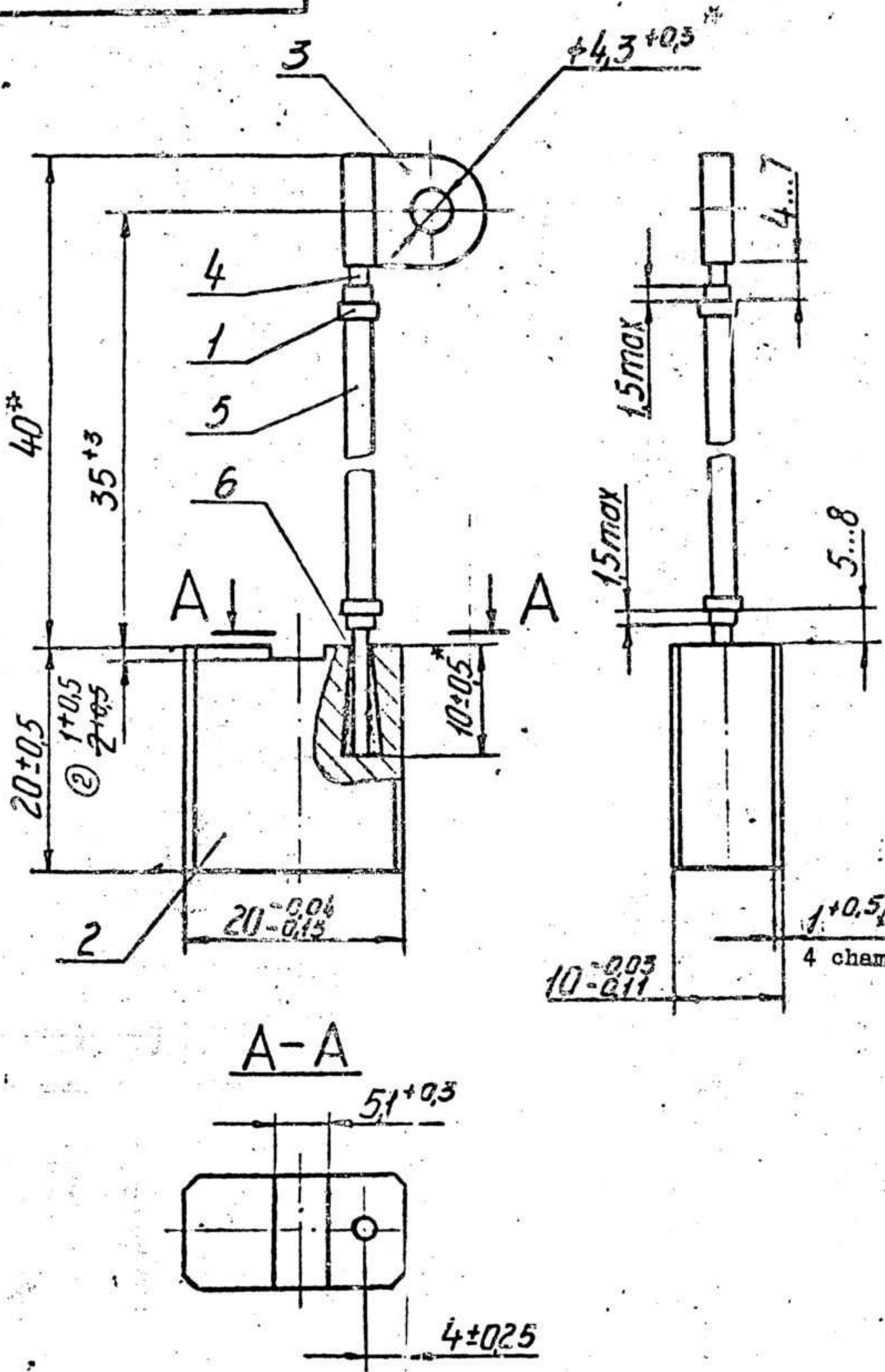
Easy2Convert
www.easy2convert.com

MB67.140 CB

MB67.140

MB67.140

MB67.140



TECHNICAL CONDITIONS

1. [#]Sizes for reference.
2. Attach the wire to the brush by caulking.
3. The electric contact resistance between the brush and the wire should not exceed 2.5 megohms.
4. The force to be applied to break the wire away is at least 7 kgf.
5. Solder end piece, Ref. No. 3, with solder ПОС-40 ГОСТ 21930-76.
6. Mark at any side.

REFER NOTE NO 5

SOLDER END PIECE WITH SOLDER GRADE Sn 40 TOIS: 193-82

PILOT SAMPLE

THREE SAMPLES SHALL BE SUBMITTED TO CIFE, PUNE FOR THEIR TEST AND APPROVAL BEFORE COMMENCEMENT OF BULK SUPPLY.

(R. VEERA RAGHAVAN)
SSO-II

46/D2073

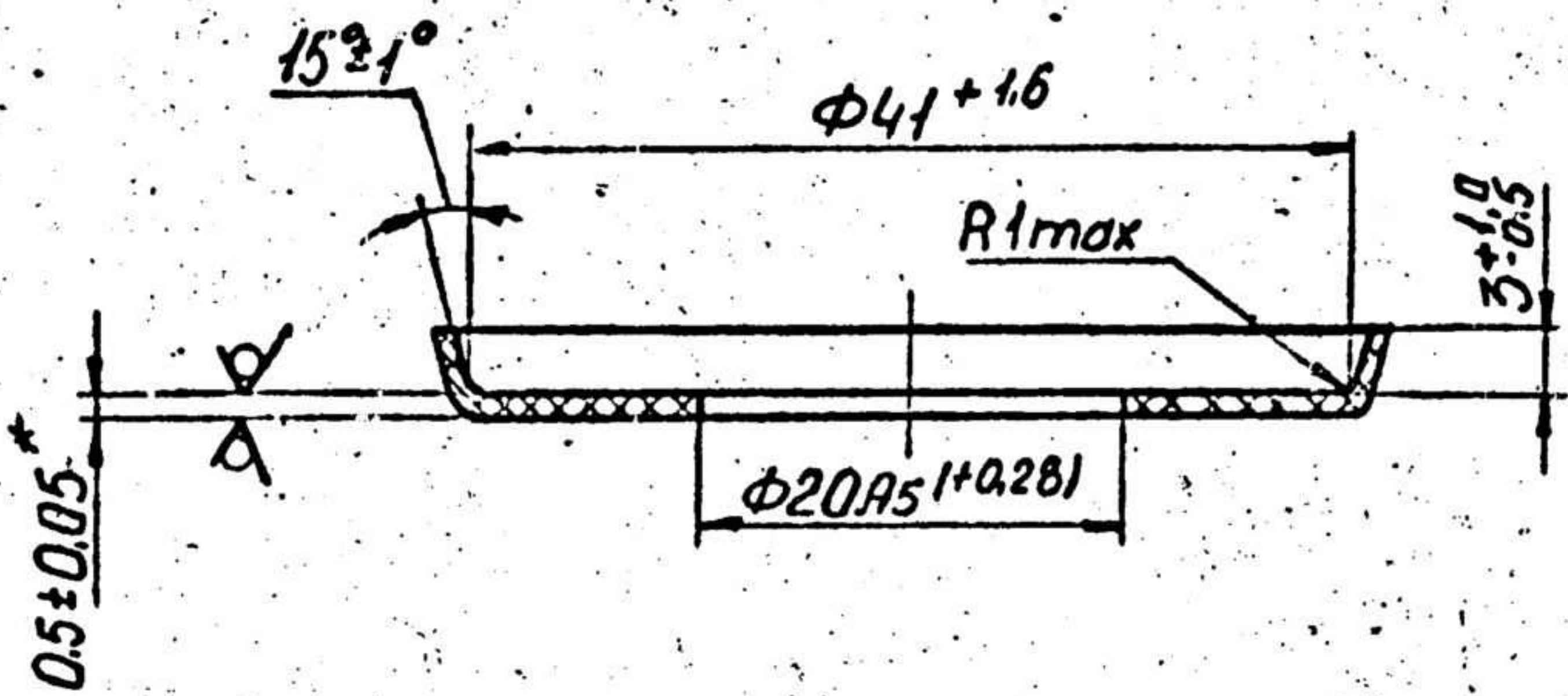
APPROVED <i>MVABU</i>		MB 67. 140 CB	
CHECKED <i>V. Balakrishnan</i>		BRUSH ASSEMBLY DRAWING	WEIGHT SCAL
CONTROLLERATE OF INSPECTION (ICV)			11.16 2:1
		SHT	SHTS 1

