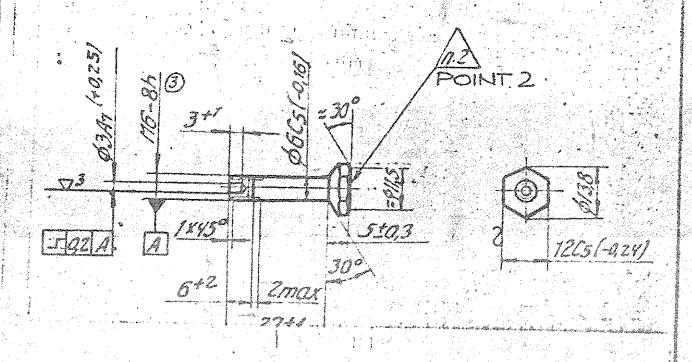


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-75-47-EB-	1	172 66 101 СБ-1		COCK DISTRIBUTING ASSY.		
	4	172 66 115 CG-1		RETAINER ASSY.	1	ALTERNATIVE TO
	2	175 66 117		SCREW STOPPER		Section Control of Control
	3	172 66 230-1		COVER	1	
	4	172 66 232-2		BODY	4	
	5	172 66 234-1		VALVE, SLIDE	4	
	6	172 66 235		SCREW STOPPER		
	7	172 66 236		PLUG	1	
	i i	172 66 237		PLUG		
	9	172 66 238		NUT		
ALSS SWALL ISSUE, ISSUE	10	172 66 242A		PLUG		
	11	432 40 235-1		SPRING		
	12	54 04 284		SPRING	4	
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	-44	-60sf-3722-60-		-8ALL 5-II-10.319am-14-	annendaria.	,
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CREATED BASED	16	COST 6472-70		WASHER -665F-046- 6765/016	2	ALTERNATA TO ITEM 26
	17	GOST 11371-68		WASHER 5, 01, 016	AS RE DUMEDI	
	18	175 47 019		RING	2	
Ë	20A	24-12-99 NOFA CRAGN	0/63/003/3PECN-			
	20	19.991 Drawing Amer	nded .	The state of the s		
SEPARATELY	49	2,9.89 DRG AMEN	DED			
e Vi	17,18	26.12.88 DRG. AMENDE	D.			
	15,16	26.12.88 AMDT. LIST No. 6	II В00К-9'.			
	ISSU:	DATE NATURE OF	AKENDYEKTS	ISSUE DATE NATURE OF	ANENO	Kn2
		CPL-	CONTROLLERATE	OF INSPECTION (HEAVY VEH	ICLES	) AVADL
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	TCD	m.Qmashand	<b>LOCK</b>	DISTRIBUTING AS	5Y.	
	APPD	Harry Commence of the Commence	SHT, No.1 CF 2	S CAT NUMBER   ITEM LIS	TROS	
	DATE	30-6-186		172 6	6 10	165-1

USED ON	ITEM	DRAWING NUMBER	In c car autore			No.		
			D S CAT NUMBER	DESCR	IPTION	OFF	REMARKS	
175 47 CB		MH: 415262		SEALING RING	10 X 16	1		
	20	MH 4152-62		SEALING RING	16 X 20	4		
Ŝ	21	GOST 397-79	no continue and the con	SPLIT PIN 2 >	( 20-016	A de la companya de l	The state of the s	
8	22	GOST 792-67		WIRE KO 1.2 -	1.6 X 100	3		
3 5 5	23	172 66 330	NAME OF THE PARTY	RETAINER			ALTERNATIVE TO	
T. D.	24	520 05 004-02		CAP		1	TECHNOLOGICAL	
	25	520 05 004-03		CAP		1	AS PER 98 GROUP	
	14	GOST-3722-81		BALL 5 10.3		2	AS PER ETY 500	
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Localisation	APPD	Markon						
	DATĖ	36-6-86	SHT. No. 2 OF 2.	D S CAT NUMBER ITEM LIST FOR 172 66 101C5-1				
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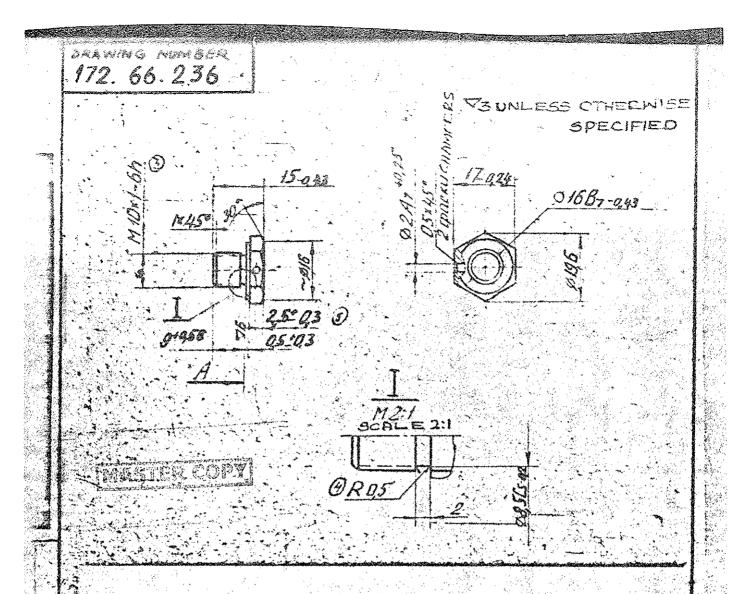
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ĪDĀ	TE 30-	6-86				17/2	. 00	ID LD-



- 1. BHN 302-255 (DIA OF INDENTATION 3.5 3.8) IS TO BE CHECKED IN BLANK.
- 2. TO BE MARKED, PUNCHING IS NOT ALLOWED.
- 3. COATING CHEMICAL OXIDIZING/PHOSPHATING, OIL FINISHING.

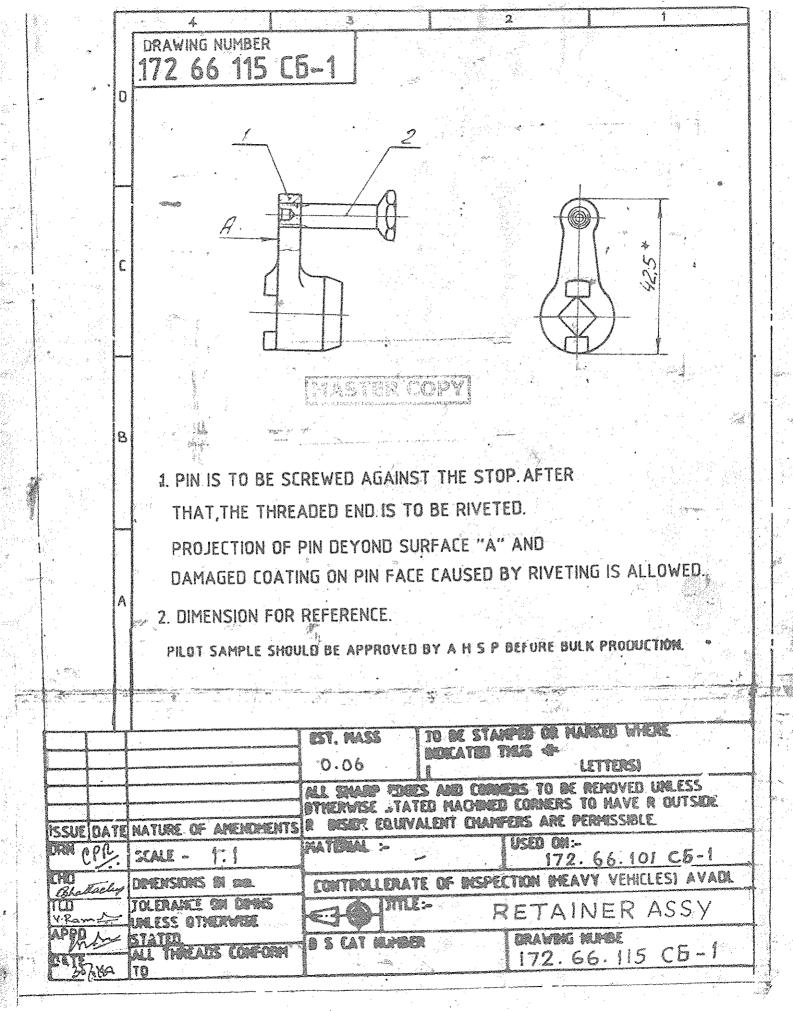
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1 3 m	C		SCALE - 1:1	MAIBIAL > STEEL 38 X C USED 0% - GOST 4543-71 172.66.115 CS-1
	CELAZZ		Omensions of ea.	CONTROLLERATE OF PROPECTION PREAVY VEHICLES! AVAIL
	112 1225		Joleranee on defes Unless Otherwise	SOPILE PIN
			STATED ALL THREADS CORPORN TO	172.66.267
1.47 Luni 1861		on the second second		



- 1. MAY BE MANUFACTURED FROM OPEN-HEARTH STEEL 45 GOST 1050-60 AND STEEL 38xC GCST 4543-61.
- 2. PLAY OF FACE A IN RELATION TO THREAD IS NOT TO EXCEED 0.1mm.
- 3. TO BE PLATED WITH ZINC 6 TO 12 MICRONS. TO BE CHROMATIZED.
- 4, WHEN MANUFACTURING FROM STEEL 38xC, TO BE HORDENED IN BLANK. HARDNESS BHN 302-255 (DIA OF INDENTATION 3.5-3.8).

		0.017 TO BE STANDED ON NAMED WHERE
Exercise frame	NATION ON ANNOUNCES	ML SHARP EDECS AND CONNERS TO BE REMOVED UNLESS. BITHERWISE STATED HACKNED CONNERS TO HAVE R OUTSING B DISER EQUIVALENT CHAPPERS ARE PERHISSIBLE.
PAR CPC	SCALE - 1:1	MAY - OPEN HEARTH USED ON: STEEL 40 GOST 1050-60 172.66.101.C5
Wallach	DEFENSIVES BY ONE	CONTROLLERATE OF INSPECTION DEAVY VEHICLES) AVAIL
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	TOLERANCE ON COOK	ESO PLUG
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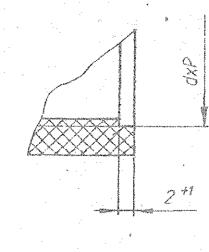


