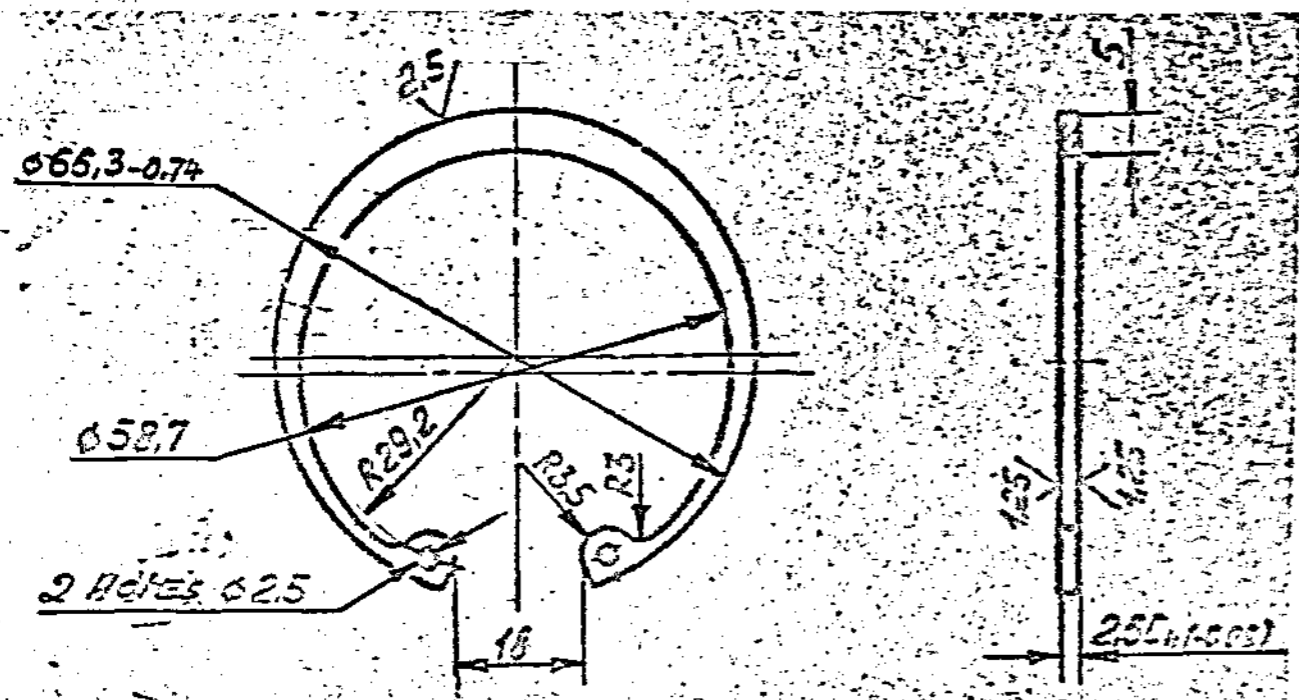


DRAWING NUMBER
20-27-333

g(V)



1. INSPECTION GROUP IV AS PER TECHNICAL REQUIREMENTS TT-1
2. TECHNICAL REQUIREMENTS ARE AS PER GOST 13944-62.
3. COATING : CHEMICALLY OXIDIZED, OILED.
4. APPLY STAMPING ONTO THE TAG FOR BATCH OF PARTS AND SEAL

EXPLANATORY NOTE :-

MATERIAL 3 GOST 19904-74
55T GOST 1542-71

COLD ROLLED SHEET GOST 19904-74

3 - THICKNESS OF SHEET STEEL

55T - GRADE OF MATERIAL

(a) CHEMICAL COMPOSITION :- AS PER GOST 1050-74

GRADE OF STEEL	CONTENT OF ELEMENTS %							
	C	Si	Mn	Cr (max)	P (max)	S (max)	Cu (max)	Ni (max)
55T	0.62 - 0.70	0.17 - 0.37	0.90 - 1.20	0.25	0.035	0.20	0.15	0.10

(b) MECHANICAL PROPERTIES :-

- HARDNESS - HRC = 24
 TENSILE STRENGTH = 60 - 85 Kg/mm²
 ELONGATION % = 12 (MIN)
 DECARBONISED DEPTH WILL BE CHECKED AS PER SPECIFICATION.

Ⓐ EQUIVALENT MATERIAL
75 C6 TO IS:2507/EN42 J BS:970

PILOT SAMPLE SHOULD BE APPROVED BY A H S P BEFORE BULK PRODUCTION

EST. WT. TO BE STAMPED OR MARKED WHERE INDICATED THUS ≡ (LETTERS)
0.0112 Kg.

ALL SHARP EDGES AND CORNERS TO BE REMOVED UNLESS OTHERWISE STATED MACHINED CORNERS TO HAVE R OUT SIDE INSIDE EQUIVALENT CHAMFERS ARE PERMISSIBLE.

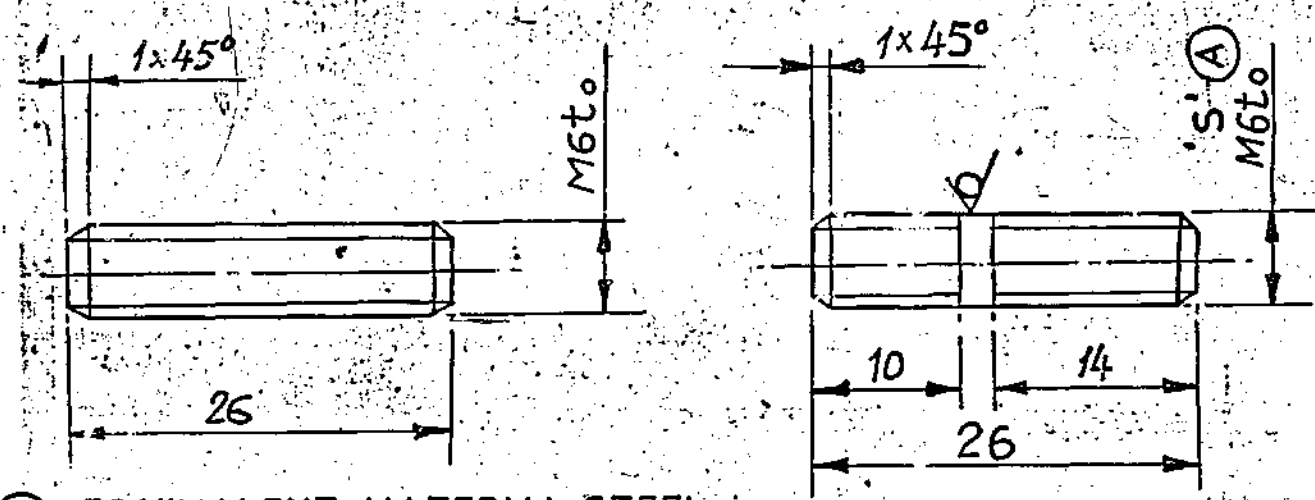
DRN	<i>[Signature]</i>
CHKD	<i>[Signature]</i>
TED	<i>[Signature]</i>
APPD	<i>[Signature]</i>
DATE	6-05-87
SCALE	1:1
DIMENSIONS IN mm	
TOLERANCE ON DIMS	
UNLESS OTHERWISE STATED IS:2152-69	
ALL TRENDS TO CONFORM TO	
ISSUE DATE	16-08-10
NATURE OF AMENDMENTS	4 th Alt. Comm. Meeting Minutes Point No.12 Dt:26-10-09

MATERIAL 3 GOST 19904-74 55T GOST 1542-71	USED ON C6 20-27-05-27
CONTROLLERATE OF QUALITY ASSURANCE (HEAVY VEHICLES) AVADI	
TITLE	LOCKING RING
D S CAT NUMBER	DRAWING NUMBER 20-27-333



Rz 80/ (✓)

DRAWING NUMBER
550-101



(C) EQUIVALENT MATERIAL STEEL
45C8 TO IS:1570

1. ALTERNATE MATERIAL IS STEEL 40, 50 GOST 1050-74
2. UNSPECIFIED LIMIT DEVIATIONS OF DIMENSIONS ARE AS FOLLOWS:
FOR SHAFTS-AS PER B7
FOR OTHERS-AS PER CM7.
3. CUT THREAD AS PER STANDARD 82020-12, ISSUE 7.
4. COATING: CADMIUM-PLATED 3 MICRONS THICK, OILED
5. TECHNICAL REQUIREMENTS ARE AS PER GOST 1759-70.
6. UNTHREADED PORTION OF THE ROD MAY BE MADE WITH IN THE LIMITS OF THE ANGLE DIAMETER OF THE THREAD.
7. MECHANICAL DAMAGE TO COATING SUCH AS SCRATCHES, NOTCHES AND DENTS WHICH DO NOT EXPOSE STEEL ARE PERMITTED IN ASSY. UNITS.

(B) 8. HARDNESS:- 27-32 HRC.

PLOT SAMPLE SHOULD BE APPROVED BY A H S P BEFORE BULK PRODUCTION

EST. WT. TO BE STAMPED OR MARKED WHERE INDICATED THIS # 1 LETTERS)
0.004 kg.

ALL SHARP EDGES AND CORNERS TO BE REMOVED UNLESS OTHER USE STATED MACHINED CORNERS TO HAVE R OUT SIDE IN OF EQUIVALENT CHAMFERS ARE PERMISSIBLE

EXPLANATORY NOTE

MATERIAL QUOTED : STEEL 45 GOST 1050-74.

45 = GRADE OF MATERIAL

CHEMICAL COMPOSITION : (AS PER GOST 1050-74)

GRADE OF STEEL	CONTENT OF ELEMENTS %							
	C	Si	Mn	Cr	P	S	Cu	Ni
45	0.42-	0.17-	0.50-	0.25	0.035	0.040	0.25	0.25
	0.50	0.37	0.80					

MECHANICAL PROPERTIES

TENSILE STRENGTH Kgf/mm² = 61 (min)

YIELD POINT Kgf/mm² = 36 (min)

ELONGATION % = 16 (min)

REDUCTION IN AREA % = 40 (min)

(A) REPAIR SIZE DIMENSIONS

CATEGORY	DESIGNATION OF SIZE	SIZE ACCORDING TO WORKING DRG	REPAIR SIZE DIMENSION - S
550-101 R1	DIAMETER	M6 x 1 to	M8 x 1.25 to
	DIAMETRAL PITCH		+0.152 7.188 + 0.082

All other details as per working drg.
(B) * ALT. MATERIAL:- STEEL 709 M40 (EN-19) TO BS:970 PT.-1- 1983.