MB-169-49

№ 25-016

Способ № 1

Имя и фамилия Подп. и дата



1. Size for reference.
2. Provide for other sizes by appropriate tools.

REFER TO DRG NO A 25-016 FOR EXPLANATORY NOTES
SURFACE FINISH

∇ - INDICATES REMOVAL OF MATERIAL IS NOT PERMITTED
 ON BOTH SIDE OF THE JOB

R. VEERARAGHAVAN
 R. VEERARAGHAVAN)
 SSOII

97/D2073

APPROVED *MIBV*

MB-169-49

CHECKED *V. Balakrishnan*

CONTROLLERATE OF INSPECTION

SPECIAL WASHER

WEIGHT	SCALE
0.7g	2:1
SHT	SHTS. 1

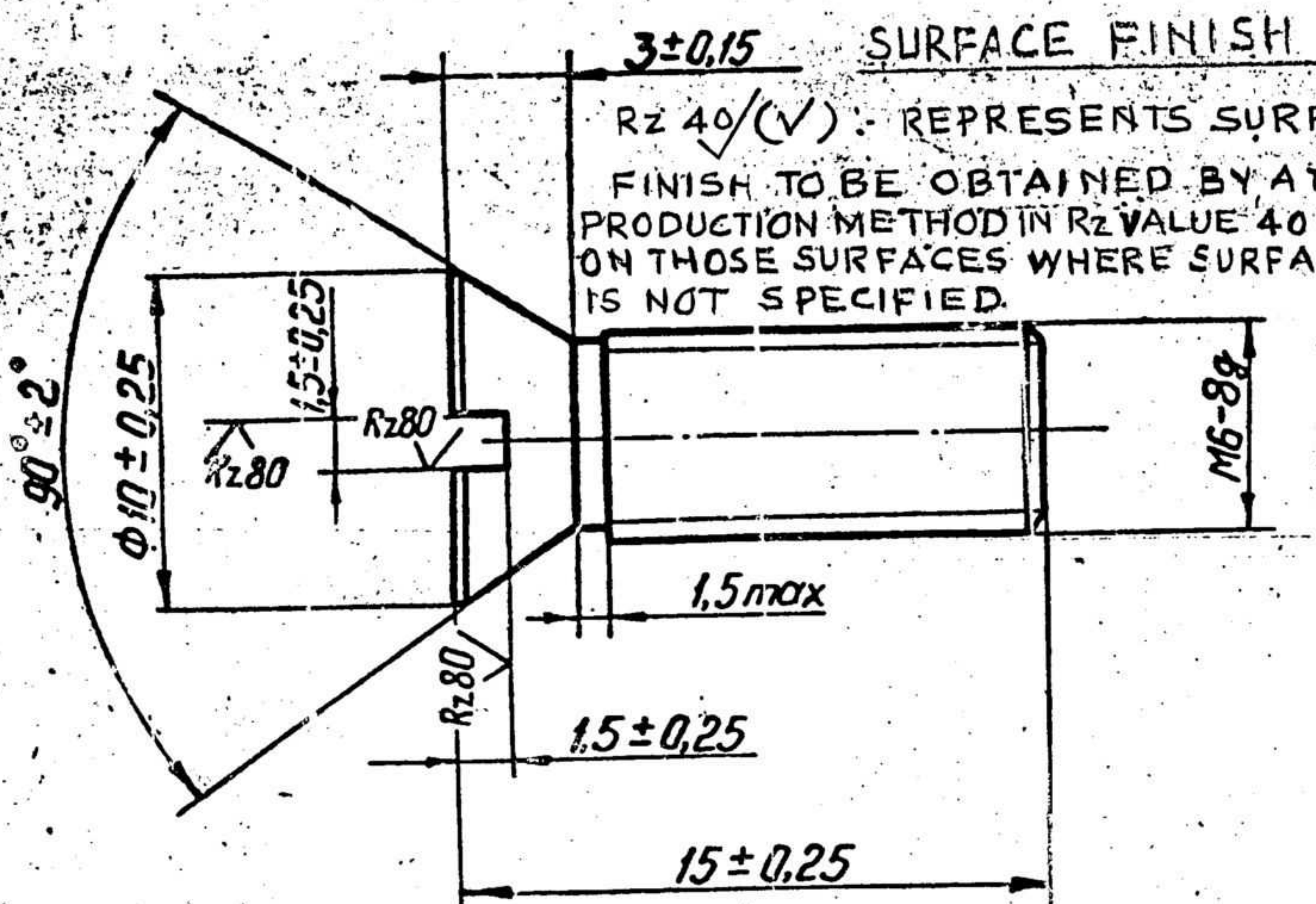
FE (ICV) PUNE

BOARD 3B 0.5 ГОСТ 2824-75

1-4-14

X1-111-31

Rz40 (✓) (✓)



Rz 80 REPRESENTS SURFACE FINISH TO BE OBTAINED BY ANY PRODUCTION METHOD IN Rz VALUE 80 μMAX.

Designation	Coating
X1-111-31	Zinc plating 6 followed by chromate treatment

TECHNICAL CONDITIONS

- REFER DRG NO X2-4392 FOR MATERIAL
1. Tolerable misalignment of the head and slot axes relative to the rod axis is 0.4 mm.
 2. Caseharden by cyaniding or carburize h 0.1 to 0.3 mm; HRC ≥ 54.
 3. Technical requirements as per ISCT 1759-70.

(RYEERARAGHAYAN) SSO II

95/D2073

APPROVED *[Signature]*
 CHECKED *[Signature]*
 CONTROLLERATE
 OF
 INSPECTION
 FE (ICV) PUNE

X1-111-31
 SCREW
 STEEL 10 ISCT1050-74

WEIGHT	SCALE
3.42g	4:1
SHT	SHTS 1

1-4-4

Восстановлен с подлинника. Верно:

Искр. прилж.

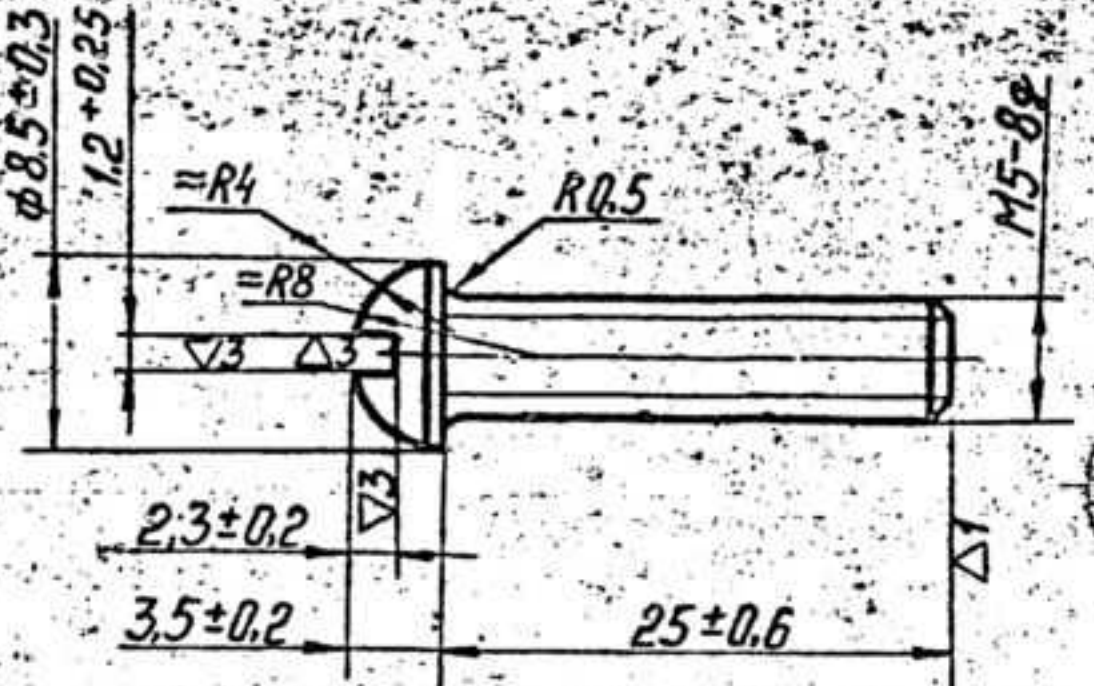
Справ. №

Получено в дата

Искр. № дубл.

Искр. №

4053



TECHNICAL CONDITIONS

1. Tolerable misalignment of the head and the slot axes relative to the rod axis is within 0.3 mm.
2. Other technical requirements as per ISCT 1759-70.

Designation	Coating
X1-9897	Zinc plating 6 followed by chromate treatment

88/R2073

APPROVED <i>ASV</i>	X1-9897	
CHECKED <i>Sh. Babarant</i>	WEIGHT	SCALE
	4.222g	2:1
	SHT	SHTS .1
SCREW		
WIRE 4.4-10 ISCT 5663-79		

4 3 2 1
L686-1X

EXPLANATORY NOTES TO TECHNICAL CONDITIONS

I) SCREW SHOULD BE MANUFACTURED FROM COLD HEADING CARBON STEEL WIRE 4.4 mm DIAMETER GRADE -10 WITH STANDARD ACCURACY TO GOST 5663-79. HAVING THE FOLLOWING CHEMICAL COMPOSITION (AS PER GOST 1050-74 REFERRED IN GOST 10702-78)

CARBON	SILICON	MANGANESE	CHROMIUM
0.07-0.14%	0.17 - 0.37%	0.35 - 0.65%	0.15%(Max)

II) MECHANICAL PROPERTIES (AS PER GOST 5663-74)

ULTIMATE TENSILE STRENGTH, Kg/mm ²	RELATIVE CONTRACTION %
60 (Max)	55 (Min)

III) SURFACE FINISH

- ∇ 1 REPRESENTS SURFACE FINISH TO BE OBTAINED IN Ra VALUE 80 μ Max.
- ∇ 3 REPRESENTS SURFACE FINISH TO BE OBTAINED IN Ra VALUE 20 μ Max.
- ∇ 4(∇) REPRESENTS SURFACE FINISH TO BE OBTAINED IN Ra VALUE 10 μ Max. ON THOSE SURFACES WHERE SURFACE FINISH IS NOT SPECIFIED.