DRAWING NUMBER 520.05.004

SHEET No. 1 OF 1

6 paduycob RADH 6

Г вариант (2:1) ALTERNATIVE



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520.05.004	36	2	29	-0,52	24	Control of the contro	24	DEVATION	17	44	LIMIT	40	4,5	Payaramana manakana	M36x2
-01	27	1,5	26	-0,52	21	Participate of the provide of the pr	22		16	35		31	4,5	0,009	M27x1,5
V-02	20	1,5	21	-0,52	17	illideren at John Jakondolog	17	A CONTRACTOR OF THE CONTRACTOR	12	28	Table of the state	24	2	0,006	M20x1,5
V-03	16	1	22	-0,52	17	(RPV 東京中央・アンカインに関係の対象	18		12	24:	And the state of t	20	1	0,004	M16x1
-04	14	1	15	-0,43	11 .		11	±0,5	7	. 22	+2	18	2	0,003	M14x1
-05	12	1,25	15	-0,43	11	No. of Contract of	11		7. ~	20	-1	16	2	0,002	M12x1,2
-06	22	1,5	20	-0,52	16	The second secon	16		11	30	Sa A Commence of the Commence	26	m 2	0,007	M22x1,5
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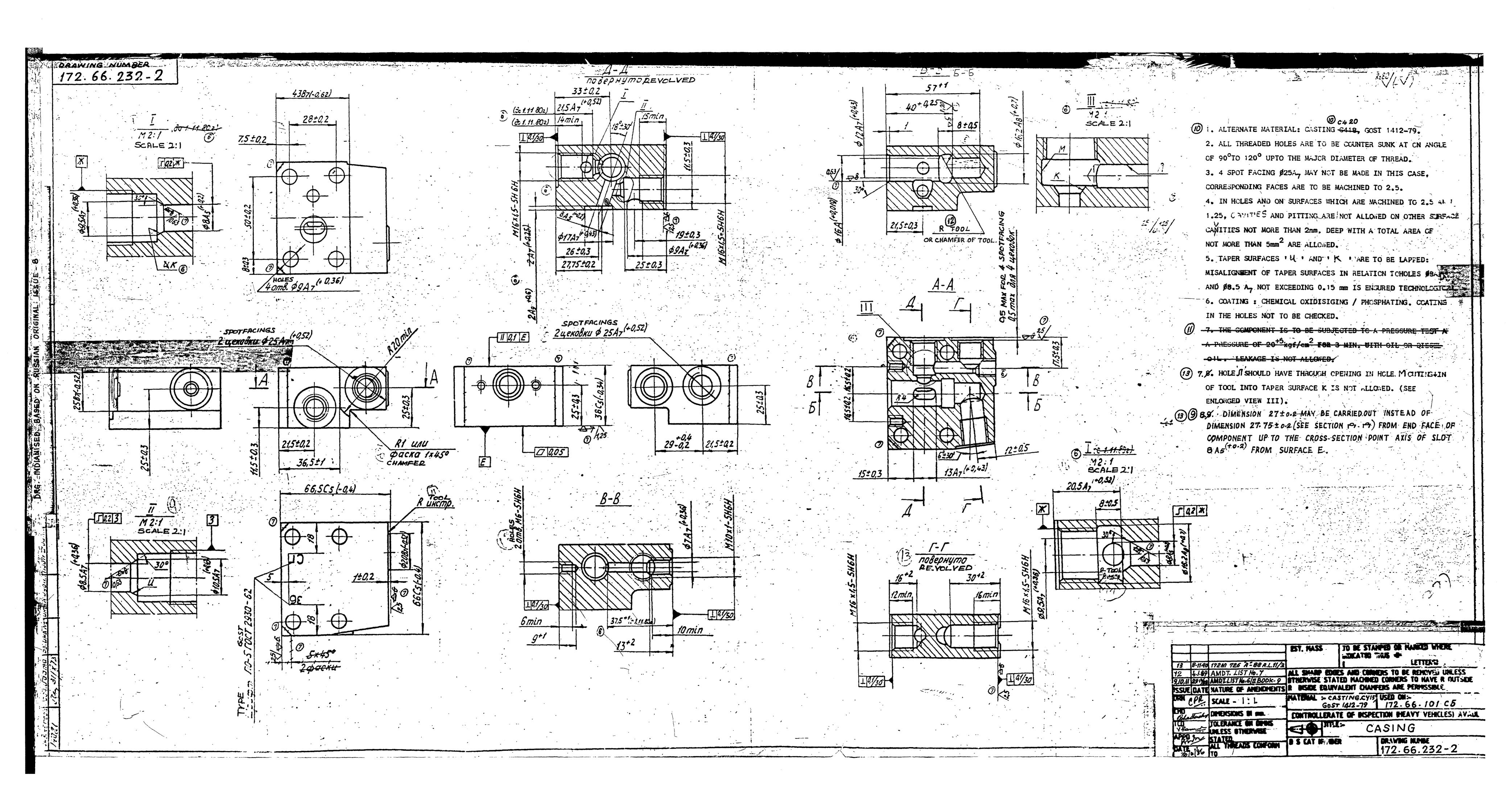
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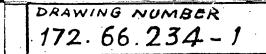
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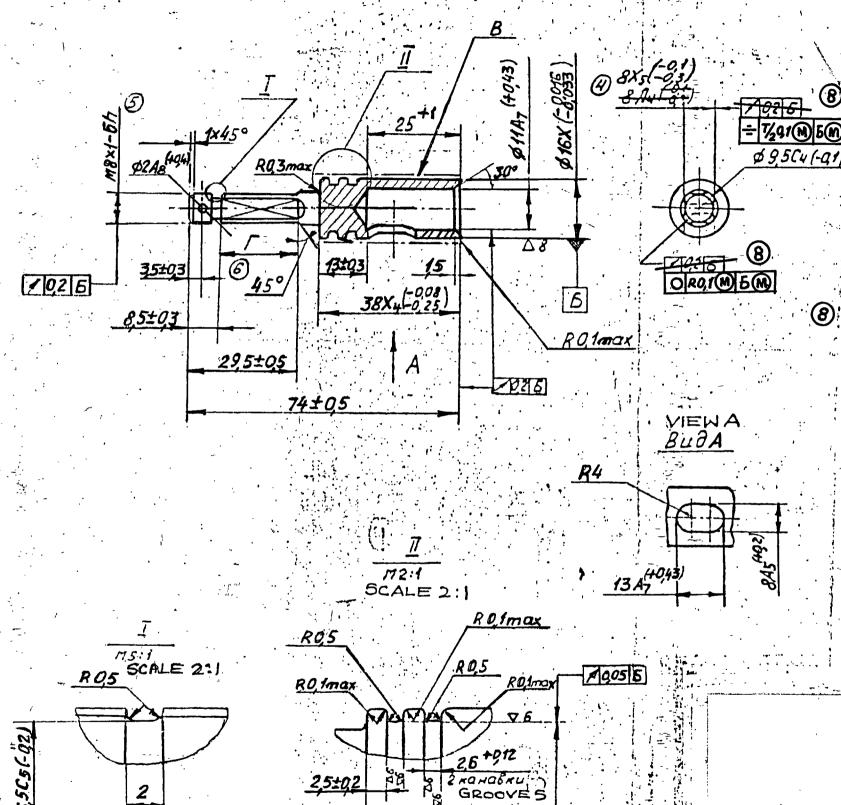
- 1. Alternate material polyethylene 209 or 210 GOST 16338-85.
- Thread should be checked by free screwing-in of threaded component made with accuracy class 8g GOST 16093-81.
- Dimensions are to be ensured by tool.
- 4. It is allowed to make 8 projections with radius R instead of six.
- 5. Spherical recess (shrinkage cavity) with depth 0<sup>+2,5</sup>mm is allowed on surface 5.
- 6. On surface B, projection is allowed in this case wall thickness should be not less than 2 mm.
- 7. To be marked (see table), type ΠΟ-3 GOST 2930-62.
- 8. Other requirements should be as per specifications 520.TY1.

MATERIAL:-POLYETHYLENE 181 1<sup>ST</sup> QUALITY GOST-16337-77 APPD Chanchel DATE 17-02-04 CONTROLLERATE OF QUALITY ASSURANCE (HEAVY VEHICLES) PILOT SAMPLE SHOULD BE APPROVED BY A R S P SCALE:- --AVADI BEFORE BULK PRODUCTION. DIMENSIONS IN mm TITLE:-EST. WT. (Kg) TO BE STAMPED OR MARKED WHERE TOLERANCE ON DIMNS \* PLUG UNLESS OTHERWISE STATED IS: 2102 - 69 ALL THREADS TO DRAWING NUMBER CONFORM TO 520.05.004

SUPPLY CODE U-01-1-1 D90033







- MAXIMUM CASE DEPTH AFTER GRINDING IS TOBE H 0.8

  TO 12 mm. HARDNESS OF CASEHARDENED SURFACES SHOULD

  BE HRC 56. HARDNESS AND DEPTH OF CASEHARDENIED LAYER

  IS TO BE CHECKED ACCORDING ON THE TEST PIECE. CARBURIZING ALLAOUND (EXCEPT HOLE \$11 A, THREADED SHANK AND CLEARANCE)

  IS ALLOWED.
- 2. CHAM ER 0.1x45° MAY BE MADE INSTEAD OF BLUNTING SHARP EDGES TO R 0.1 MAX.
- 3. SHIFT OF HOLE 13 A788A5 IN RELATION TOTHE AXIS OF SQUARE IS NOT TOEXCEED 0.3 mm. MMC TOLERANCE.
- 4. ON FINISHED COMPONENT, THREAD M8x1K 8H IS ALLOWED.
- 5. DIMENSIONS 8x5, 38x4 AND \$9.5 C4 ARE TO BE CHECKED AFTER
- 6. COATING OF THE EDGES OF THE SQUARE AND \$9.5 C<sub>4</sub>

  CR HARD 15 ALONG LENGTH . TRACES OF CHROMIUM

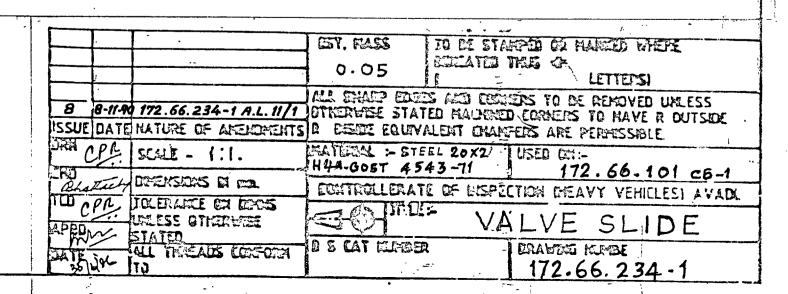
  ON THE REST OF THE LENGTH OF \$9.5C4 AND ON THE ADJACENT

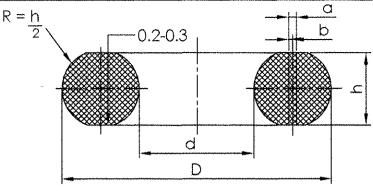
  FACE ARE ALLOWED OTHER SURFACES (EXCEPT \$16X) ARE TOBE

  OXIDISED /PHOSPHATED.

# EXPLANATORY NOTE

CH	IEM	STRY	PHYSICAL PROPERTIES	S AND	HARDNESS
τ .	:	0.16 - 0.22	TENSIL STRENGTH	:	130 Kgf/mm <sup>2</sup> (min)
Si	:	0.17 - 0.37	YIELD POINT	:	110 Kgf/mm <sup>2</sup> (min)
Mn	:	0.30 - 0.60	ELONGATION-	:	9 % (min)
Cr	:	1.25 - 1.65	REDUCTION IN AREA	: .	45 % (min)
S&P (each)	:	0.030 (max)	IMPACT STRENGTH	<b>:</b> .	8 Kgm/cm <sup>2</sup> (min)
Ni	;	3.25 - 3.65		-	No.





][	10×16	10.2	16	2.5	1	172-66-101CD-1	
	/ 30 x 36 f	30.3	36 ·	3 ′	1	188-45-001CD-3	0.25 ′
	, 20 x 26	20.2	26 /	2.5	5 1	188-45-001CD-3 188-66-015CD-1	0.15 ′
	/16 x 20 /	16.2	20	2.5 ′	4 2	188-45-001CD-3 188-66-015CD-1	0.08
	12 x 18	12.2 ′	18 /	2 ′	2	188-45-001CD-3	0.10
		Α7	В7	В9			PCS IN Kg.
***************************************		PERMISSIB	LE DEVIATI	ON AS PER	QTY.	USED ON.	OF 100
	DESIGNATION	d	D	h			WEIGHT

- 1. RINGS ARE MADE OF COPPER SHEATHE AND ASBESTOS CORE (PACKING). MEANT FOR PACKING THREADED JOINTS AND USED AT TEMPERATURES UP TO 600° C.
- 2. SHEATHE OF RINGS SHOULD BE MADE OF SOFT COPPER BAND, THE RING CORE SHOULD BE PACKED WITH BRAIDED ASBESTOS CORD, MADE OF CRYSOTILE ASBESTOS. ASBESTOS BOARD WASHERS CAN ALSO BE USED AS CORE MATERIAL. PACKING OF RINGS SHOULD BE COMPACT.
- 3. SHEATHE SHOULD BE EXPANDED INTO BUTT JOINT, CLEARENCE "a" SHOULD NOT EXCEED 0.5 mm
- 4. DISPLACEMENT "b" OF SEATHE EDGE FROM MEAN DIAMETER OF RING SHOULD NOT EXCEED 0.35mm
- 5. ELEVATION OF A SHEATHE EDGE WITH RESPECT TO THE OTHER ONE SHOULD NOT EXCEED 0.3mm
- 6. THE ASBESTOS FIBRE SHOULD NOT PROJECT BEYOND THE SHEATHE JOINT, ONLY SLIGHT FLUFFINESS IS ALLOWED.
- 7. PILOT SAMPLE SHOULD BE APPROVED BEFORE BULK SUPPLY.

### MARKING

A TAG WITH THE FOLLOWING INFORMATION MAY BE ATTACHED WITH EACH SIZE AND BATCH

- a) SIZE DESIGNATION WITH SPECIFICATION (Ex. 10 x 16 MH 4152 62)
- b) MANUFACTURER"S NAME/TRADE MARK.
- c) BATCH NO. MONTH AND YEAR OF MANUFACTURE.
- d) QUANTITY.

This dry has been prepared based on AHSP GOST Speen.