USED ON CB 20-06-07
CB 20-08-11,
CB 20-09-6,
CB 20-01-02-9,
CB 20-06-09-2,
CB 20-06-08-2,
CB 20-27-05-4,
CB 20-11-02-9.

DRN	<i>S. V. R.</i>	MATERIAL:- *	45 GOST 1050-74
CHKD	<i>S. V. R.</i>	CONTROLLERATE OF QUALITY ASSURANCE (HEAVY VEHICLES)	
TCD	<i>S. V. R.</i>	AVADI	
APPD	<i>V. Ramana</i>	TITLE	
DATE	3-6-91	STUD M6X26	
SCALE:-	2:1	D S CAT NUMBER	
DIMENSIONS IN mm		DRAWING NUMBER	
TOLERANCE ON DIMS UNLESS OTHERWISE STATED IS:2102-69		550-101	
ALL THREADS TO CONFORM TO			
ISSUE DATE		NATURE OF AMENDMENTS	

ISSUE 1761-81

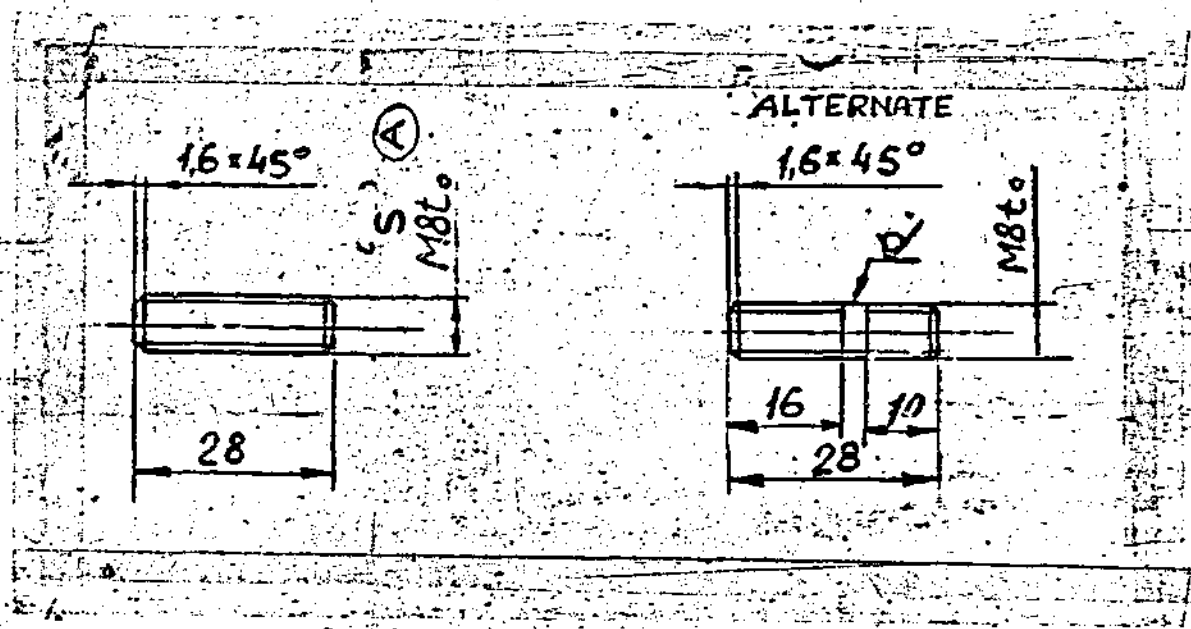


SIZE A3



DRAWING NUMBER
550-110

R280 (✓)



EXPLANATORY NOTE

MATERIAL QUOTED : STEEL 45 GOST 1050-74.
45° = GRADE OF MATERIAL
CHEMICAL COMPOSITION : (AS PER GOST 1050-74)

GRADE OF STEEL	CONTENT OF ELEMENTS %							
	C	Si	Mn	Cr	P	S	Cu	Ni
45	0.42-	0.17-	0.50	0.25	0.035	0.040	0.25	0.25
	0.50	0.37	0.80					

MECHANICAL PROPERTIES :

TENSILE STRENGTH Kgf/mm² = 61 (min)

YIELD POINT Kgf/mm² = 36 (min)

ELONGATION % = 16 (min)

REDUCTION IN AREA % = 40 (min)

REPAIR SIZE DIMENSIONS

CATEGORY	DESIGNATION OF SIZE	SIZE ACCORDING TO WORKING DRG	REPAIR SIZE DIMENSION 'S'
550-110 R1	DIAMETER	M 8 X 1.25 to	M 10 X 1.5 to
	DIAMETRAL PITCH		+0.170 9.026+0.095

All other details as per working drg

- 1. ALTERNATE MATERIAL IS STEEL 45 GOST 1050-74.
- 2. UNSPECIFIED LIMIT DEVIATIONS OF DIMENSIONS ARE AS FOLLOWS.
FOR SHAFTS - AS PER B7;
OTHERS - AS PER CM7.
- 3. MAKE THREADS AS PER STANDARD 82020-12, ISSUE 7.
- 4. TECHNICAL REQUIREMENTS ARE AS PER GOST 1759-70.
- 5. COATING : CADMIUM-PLATED, 3 MICRONS THICK, OILED.
- 6. UNTHREADED PORTION OF THE ROD MAY BE MADE WITH IN
LIMITS OF THE ANGLE DIAMETER OF THE THREAD.
- 7. MECHANICAL DAMAGE TO COATINGS SUCH AS SCRATCHES, NOTCHES
AND DENTS WHICH DO NOT EXPOSE STEEL IS ALLOWED IN ASSEMBLY UNITS.
- 8. HARDNESS:- 27-32 HRC.

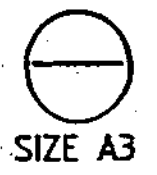
* MATERIAL -
STEEL 709 M40 (EN-19) TO
BS:- 970 PT.-I- 1983.

PILOT SAMPLE SHOULD BE APPROVED BY A H S P BEFORE BULK PRODUCTION

EST. WT. TO BE STAMPED OR MARKED - WHERE INDICATED THIS # 1 LETTERS)

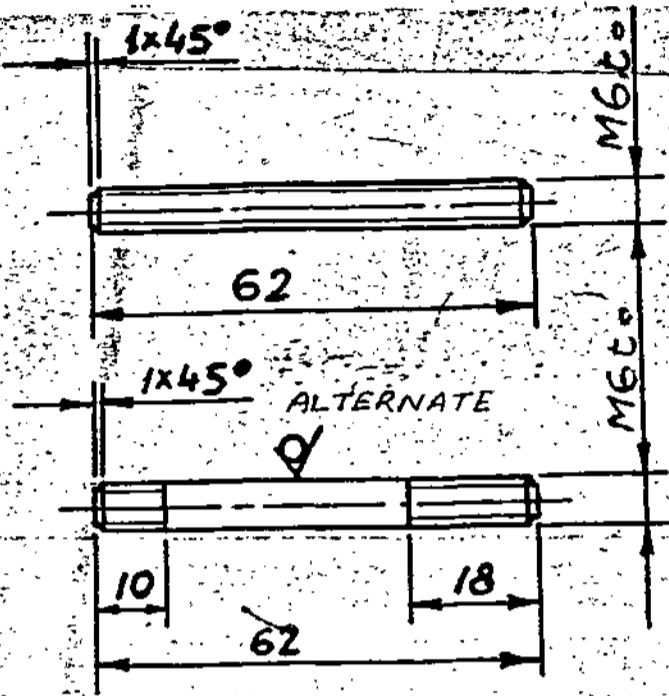
ALL SHARP EDGES AND CORNERS TO BE REMOVED UNLESS OTHERWISE STATED MACHINED CORNERS TO HAVE R OUT SIDE INSIDE EQUIVALENT CHAMFERS ARE PERMISSIBLE.

DRN	CHD	TEC	APPD	DATE	SCALE	MATERIAL	USED ON
				2.5-4-87	1:1	* 45 GOST 1050-74	CB 20-01-02-9 CB 20-27-05-4
D	20.09.12	7th ALTERATION COMMITTEE MEETING MINUTES POINT No.8. DATE:-11.04.2012.			DIMENSIONS IN mm TOLERANCE ON DIMNS UNLESS OTHERWISE STATED IS:2102-69	CONTROLLERATE OF QUALITY ASSURANCE(HEAVY VEHICLES) AVADI	
C	9.6.09	3rd ALTERATION COMM. MINUTES POINT 5 DATE 27-2-09				TITLE STUD M8x28	D S CAT NUMBER
B	12.01.08	AUTHY:-MIN. OF ALT. COM. MEET POINT. No.- 2.12 Dt.- 07-02-07			ALL THREADS TO CONFORM TO		
A	7.8.98	AUTHY:-SPICN.FOR REPAIR SIZE DRGS PART				ISSUE DATE	NATURE OF AMENDMENTS



SIZE A3





1. ALTERNATE MATERIAL IS STEEL 40, 50, GOST 105074.
2. UNSPECIFIED LIMIT DEVIATIONS OF DIMENSIONS ARE AS FOLLOWS:
FOR SHAFTS - AS PER B,
OTHERS - AS PER C₇.
3. MAKE THREAD AS PER STANDARD 82012-12, ISSUE 7.
4. TECHNICAL REQUIREMENTS ARE AS PER GOST 1759-70.
5. COATING: CADMIUM-PLATED 3 MICRONS THICK, OILED.
6. THE UNTHREADED PORTION OF THE ROD MAY BE MADE WITHIN THE LIMITS OF THE ANGLE DIAMETER OF THREAD.
7. IN THE ASSEMBLY UNITS, MECHANICAL DAMAGE TO THE COATINGS SUCH AS SCRATCHES, NOTCHES AND DENTS WHICH DO NOT EXPOSE STEEL ARE PERMITTED.
8. HARDNESS: 27-32 HRC.