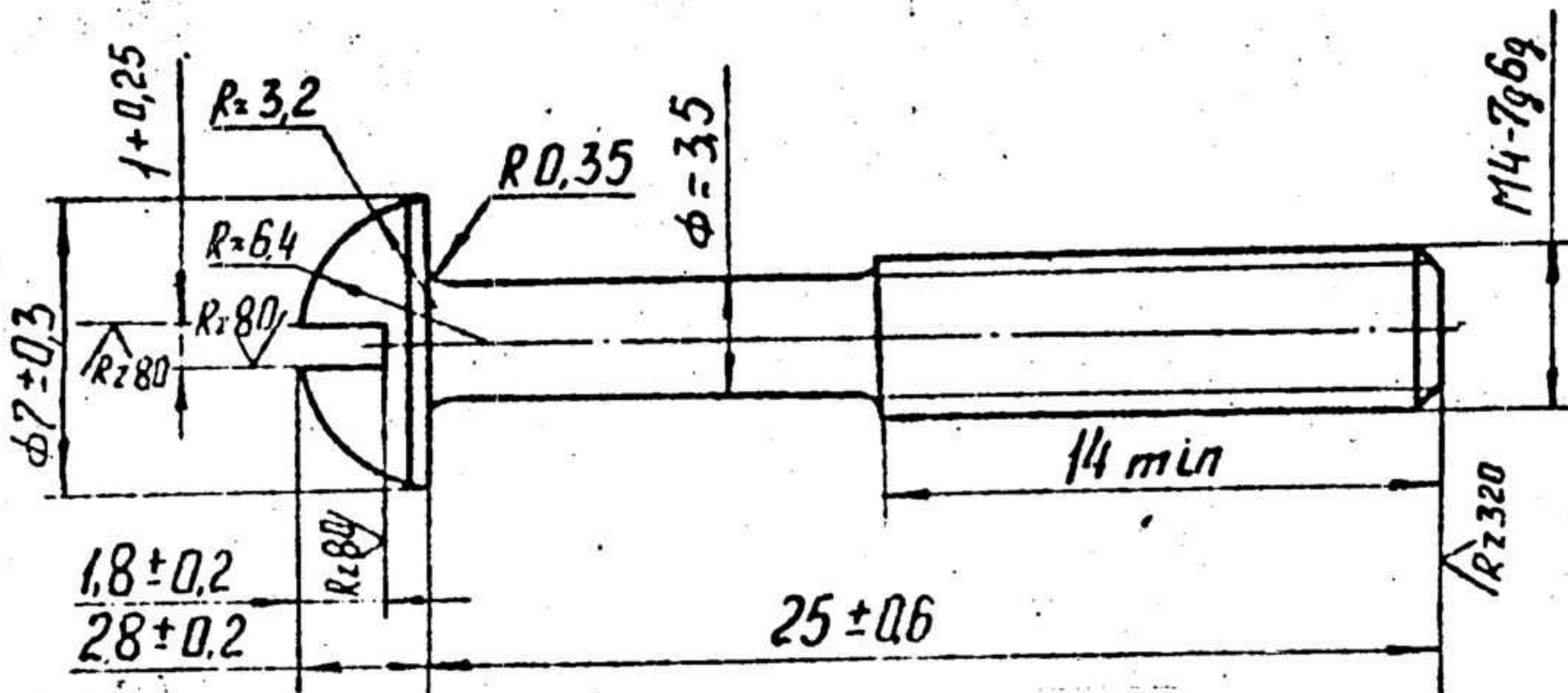
A	INSCRIBED	<i>Chavan</i>	DRG. NOT TO BE SCALED	PERTAINS TO				
	CHECKED	<i>Sh. Babarant</i>	ALL SHARP EDGES & CORNERS TO BE ROUNDED OFF					
	APPROVED	<i>Sh. Babarant</i>	ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED	X1-9897				
	DATE	15 MAY 86	SCREW					
	TOLERANCE UNLESS OTHERWISE SPECIFIED		SCALE: -					
DC(I)	DATE	ZONE	BRIEF RECORD	SIGN.	GEN.	DEC.	ANG.	CONTROLLERATE OF INSPECTION FIRE FIGHTING EQPT. PUNE
	4			3				

X1-10277

Rz 40/√(√)

REFER DRG NO X2-4392 FOR MATERIAL

✓ RZ320 SURFACE FINISH TO BE OBTAINED OF RZ VALUE 320 μ (MAX.)



TECHNICAL CONDITIONS

1. Tolerable misalignment of head and slot axes relative to the rod axis is within 0.3 mm.
2. Coating: zinc plating 6, followed by chromate treatment.
3. Other technical requirements as per GOCT 1759-70.

HARDNESS - BHN (143 MAXIMUM)

SURFACE FINISH

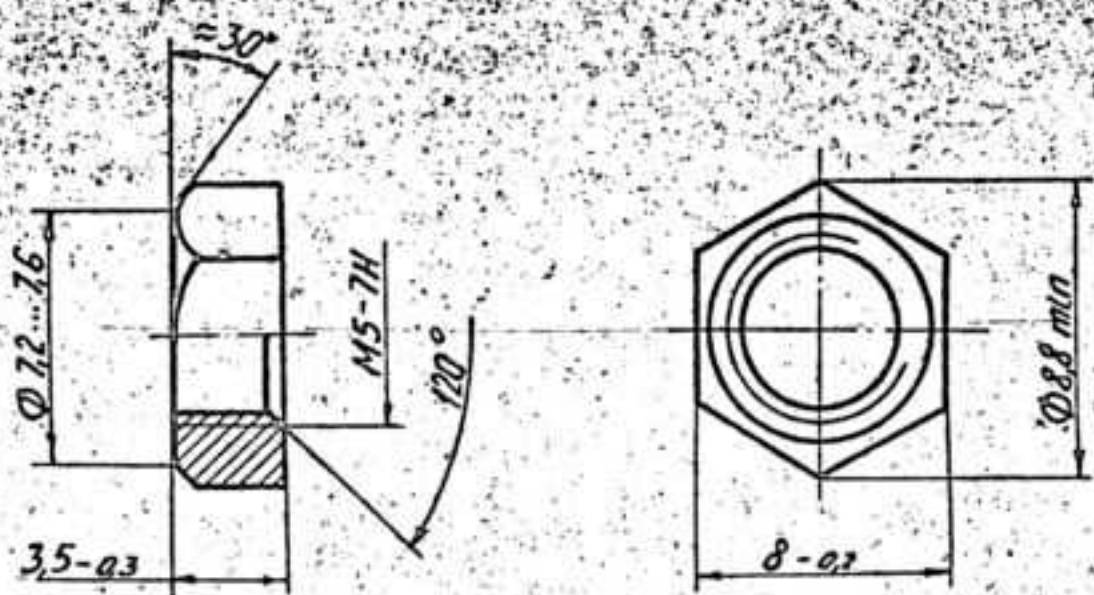
Rz 80/√ :- REPRESENTS SURFACE FINISH TO BE OBTAINED BY ANY PRODUCTION METHOD IN RZ VALUE 80 μ MAX.
 Rz. 40/√(√) :- REPRESENTS SURFACE FINISH TO BE OBTAINED BY ANY PRODUCTION METHOD IN RZ VALUE 40 μ MAX. ON THOSE SURFACES WHERE SURFACE FINISH IS NOT SPECIFIED.

(R YEERARAGHAVAN) 90/D2073
 550 II

APPROVED *MVA*
CHECKED *J. Balachandran*
CONTROLLERATE OF INSPECTION
 (ICV) PUNE

X1-10277
 SCREW M4-7g6g X25-36016
 GOCT 17473-72
 STEEL 10 GOST 1050-74

WEIGHT	SCALE
2.506g	4:1
SHT	SHTS 1
1-4-A	



Designation	Coating
X2-4392	Zinc plating 6 followed by chromate treatment

TECHNICAL CONDITIONS

1. Tolerable displacement of hole axis relative to edges is within 0.4 mm.
2. Technical requirements as per ISCT 1759-70.

06/D2073

APPROVED <i>[Signature]</i>	X2-4392		
CHECKED <i>[Signature]</i>	NUT	WEIGHT	SCALE
		0.9g	5:1
	SHT	SHTS 1	
	STEEL 10 ISCT 1050-74		

X2-4392

EXPLANATORY NOTES TO TECHNICAL CONDITIONS

(I) NUT, ~~STEEL~~, ~~GRADE~~ SHOULD BE MANUFACTURED FROM CARBON STRUCTURAL HOT ROLLED STEEL OF GRADE 10, OF ISCT 1050-74, HAVING THE FOLLOWING CHEMICAL COMPOSITION.

STEEL OF GRADE	CONTENT OF ELEMENT%			
	CARBON	SILICON	MANGANESE	CHROMIUM (MAX)
10	0.07-0.14	0.17-0.37	0.35-0.65	0.15

(II) MECHANICAL PROPERTIES OF STEEL GRADE 10, OF ISCT 1050-74 IS GIVEN BELOW.