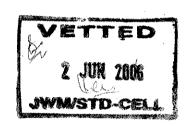
इन आरेखणो तथा इसके साथ की सम्पूर्ण सामग्री का स्वत्वाधिकार भारत सरकार रक्षा मंत्रालय की भारतीय आयध निर्माणियों के पास है। भारतीय आयध निर्माणियों के महानिदेशक की लिखित अनुमति के बिना इनकी नकल या किसी भी रूप में इनके उद्धरण या इनमें समाहित सचना किसी अनिधिकृत व्यक्ति को उपलब्ध नहीं कराई जानी चाहिए।

ORDNANCE FACTORIES, MINISTRY OF DEFENCE, GOVT, OF INDIA THEY SHOULD NOT BE COPIED RE-PRODUCED IN ANY WAY OR THE INFORMATION CONTAINED THEREIN MADE AVAILABLE TO UNAUTHO-

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विचलन DEVIATION		<del>} (</del>
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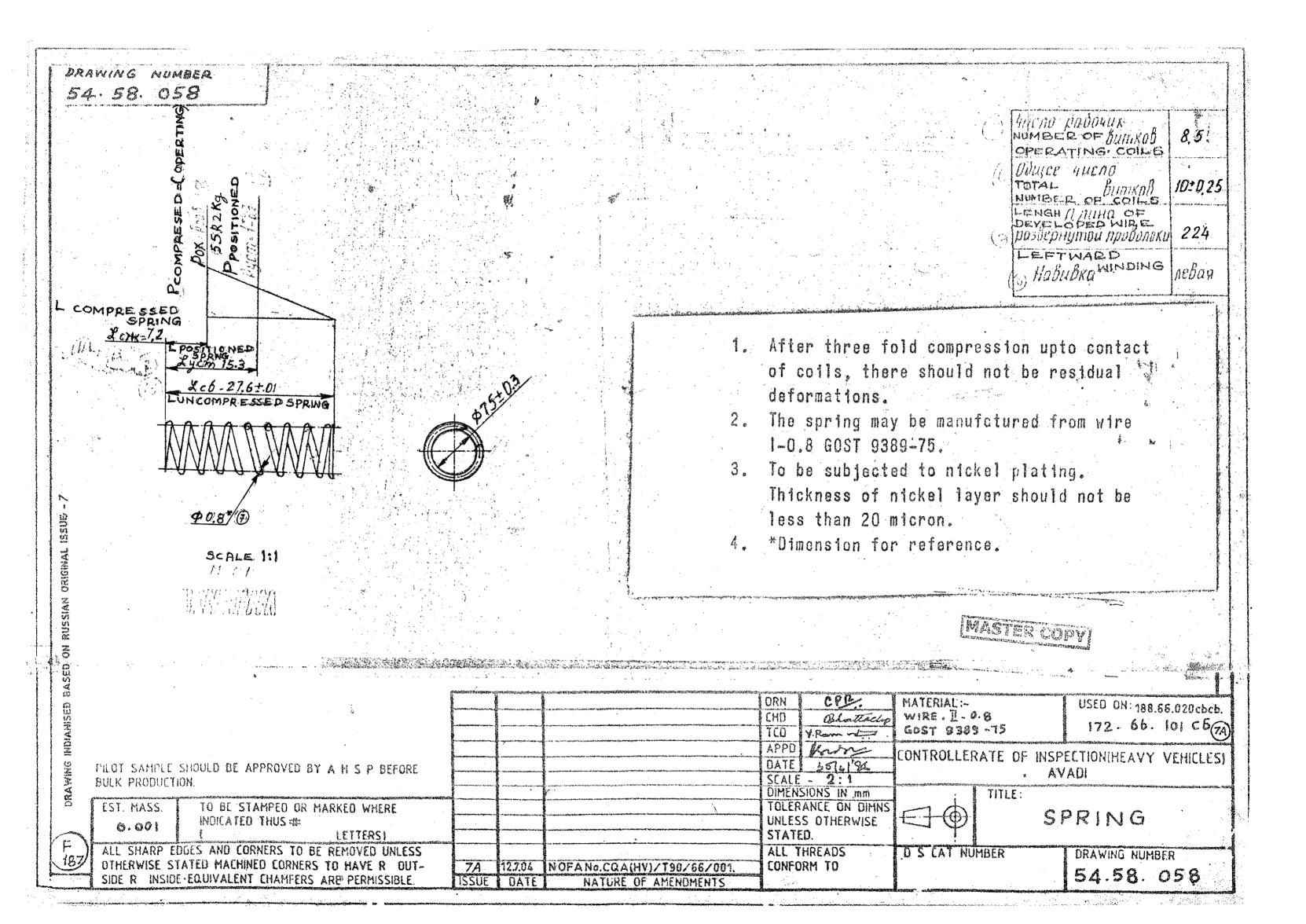
CHEMICAL	COMPOSITION (%)	MECHANICAL PROPERTIES				
ELEMENT	SOFT COPPER BAND	DESCRIPTION	SOFT COPPER BAND			
ELEMEN	Gr. M3 GOST 859-78	DESCRIPTION	Gr. M3 GOST 859-78			
Cu + Ag Bismuth	99.5 Min. / 0.003 Max. /	SPECIFIC ELETRICAL RESISTANCE	0.01706 ohm. mm²/ m			
Antimony	71	(MAXIMUM)				
Arsenic Iron	0.01 MAX. 0.05 MAX.	ELETRICAL CONDUCTIVITY	58.6 m / ohm. mm <sup>2</sup>			
Nickel	0.20 MAX.	(MINIMUM)	m / onm. mm			
Lead	0.05 Max.					
Tin	0.05 Max.					
SULPHUR	0.01 MAX.					
Oxygen	0.08 MAX.					

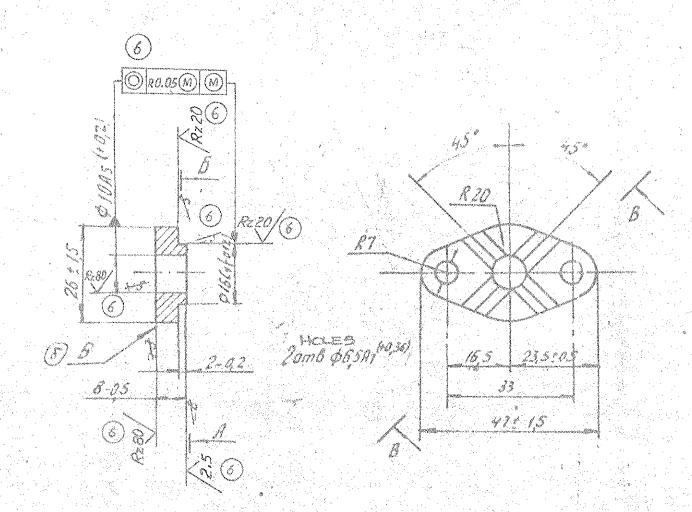
THIS SKETCH ALONG WITH ALL DETAILS IS AN ABSTRACT BASED ON MHUISZ-62



\* MATERIAL:- SOFT COPPER BAND GRADE M3 TO GOST 859 - 78 ALTERNATE MATERIAL .:- COPPER ASBESTOS SEALING RING OF COMMERCIAL QUALITY AUTHORITY: - CQA(HV), AVADI LETTER NO. 98704 / 04 / ID / CO-ORD / ALT COM DATED: 03/05/2005

							<del>and the state of </del>	·				
	COPPER A	SBESTOS	SEALING RING		*	***************************************						
संख्या NO.OFF	विवरण DESCRIPTION			पुर्जा क. PART NO.	पदार्थ <sub>MATERIAL</sub>	i i	मानक STANDARD		माप IENSIONS	अभ्यक्ति REMARKS	v	
GENERA रेखि	न्य सहिष्णुता ALTOLERANCE क परिमाप R DIMENSION				@	RING	2 10×16	Added	. on 16/0	3107	an.	
0-6 6-30 30-12 120-31 315-10 1000-20	20 ±0.3 15 ±0.5 200 ±0.8											
कोणि	a परिमाप R DIMENSION	संख्या NO.OFF	संबंधित पुर्जीका अ DRG. NO. OF ASSOCIA	<b>गरेखण क्र.</b> NTED PART	सूचक INDEX	संशोधन कारहरूका	ION			2006	<mark>दिनांक</mark> DATE	नाम NAME
VALU	±30' 0 ±20'	TRA	E. DER ASBE NSMISSIC DE-45 / T	JNII			मापमान SCALE NTS बारा बदला	आरेखित DRAWN जाँचा CHECKED अनुमोदित APPROVED REPLACED BY	27/05 27/05 27/05	K.S.S.R		
**************************************	0,025-16 <0.025		ोनी औजार अ NE TOOL PROT	······································			RNATH	कार्यालय <u>०</u> ೯೯ICE <b>DO</b>	MPF/	REPLACED FOR DRAW	ING NO	
***************************************							L	F 704	43180	25		





IN TO BE HEAT-EREMTED IN BLANK, HARDNESS AND 15-28.

with the first of the first of

- 3. SHIFT OF AXES OF HOLES FROM THE THUE FURITION IS NOT TO EXCEED O. 2mm.
- 4. DRAFTS AND SHRINKAGE OF EDGES ARE ALLONSO.
- 6. FACE 101 TO BE PLATED WITH 28.21 HARD, THIS NESS OF COATING IN GROOVES AT AN ANGLE OF 90° IS NOT TO BE CHECKED. OTHER SURFACES ARE TO BE OXIDISED/PHOSPHATER COMPONENT MAY BE PLATED WITH CHROMITM OVER.

REVOLVED Masephymo

ONN Blood Il State Said V. Rown when DATE BOLL-1/1 SCALE -OMENSIONS IN mm TOLERANCE ON DIMNS UNLESS OTHERWISE STATED. ALL THREADS

MATERIAL:-STEEL JOXICA-3 GOST 11269-76

USED ON: 172.66.101 66.1

CONTROLLERATE OF INSPECTION/HEAVY VEHICLES AVADI 🛷

TITLE:

COVER

O S CAT NUMBER

ORAWING NUMBER 172.66.230-1

LETTERSI ALL SHARP EDGES AND CORNERS TO BE REMOVED UNLESS OTHERWISE STATED MACHINED CORNERS TO MAVE R OUT-SIDE R INSIDE EQUIVALENT CHAMPERS ARE PERMISSIBLE.

PILOT SAMPLE SHOULD BE APPROVED BY A H S P BEFORE

INDICATED THUS #

TO BE STAMPED OR MARKED WHERE

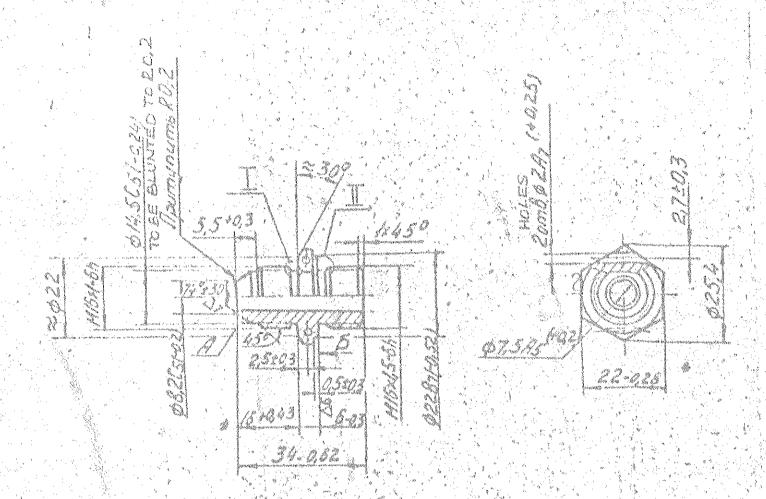
31067.1724.3333.4-38. 3.6.13/2 25-92 NATURE OF AMENDMENTS

CONFORM TO

BULK PRODUCTION.

EST. MASS.