EXPLANATORY NOTE:

MATERIAL QUOTED: 45 GOST 1050-74.
ALTERNATE MATERIAL QUOTED: STEEL 40 & 50 GOST 1050-74.
 STEEL 40, 45 & 50 = GRADE OF STEEL.

CHEMICAL COMPOSITION:

GRADE OF STEEL	CONTENT OF ELEMENTS %							
	C	Si	Mn	Cr	Ni	S	P	Cu
40	0.37-0.45	0.17-0.37	0.50-0.80	0.25	0.25	0.040	0.035	0.25
45	0.42-0.50	0.17-0.37	0.50-0.80	0.25	0.25	0.040	0.035	0.25
50	0.47-0.55	0.17-0.37	0.50-0.80	0.25	0.25	0.040	0.035	0.25

MECHANICAL PROPERTIES:

GRADE OF STEEL	TENSILE STRENGTH	YIELD POINT	ELONGATION	REDUCTION	IMPACT STRENGTH
	Kgf/mm ²	Kgf/mm ²	%	IN AREA %	Kgf/cm ²
	MINIMUM				
40	58	34	19	45	6
45	61	36	16	40	5
50	64	38	14	40	4

* ALT. MATERIAL:-
 (A) STEEL 709 M40(EN-19)TO
 BS:- 970 PT.-1-1983.

PILOT SAMPLE SHOULD BE APPROVED BY A H S P BEFORE BULK PRODUCTION.

EST. WT. 0.012 Kg
 TO BE STAMPED OR MARKED WHERE INDICATED THUS # (LETTERS)

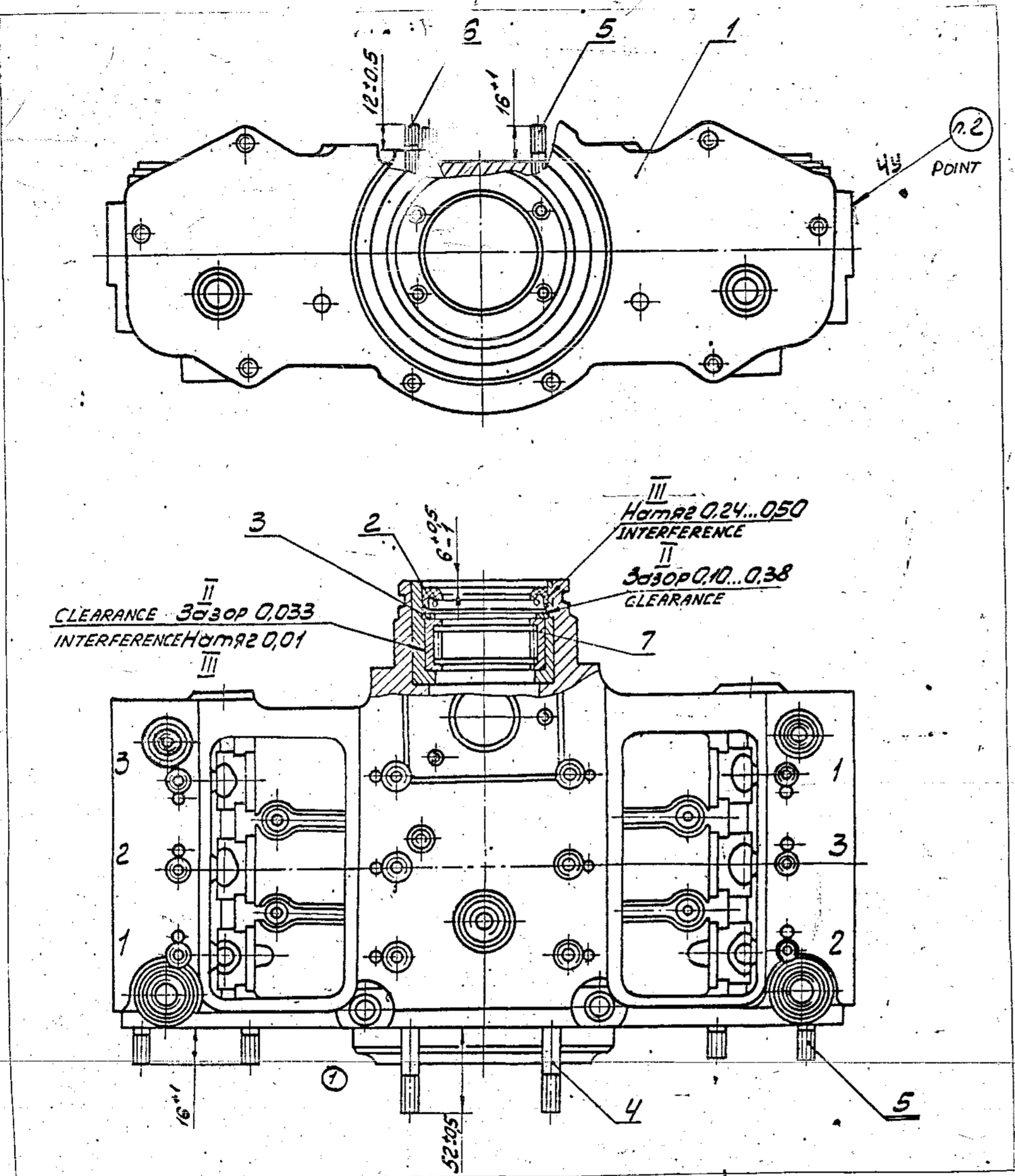
ALL SHARP EDGES AND CORNERS TO BE REMOVED UNLESS OTHERWISE STATED MACHINED CORNERS TO HAVE R OUTSIDE R INSIDE EQUIVALENT CHAMFERS ARE PERMISSIBLE.

DRN	DRN	MATERIAL	USED ON
TCO	TCO	45 GOST 1050-74	C6 20-27-05-4
APPO	APPO	CONTROLLERATE OF QUALITY ASSURANCE (HEAVY VEHICLES)	
DATE	DATE	A V A D I	
SCALE	SCALE	TITLE	
DIMENSIONS IN mm	DIMENSIONS IN mm	STUD M6X62	
TOLERANCE ON DIMNS UNLESS OTHERWISE STATED IS 2102-69	TOLERANCE ON DIMNS UNLESS OTHERWISE STATED IS 2102-69	D S EAT NUMBER	DRAWING NUMBER
A 10.01.08	AUTHY:-MIN. OF A&T. COM. MEET		550-114
ISSUE	DATE	NATURE OF AMENDMENTS	

KVD No. 63600



DRAWING NUMBER
СБ. 20. 27. 05-7



1. Корпус топливного насоса промыть на специальном моечном приспособлении под давлением с очисткой внутренних поверхностей топливных каналов.
 2. При отправке в запасные части маркировать: СБ. 20-27-05-7; шрифт П05 ГОСТ 2930-62.

- I. 1. Wash the fuel pump body with the special washing device under pressure together with cleaning of the inner surfaces of the fuel channels.
 2. Mark on the spares: СБ. 20-27-05-7; type П0 5. GOST 2930-62.

DRG. INDIVANISED BASED ON RUSSIAN ORIGINAL ISSUE - 1 NOTN. NO. 1677-853

PILOT SAMPLE SHOULD BE APPROVED BY A H S P BEFORE BULK PRODUCTION.

EST. WT. 9,080 Kg. TO BE STAMPED OR MARKED WHERE INDICATED THIS # LETTERS)
 ALL SHARP EDGES AND CORNERS TO BE REMOVED UNLESS OTHERWISE STATED MACHINED CORNERS TO HAVE R OUTSIDE R INSIDE EQUIVALENT CHAMFERS ARE PERMISSIBLE.

DRN	Chelomey	MATERIAL	USED ON
CHD			СБ 20-27-00-4
TCO	B. St. Jankin	CONTROLLERATE OF QUALITY ASSURANCE (HEAVY VEHICLES)	
APPD		A V A D I	
DATE	16-2-93	TITLE	
SCALE	1:2	Assy FUEL PUMP BODY	
DIMENSIONS IN mm		D S CAT NUMBER	
TOLERANCE ON DIMS UNLESS OTHERWISE STATED IS 2102-69		DRAWING NUMBER	
ALL THREADS TO CONFORM TO		СБ. 20. 27. 05-7	
ISSUE	DATE	NATURE OF AMENDMENTS	

SIZE A2

THE UNIVERSITY OF CHICAGO
DIVISION OF THE PHYSICAL SCIENCES
DEPARTMENT OF CHEMISTRY

RESEARCH REPORT
NO. 1000
BY
J. H. GOLDSTEIN
AND
R. F. STEIN
DEPARTMENT OF CHEMISTRY
UNIVERSITY OF CHICAGO
CHICAGO, ILLINOIS