HEAT TREATMENT OF BLANKS	NORMALISING
YIELD POINT	21 kgf/mm ² (MIN)
ULTIMATE TENSILE STRENGTH	34 kgf/mm ² (MIN)
PERCENTAGE ELONGATION	31% (MIN)
REDUCTION OF AREA	55% (MIN)

(III) THE RECOMMENDED HEATING TEMPERATURE DURING HEAT TREATMENT OF BLANKS, CARRYING OUT THE TESTS OF MECHANICAL PROPERTIES OF STEEL GRADE IS GIVEN BELOW.

STEEL GRADE	NORMALISING
10	920°C

RECOMMENDED MINIMUM HOLDING PERIOD IN NORMALISING - 30 MINUTES

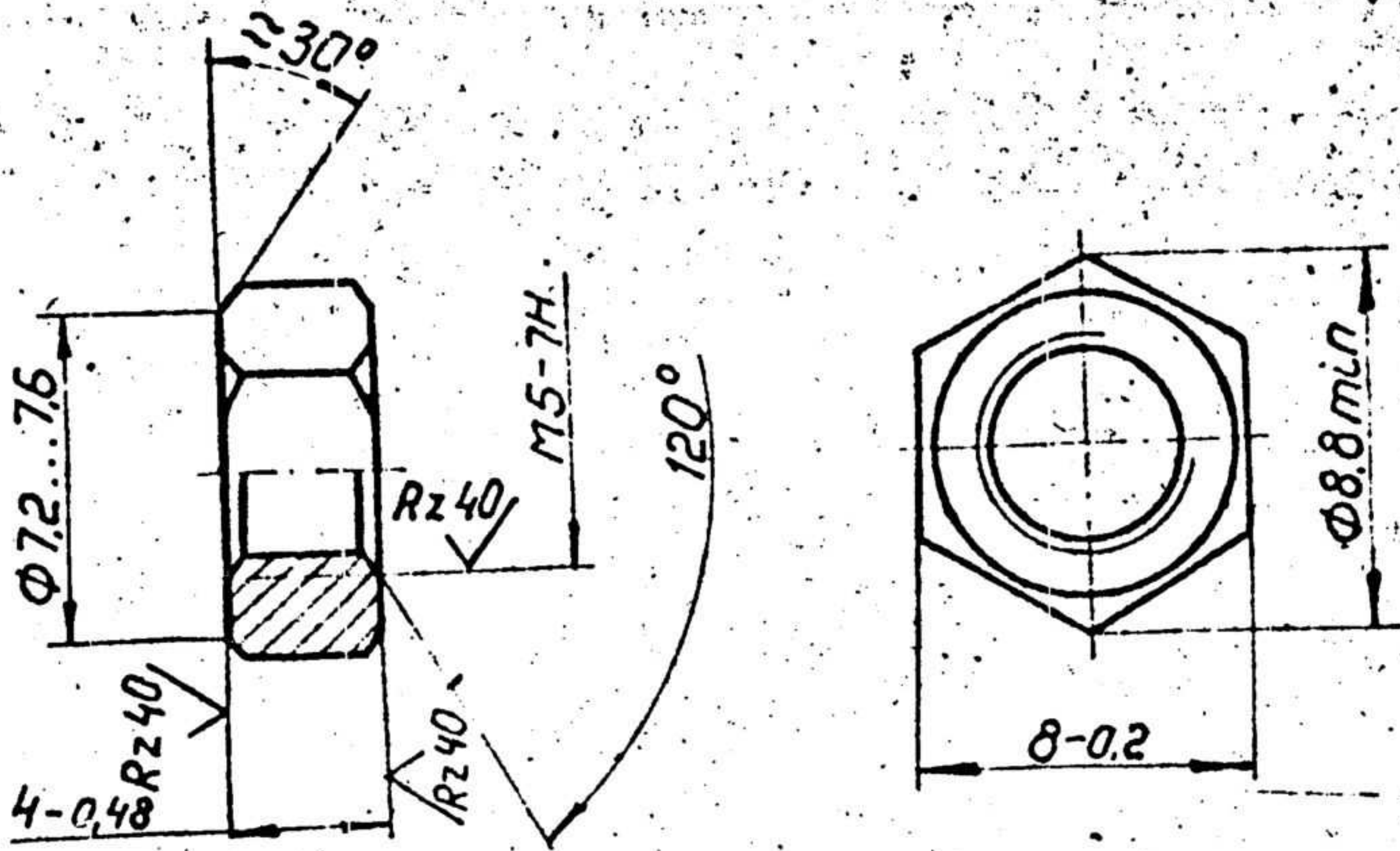
(IV) SURFACE FINISH

Rz 80 REPRESENTS SURFACE FINISH TO BE OBTAINED BY ANY PRODUCTION METHOD IN Rz VALUE 80-110 MAX. ON THOSE SURFACES WHERE SURFACE FINISH IS NOT SPECIFIED.

INSCRIBED	<i>[Signature]</i>	DRG NOT TO BE SCALED ALL SHARP EDGES & CORNERS TO BE ROUNDED OFF. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED	PERTAINS TO X2-4392	
	CHECKED <i>[Signature]</i>			
	APPROVED <i>[Signature]</i>			
	DATE <i>[Signature]</i>			
TOLERANCE UNLESS OTHERWISE SPECIFIED		NUT <i>Easy Convert</i>	SCALE:-	
DC(I)	DATE			ZONE
GEN	DEC	ANG	CONTROLLERATE OF INSPECTION FIRE FIGHTING EPT PUNE	

X2-10630

Rz80 (V)



Designation	Coating
X2-10630	Zinc plating 6 followed by chromate treatment

TECHNICAL CONDITIONS

1. Material substitute: Steel 10 ГОСТ 1050-74.
2. Tolerable displacement of the hole axis relative to the edges is within 0.25 mm.
4. Other technical requirements as per ГОСТ 1759-70.

"REFER TO DRG. No 25.101 FOR EXPLANATORY NOTES"

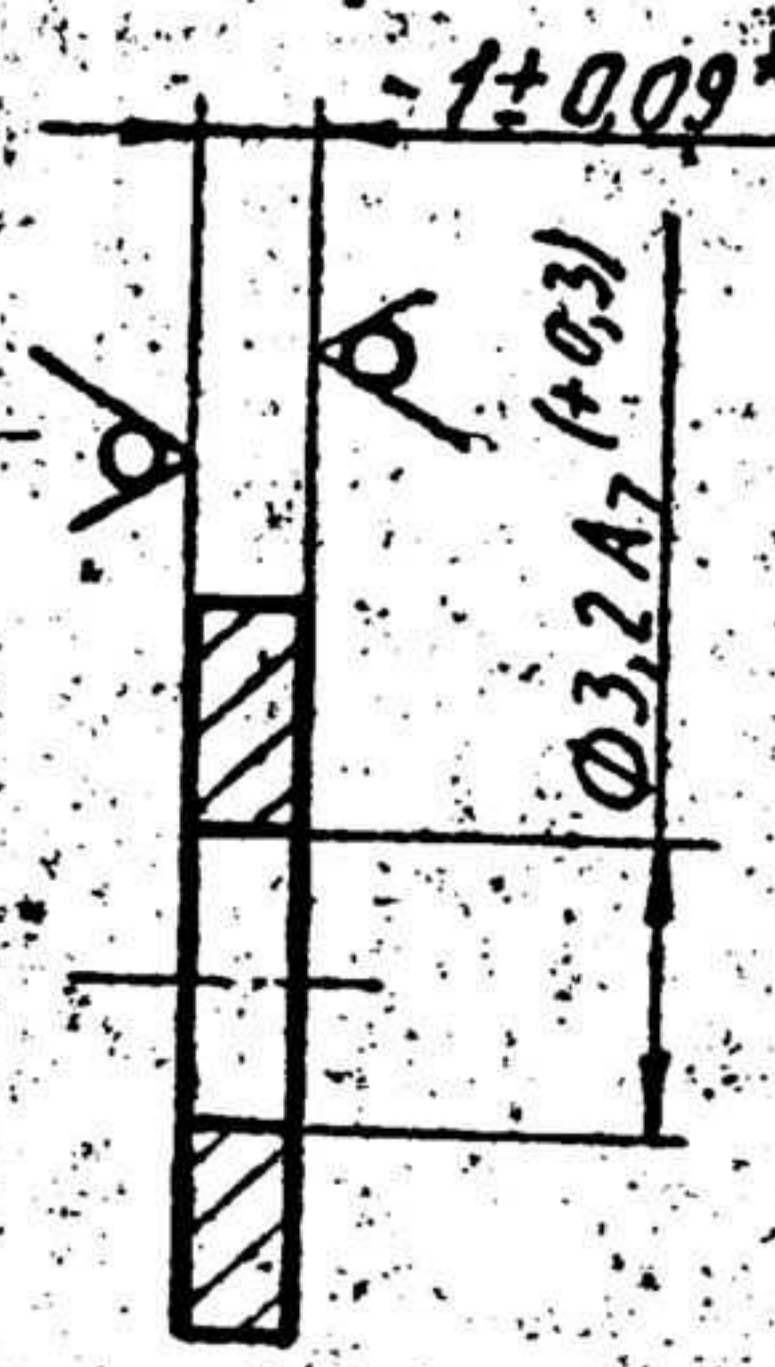
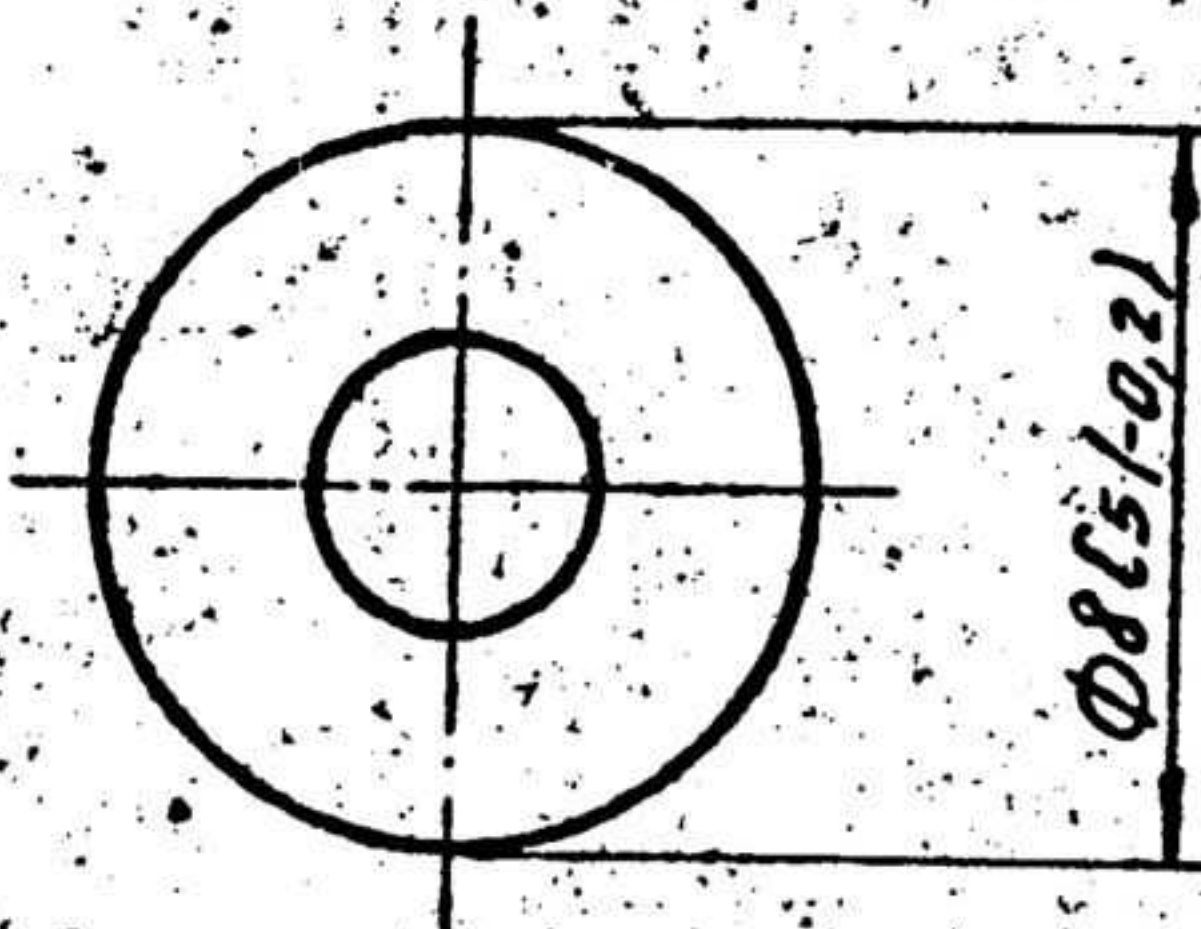
[Signature]
 R VEERARAGHAVAN
 SSO-II