0.027

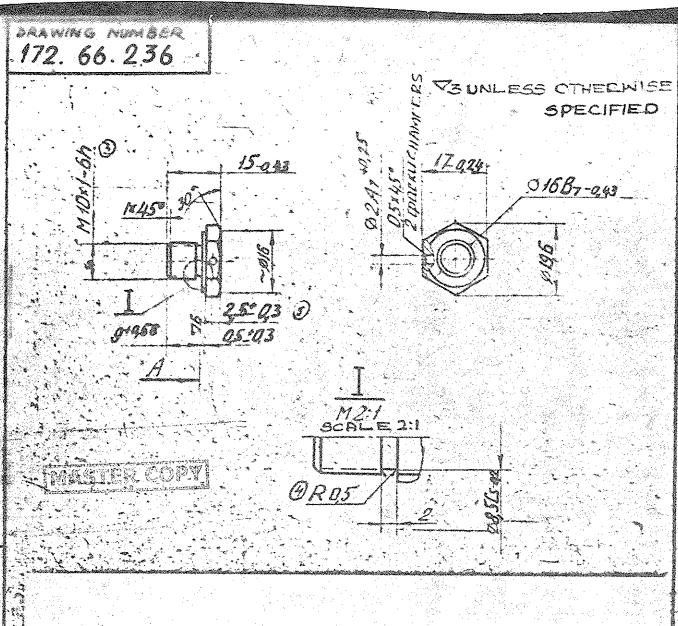


- 1. IN RELATION TO THREAD MIGKI.5, THE FOLLOWING IS ALLOWED
- a) PLAY OF FACE . E . NOT MORE THAN O. IMM:
- D) RUN OUT OF \$7.5 AND THREAD M TOXT NOT MORE THAN Q. 2001
- c) SHIFT OF HEXAHEDRON NOT MORE THAN O. 5mm;
- 2. RUN-OUT OF SURFACE 'A" IN RELATION TOTHREAD MISXI IS
- O. Imm, MAXIMUM,
- 3. TO BE HARDENED IN BLANK. HARDNESS DEN 302-255 (DITA OF INDENTATION 3.5-3.8).
- M. TO BE PLATED WITH ZINC, 6 TO 12 MICRONS. COATING IN THE HOLES IS NOT TO BE CHE KED. TO BE CROMATIZED.

SCALE 21

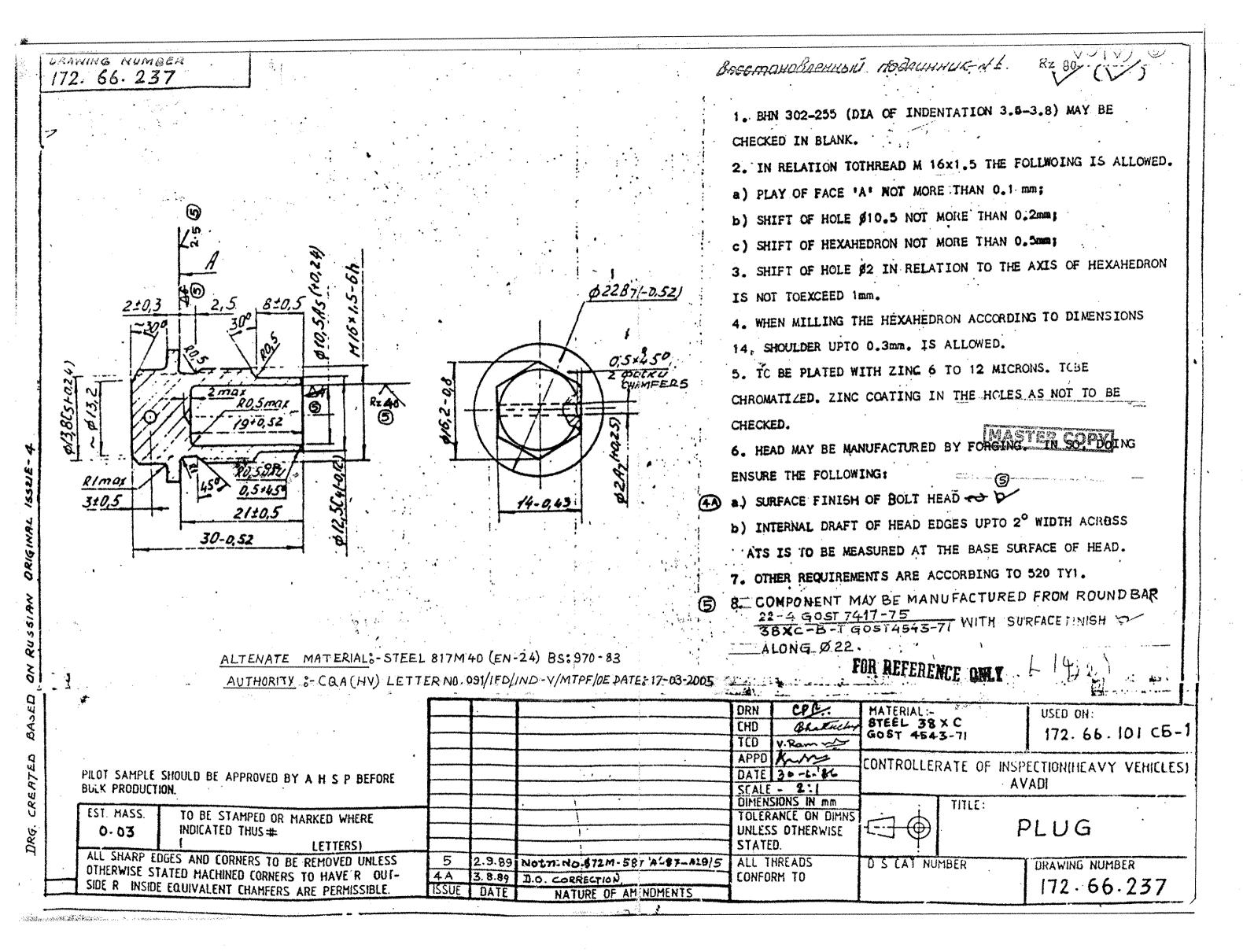
857, MASS 0.031 ISSUE DATE HATUKE OF ANEXONEN MALE - 1:4 172.66.101 (6-1 CWINDLERATE OF MSPECTION DEAVY VEHICLES! AVAIN

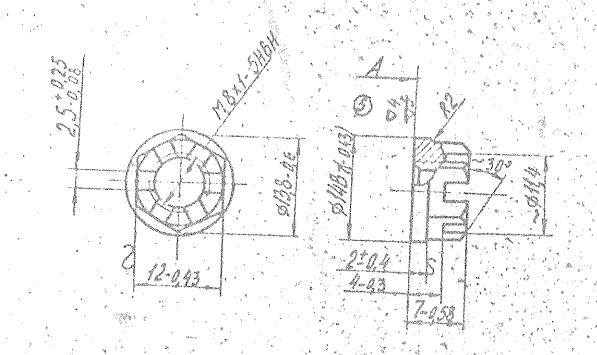
SCREW STOPPER STATES SUPPLE 172.66.235



- 1. MAY BE MANUFACTURED FROM OPEN-HEARTH STEEL 45 GOST
- 1050-60 AND STEEL 38xC GCST 4543-61.
- 2. PLAY OF FACE A IN RELATION TO THREAD IS NOT TO EXCEED 0.1 mm.
- 3. TO BE PLATED WITH ZINC 6 TO 12 MICRONS. TO BE CHROMATIZED.
- 4, WHEN MANUFACTURING FROM STEEL 38xC, TO BE HORDENED IN BLANK. HARDNESS BHN 302-255 (DIA OF INDENTATION 3.5-3.8).

A Commence of the Commence of							
		CST. TASS TO CE STATED OF WEEK WHERE					
		0.017 ESEATED THIS & LETTERS!					
		ALL SHARP CORES AND CORNERS TO BE REMOVED UNLESS OTHERWISE STATED HACKNED CORNERS TO HAVE R OUTSITE					
ISSUE DATE	NATURE OF AFENDMENTS	R DEEDE EQUIVALENT CHAPTERS ARE PERPESSALE					
PAM COL	SCALE - 1:1	MAYEMAL - OPEN HEARTH USED ON: STEEL 4-0 GOST 1050-60 172.66.101.C5					
Phallos	DYNSKKS III en.	CONTROLLERATE OF INSPECTION MEANY VEHICLES) AVAIL					
【图_4	JOLERANCE ON DOORS UNLESS OTHERWISE	ESOHIILES PLUG					
MAN YA	STATED	-BS CAT GLASER DRAVEG NASK					
MILIA	ALTERAS CONFORM	172.66.236					





- 1. IN RELATION TOTHE AXIS OF THREAD THE FOLLOWING IS ALLOWED.
- a) PLAY OF FACE 'A' NOT MORE THAN 0,25mm;
- b) RUN-OUT OF \$14 NOT MORE THAN 0.2mm;
- c) SHIFT OF FACETS NOT MORE THAN 0.3mm;
- d) SHIFT OF SLOT NOT MORE THAN 0.3 mm.
- 2. THREAD IS TO BE COUNTE SUNK UP TO THE MAJOR DIAMETER
- ON SIDE OF FACE 'A' AT AN ANGLE OF 120°.
- 3. INTERNAL DRAFT OF FACES (MAY NOT EMCEED 20.
- 4. TO BE PLATED WITH ZINC 6 TO 12 MICRONS TO BE CHROMATIZED. COATING IN THE HOLE IS NOT TO BE CHECKED.
- 5. HEXAHEDRON MAY BE MACHINED. IN THIS CASE R TOOL IS TO BE PROVIDED INSTED OF R2.
- 6. ALTERNATE MATERIAL : STEEL 20 GOST 1050-74.

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

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TO BE STAMPED OR MARKED WHERE MOICATED THUS #

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MATERIAL OPEN HEARTH ahallacher 34606 13 6057 1050-60

TITLE:

USED ON: 172.66.101 CB-1

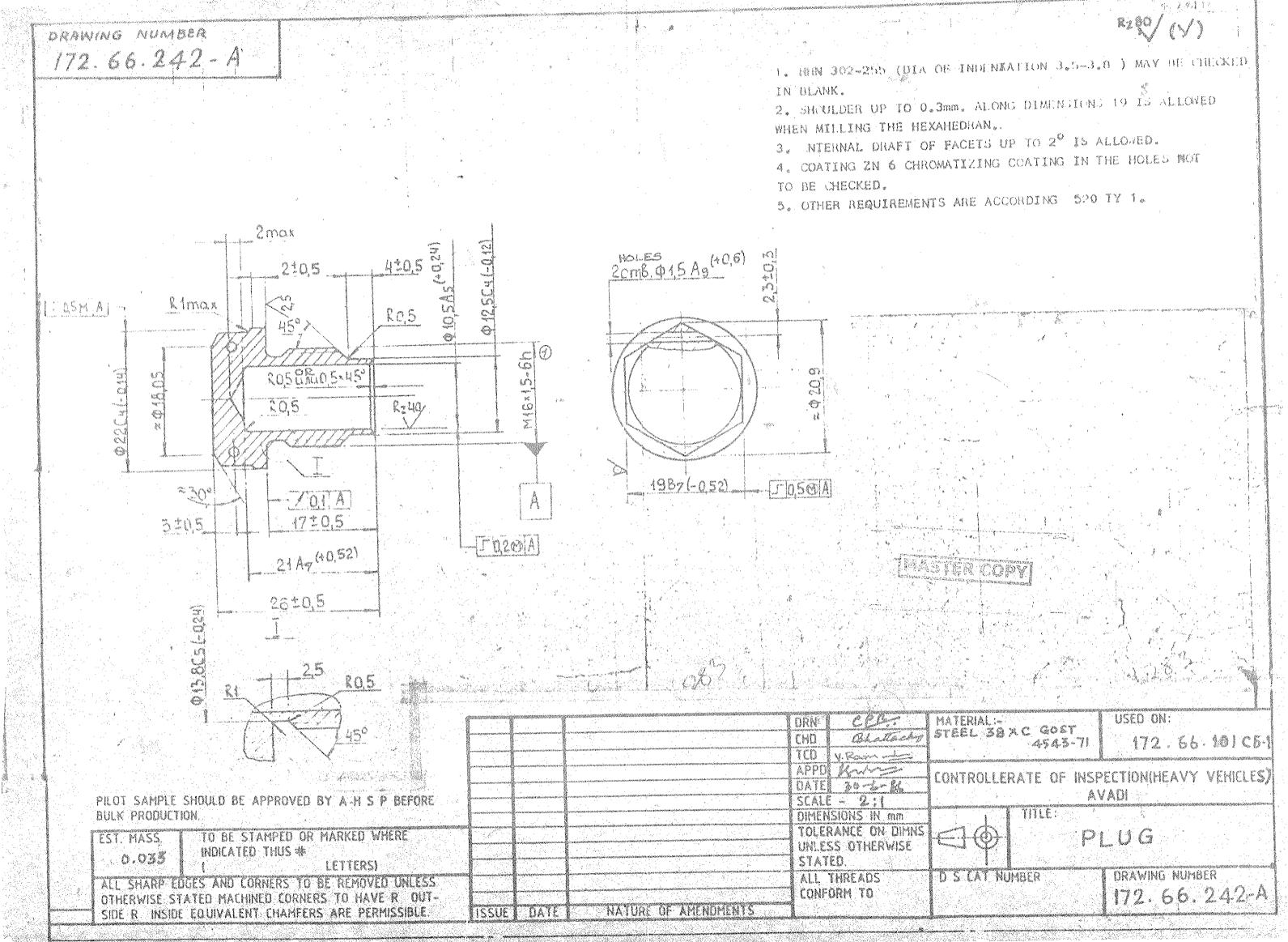
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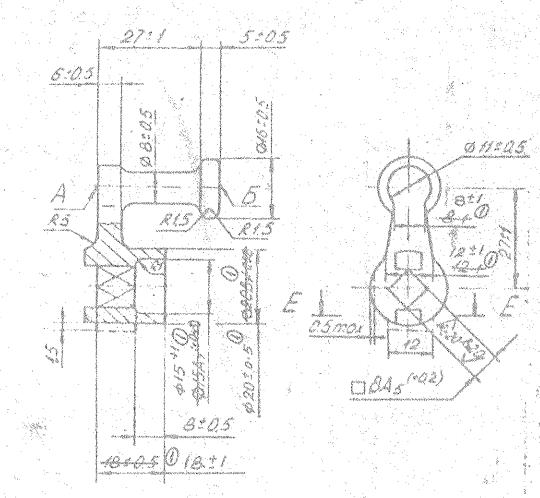
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172.66.238



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d.