RECEIVED AT THE NATIONAL BUREAU OF STANDARDS
MAY 15 1962

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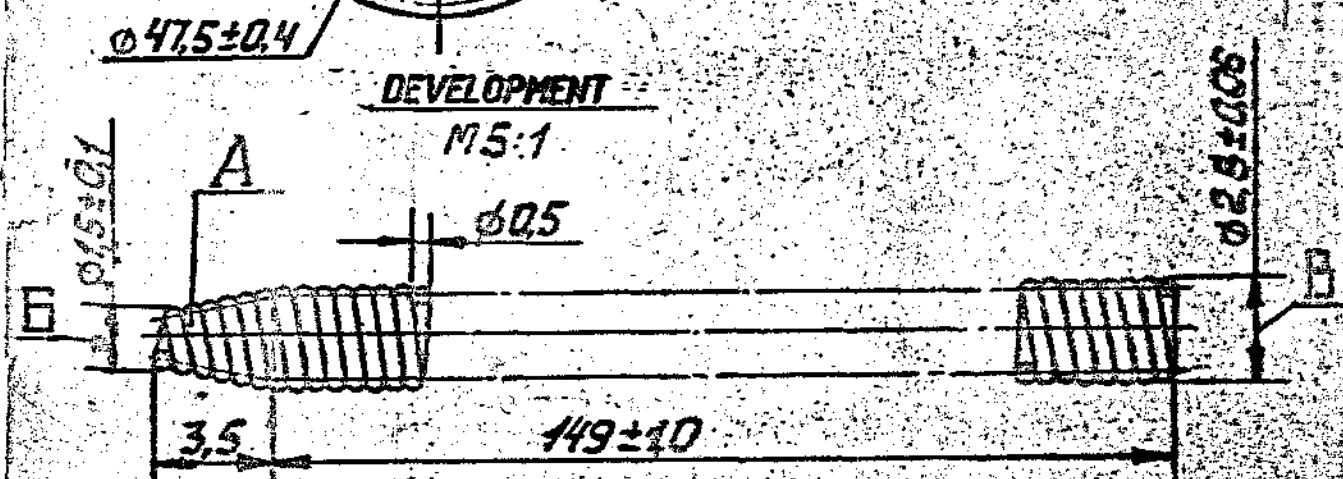
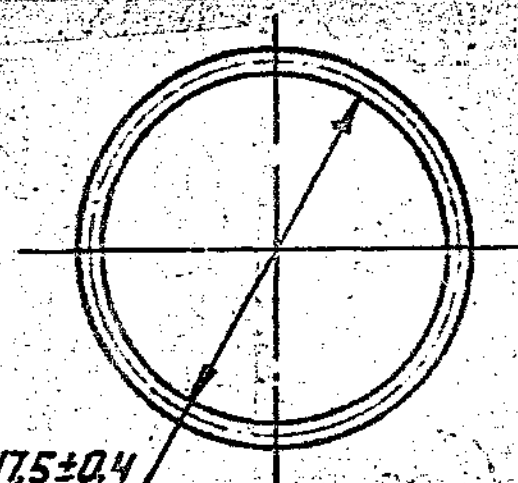
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DRAWING NUMBER

20-27-49



1. TOTAL LENGTH OF SPRING IS APPROXIMATELY 2250 mm.
2. SPRING COILING IS RIGHT-HAND, TIGHT.
3. CHANGE FROM DIAMETER 5 TO DIAMETER B IS TAPER.
4. THE END OF LOCK A SHOULD BE SCREWED INTO THE HOLE OF THE OTHER END OF SPRING SMOOTHLY WITHOUT SEIZING.
5. TO CHECK PROPER LOCKING OF THE LOCK OF THE SPRING COILED IN THE RING, INSTALL THE SPRING ON TO THE MANDREL 52MM IN DIAMETER, BY SO DOING THE ENDS OF THE SPRING SHOULD BE KEPT IN SCREWED POSITION.

6. COATING : CHEMICALLY OXIDIZED , OILED.

PILOT SAMPLE SHOULD BE APPROVED BY A H S P BEFORE BULK PRODUCTION

EST. WT. TO BE STAMPED OR MARKED WHERE INDICATED THUS ≡ (LETTERS)
0,0015 Kg

ALL SHARP EDGES AND CORNERS TO BE REMOVED UNLESS OTHERWISE STATED MACHINED CORNERS TO HAVE R OUT SIDE, INSIDE EQUIVALENT CHAMFERS ARE PERMISSIBLE.

7. EXPLANATORY NOTE :-

MATERIAL QUOTED :- WIRE I-0,5 GOST 9389-75

CARBON STEEL COLD DRAWN WIRE, FIRST (I) CATEGORY, NORMAL MANUFACTURING ACCURACY, DIAMETER OF WIRE 0,50 mm WITH TOLERANCE $\pm 0,02$ mm , MANUFACTURED FROM STEEL GRADE KT-2 AND SK-7 TO GOST 9389-75.

a) CHEMICAL COMPOSITION :

STEEL OF GRADE	CONTENT OF ELEMENTS %							
	C	Mn	Si	S	P	Cr	Ni	Cu
	M A X I M U M							
KT-2	0,86 - 0,91	0,20 - 0,40	0,17 - 0,37	0,020	0,020	0,05	0,05	0,10
SK-7	0,68 - 0,76	0,50 - 0,80	0,17 - 0,37	0,030	0,020	0,05	0,05	0,04

b) MECHANICAL PROPERTIES :

TENSILE STRENGTH = 265 - 300 Kg/mm²

NO. OF TWISTS = 16 (MIN)

DRN
CHD
TCD
APPD
DATE
SCALE :- 1:1

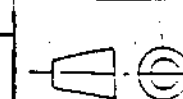
DIMENSIONS IN mm
TOLERANCE ON DIMS
UNLESS OTHERWISE
STATED IS:2102-69

ALL THREADS TO
CONFORM TO

MATERIAL :- WIRE I-0,5
GOST 9389-75

USED ON
CS 20-27-18

CONTROLLERATE OF QUALITY ASSURANCE (HEAVY VEHICLES)
AVADI



TITLE

CUP SPRING

D S CAT NUMBER

DRAWING NUMBER

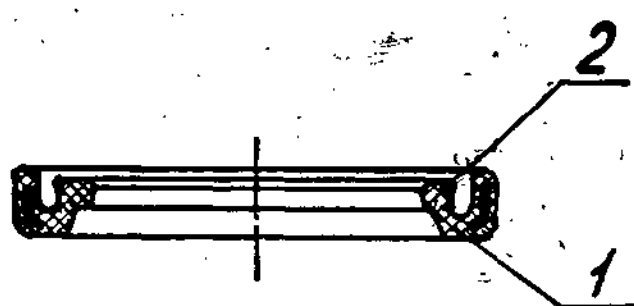
20-27-49

ISSUE DATE

NATURE OF AMENDMENTS



Восстановлено с оригинала
Верно: 25.04.87



FORMAT	ZONE	REF. NO.	DESIGNATION	DESCRIPTION	QTY.	REMARKS
				ASSEMBLY UNITS		
		1	CB 20-27-19	CUP BODY ASSY	1	
				PARTS		
		2	20-27-69	CUP SPRING	1	

KVD NO 63400

PILOT SAMPLE SHOULD BE APPROVED BY A H S P BEFORE BULK PRODUCTION

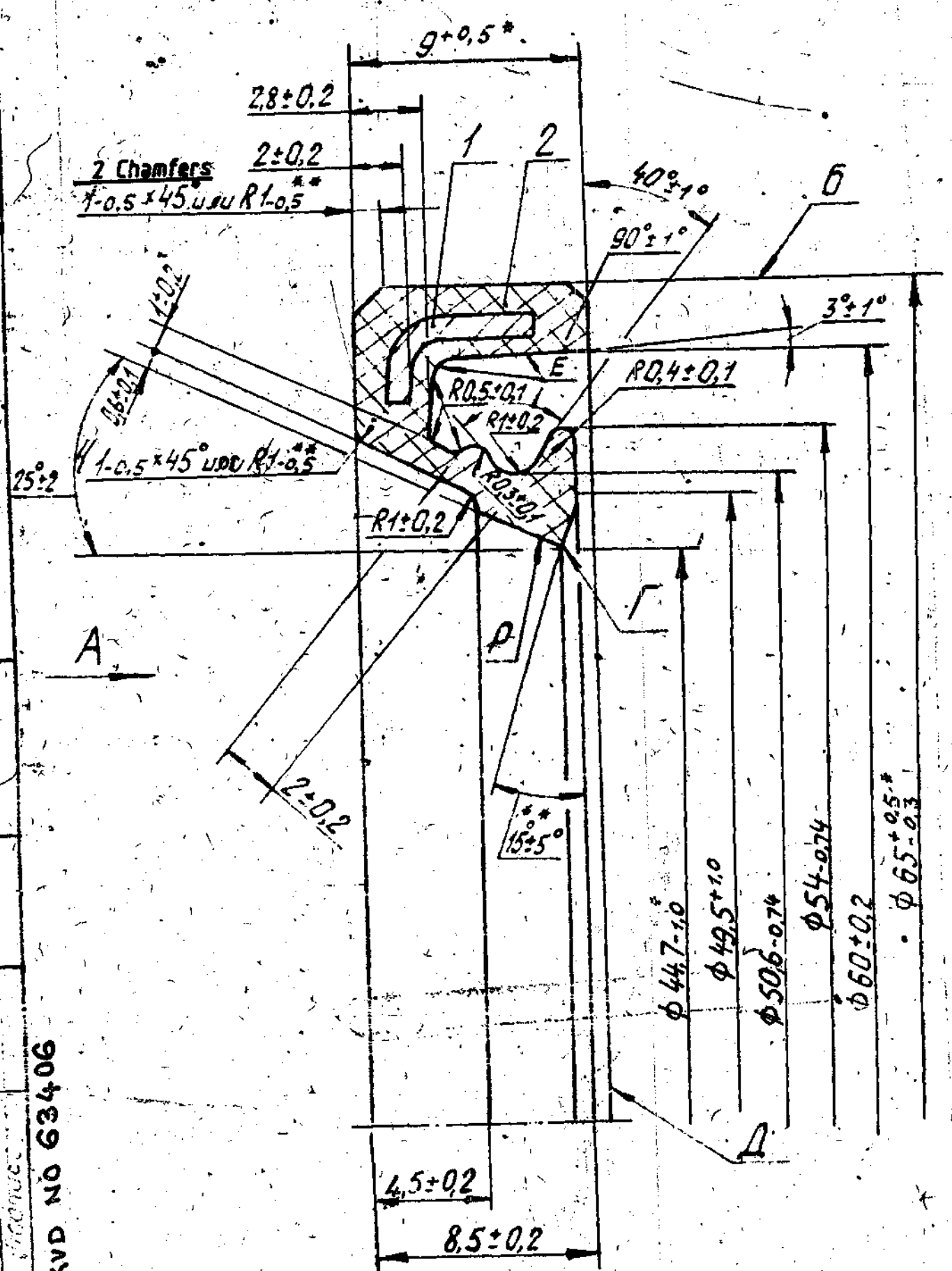
KVD NO 63400

EST. MASS		TO BE STAMPED OR MARKED WHERE INDICATED THIS #	
0.0255 Kg		1 LETTERS	
ALL SHARP EDGES AND CORNERS TO BE REMOVED UNLESS OTHERWISE STATED MACHINED-CORNERS TO HAVE R OUTSIDE R INSIDE EQUIVALENT CHAMFERS ARE PERMISSIBLE			
ISSUE	DATE	NATURE OF AMENDMENTS	
DRY		SCALE - 1:1	
MATERIAL -		USED ON - CB 20-27-05-7 7	
CHILDREN'S DIMENSIONS IN mm		CONTROLLERATE OF INSPECTION (HEAVY VEHICLES) AVADI	
JCD	TOLERANCE ON DIMS UNLESS OTHERWISE STATED		TITLE - CUP
APD	ALL THREADS CONFORM TO		DRAWING NUMBER - CB 20-27-18
DATE 25-04-87			