93/D2073

APPROVED <i>[Signature]</i>	X2-10630	
	CHECKED <i>[Signature]</i>	NUT
1.2g 4:1		
CONTROLLERATE OF INSPECTION	STEEL A12 ГОСТ 1414-75	SHT SHTS 1
		1-4-4
FE (ICV) PUNE		

X3-9675

Rz 80
✓M



Designation	Coating
X3-9675	Zinc plating 6 followed by chromate treatment

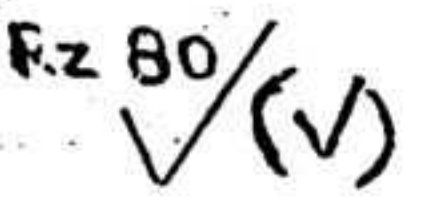
1. [#]Size for reference.

REFER TO DRG NO 371 25.005 FOR EXPLANATORY NOTES.

SURFACE FINISH



REPRESENTS SURFACE FINISH TO BE OBTAINED BY WITHOUT REMOVAL OF MATERIAL ON BOTH SIDES OF THE JOB



REPRESENTS SURFACE FINISH TO BE OBTAINED BY ANY PRODUCTION METHOD IN Rz VALUE 80 μm MAX, ON THOSE SURFACES WHERE SURFACE FINISH IS NOT SPECIFIED.

(R.VEERA RAGHAVAN)
SSO-II

97/D2073

APPROVED

[Signature]

X3-9675

CHECKED

[Signature]

CONTROLLERATE
OF
INSPECTION

WASHER

WEIGHT SCALE

0.6g 5:1

SHT SH'S 1.

SHEET 51 OCT 19904-74
4-II-10 OCT 16523-70

Easy2Convert
www.easy2convert.com 1-4-4

PUNE

X3-10323

Rz80/√

Designation	Coating
X3-10323	Zinc plating 6 followed by chromate treatment



1. Material substitute: Band 10-M-HT-2-0,5 ГОСТ 503-71.
2. *Size for reference.

X3-10323
EXPLANATORY NOTES TO TECHNICAL CONDITIONS

WASHER SHOULD BE MANUFACTURED FROM COLD ROLLED QUALITY CARBON STEEL TO GRADE 10 OF SHEET 0.5 MM THICK WITH STANDARD ROLLING ACCURACY (B) CATEGORY 4, HIGH SURFACE FINISH (II) OR SHOULD BE MANUFACTURED FROM COLD ROLLED LOW CARBON STEEL BAND OF GRADE 10 SOFT (M), COLD WORKED WITH INCREASED MANUFACTURING ACCURACY IN THICKNESS (ND) AND SECOND GROUP SURFACE QUALITY WITH TRIMMED EDGE HAVING THE DIMENSIONS OF SIZE CHEMICAL COMPOSITIONS AND MECHANICAL PROPERTIES CONFORMING TO GOST 19904-74, GOST-16523-70, GOST-503-8) AND GOST 1050-74 AS GIVEN BELOW

(I) CHEMICAL COMPOSITION TO GOST 1050-74 (AS REFERRED IN GOST 16523-70 AND GOST 503-71)

CHEMICAL ELEMENTS %			
CARBON	SILICON	MANGANESE	CHROMIUM
0.07 - 0.14	0.17 - 0.37	0.35 - 0.65	0.15 (MAX)

(II) MECHANICAL PROPERTIES TO GOST 16523-70 AND GOST 503-71

GOST NO	TENSILE STRENGTH	RELATIVE ELONGATION
GOST 16523-70	30-42 kgf/mm ²	28% (MIN)
GOST 503-71	32-45 kgf/mm ²	17% (MIN)

SURFACE FINISH

\sqrt{K} - REPRESENTS SURFACE FINISH TO BE OBTAINED WITHOUT REMOVED OF MATERIAL ON THOSE BOTH SIDE OF JOB.

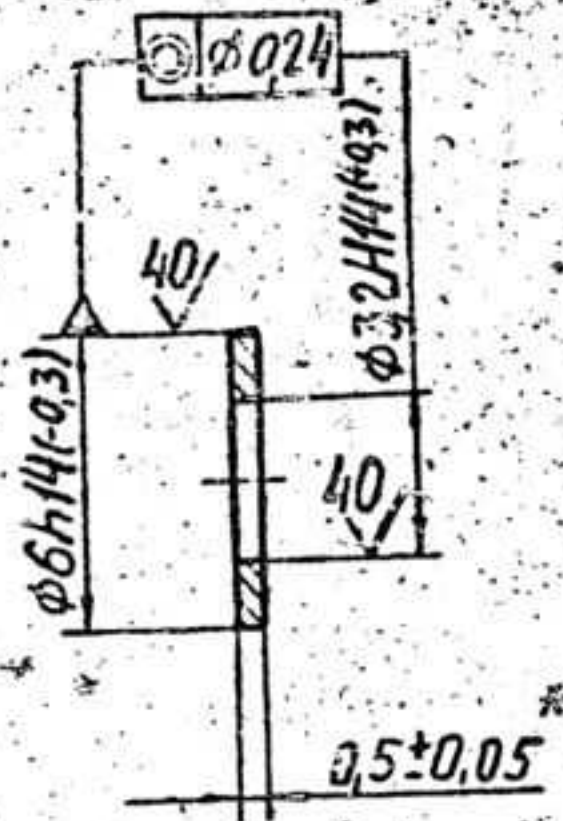
Rz80/√ - REPRESENTS SURFACE FINISH TO BE OBTAINED BY AMV PRODUCTION METHOD IN Rz VALUE OF 80 μ ON THOSE SURFACE WHERE SURFACE FINISH IS NOT SPECIFIED.