ISSUE

former and former forme

1. BHN 285-229 (DIA OF INDENTATI N 3.6 - 4.0).
TO BE CHECKED IN BLANK.

- @ 2. ALTERNATE MATERIAL STEEL AS THE GOOD ATTENDED TO 172. TY 10.

  3. REQUIREMENTS FOR CASTING ARE ACCORDING TO 172. TY 10.

  4. LOCAL SHRINKAGE OF METAL UP TO 1888. ON SURFACES A AND E

  IS ALLOWED.
  - 5. TRACES FROM DRILLING NOT MORE THAN 0.1mm.

    DEEP ON THE SIDES OF THE SQUARE ARE ALLOWED, PADIUS UPTO

    0.3mm IS ALLOWED IN THE CORNERS OF THE SQUARE.

    6. TURNING OF SQUARE NOT TOEXCEED 1.5°.
  - 7. SHIFT OF AXIS OF SQUARE IN RELATION TO THE COMMON AXIS
    OF SHOULDERS AT AN ANGLE OF 90° IS NOT TO EXCLED UPSMOLE
  - 8. MAY BE MANUFACTURES ALONG THE CONTOUR SHOWN WITH THE DASH DOT LINE.
  - 9. COATING: CHEMICAL OXIDIZING /PHOSPHATING, OLIFINISHING.
  - TO. TO BE LURKED ON THE TAG.
  - 11. OTHER REQUIREMENTS ARE ACCORDING TO 520 TO
  - 2) 2. ALTERNATE MATERIAL: STEEL 45 / I, OR 40×11GOST 977-75

MASTER COSY

(2) (1) (4)

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

EST. MASS

TO BE STAMPED OR MARKED WHERE INDICATED THUS ...

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

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	[29.3-90]	172M.187 X'-88, Amat. 10/2	A for great 15 th for the 12 th great of the 12 th
0323	26.12.99	ANIDT LIST No.6/II BOOK 9	CONFORM TO
	DATE	NATIBEE OF AMERICAN S	

MATERIAL: STEEL 4001 OOST STEEL

USED ON. - 172. 66. 101 CB-1

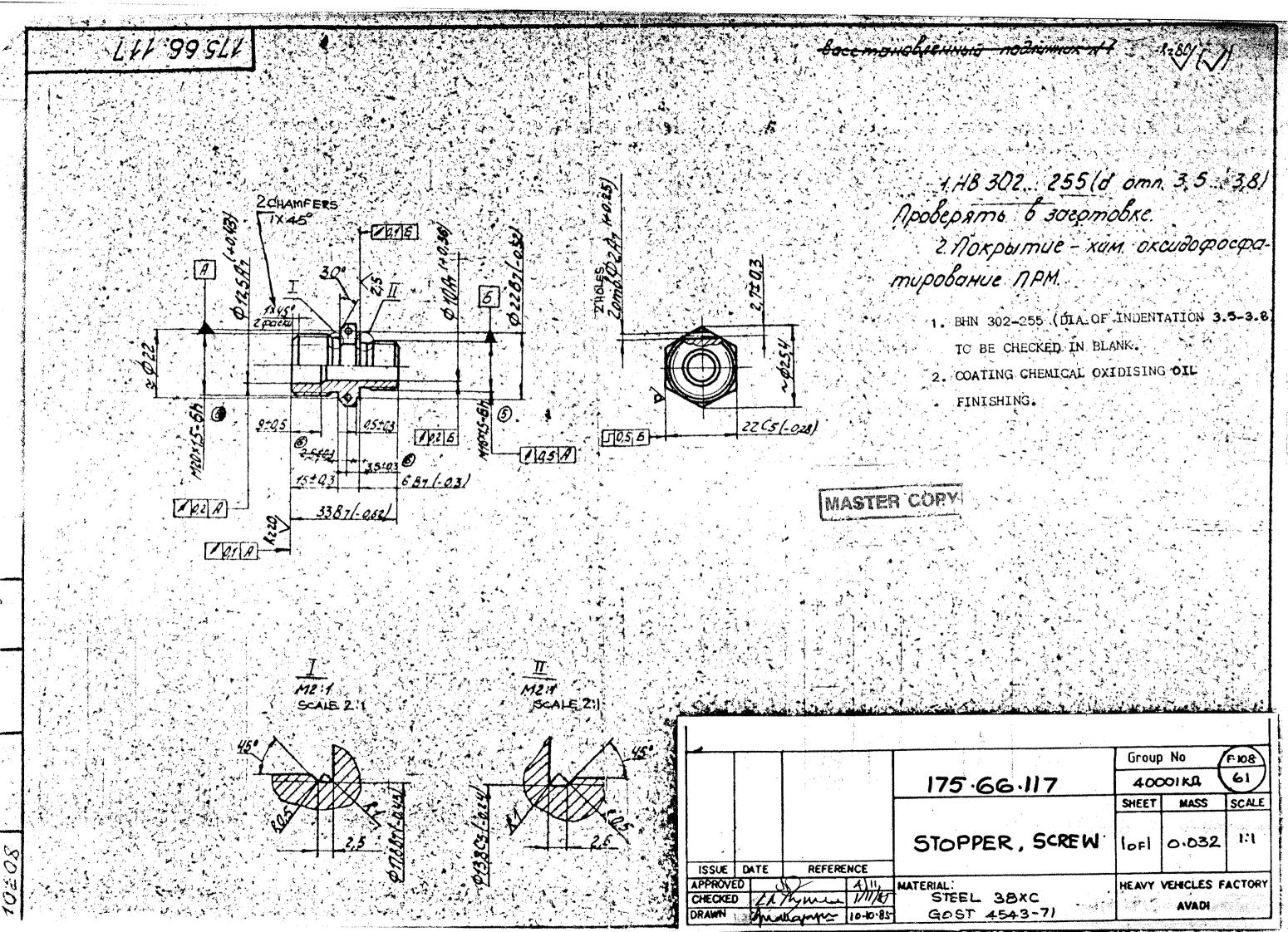
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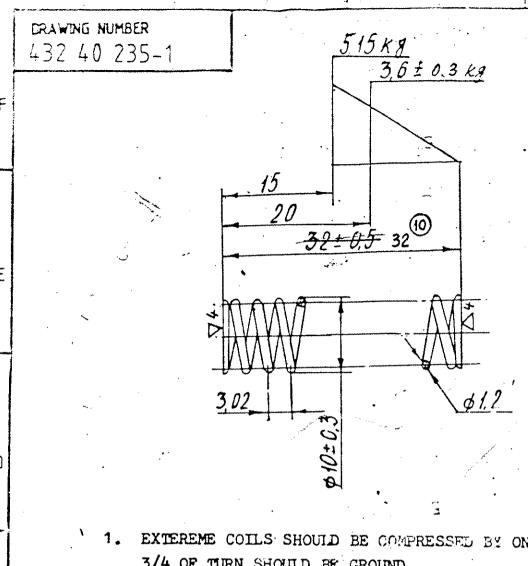
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DRAWING NUMBER

172.66.330





- 1. EXTEREME COILS SHOULD BE COMPRESSED BY ONE COIL AND AT LEAST 3/4 OF TURN SHOULD BE GROUND.
- 2. NON-SQUERENESS OF SPRING AXES RELATIVE TO FACES SHOULD NOT EXCEED 1mm, WITHIN SPRING LENGTH.
- 3. AFTER SPRING IS COMPRESSED TO SIZE 14 mm TEN TIMES RESIDUAL DEFORMATION IS NOT ALLOWED.
- 1) 4. 10 BE HEAT TREATED. HARDNESS HRC (ROCKWELL) 40 TO 482 41.5 ... 49.5 HRC >. IT IS ALLOWED TO CHECK HARDNESS WITH THE HELP OF A TEST PIECE.
- 5. COATING CHEM., OXID., OIL AS PER TY16.

  9.00 6. MAY BE MADE FROM WIREL 50X A-W-5-1.2 TY 14-4-897-78. TY 14-4-1130-81

**LETTERS** 

21-2-90 172 M 31-A-88 (AL10/1)

17. 4-Pandt List 6/11, 800K-7

7. OTHER REQUIREMENTS ARE AS PER 60.018 TY.

PILOT SAMPLE SHOULD BE APPROVED BY A H S P BEFORE

INDICATED THUS # (

ALL SHARP EDGES AND CORNERS TO BE REMOVED INLESS

INSIDE EQUIVALENT CHAMPERS ARE PERMISSIBLE

OTHERWISE STATED MACHINED CORNERS TO HAVE R OF SIDE

TO BE STAMPED OR MARKED WHERE

**BULK PRODUCTION** 

EST. WT.

0.0025 Kg

NUMBER OF WORKING COILS TOTAL NUMBER OF COILS 12-1.

DIRECTION OF SPRING COILING EITHER

CEVELOPED LENGTH OF SPRING | APPX = 330

## EXPLANATORY NOTE :-

REFERENCE MATERIAL QUOTED :- WIRE POLISHED 51X Φ A-6-Π-XH-1, 2 GOST 14963-78.

ALLOY STEEL SPRING WIRE GRADE 51X \$\phi A QUALITY OF SURFACE FINISH GROUP '6' GROUND ON POLISHED 0,63 \(\frac{1}{2}\)COLD COILING "XH" HIGH ACCURACY "\(\Pi'\)" ON DIAMETER 1,2 \(\frac{1}{2}\)0,02 AS PER GOST 14963-78 AND MANUFACTURED IN ACCORDANCE WITH GOST 14959-79.

9.m) CHEMICAL COMPOSITION AS PER SPRING STEEL WIRE GRADE 51X + A GOST 14959-79.

		EDN	TENT	OF ELE	MENTS	%			
	~-		<b>C</b> -	.,	S	Р	Cu	Ni	
L.	21	Mn	. LF	\ \ \ \ \	MUNIXAM				
0,47 0,55	0,15 0,30	0,30 0,60	0,75 1,10	0,15 0,25	0,035	0,035	0,20	0,25	

b) MECHANICAL PROPERTIES AS PER GRADE 51X PA GOST 14959-79.