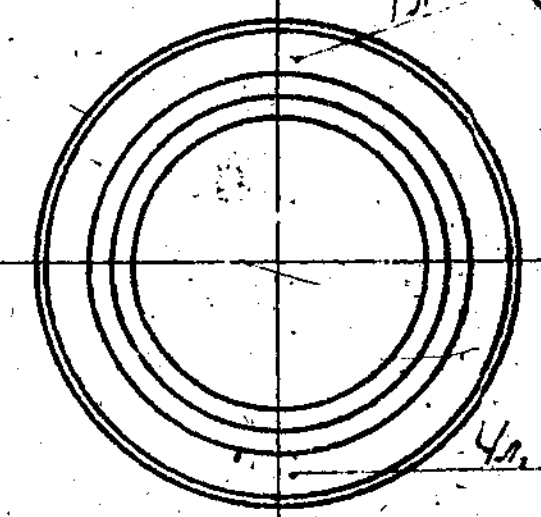


Восстановлен с подлинных чертежей

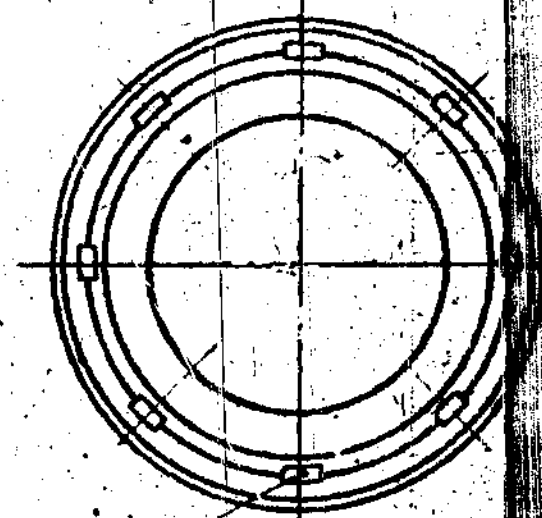
57-20-27-10



VIEW A
Scale 1:1



VIEW B
Scale 1:1



8 Traces made by lock pins or projections

1. All dimensions except for these marked with asterisk are provided with tools.
2. Working surface is marked as P. Machining is not allowed.
3. Edge F should be even. Tears out excess metal and burrs are not allowed.
4. Excess cement and non-rubberized sections of reinforcement are allowed on surface E.
5. Part surface may have burrs removal traces at parting points of a die.
6. Surface A may have a step, 0.5 mm high along the perimeter.
7. * * Grinding or under cutting is permitted.
8. Runout of surface B with respect to the axis of surface p or edge F should not exceed 0.3 mm.
9. Check internal diameter with gauge.
10. Apply marking by means of imprint of die engraving, with type n. 0-2,5 GOST 2930-62, being projected beyond the part surface by not more than 0.15 to 0.20 mm (xn - 46x65x9).
11. Mark date of manufacture of batch of parts on the tag.
12. All dimensions marked with asterisk (*) should be checked.

KVD NO 63406

KVD NO 63406

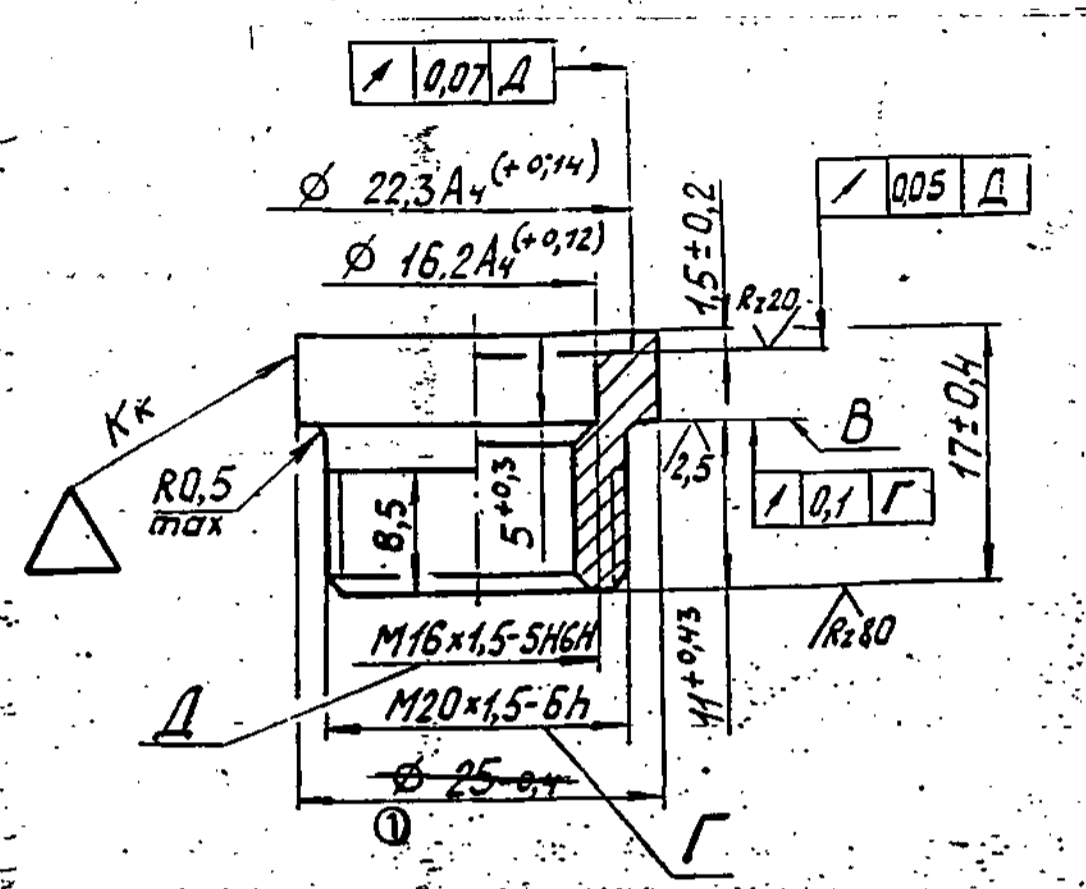
PILOT SAMPLE SHOULD BE APPROVED BY A H'S P BEFORE BULK PRODUCTION

		EST. MASS 0,030 Kg	TO BE STAMPED OR MARKED WHERE INDICATED THIS Φ
		LETTERS!	
		ALL SHARP EDGES AND CORNERS TO BE REMOVED UNLESS OTHERWISE STATED MACHINED CORNERS TO HAVE R OUTSIDE R INSIDE EQUIVALENT CHAMFERS ARE PERMISSIBLE	
ISSUE DATE	NATURE OF AMENDMENTS	MATERIAL	USED ON: C6 20-27-18
DRN	SCALE: 5:1	CONTROLLER OF INSPECTION (HEAVY VEHICLES / AVAD)	
CHD	DIMENSIONS IN mm	TITLE: CUP BODY ASSY	
TCO	TOLERANCE ON DIMS UNLESS OTHERWISE STATED	D'S CAT NUMBER	
APPD	ALL TOLERANCES CONFORM	05 20-27-10	

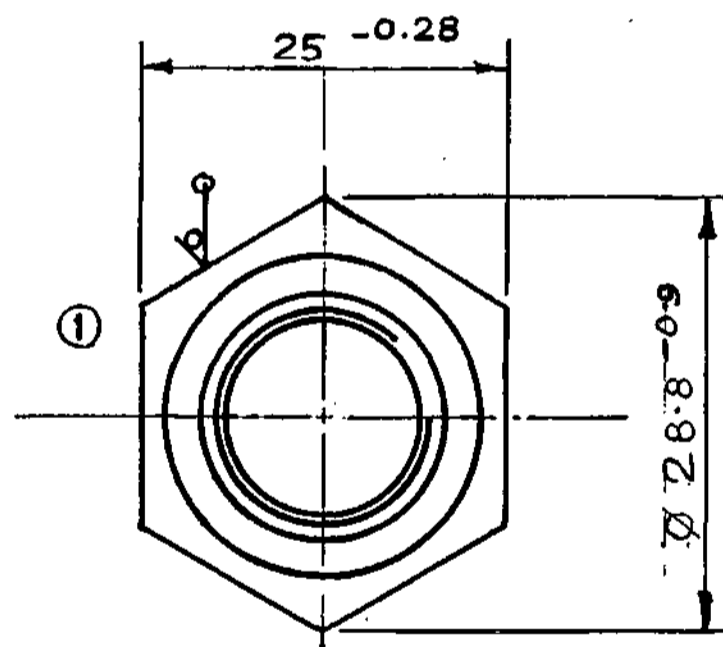




DRAWING NUMBER
20-27-335-2



1. CRACKS, BURRS, MARKS DENTS AND OTHER MECHANICAL DAMAGES ARE NOT ALLOWED.
2. THREAD SHOULD BE CLEAN AND SHOULD NOT HAVE BURRS, THREAD CUTS AND DENTS.
3. COATING : Cd 9. Cr.
THREADS TO BE CHECKED BEFORE COATING.
ABSENCE OF COATING ON INTERNAL SURFACES IS ALLOWED.
4. DURING FACING 'B' PLUNGE-CUT OF TOOL ALONG CYLINDRICAL SURFACE IS ALLOWED TO A DEPTH MAXIMUM 0.3mm.
5. THREAD MARK FOR ϕ 16.2 A₄ IS ALLOWED.
6. ALTERNATE MATERIAL - STEEL 35, 40, 50 GOST 1050-74.