91/D2073

APPROVED <i>[Signature]</i>	X3-10323	
CHECKED <i>[Signature]</i>	WEIGHT	SCALE
	0.15g	5:1
	SHT	SHTS. 1
WASHER		
SHEET 50.5 ГОСТ 19904-74		
4-II-1 ГОСТ 16523-70		

INSCRIBED	DRG NOT TO BE SCALED	PERTAINS TO
CHECKED <i>[Signature]</i>	ALL SHARP EDGES & CORNERS TO BE ROUNDED OFF.	
APPROVED <i>[Signature]</i>	ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED	X3-10323
DATE 17.11.98	SCALE:-	
TOLERANCE UNLESS OTHERWISE SPECIFIED	WASHER	CONTROLLERATE OF INSPECTION FIRE FIGHTING EOPF PUNE
D. CO. DT. ZONE BRIEF RECORD SIGN GEN I DEC I ANG		

X3-10482



Designation	#	Coating
X3-10482	016	Zinc plating 6 followed by chromate treatment

TECHNICAL CONDITIONS

1. Material substitute: Band 08-M-HT-2-0,5 ГОСТ 503-71
2. *Size for reference.
4. Other technical requirements as per ГОСТ 18123-72.

92/D2073

APPROVED *[Signature]*
 CHECKED *[Signature]*

X3-10482
 WASHER 3-01
 ГОСТ 10450-78

WEIGHT	SCALE
0.079g	5:1
SHT	SHTS. 1

SHEET 50-5 ГОСТ 19904-74
 11-BF-0-8КП 9045-80

X3-10482

EXPLANATORY NOTES TO TECH CONDITIONS

WASHER SHOULD BE MANUFACTURED FROM COLD ROLLED THIN SHEET OUT OF LOW CARBON ALLOY STEEL OF HIGH SURFACE FINISH, EXTREMELY DEEP DRAWN OF GRADE 08 K1 TO GOST 9045-80.

(I) **CHEMICAL COMPOSITION**

CONTENT OF ELEMENTS %							
CARBON	MANGANESE	SULPHUR	PHOSPHORUS	SILICON	CHROMIUM	NICKEL	COPPER
0.10 (Max)	0.20 - 0.40	0.030 (Max)	0.025 (Max)	0.03 (Max)	0.10 (Max)	0.10 (Max)	0.15 (Max)

(II) **MECHANICAL PROPERTIES**

ULTIMATE STRENGTH, kgf/mm ²	RELATIVE ELONGATION %
26 - 37	28

(III) **DEEP DRAWING TEST**

DEPTH OF SPHERICAL INDENTATION NOT LESS THAN 9.0 mm.

(IV) **SYMBOL**

$\odot \phi 0.24$ CONCENTRICITY OF HOLE DIA 3.2 H14 TO BE WITHIN 0.24 mm WITH REFERENCE TO BASE.

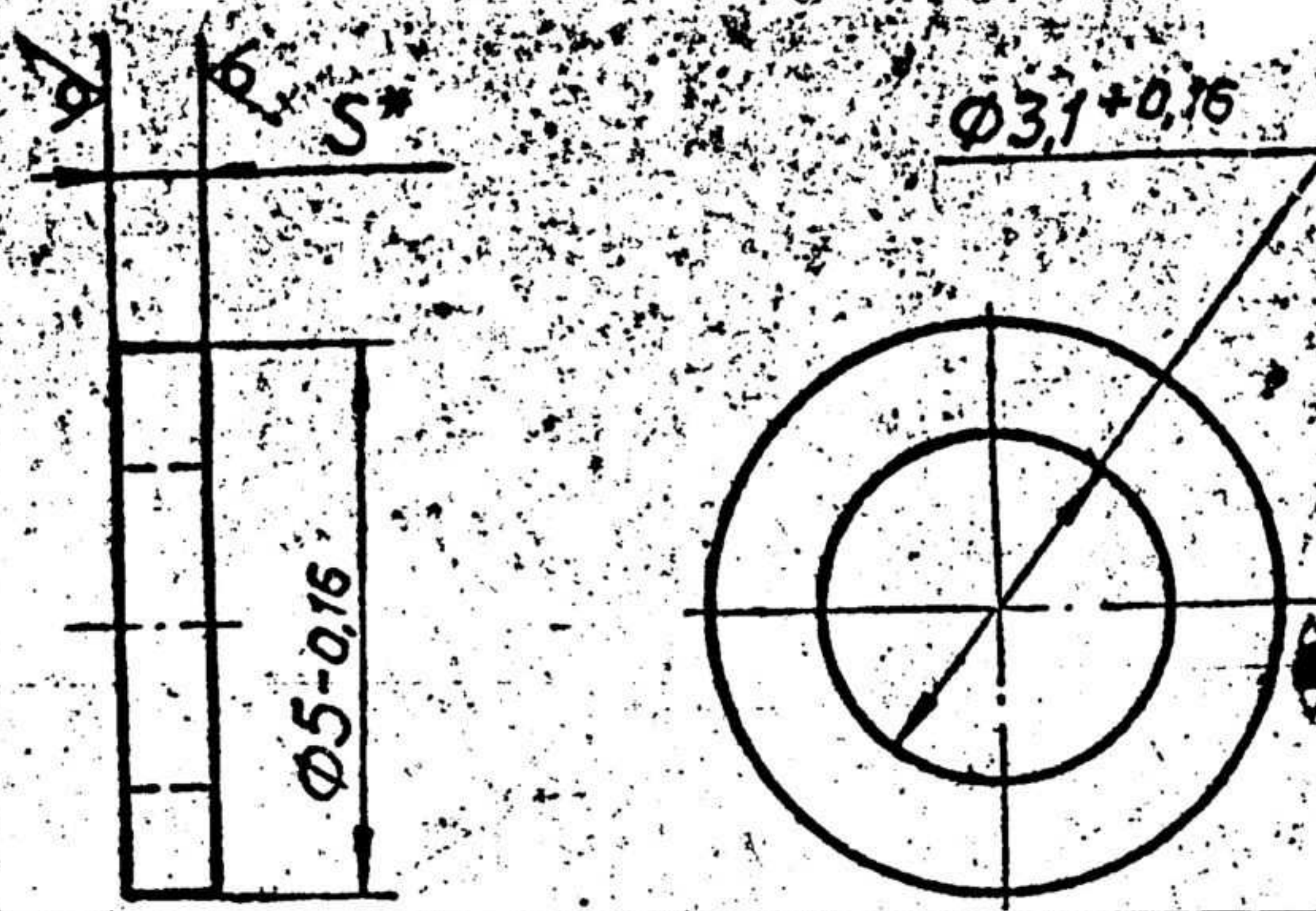
(V) **SURFACE FINISH**

∇_{40} - REPRESENTS SURFACE FINISH TO BE OBTAINED BY ANY PRODUCTION METHOD IN Ra VALUE 40 μ MAXIMUM

$\nabla(\nabla)$ - REPRESENTS SURFACE FINISH TO BE OBTAINED WITHOUT REMOVAL OF MATERIAL, ON THOSE SURFACES WHERE SURFACE FINISH IS NOT SPECIFIED

A	INSCRIBED	<i>[Signature]</i>	DRG NOT TO BE SCALED	PERTAINS TO X3-10482
	CHECKED	<i>[Signature]</i>	ALL SHARP EDGES & CORNERS TO BE ROUNDED OFF.	
	APPROVED	<i>[Signature]</i>	ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED	
	DATE	5/10/86	WASHER 3-01 GOST 10450-78	
TOLERANCE UNLESS OTHERWISE SPECIFIED		GEN DEC ANG	SCALE :-	
DCC(I)	DATE	ZONE	BRIEF RECORD	SIGN
	4			3
CONTROLLERATE OF INSPECTION FIRE FIGHTING EQPT PUNE.				

See table



Designation	S [#]	Material	Coating	Material substitute	Mass, kg	Rz
X5-29-48						
X5-29-48-01	0.5±0.15	Glass-cloth base laminate CT-I-0,5 ГOCT 12652-74	Varnish ГФ-95(1) ГOCT 8018-70	Glass-cloth-base laminate CT3Ф-1-0,5 ГOCT 12652-74	0.01	320

TECHNICAL CONDITIONS

- (3) 1. [#]Size for reference.
- 2. Varnish MI-92(1) ГOCT 15865-70 may be also used.

REFER TO DRG NO 3H 25.003 FOR EXPLANATORY NOTES
SURFACE FINISH

∇ K INDICATES REMOVAL OF MATERIAL IS NOT PERMITTED ON BOTH SIDE OF THE JOB

(Signature)
 (R. VEERA RAGHAVAN)
 SSO-II

84/D2073

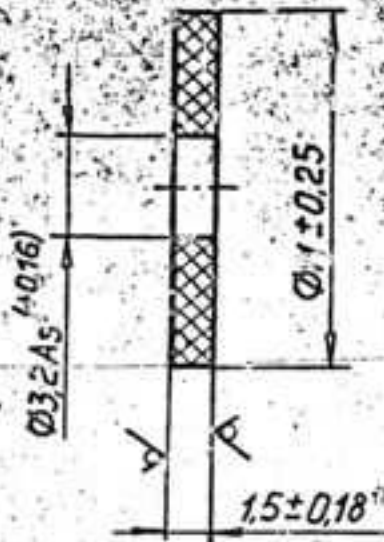
APPROVED *(Signature)*
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 CONTROLLERATE
 OF
 INSPECTION

X5-29-48
 INSULATING WASHER
 SEE TABLE

	WEIGHT	SCALE
	SEE TABLE	10:1
SHT	SHTS. 1	

FE () NAME

1-4-4



Designation	Material	Material substitute	Coating
X5-114-53-01	Glass-cloth-base laminate CT-T-1,5 FOCT 12652-74		

TECHNICAL CONDITIONS

- Size for reference.
- Varnish M7-92(1) FOCT 15865-70 may be also used.