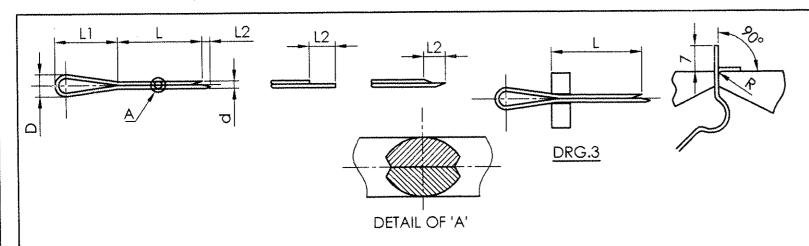
HEAT TE	EATHENT		MECH.	ANICAL PI	ROPERTIES	<del>-</del> .
HARDENING TEMPERATURE O°C		TEMPERING' TEMPERATURE	ULTIMATE TENSKE STRENG'IH Kgf/mm*	YIELD POINT Kgf/mmz	ELONGATION %	REDUCTION IN AREA
	•			MINI	иии	
856	OIL	470	130	110	3	35

MASTER COPY

MATERIAL :- WIRE POLISHED USED ON 172 40 022 Cb 51X \$\phi A - 6 - \Pi - 1,2 \\
GOST 14963 - 78. 172 66 001 Cb 172 40 9310 TI APPD CONTROLLERATE OF QUALITY ASSURANCE(HEAVY VEHICLES) DATE | 06 - 07 - 89 SCALE:- 2:1 **AVADI** DIMENSIONS IN mm TITLE TOLERANCE ON DIMNS **SPRING** UNI ESS OTHERWISE STATED IS:2102-69 ALL THREADS TO D S CAT NUMBER DRAWING NUMBER CONFORM TO 432 40 235-1 NATURE OF AMERICANTS

63

SIZE A3



DESIGNATION	d	L2	L1	D	L	USED ON.	QTY.
2.5 x 25.016	2.1 - 2.3	1.3 - 2.5	5	4.0 - 4.6	25	172-46-002CD-1 188-45-001CD-3	1
5 x 50.016	4.4 - 4.6	2.0 - 4.0	10	8.0 - 9.2	50	172-66-101CD-1	1
2 x 20.016	1.7 - 1.8	1.3 - 2.5	4	3.2 - 3.6	20	(CODE-45 / T-72 & T-90)	1
							<u> </u>

- 1. SPLIT PINS OF CONVENTIONAL DIAMETER UP TO 5mm. MUST WITHSTAND NOT LESS THAN 3 BENDINGS WITHOUT ANY SIGN OF RUPTURE OR CRACK, SPLIT PINS OF CONVENTIONAL DIAMETER OVER 5mm MUST WITHSTAND TWO BENDINGS.
- 2.THE BEND TEST IS CARRIED OUT BY SEPARATING THE LEGS AND CLAMPING ONE OF THEM BETWEEN THE JAWS OF A VICE (DRG.3) SUCH THAT BENDING TAKES PLACE IN THE STRAIGHT PORTION OF THE LEG.
- 3. THE EDGES OF THE JAWS MUST HAVE A ROUNDING OFF RADIUS R AS SHOWN IN TABLE GIVEN BELOW.
- 4. THE EDGES OF THE SPLIT PIN IS BENT AT 90°, BROUGHT BACK TO ITS INITIAL POSITION AND BENT AGAIN IN THE SAME DIRECTION.

CONVENTIONAL DIAMETER d	ROUNDING OFF RADIUS R FOR EDGES OF JAWS OF VICE
UP TO 2	0.5
OVER 2 UP TO 5	0.8
OVER 5	1.2

EACH DISPLACEMENT OF THE END BY 90° IS TREATED AS ONE BEND. TESTING IS DONE AT THE RATE OF NOT MORE THAN ONE BEND PER SECOND.

5. PILOT SAMPLE TO BE APPROVED BEFORE BULK SUPPLY.

इन आरेखणो तथा इसके साथ की सम्पूर्ण सामग्री का स्वत्वाधिकार भारत सरकार रक्षा मंत्रालय की
भारतीय आयुध निर्माणियों के पास है। भारतीय आयुध निर्माणियों के महानिदेशक की लिखित
भारतीय आयुध निर्माणियों के पास है। भारतीय आयुध निर्माणियों के महानिदेशक की लिखित अनुमति के बिना इनकी नकल या किसी भी रूप में इनके उद्धरण या इनमें समाहित सूचना किसी
अनेधिकृत व्यक्ति को उपलब्ध नहीं कराई जानी चाहिए ।

THE COPYRIGHT OF THESE DRAWINGS AND ALL ATTACHMENTS THERE TO BELONGS TO THE INDIAN ORDNANCE FACTORIES, MINISTRY OF DEFENCE, GOVT. OF INDIA THEY SHOULD NOT BE COPIED, RE-PRODUCED IN ANY WAY OR THE INFORMATION CONTAINED THEREIN MADE AVAILABLE TO UNAUTHO-RISED PERSONS WITHOUT THE WRITTEN PERMISSION OF THE DIRECTOR OF ORDNANCE FACTORIES.

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मूलमाप व अन्वायोजन NOMINAL SIZE & FIT	विचलन DEVIATION		1	(

СНЕМ	ICAL COMPOSITION (%)	MECHANICAL PROPERTIES		
ELEMENT STEEL 20 GOST 1050-74		DESCRIPTION	STEEL 20 GOST 1050-74	
С	0.17 - 0.24	TENSILE STRENGTH	42 Kgf/mm² MIN.	
Si	0.17 - 0.37	yield strength	25 Kgf/mm² MIN.	
Mn Cr	0.35 - 0.65 0.25 MAX.	RELATIVE ELONGATION	25 % MIN.	
S	0.23 MAX. 0.040 MAX.	REDUCTION OF AREA	55 % MIN.	
P	0.035 MAX.	HARDNESS BHN	163 MAX.	

M THIS SKETCH ALONG WITH ALL DETAILS IS AN ABSTRACT BASEDONGOST-397-79



ALT. MATERIAL :- HALF ROUND MILD STEEL WIRE WITH LOW CARBON CONTENT, 0.2 % MAX.

IS: 549-1974

**AUTHORITY** :- CQA(HV) LETTER No. 98704/04/ID-CO-ORD/ALT.COM DATED 03-05-2005

MACHINE TOOL PROTOTYPE FACTORY, AMBERNATH

GOST 1050-74 STEEL 20 SPLIT PIN (COTTER PIN) पुर्जा क्र. PART NO. पदार्थ विवरण MATERIAL STANDARD DESCRIPTION सामान्य सहिष्णुता DRZ UPTODATED ON. 31.5.01 GENERAL TOLERANCE रेखिक परिमाप LINEAR DIMENSION ±0.3 ±0.5 315-1000 ±0.8 संबंधित पुर्जोका आरेखण क्र. DRG. NO. OF ASSOCIATED PART 2006 आरेखित DRAWN SPLIT PIN (COTTER PIN) TRANSMISSION GEAR UNIT CODE-45 / T-72 & T-90 REPLACED BY द्वारा बदला हेतु बदला REPLACED मशीनी औजार आदिरूप फैक्टरी, अम्बरनाथ OFFICE आरेखण क्र. DRAWING NO. D.O.

MPF/IGB/397

	Q	TES				
DESIGNATION	DIA. OF WIRE mm (ød)	NUMBER OF BENDS TO 180°	NUMBER OF TWISTS TO 360°	DIA. OF ROLLERS IN mm	USED ON	
KO 1.2	+0.08 1.2 -0.06	6 -	25	5 ,	CODE-45 CODE-94	
KO 1.0	+0.06 1.0 -0.03	7	25	5	CODE-94	
KO 1.2 x100 Lg	1.2	<i>6</i>	25	5	CODE-45 (T-72)	
KO 1.4 ×100L	1.4	14	20	10	172-66-101 CD-1	
KD1.6 x100Lg	1.6	13	20	10		

### TECHNICAL REQUIREMENTS

- 1. WIRE IS MADE FROM LOW CARBON STEEL WIRE AS PER GOST 1050-60.
- 2. IN THE DESIGNATION KO INDICATES GALVANIZED (ZINC COATED) WIRE OF TENSILE STRENGTH 37kg/mm?
- 3. THE FOLLOWING ARE NOT ALLOWED ON GALVANIZED SURFACE OR WIRE.
  - a). LOCAL EXCESSIVE ZINC, INCREASING THE ACTUAL DIAMETER OF WIRE TO A VALUE MORETHAN HALF THE DIAMETRICAL TOLERANCE.
  - b) WHITE DEPOSIT, IF AFTER ITS ELIMINATION WIRE DOES NOT WITHSTAND THE TESTING ON THE QUALITY OR ZINC COATING.
- 4. ZINC COATING OF THE SURFACE OF WIRE SHOULD BE DURABLE, WHILE WINDING THE WIRE ON A CYLINDER HAVING A DIAMETER EQUAL TO FIVE TIMES THE DIAMETER OF WIRE, POELING, CRACKING OF ZINC COATING SHOULD NOT BE THERE.
- 5. ZINC COATING SHOULD WITH STAND'S THE NUMBER OF IMMERSIONS IN COPPER SULPHATE AS SHOWN BELOW.

### CHEMICAL COMPOSITION (IN %)

MATERIAL	C	Si	Mn	Cr MAX.	S MAX.	P MAX.
LOW CARBON STEEL (STEEL GRADE 15 GOST-1050-88)	0.12-0.19	0.17-0.37	0.35-0.65	0.25	0.04	0.035
M.S WIRE GALVANIZED 1/4 HARD TO IS:280-78 REF. IS:7887-75	0.23 MAX.			era deservi	0.055	0.055

DIA. OF WIRE IN mm	No. OF IMMERSIONS	DURATION OF HOLDING IN SOLUTION IN SECONDS.
FROM 1.0 TO 2.6	2	60



ALT. MATERIAL: COMMERCIAL QUALITY OF WIRE CAN BE USED WHICH IS

SUITABLE FOR END USE. ( M.S WIRE GALVANIZED 1/4 HARD TO IS:280-78)

AUTHORITY: CQA(HV) LETTER No. 98704/04/ID.CO-ORD/ALT. COM DTD. 03-05-2005.

### MECHANICAL PROPERTIES:

MATERIAL	ULTIMATE STRENGTH kgf/mm²
LOW CARBON STEEL (STEEL GRADE -15 GOST-1050-88. 'NORMALISING')	37 MIN.
M.S WIRE GALVANIZED 1/4 HARD TO IS:280-78 REF. IS:7887-75	55 MAX.

BASED ON GOST-792-67

WETTED

8 JUN 2008

JWM/STD-CELL

मुलमाप व अन्वायोजन

	LOW	CARBON (	QUALITY WIRE			CARBON L GRADE- <b>15</b>	1050-60				
संख्या NO.OFF	विवरण DESCRIPTIO	N		पुर्जा क्र. PART NO.	पदार्थ MATERIAL		मानक standard	परिमाप DIMENSIONS	अभ्यक्ति REMARKS		
1	म सहिष्णुता TOLERANCE				@	DRGNOCH	anged,	NOTE AD	030	23.12.11	4
रेखि	F URTHU										
0-6	±0.1										
6-30	±0.2			······································			······································				
30-120	±0.3						······································				
120-315	±0.5										
315-1000					1						
1000-200					<u> </u>				1		
)	क परिमाप R DIMENSION	संख्या NO.OFF	संबंधित पुजोका उ	सरेखण क. TED PART	सूचक INDEX	संशोधन ALTERATION			2006	दिनांक DATE	नाम NAME
1-10 10-50	±1° ±30'	W	RE.			•		मापमान SCALE	आरे <b>खित</b> DRAWN	08.06	KRB
50-100 >100	±20° ±10°		W CARBO	<u> N QC</u>	JALII	<u>Y</u>			जाँचा CHECKED	116100	Vie
HIVI99 VALL	'म्यू एम' में JE IN "um" → >25	<u> </u>	DE-45, C	ODE-9	4 / T	<u>-90</u>		NTS			
▽	8-25							द्वारा बदला	REPLACED		

इन आरेखणो तथा इसके साथ की सम्पूर्ण सामग्री का स्वत्वाधिकार भारत सरकार रक्षा मंत्रालय की भारतीय आयुध निर्माणियों के पास है। भारतीय आयुध निर्माणियों के महानिदेशक की लिखित अनुमति के बिना इनकी नकल या किसी भी रूप में इनके उद्धरण या इनमें समाहित सूचना किसी अनिधकृत व्यक्ति को उपलब्ध नहीं कराई जानी चाहिए।

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COMBINED DRAWING FOR CODE-45 & CODE-94/T-90

विचलन

DRG PREPAIRED BASED ON AHSP DRG

मशीनी औजार आदिरूप फैक्टरी, अम्बरनाथ

MACHINE TOOL PROTOTYPE FACTORY, AMBERNATH

MPF/16/8/792

हेतु बदला REPLACED

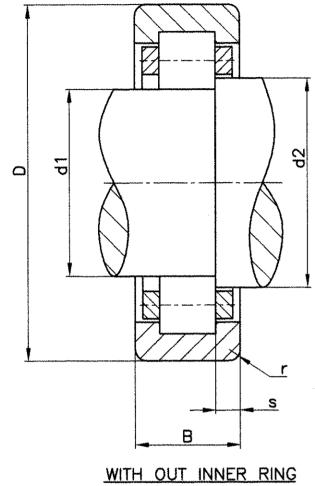
आरेखण क. DRAWING NO.