EXPLANATORY NOTE :-

7. MATERIAL QUOTED: ① HEX BAR 25-5 GOST 8560-78
45-6 GOST 1051-73
Alt Mat Quoted : STEEL 35, 40, 50, GOST 1050-74.
① HEX BAR 25 mm A/F
ACCURACY CLASS 5 AS PER GOST 8560-78
35, 40, 45, 50, GRADE OF STEEL

a) CHEMICAL COMPOSITION (AS PER GOST 1050-74)

GRADE OF STEEL	CONTENT OF ELEMENTS %							
	C	Si	Mn	Cr	P	S	Cu	Ni
35	0.32-0.40	0.17-0.37	0.50-0.80	0.25	0.035	0.040	0.25	0.25
40	0.37-0.45	0.17-0.37	0.50-0.80	0.25	0.035	0.040	0.25	0.25
45	0.42-0.50	0.17-0.37	0.50-0.80	0.25	0.035	0.040	0.25	0.25
50	0.47-0.55	0.17-0.37	0.50-0.80	0.25	0.035	0.040	0.25	0.25

b) MECHANICAL PROPERTIES AS PER GOST 1050-74

GRADE OF STEEL	ULTIMATE TENSILE STRENGTH Kgf/mm ² (min)	YIELD POINT Kgf/mm ² (min)	% ELONGATION (min)	REDUCTION IN AREA % (min)	IMPACT STRENGTH Kgf/mm ² (min)
35	56	32	20	45	7
40	58	34	19	45	6
45	61	36	16	40	5
50	64	38	14	40	4

K.V.D. No. 63445
Original date : 6-11-89

SIZE A2

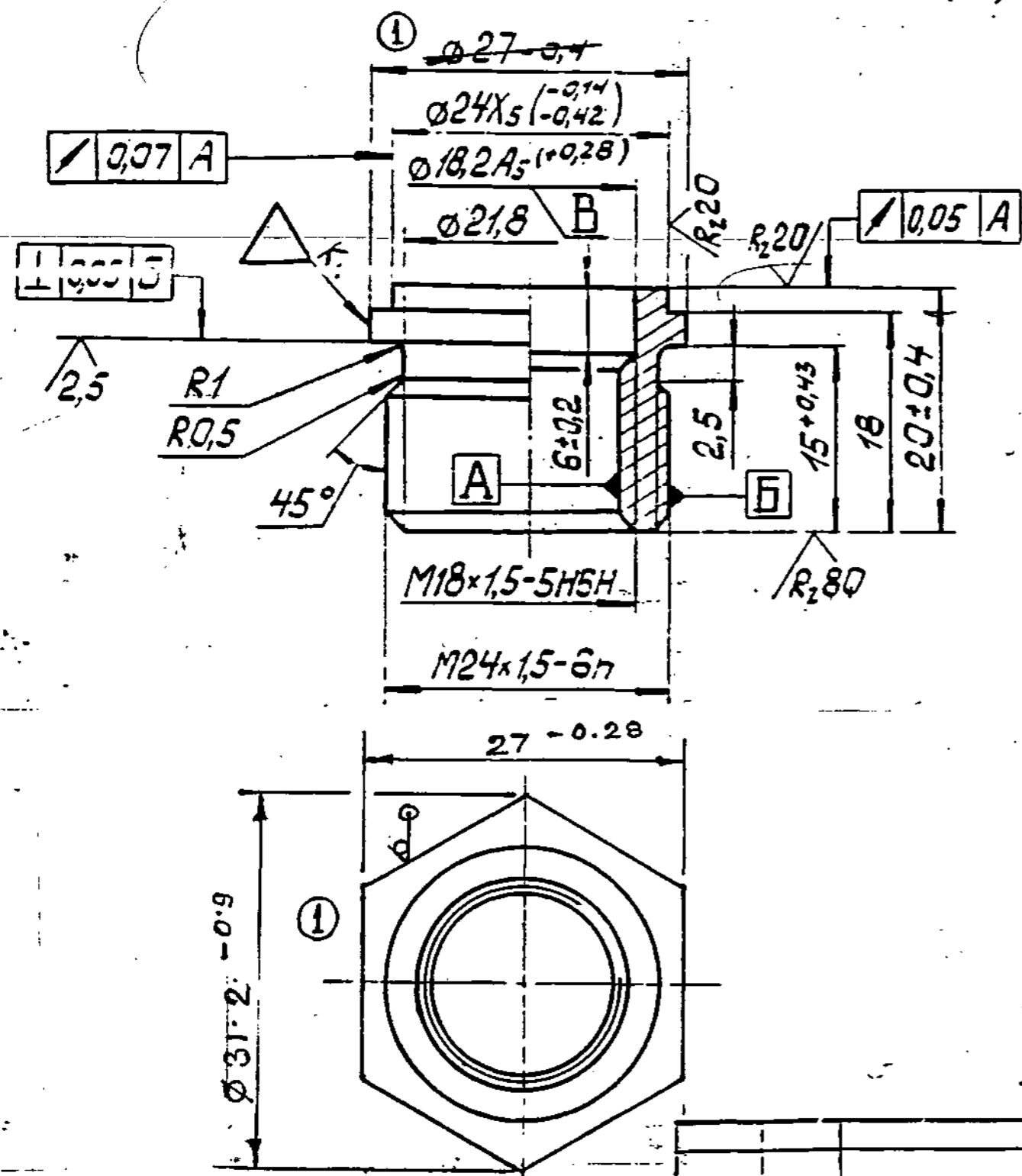
PILOT SAMPLE SHOULD BE APPROVED BY A H S P BEFORE BULK PRODUCTION.

EST. WT. 0.017 Kg.	TO BE STAMPED OR MARKED WHERE INDICATED THUS # (LETTERS)
ALL SHARP EDGES AND CORNERS TO BE REMOVED UNLESS OTHERWISE STATED MACHINED CORNERS TO HAVE R OUT - SIDE R INSIDE EQUIVALENT CHAMFERS ARE PERMISSIBLE.	

DRN	<i>Schultz</i>	MATERIAL :- ① hex bar 25-5 GOST 8560-78	USED ON :-
CHD	<i>Desla</i>	45-6 GOST 1051-73	CS 20-27-01-7
TCD	<i>Schultz</i>	CONTROLLERATE OF QUALITY ASSURANCE (HEAVY VEHICLES) A V A D I	
APPD	<i>KJL</i>	TITLE : BUSHing.	
DATE	28-2-01	S CAT NUMBER	
SCALE	2:1	DRAWING NUMBER	
DIMENSIONS IN mm		20-27-335-2	
TOLERANCE ON DIMNS UNLESS OTHERWISE STATED IS 2102 - 6		ALL THREADS TO CONFORM TO	
1	16.2.01	EFA/P/PDO/Q23 dt 22.9.2000	ISSUE DATE NATURE OF AMENDMENTS



DRAWING NUMBER
20-29-35



1. Alt. Matl. IS STEEL 40,50 GOST 1050-74.
2. UNSPECIFIED LIMIT DEVIATIONS OF DIMENSIONS ARE AS FOLLOWS :
FOR HOLES - AS PER A7, FOR SHAFTS - AS PER B7
FOR OTHERS - AS PER CM7
3. THREAD TRACE ON SURFACE 'B' IS PERMITTED.
4. COATING : CADMIUM-PLATED, 9 MICRONS THICK
OILED. ABSENCE OF COATING ON THE INTERNAL SURFACE IS ALLOWED.

①A EQUIVALENT MATERIAL
STEEL 080M40 (EN8) TO BS:970 OR
45 CB TO IS:7570

①* 27-5 GOST 8560-78
45 GOST 1051-74

KVD No. 63465

PLOT SAMPLE SHOULD BE APPROVED BY A H S P BEFORE
BULK PRODUCTION

EST. WT. TO BE STAMPED OR MARKED WHERE
0,03 Kg INDICATED THUS ≡ LETTERS)

ALL SHARP EDGES AND CORNERS TO BE REMOVED UNLESS
OTHERWISE STATED MACHINED CORNERS TO HAVE R OUT SIDE
INSIDE EQUIVALENT CHAMFERS ARE PERMISSIBLE

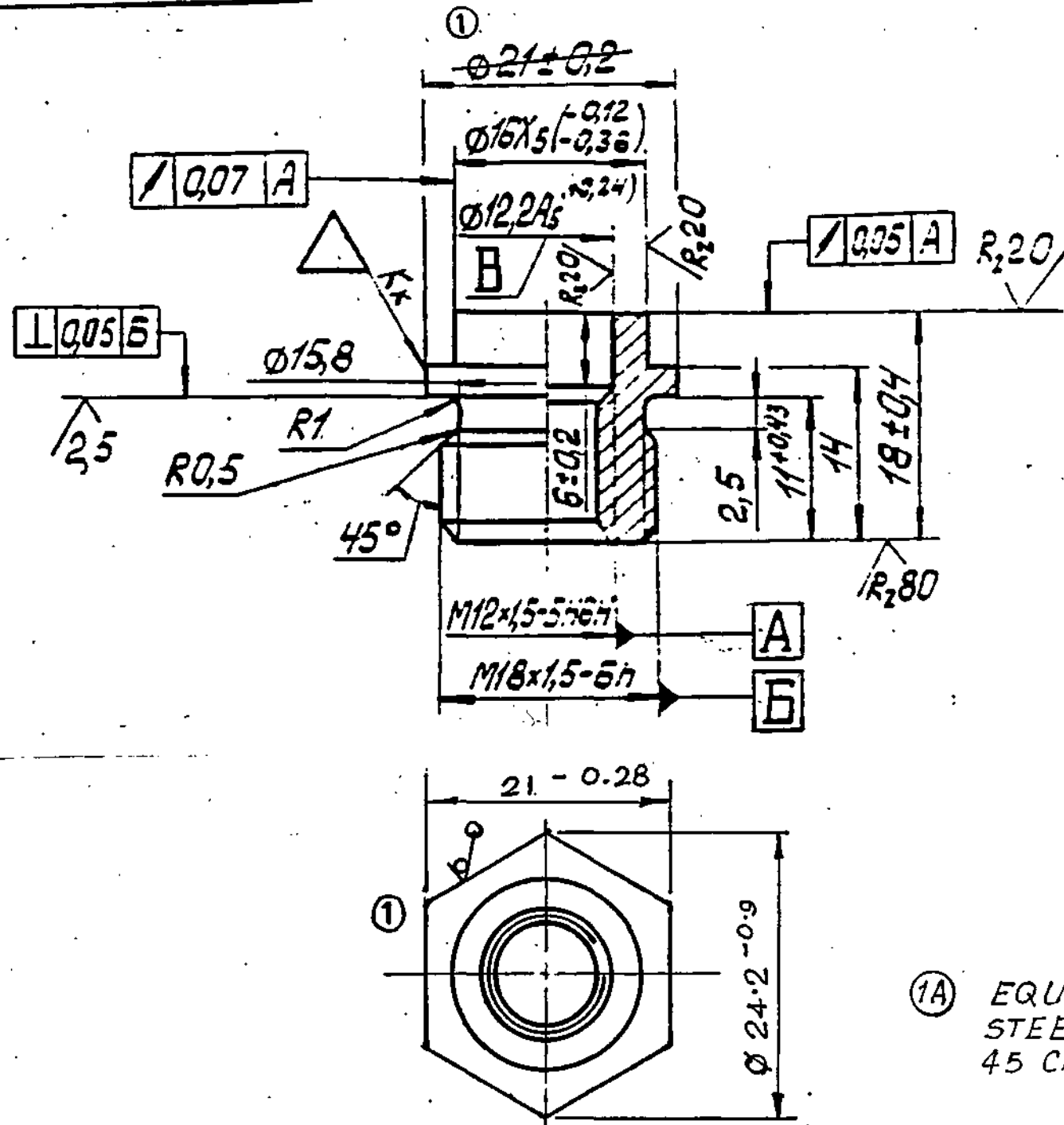
DATE	17-3-90	CONTROL	AVAJ
SCALE	2:1	CONTROLLER OF QUALITY ASSURANCE HEAVY VEHICLES	
DIMENSIONS IN mm		TITLE	
TOLERANCE ON DIMS		BUSHING	
UNLESS OTHERWISE		S CAT NUMBER	
STATED IS:2102-65		DRAWING NUMBER	
ALL THREADS TO		20-29-35	
CONFORM TO			
ISSUE DATE	10-7-10		
NATURE OF AMENDMENTS	4th ALT. COMM. Mtg. MINUTES POINT No 7 DT 26-10-09 EFA/P/PDO/023 dt 22.9.2000		