96/D2073

APPROVED <i>[Signature]</i>	X5-114-53	
CHECKED <i>[Signature]</i>	WASHER	SEE TABLE
	WEIGHT (1.17g)	SCALE 5:1
	SHT	SHTS. 1

ES 711 SX

EXPLANATORY NOTES TO TECHNICAL CONDITIONS

- WASHER SHOULD BE MADE FROM GLASS TEXTOLITE OF GRADE CT-I-OF THICKNESS 1.5 M.M. AS PER GOST 12652-74. HAVING THE TECHNICAL REQUIREMENTS AS FOLLOWS.
 - ELECTRICAL QUALITY TEXTOLITE SHEET IS A PRESSED MATERIAL CONSISTING OF TWO OR MORE LAYERS OF GLASS FIBRE CLOTH IMPREGNATED WITH THERMOACTIVE RESIN.
 - GLASS TEXTOLITE OF THICKNESS UP TO 2.0 M.M IN THE HEATED CONDITION MUST BE SUITABLE FOR STAMPING OPERATION.
- GLASS TEXTOLITE OF GRADE CT-1-1.5 HAVING THE PHYSICAL MECHANICAL AND ELECTRICAL REQUIREMENTS AS PER GOST 12652-74.
 - DENSITY — 1.60 — 1.90 g/cm³
 - RESISTANCE TO SHORT-DURATION HEATING — 200 OHM (MINIMUM)
 - RESISTANCE TO ACTION OF OIL — IN TRANSFORMER OIL FOR 4 HOURS AT NOT LESS THAN 130°C
 - WATER ABSORPTION NOT MORE THAN -1%
 - SURFACE RESISTIVITY, OHMS, NOT LESS THAN 1x10¹³ AT RELATIVE HUMIDITY 45 TO 75% AND 15 TO 35°C
 - 1x10¹² AFTER SOAKING FOR 24 HOURS IN A HUMIDITY CHAMBER AT RELATIVE HUMIDITY OF 95±2% AND 20±2°C
 - VOLUME RESISTIVITY, OHM.CM NOT LESS THAN 1x10¹³ AT RELATIVE HUMIDITY OF 45 TO 75% AND 15 TO 35°C
 - 1x10¹² AFTER SOAKING FOR 24 HOURS IN A HUMIDITY CHAMBER AT RELATIVE HUMIDITY OF 95±2% AND 20±2°C
 - DISSIPATION FACTOR AT 50 HZ A RELATIVE HUMIDITY 45 TO 75% AND 15 TO 35°C — 0.03 (MAXIMUM)
 - DIELECTRIC STRENGTH PERPENDICULAR TO THE LAYERS AT 50 HZ IN TRANSFORMER OIL AT 90±7°C — 27 KVEFT (MINIMUM)

REF NO - 2

- PHYSICO-CHEMICAL PROPERTIES OF THE VARNISH GRADE M7-92 AS PER GOST 15865-70 ARE AS FOLLOWS:
 - VISCOSITY AS PER VISCOSIMETER B3-4 AT 20°C IN SEC } 25 MINIMUM
 - CONTENT OF DRY-RESIDUE IN % — 50 — 55
 - ACID NO IS MG OF KOH — 10 (MAXIMUM)
 - CONTENT OF SEPERATE FORMALDEHYDE IN % } 0.6 (MAXIMUM)
 - TIME OF DESICCATION AT 105-110°C IN HRS } -1 (MAXIMUM)
 - DRYING - CAPACITY OF VARNISH IN THICK-LAYER AT 115-120°C IN HRS } -16 (MAXIMUM)
 - THERMO ELASTICITY OF LAYER AT 150°C IN HRS } -48 (MINIMUM)
 - HARDNESS OF LAYER AS PER PENDULUM INSTRUMENT AT 20±1°C } -0.40 (MINIMUM)
 - OIL-RESISTANCE OF FILM IN KG — 8 (MINIMUM)
 - ELECTRICAL STRENGTH OF FILM IN K VOLT/MM AT 20±2°C AFTER THE ACTION OF WATER FOR A PERIOD OF 24 HRS AT 20±2°C } -30

- SPECIFIC - VOLUMERIC ELECTRIC RESISTANCE OF FILM IN CM } 1·10¹⁴ (MINIMUM)
- AFTER THE ACTION OF WATER FOR A PERIOD OF 24 HRS AT 20±2°C } 5·10¹²

SURFACE FINISH

R :- REPRESENT SURFACE FINISH TO BE OBTAINED BY WITHOUT REMOVAL OF MATERIA ON BOTH SIDE OF JOB.

Rz 80(V) :- REPRESENTS Rz VALUE OF SURFACE FINISH OF 80 MICRONS ON THOSE SURFACES WHERE SURFACE FINISH IS NOT SPECIFIED

Easy2Convert
www.easy2convert.com

						INSCRIBED	DRG NOT TO BE SCALED	PERTAINS TO
						CHECKED <i>[Signature]</i>	ALL SHARP EDGES & CORNERS TO BE ROUNDED OFF	
						APPROVED <i>[Signature]</i>	ALL DIMENSION ARE IN MM UNLESS OTHERWISE SPECIFIED	
						DATE 17.11.21	WASHER	X5-114-53
						TOLERANCE UNLESS OTHERWISE SPECIFIED	SCALE :-	
						GENI DEC ANG	CONTROLLERATE OF INSPECTION FIRE FIGHTING EDPT PUNE	