MPF/1GB/792

OFFICE

DO

							LIMIT DEVIA	TIONS IN A	MICRON AS PER GOST-520-71	CLASS	
BEARING DESIGNATION	ØD	В	r	d1	d2	S	NOMINAL OUTER DIAMETER 'D'.		RADIAL RUN OUT OF ROLLING TRACK Ra	ACCURACY (GOST ETY-500)	EQUIVALENT BEARING
							UPPER	LOWER	Max.		
292124 Л	180	28	3	+0.055 1 35 +0.040	141	6.5	0	-25	45	0	



## CHEMICAL COMPOSITION

					NOT MORE THAN						
MATERIAL	C %	Si %	Mn %	Cr %	S %	P %	Ni %	ت 0 %	Ni+Cu %		
ШХ15 GOST 801-78	0.95-1.05	0.17-0.37	0.20-0.40	1.30-1.65	0.02	0.027	0.30	0.25	0.50		
SAE 52100	0.95-1.10	0.20-0.35	0.25-0.45	1.30-1.60	0.025	0.025		****			

@ THIS SKETCH ALONGWITH ALL DETAILS IS AN ABSTRACT BASED ON GOST-5377-79

HARDNESS RC:61-65





#### NOTES:-

- 1. BEARING SHOULD BE FREE FROM CRACKS, CORROSION AND ALSO GRINDING BURRS IN THE SHAPE OF SPOTS OF SECONDARY HARDENING AND SECONDARY TEMPERING.
- 2. BEARING PARTS SHOULD BE DEMAGNETISED.
- 3. SURFACE QUALITY IS INSPECTED BY NON-DESTRUCTIVE METHODS SURFACE QUALITY MAY BE CHECKED, WITHOUT THE USE OF MAGNIFYING DEVICES.
- 4. ABSENCE OF SHRINK HOLES MAY BE CHECKED ON DISCS. CUT FROM TWO ENDS OF A ROD OR BUNDLE, BY MAGNETIC METHOD.

इन आरेखणो तथा इसके साथ की सम्पूर्ण सामग्री का स्वत्वाधिकार भारत सरकार रक्षा मंत्रालय की भारतीय आयुध निर्माणियों के पास है। भारतीय आयुध निर्माणियों के महानिदेशक की लिखित अनुमित के बिना इनकी नकल या किसी भी रूप में इनके उद्धरण या इनमें समाहित सूचना किसी अनिधकृत व्यक्ति को उपलब्ध नहीं कराई जानी चाहिए।

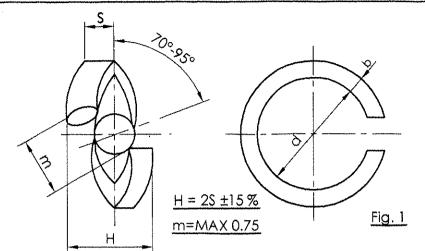
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मूलमाप व अन्वायोजन विचलन
NOMINAL SIZE & FIT DEVIATION

### ALTERNATE MATERIAL: SAE 52100

(AUTHORITY - CQA(HV), AVADI, LETTER NO. 98704/04/ID-CO-ORD/ALT COM, DATED 03/05/2005.)

	RADIAL	ROLLER	BEARING		ШХ15	GOST 801-78	3				
संख्या NO.OFF	विवरण DESCRIPTION			पुर्जा क्र. PART NO.	पदार्थ MATERIAL	मानक standard	परिमाप DIMENSIONS	s	अभ्यक्ति REMARKS		
GENERAL रेखिव	म सहिष्णुता LTOLERANCE क परिमाप				@ ;	DRG YPTOD.	0 9378	V. 8· 6. 2	-011		
0-6 6-30 30-120 120-315 315-1000											
	o ±1.2 क परिमाप R DIMENSION	संख्या NO.OFF	संबंधित पुर्जोका उ DRG. NO. OF ASSOCIA	गरेखण क.	सूचक INDEX	संशोधन ALTERATION		***************************************	2005	दिनांक DATE	नाम NAME
1-10 10-50 50-100 >100 	#1° #30' #20' #10'  ***********************************	TRA	VIAL ROLLI VSMISSIO DE - 45 / T	N GEA	YR UNI	-		HIVHIH SCALE NTS	जाँचा CHECKED	20109105	100
V   V   V   V   V   V   V   V   V   V	0.025-1.6 <0.025	मर्श	ानी औजार अ NE TOOL PROT	गदिस्कृप	फैक्टरी,		कार्यालय <u>०</u> ೯೯३८६ <b>D.O.</b>	1	REPLACED FOR 5. DRAW		
1		<u>L</u>		197	4		······································	1			لينسنسي



5

5

6

8

10

12

3

## **DESIGNATION EXAMPLE: -**

5 T - 65Γ - 01 - 6

5 - - - THREAD DIAMETER

T - - - CONDITION

651 - MATERIAL

01-- TYPE OF FINISH

6 -- THICKNESS OF PLATING IN MICRONS



CONDITION

Ν

T

OT

DESCRIPTION

LIGHT

MEDIUM

**HEAVY** 

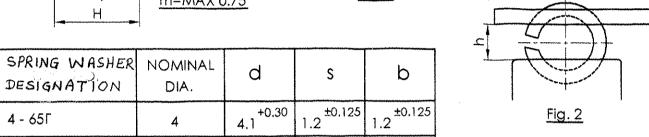
VERY HEAVY

CONVENTIONAL SYMBOL OF FINISH	TYPE OF FINISH
00	WITHOUT FINISH.
01	ZINC PLATING FOLLOWED BY CHROMATE PASSIVATION.
02	CADMIUM PLATING FOLLOWED BY CHROMATE PASSIVATION.
03	NICKEL PLATING
03	MULTILAYER COPPER NICKEL PLATING
0.4	MULTILAYER NICKEL CHROME PLATING
04	MULTILAYER COPPER NICKEL CHROME PLATING
05	OXIDE COATING
06	PARKERISING FOLLOWED BY OILING
09	ZINC PLATING
10	OXY ANODIZING FOLLOWED BY CHROMATE PASSIVATION.
11	PASSIVATION.

CHEMI	CAL COMPÓS	SITION (%)	MECHAN	NICAL PROPE	ERTIES
ELEMENT	STEEL 65Г GOST 14959-79	GOST 4959-79 STEEL 70C6 IS: 2507-75		STEEL 65F GOST 14959-79	STEEL 70C6 IS: 2507-75
C Si	062 - 0.70 ′ 0.17 - 0.37 ′	0.65 - 0.75 <sup>2</sup>	TENSILE STRENGTH	981 (MIN.) MPa	1180-1420 MPa
Mn	0.90 - 1.20	0.50 - 0.80	YIELD STRENGTH	785 (MIN.) Mpa	1030 (MIN.) MPa
Cr Ni	0.25 MAX.	40 At 20 20 20 40 40 50 50 50 50 50 50 50 50 50 50 50 50 50	RELATIVE ELONGATION	8 % MIN.	6 % MIN.
Cu S	0.20 MAX.		RELATIVE REDUCTION	30 % MIN.	AM SAL 1986 SAL 1981 1981
P	40 mm (40 VI) 400 mm mm (40 40 40 40 40 40 40 40 40 40 40 40 40 4	0.05 MAX. <sup>~</sup> 0.05 MAX. <sup>~</sup>	HARDNESS	40 - 50 HRC	350 - 425 VPN

ALTERNATE MATERIAL: STEEL GRADE 70C6TO IS:2507-75 AUTHORITY:- CQA(HV), AVADI, LETTER NO. 98704/04/ID-CO-ORD/ALT COM. DATED 03/05/2005

			:	1	T	<del></del>		·····					*****
	SPRING	WASHE	R		STEEL	65F G	OST 149	959-79			HRD. &	TEMP.	•
संख्या NO.OFF	विवरण DESCRIPTION			पुर्जा क्र. PART NO.	पदार्थ MATERIAL		मानक standari	)	परिमाप DIMENS		अ <b>भ्यक्ति</b> REMARKS		
	य सहिष्णुता L TOLERANCE			······································	@	Adde	<u> প ৭৪ ১</u>	regui.	oc/	,	· · · · · · · · · · · · · · · · · · ·	W.10	1
रेखि	s परिमाप श्री DIMENSION				Ь)	004	<u> </u>	L ÓATE	5-10 01	<u>v. 31- s</u>	5-01)	51	
0-6 6-30 30-120	±0.1 ±0.2 ±0.3			······································				····			······································		<del></del>
120-315 315-1000	±0.5					DIMN	. 4.0	WAS	4.50	, Ref	Cetter No	8.5.08	6
1000-200	00 ±1.2				@1	7/00/5	STD CE.	LL /DRI	GAMO).	su ot.	14.3.06		- <del>-</del> -
	क परिमाप RDIMENSION	संख्या NO.OFF	संबंधित पुर्जोका अ DRG. NO, OF ASSOCIA		सूचक INDEX	संशोधन ALTERATI	ION				2006	दिनांक DATE	नाम NAME
1-10 10-50 50-100	±1° ±30′ ±20′	SPRI	ng wash	HER						मापमान <sup>SCALE</sup>	आरे <b>खित</b> DRAWN	14.02.05	₩ kit
	±10 'म्यू एम' में	TRAI	NSMISSIOI	— N GE/	AR UN	1IT				NTS	जाँचा checked	16.02	(Any)
VALU	JE IN "urm" > 25 8-25	COI	DE - 45 / T	-72 &	T-90	<del> </del>					अनुमोदित APPROVED REPLACED		
▽	1.6-8								8	ारा बदला	BY		
AAAA AAA	0.025-1.6 <0.025	मर्श	ोनी औजार अ	गदिरूप	फैक्टरी.	. अम्बर	नाथ	कार्याल office	ļ	हेतु बदला	REPLACED FOR		
			NE TOOL PROT					D.C	3		IGB/	*******************	2



±0.125

±0.125

2.0 ±0.125

1<sub>2.0</sub> ±0.1251

1<sub>2.5</sub> ±0.1251

1<sub>2.5</sub> ±0.1251

4.0

+0.24

±0.125 ±0.125

1.6

±0.125

±0.125

±0.125

2.5 ±0.125

2.5 ±0.125

2.0

+0.30

+0.30

+0.58

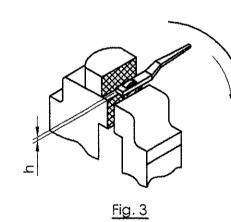
+0.58

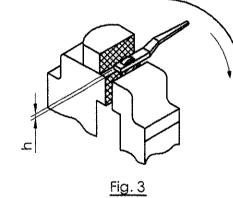
+0.30

10.1 +0.70

5.1

8.1





THIS SKETCH ALONG WITH ALL DETAILS 15 AN ABSTRACT BASEDON GOST-6402-70

12.1

#### TESTING THE TENACITY:

5 - 65 - 05

5 T - 65Γ - 01 - 6

6T-65F-01-6

8 - 651 - 01 - 6

8 T - 65Γ - 01 - 6

10 - 65Γ - 01 - 6

3-651-06

12 OT - 65F - 01 - 6

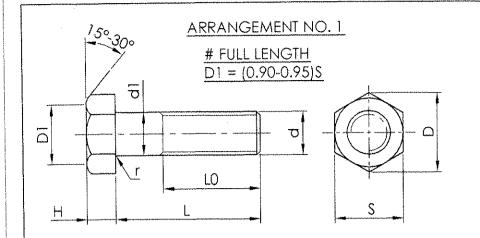
ONE END OF THE WASHER IS CLAMPED IN VICE, IT'S OTHER END IS BENT WITH MONKEY WRENCH OR HANDLE HAVING A SLOT TO THE SIDE OF INCREASE OF DIMENSION 'H'. DURING THE TEST, DIMENSION 'h' SHOULD BE MAINTAINED (BETWEEN THE JAWS OF VISE AND WRENCH ) EQUAL TO HALF THE INNER DIAMETER OF WASHER (SEE FIG. 2, 3, 4).