SIZE A3



DRAWING NUMBER
20-29-36



1. Alt. Matl. IS STEEL 40, 50, GOST 1050-74.
2. UNSPECIFIED LIMIT DEVIATIONS OF DIMENSIONS ARE AS FOLLOWS:
FOR HOLES - AS PER A, SHAFTS - AS PER B, OTHERS - AS PER CM.
3. THREAD TRACE ON SURFACE B IS PERMITTED.
4. COATING : CADMIUM-PLATED 9 MICRONS THICK, OILED
ABSENCE OF THE COATING ON THE INTERNAL SURFACE IS ALLOWED.

①A EQUIVALENT MATERIAL
STEEL 080 M40 (EN8) TO BS: 970 OR
45 CB TO IS: 1570

PILOT SAMPLE SHOULD BE APPROVED BY A H S P BEFORE BULK PRODUCTION

EST. WT. TO BE STAMPED OR MARKED WHERE INDICATED THUS # (LETTERS)

ALL SHARP EDGES AND CORNERS TO BE REMOVED UNLESS OTHERWISE STATED MACHINED CORNERS TO HAVE R OUT SIDE R INSIDE EQUIVALENT CHAMFERS ARE PERMISSIBLE.

DRN	<i>As-shilly</i>	MATERIAL: ① hex bar	USED ON
CHD	<i>Chakrabarti</i>	21-5 GOST 8560.78	CS 20-27-01-4
TCD	<i>As-shilly</i>	45-5 GOST 1051.73	CS 20-29-08-8
APPD	<i>C.S. Rao</i>	CONTROLLERATE OF QUALITY ASSURANCE (HEAVY VEHICLES) AVADI.	
DATE	28-2-01.	SCALE:- 2 : 1	
DIMENSIONS IN mm		TOLERANCE ON DIMS UNLESS OTHERWISE STATED IS : 2102-69.	
ALL THREADS TO CONFORM TO		D S CAT NUMBER	
ISSUE	DATE	DRAWING NUMBER	
1 A	10-7-10	20-29-36	
1	16.2.01		
NATURE OF AMENDMENTS			
4th ALT.COMM. Mtg. MINUTES			
POINT No 7 DT. 26-10-09			
EFA/P/PDO/023 dt 22.9.2000			

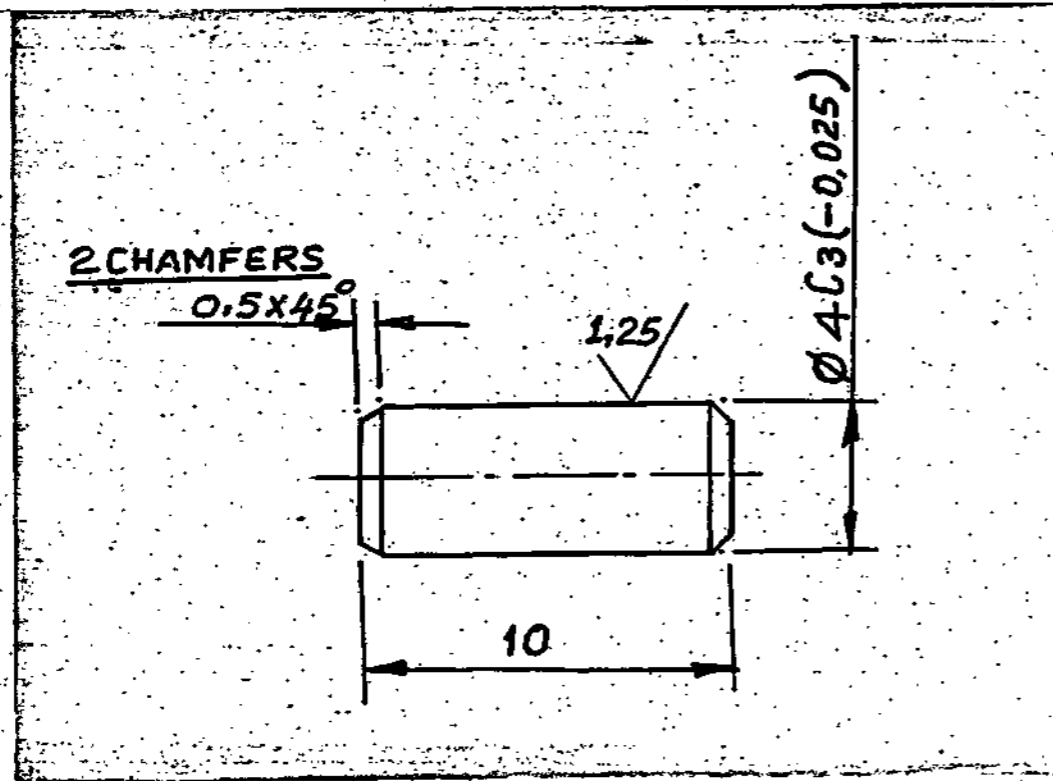


SIZE A3



DRAWING NUMBER
20-52-01

Rz40
√(✓)



EXPLANATORY NOTE:

MATERIAL QUOTED: 45 GOST 1050-74

45 = GRADE OF STEEL

CHEMICAL COMPOSITION %:

CARBON = 0.42-0.50

SILICON = 0.17-0.37

MANGANESE = 0.50-0.80

CHROMIUM = 0.25

PHOSPHORUS = 0.035

SULPHUR = 0.040

COPPER = 0.25

NICKEL = 0.25

MAXIMUM

MECHANICAL PROPERTIES:

ULTIMATE TENSILE STRENGTH $\text{Kgf/mm}^2 = 61$ (Min)

YIELD POINT $\text{Kgf/mm}^2 = 36$ (Min)

ELONGATION % = 16 (Min)

IMPACT STRENGTH $\text{Kgf.m/cm}^2 = 5$ (Min)

1. UNSPECIFIED LIMIT DEVIATIONS OF DIMENSIONS FOR SHAFTS ARE AS PER B7.
2. COATING: CHEMICALLY OXIDIZED, OILED.

Ⓐ EQUIVALENT MATERIAL
STEEL Ø80 M40 (EN8) TO BS: 970 OR
45 CB TO IS: 1570

EXPLANATORY NOTE ADDED ON 20-6-92

PILOT SAMPLE SHOULD BE APPROVED BY A H S P BEFORE BULK PRODUCTION

EST. WT. 0.001 kg. TO BE STAMPED OR MARKED WHERE INDICATED THUS # (LETTERS)

ALL SHARP EDGES AND CORNERS TO BE REMOVED UNLESS OTHERWISE STATED MACHINED CORNERS TO HAVE R OUT SIDE R INSIDE EQUIVALENT CHAMFERS ARE PERMISSIBLE.