64601-6X

2.5

TECHNICAL CONDITIONS

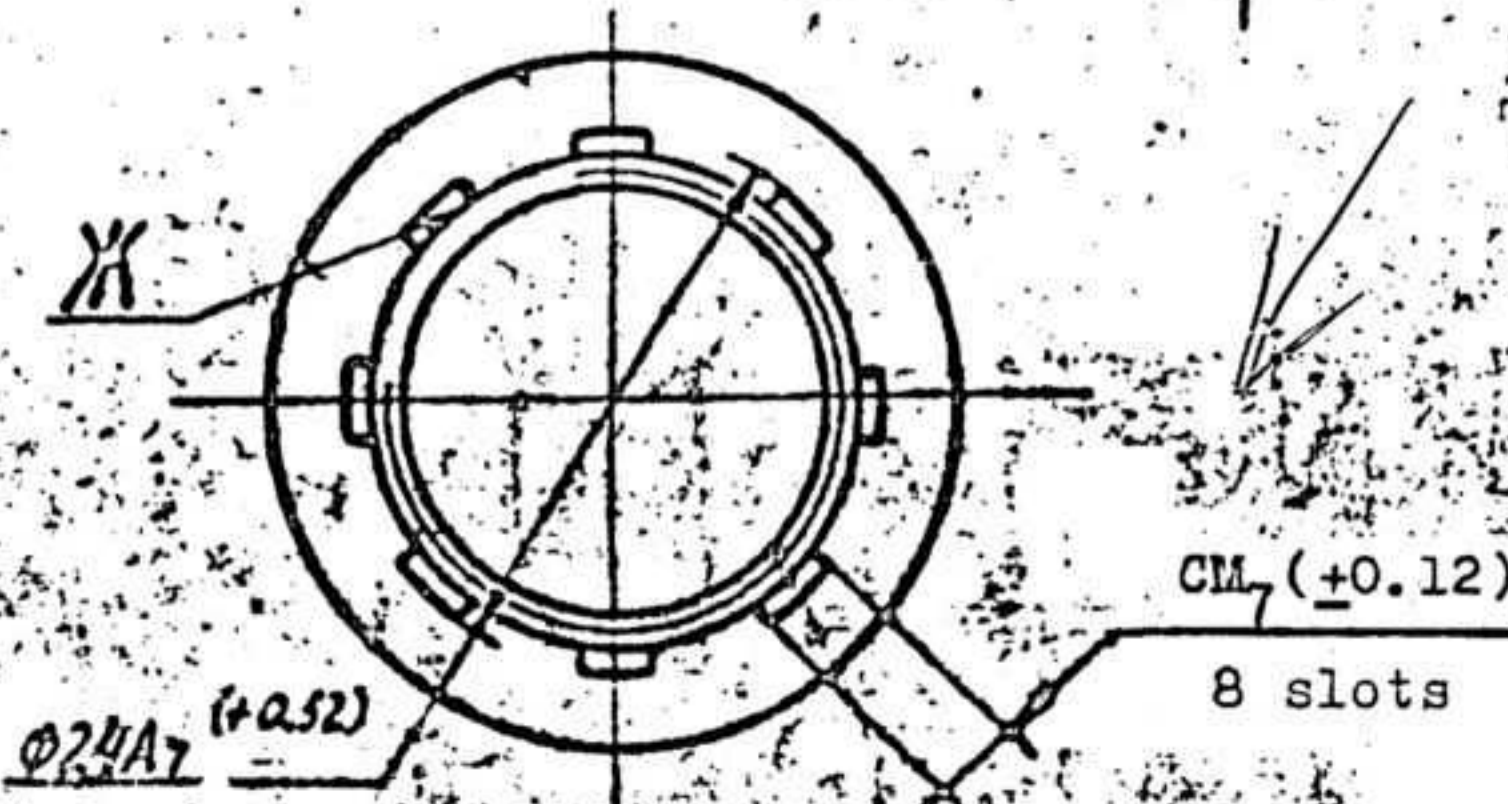
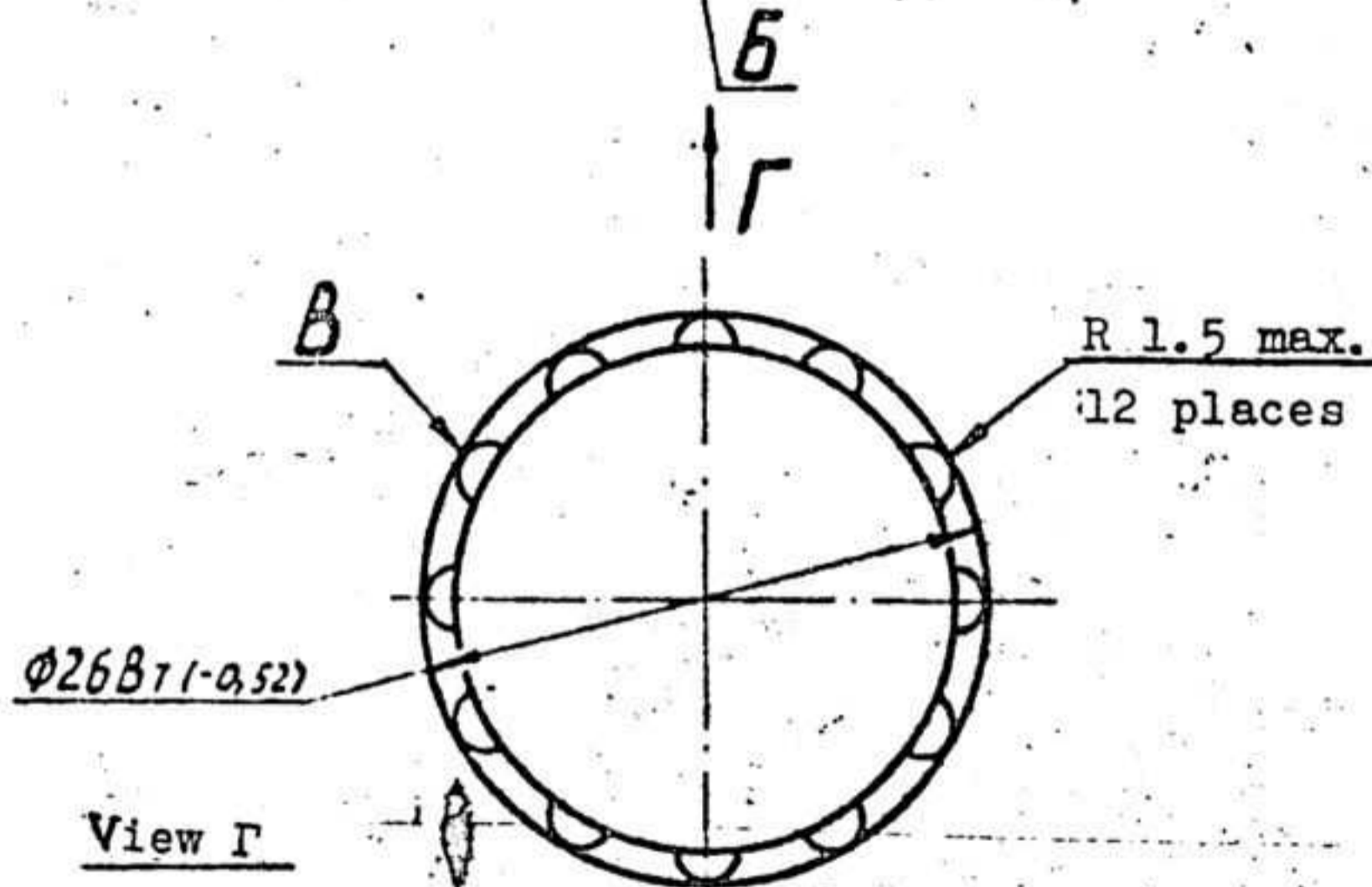
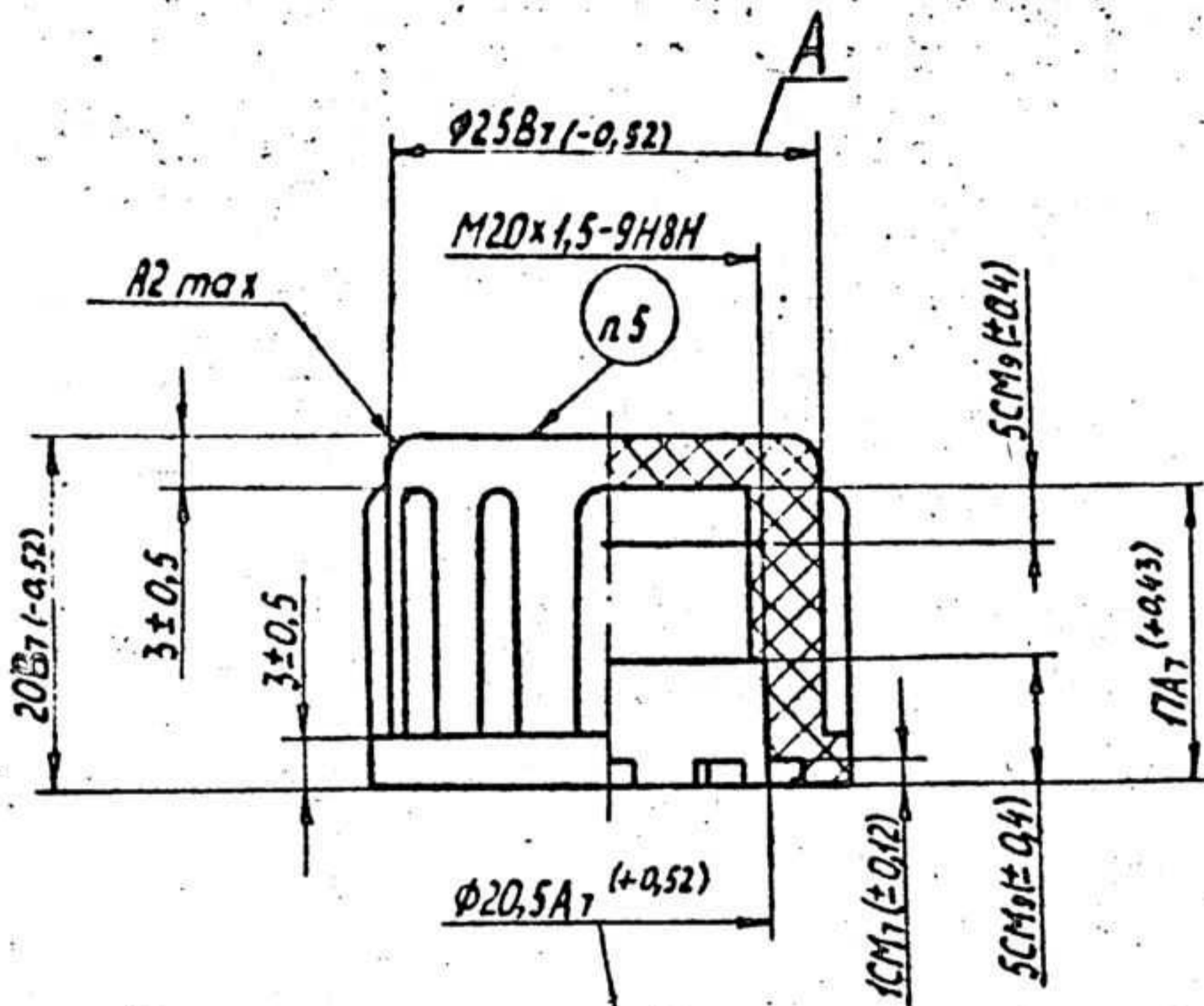
1. Material substitute: Polyethylene 210-01, grade 1, ГОСТ 16338-77.
2. Taper of 1° in decreasing order of size A and of 4° in increasing order of size B is allowed.
3. Radii 1 mm, max., unless otherwise specified.
4. Angular displacement of ribs B is within ±1° from the nominal position.
5. Mark the mould seat and part designation with convex lettering 4.
7. Provide for sizes by appropriate tools.
8. Tolerable angular displacements of slots * is ±1°.

“TRANSPORTATION CAP SHOULD BE MANUFACTURED FROM HIGH DENSITY POLYETHYLENE HIGH QUALITY TO ГОСТ 16338-77”

SURFACE FINISH

2.5/ REPRESENTS SURFACE FINISH TO BE OBTAINED WITHOUT REMOVAL OF MATERIAL, IN Rq VALUE. 2.5 μ MAX. ALL OVER

(Signature)
(R YEERARAGHAVAN)
SSO II



APPROVED <i>(Signature)</i>		X9-10949	
CHECKED. <i>(Signature)</i>		TRANSPORTATION CAP	WEIGHT SCALE
CONTROLLERATE OF INSPECTION			3.8g 2:1
FE (TCV) PUNE		SHT	SHTS. 1
		POLYETHYLENE 209-01, GRADE 1, ГОСТ 16338-77	

94/D2073

17899 (ГОСТ) 17.3.77 | 5815