			DRN		MATERIAL:-	USED ON
			CHD	<i>Prithvi</i>	45 GOST 1050-74	C620-27-01- <i>7</i>
			TCD	<i>Prithvi</i>		
			APPD	<i>Prithvi</i>		
			DATE	5-4-87	CONTROLLERATE OF QUALITY ASSURANCE (HEAVY VEHICLES)	
			SCALE:-	5:1	AVADI.	
			DIMENSIONS IN mm		TITLE	ROUNDLOCK PIN 4x10
			TOLERANCE ON DIMNS UNLESS OTHERWISE STATED IS : 2102-69.			
			A	10-7-10	D S CAT NUMBER	DRAWING NUMBER
			4th ALT. COMM. Mfg. MINUTES POINT No 7 DT 26-10-09			20-52-01
			ISSUE	DATE	NATURE OF AMENDMENTS	

SIZE A3



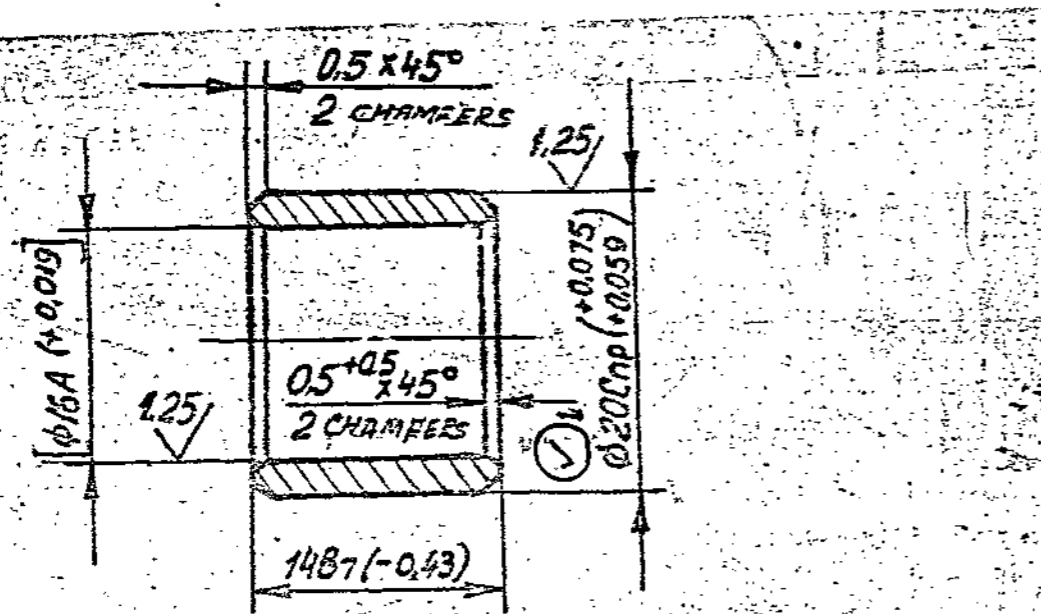
DRAWING NUMBER

327-21

Rz20 ✓ (✓)

EXPLANATORY NOTE :3. MATERIAL QUOTED : BRASS Λ 63 GOST 15527-70.ALTERNATE MATERIAL QUOTED : BRASS Λ C59-1 GOST 15527-70CHEMICAL COMPOSITION :

BASIC ELEMENTS	GRADE Λ 63	GRADE Λ C59-1
COPPER	= 62.0 - 65.0	57.0 - 60.0
LEAD	= -	0.8 - 1.9
<u>ADMIX</u> ZINC	REMAINDER	REMAINDER
LEAD	= 0.07 (max)	-
IRON	= 0.2 (max)	0.5 (max)
ANTIMONY	= 0.005 (max)	0.010 (max)
BISMUTH	= 0.002 (max)	0.003 (max)
PHOSPHORUS	= 0.01 (max)	0.02 (max)
TOTAL	= 0.5 (max)	0.75 (max)



- CARRY OUT FINAL MACHINING AS PER THE DIMENSION GIVEN IN SQUARE BRACKETS IN ASSY. 20-27-01-4.
- ALTERNATE MATERIAL IS BRASS Λ C59-1, GOST 15527-70.
- REPAIR SIZE DIMENSIONS ADDED BASED ON LT.No. 82847/OH/QAS/ED DT. 27 MAR 95 AS FOLLOWS:
REPAIR SIZE DIMENSIONS ADDED WHERE INDICATED THUS (✓)

Sl.No.	R1	R2	REMARKS
(✓) 1	$\phi 20.15$ +0.075 +0.059	$\phi 20.30$ +0.075 +0.059	1. ALL OTHER CONDITIONS AS PER STD.DRG 2. MARK REPAIR SIZE.

PILOT SAMPLE SHOULD BE APPROVED BY A H S P BEFORE BULK PRODUCTION

EST. WT. 0.013 Kg TO BE STAMPED OR MARKED WHERE INDICATED THUS (✓) (LETTERS)

ALL SHARP EDGES AND CORNERS TO BE REMOVED UNLESS OTHERWISE STATED MACHINED CORNERS TO HAVE R OUT SIDE INSIDE EQUIVALENT CHAMFERS ARE PERMISSIBLE.

DRN		MATERIAL:-	USED ON CB 3327-01-10
CHD		Λ 63 GOST 15527-70	CB 20-27-01-4
TCD			
APPD		CONTROLLERATE OF QUALITY ASSURANCE (HEAVY VEHICLES)	AVADI
DATE	04-05-87		
SCALE:-	2 : 1		
DIMENSIONS IN mm		TITLE	BUSH
TOLERANCE ON DIMNS UNLESS OTHERWISE STATED IS: 2102-69			
ALL THREADS TO CONFORM TO		D S CAT NUMBER	DRAWING NUMBER
			327-21

ISSUE DATE NATURE OF AMENDMENTS

KVD No- 66751

SIZE A3



DRAWING NUMBER

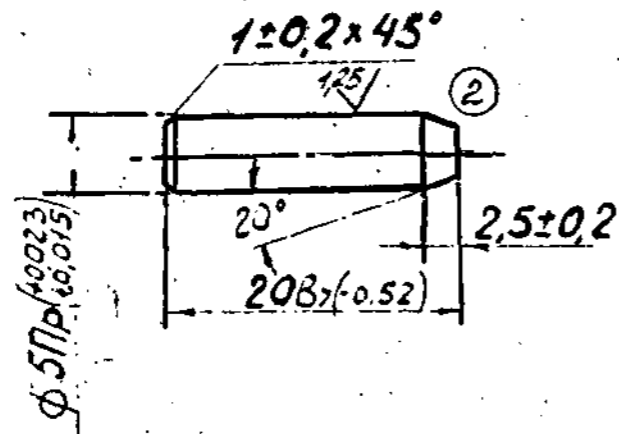
352-47

Rz 40 / (✓)

1. CONTROL GROUP IV TO TT 11.
2. DULL THE SHARP EDGES.
3. COATING: ~~XUM-OKE~~ CHEMICAL OXIDIZING, OIL FINISHING.
4. HARDNESS: HRC 28 - 33.

SCALE - 1:1

M 1:1



- I
1. Группа контроля IV по ТТ 11
 2. Острые кромки затупить.
 3. Покрытие: Хум. Окс
 4. Твердость HRC 28 - 33.

PILOT SAMPLE SHOULD BE APPROVED BY A H S P BEFORE BULK PRODUCTION

EST. WT. 0.0033 kg. TO BE STAMPED OR MARKED WHERE INDICATED THIS # (LETTERS)

ALL SHARP EDGES AND CORNERS TO BE REMOVED UNLESS OTHERWISE STATED MACHINED CORNERS TO HAVE R OUT SIDE R INSIDE EQUIVALENT CHAMFERS ARE PERMISSIBLE

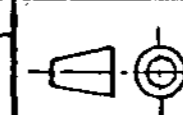
DRM *Alvarez*
 CHD *Alvarez*
 TCD *Alvarez*
 APPD *f*
 DATE 16-2-93
 SCALE:- 2:1

MATERIAL:-
 STEEL 38XA GOST 4543-71

USED ON
 CB 20-27-01-4

CONTROLLERATE OF QUALITY ASSURANCE (HEAVY VEHICLES)
 AVADI

DIMENSIONS IN mm
 TOLERANCE ON DIMNS
 UNLESS OTHERWISE
 STATED IS: 2102-69



TITLE
 CYLINDRICAL PIN

ALL THREADS TO
 CONFORM TO

D S CAT NUMBER

DRAWING NUMBER
 352-47

ISSUE DATE NATURE OF AMENDMENTS

DRG. INTRODUCED BASED ON NOTN. 1677-853

DRG. INDIANISED BASED ON RUSSIAN ORIGINAL ISSUE-2 (351-76)

SIZE A3



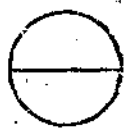


USED ON
CB 20-27-05-7

SUPERSEDES C6 20-27-01-4
I/L CREATED BASED ON RUSSIAN ORIGINAL ISSUE-1 NOTIFICATION No 1677-853

	C6 20-27-01-7		FUEL PUMP BODY	
	& ITEM LIST			
	V 240-280/75		INSTRUCTION FOR PART INSTALLING ON THE SEAL 33 W.	
1	20-27-20-7		FUEL PUMP BODY	1
2	20-27-330-1		SLEEVE	1
3	20-27-335-2		BUSHING	1
4	20-29-35		BUSHING	2
5	20-29-36		BUSHING	2
6	327-21		BUSHING	4
7	352-47		DOWEL PIN 5mm x 20	1
8	20-52-01		DOWEL PIN 4 x 10	1

ISSUE	DATE	NATURE OF AMENDMENTS	ISSUE	DATE	NATURE OF AMENDMENTS
DRN	<i>Jalovskis</i>		CONTROLLERATE OF QUALITY ASSURANCE (HEAVY VEHICLES) AVADI		
CHD			TITLE:		
TCD	<i>Jalovskis</i>		FUEL PUMP BODY		
APPD	<i>[Signature]</i>		SHT. No. 1 OF 1	D-5 CAT NUMBER	ITEM LIST FOR
DATE	16-2-93				CB20-27-01-7



1. The first part of the document discusses the importance of maintaining accurate records for all transactions. It emphasizes that every entry should be supported by a valid receipt or invoice to ensure transparency and accountability.

2. In the second section, we explore the various methods used to collect and analyze data. This includes both qualitative and quantitative approaches, each with its own strengths and limitations. The goal is to provide a comprehensive overview of the current state of research in this field.

3. The third section focuses on the practical application of these findings. It provides detailed instructions on how to implement the proposed strategies in a real-world setting, ensuring that the theoretical concepts are translated into actionable steps.

4. Finally, the fourth section discusses the future directions of the research. It identifies key areas that need further exploration and suggests potential avenues for future studies, aiming to advance the field and address existing gaps in knowledge.

5. The fifth section provides a summary of the key findings and conclusions drawn from the study. It highlights the most significant results and their implications for practice and theory, offering a clear and concise overview of the entire document.

6. The sixth section contains a list of references, providing a comprehensive list of the sources used in the research. This ensures that all claims made in the document are supported by credible and relevant literature.

7. The seventh section includes a list of appendices, which contain additional information that supports the main text but is too detailed to include in the main body of the document. These appendices provide further depth and detail to the research findings.

8. The eighth section provides a list of figures and tables, which are essential for visualizing the data and results presented in the document. These visual aids help to clarify complex information and make it easier to understand the key findings.

9. The final section contains a list of footnotes and a glossary of terms, ensuring that all terminology used in the document is clearly defined and understood. This section also includes any necessary clarifications or additional information related to the research.