> इन आरेखणो तथा इसके साथ की सम्पूर्ण सामग्री का स्वत्वाधिकार भारत सरकार रक्षा मंत्रालय की भारतीय आयुध निर्माणियों के पास है। भारतीय आयुध निर्माणियों के महानिदेशक की लिखित अनुमति के बिना इनकी नकल या किसी भी रूप में इनके उद्धरण या इनमें समाहित सूचना किसी अनिधिकत व्यक्ति को उपलब्ध नहीं कराई जानी चाहिए।

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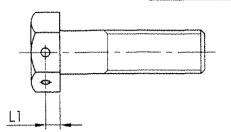
विचलन मुलमाप व अन्वायोजन DEVIATION NOMINAL SIZE & FIT

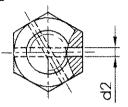
Fig. 4





# FULL LENGTH D1 = (0.90-0.95)S





BOLT

विवरण

DESCRIPTION

DECIONATION.	٦	اما	Н	ı	LO	r	c	D	d2	L1	THR	EAD DETAILS	}
DESIGNATION	d	d1		L.	LO	Min, Max	5		UZ	L. I	Major Ø	Eff. Ø	Minor Ø
M6-6gx14.66.016	M6	6.0-0.18	4.0 <sup>±0.15</sup>	14 <sup>± 0.35</sup>	#	0.25 0.40	10 <sup>-0.22</sup>	11				1	
3M6-6gx10.66.019	M6	6.0-0.18	4.0 <sup>± 0.15</sup>	10 <sup>±0.29</sup>	#	0.25 0.40	10 <sup>-0.22</sup>	11	2 <sup>±0.40</sup>	2 <sup>± 0,20</sup>	- 0.026 6.0 <sup>- 0.206</sup>	5.352 <sup>-0.026</sup>	4.776 - 0.026
	<u> </u>												

national De	ESIGNATION OF PLATING	TYPE OF PLATING
NUMERICAL	ACCORDING TO GOST 9073-77	THEOLICAINO
01	Zn, Cr	ZINC CHROMATING
02	Cd, Cr	CADMIUM CHROMATING
03	Cu, Ni	MULTILAYER COPPER NICKEL
04	Cu Ni Cr	MULTILAYER COPPER NICKEL CHROMIUM
05	Chem. Oxid.	OXIDING
06	Chem. Phos. Oil Imp.	PHOSPHATING WITH OIL IMPREGNATION
07	Cu	COPPER
08	Zn	ZINC
09	Hot In (Galv.)	HOT ZINC (GALVANISING)
10	Anod. Oxid. Cr	OXIDING WITH POTASSIUM BICHROMATE SOLUTION
11	Chem. Pass.	OXIDING WITH ACID SOLUTION
13	Ni	NICKEL
14	Cd	CADMIUM

<u>DESIGNATION EXAMPLE</u>:-M6 - 6g x 14 - 66 - 01-6 1 ----- ARRANGEMENT NO.

M6 x 1 - - - THREAD DESIGNATION

6g - - - - THREAD TOLERANCE ZONE AS PER GOST 16093-81

परिमाप

14----- LENGTH

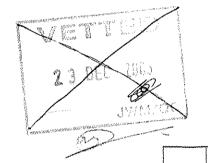
66 ---- STRENGTH CLASS AS PER GOST-1759-70

01 ---- DESIGNATION OF PLATING

6---- THICKNESS OF COATING IN MICRONS

### CHEMICAL PROPERTIES:

MATERIAL DESIGNATION	% C	% Si	% Mn	% Cr	% S	% P	% Cu	% Ni
STEEL 20 GOST 1050 - 74	0.17 0.24	0.1 <i>7</i> 0.3 <i>7</i>	0.35 0.65	0.25 max	0.040 max	0.035 max	0.25 max	0.25 max
080 M40 BS:970-83	0.36 0.44	*	0.60 1.00	**	0.050 max	0.050 max	-	4000



ALT. MATERIAL: 080 M40 to BS:970-83

AUTHORITY: CQA(HV) LETTER NO. 98704/04/ID-CO-ORD/ALT COM DATED 03-05-2005

STEEL 20 GOST 1050 - 74

मानक

## MECHANICAL PROPERTIES:

MATERIAL DESIGNATION	YIELD POINT	ULTIMATE TENSILE STRENGTH	ELONGATION % (Min)	IMPACT STRENGTH	HARDNESS
STEEL 20 GOST 1050 - 74	36 kg/mm² (Min)	60 - 80 kgf/mm²	16	4.0 kgf.m/cm² (Min)	170 - 245 HB
080 M40 BS:970-83	385 N/mm² (Min)	625 - 775 N/mm²	16	~	179 - 229 HB

BTHIS SKETCH ALONGWITH ALL DETAILS IS AN ABSTRACT BASED ON GOST-7805

इन आरेखणो तथा इसके साथ की सम्पूर्ण सामग्री का स्वत्वाधिकार भारत सरकार रक्षा मंत्रालय की भारतीय आयुध निर्माणियों के पास है। भारतीय आयुध निर्माणियों के महानिदेशक की लिखित अनुमित के बिना इनकी नकल या किसी भी रूप में इनके उद्धरण या इनमें समाहित सूचना किसी अमिधकृत व्यक्ति को उपलब्ध नहीं कराई जानी चाहिए।

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2 X V		10-00	±30		
		50-100	±20		
		>100	±10'		
		मापांक	'म्यू एम' में		
		VALU	E IN "um"		
		~	>25		
		▽	8-25		
		777	1.6-8		
		<b>₩</b>	0.025-1.6		
		\	<0.025		
मूलमाप व अन्वायोजन NOMINAL SIZE & FIT	विचलन DEVIATION				

सामान्य साहष्णुता				(9)	DRG UPTO	DATE	01.100 C	3. T. 11	
GENERAL TOL	ERANCE						***************************************	······································	
रेखिक पी LINEAR DIME									
0-6	±0.1	]							
6-30	±0.2	}					· · · · · · · · · · · · · · · · · · ·		-
30-120	±0.3								
120-315	±0.5	]		1	1				
315-1000	\$.0±	]					~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		l
1000-2000	±1.2			<u> </u>	1				
कोणिक परिमाप ANGULAR DIMENSION		संख्या NO.OFF	संबंधित पुर्जोका आरेखण क्र. DRG. NO. OF ASSOCIATED PART	सूचक INDEX	संशोधन ALTERATION			2005	दिनांव DATE
1-10	±1°						मापमान	आरेखित	-01
10-50	HEXAGON BOLT				SCALE	DRAWN	180140		
50-100 ±20			XAGUN BUL				DOME		<u> </u>
>100   ±10					-		जाँचा	23.72	
क्षांत्रस्य (क्रा वाक्ष) के		7° (*) A	N. ITC	CHECKED	25				

पदार्थ

पूर्जाक्र.

TRANSMISSION GEAR UNIT CODE - 45 / T-90 & T-72

मशीनी औजार आदिरूप फैक्टरी, अम्बरनाथ MACHINE TOOL PROTOTYPE FACTORY, AMBERNATH SCALE DRAWN OAIO91 GAK

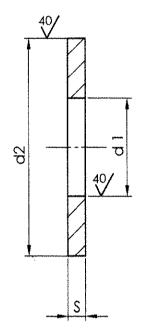
NTS जाँचा CHECKED 23.72 अर्थ अनुमोदित APPROVED 13.12 अर्थ

अभ्यक्ति

कार्यालय हेतु बदला REPLACED FOR आरेखण क. DRAWING NO.

D.O. MPF/IGB/ 7805

#### VARIANT 1



## WASHER AS PER 15:2016-67, ACCEPTABLE

MATERIAL: STEEL 10KN GOST 1050-74

ALTERNATE MATERIAL: STEEL Gde. 'D' TO IS:513 - 94

(AUTHORITY - CQA(HV), AVADI, LETTER NO. 98704/04/ID-CO-ORD/ALT COM, DATED 03/05/2005.)

### CHEMICAL COMPOSITION:

MATERIAL DESIGNATION	% C	% Si	% Mn	% Cr	% S	% P	% Cu	% Ni
STEEL 10K <b>N</b> GOST 1050 - 74	0.07 0.14	0.07 max	0.25 0.50	0.15 max	0.040 max	0.035 max	0.25 max	0.25 max
STEEL Gde.'D' IS:513 - 92	0.12 max		0.50 max		0.040 max	0.040 max		*** ***

#### MECHANICAL PROPERTIES:

MATERIAL DESIGNATION	YIELD POINT kg/mm² (min)		MATE TENSILE NGTH , kg/mm <sup>2</sup>	ELONGATION, % (min)	N, REDUCTION OF AREA % (min)		HARDNESS
STEEL 10KM GOST 1050 - 74	21		34	31		55	143 HB max
	TENSILE STRENGTH MPa		YIELD STRESS MPa (max)	ELONGATION, % (min)		IMPACT STRENGTH ft.lb (min)	HARDNESS (max)
STEEL Gde.'D' IS:513 - 94	270 - 410		280	23			65 HRB

@ This sketch alongwith all details is an abstract of GOST 11371-78868

इन आरेखणों तथा इसके साथ की सम्पूर्ण सामग्री का स्वत्वाधिकार भारत सरकार रक्षा मंत्रालय की भारतीय आयुध निर्माणियों के पास है। भारतीय आयुध निर्माणियों के महानिदेशक की लिखित अनुमति के बिना इनकी नकल या किसी भी रूप में इनके उद्धरण या इनमें समाहित सूचना किसी अनिधकृत व्यक्ति को उपलब्ध नहीं कराई जानी चाहिए।

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मूलमाप व अन्वायोजन	विचलन	
NOMINAL SIZE & FIT	DEVIATION	
	l	ı

DESIGNATION	NOMINAL DIA.	INTERNAL DIA. (d1)	EXTERNAL DIA. (d2)	THICKNESS S
4.01.016	4	4.3	9.0	0.8
05.01.016	5	5.3	10.0	1.0
C5.01.016	5	5.3	10.0	1.0
C6.01.016	6	6.4	12.5	1.6
C8.01.016	8	8.4	17.0	1.6

DESIGNATION	EXAMPLE	;
C5.01.01.6		

C ----- TOLERANCE CLASS 5 ----- NOMINAL DIA. OF

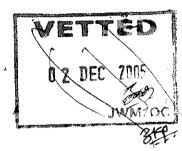
THREAD
01----- VARIANT 1

01 ----- TYPE OF PLATING 6 ----- THICKNESS OF

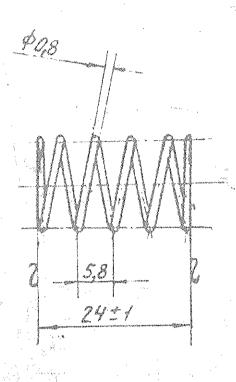
PLATING IN MICRONS

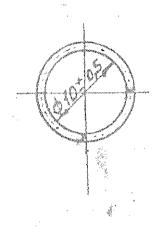
NATIONAL D	ESIGNATION OF PLATING	TYPE OF PLATING
NUMERICAL	ACCORDING TO GOST 9073-77	·
01	Zn, Cr	ZINC CHROMATING
02	Cd, Cr	CADMIUM CHROMATING
03	Cu, Ni	MULTILAYER COPPER NICKEL
04	Cu Ni Cr	MULTILAYER COPPER NICKEL CHROMIUM
05	Chem. Oxid.	OXIDING
06	Chem. Phos. Oil Imp.	PHOSPHATING WITH OIL IMPREGNATION
07	Cu	COPPER
08	Zn	ZINC
09	Hot Zn (Galv.)	HOT ZINC (GALVANIŠING)
10	Anod. Oxid. Cr	OXIDING WITH POTASSIUM BICHROMATE SOLUTION
11	Chem. Pass.	OXIDING WITH ACID SOLUTION
13	N	NICKEL
14	Cd	CADMIUM





	WASHE	R				*					
संख्या	विवरण		पुर्जा ब्र		पदार्थ	मानक	परिमाप		अभ्यक्ति		
NO.OFF	DESCRIPTION			PART NO.	MATERIAL	STANDARD	DIMENSION	S	REMARKS		
सामान्य	र सहिष्णुता				0	Note added an	al dog. no a	mondad			
	TOLERANCE			····					***************************************		
रेखिव	ह परिमाप				<del>   </del>				······································		
LINEAR	DIMENSION				ļ						
0-6	±0.1										
6-30	±0.2										
30-120 120-315	±0.3 ±0.5							***************************************			
315-1000	±0.8										
1000-2000											
	रु परिमाप	संख्या	संबंधित पुर्जीका उ	भारेखण क.	सूचक	संशोधन			2005	दिनांक	नाम
	DIMENSION	NO.OFF	DRG. NO. OF ASSOCIA	TED PART	INDEX	ALTERATION				DATE	NAME
1-10	±1°							मापमान	आरेखित	06109105	
10-50 50-100	±30 ±20	WAG	SHER					SCALE	DRAWN	OPIO.	RRK
>100	±10'	11/10	<u> </u>						जाँचा	2.12.05	1
मापांक	'म्यू एम' में	TDAI	NSMISSIO	NIGE	ALLAZ	IIT		NTS		2.12	ADV
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-	>25	$C \cap \Gamma$	DE - 45 / T	70.8	T OA				APPROVED	0*	
▽	8-25		<u> </u>	_ 78	द्वारा बदला	REPLACED BY					
<del>──</del>	1.6-8 0.025-1.6					GOST 11371			REPLACED		
<del></del>	<0.025	गर्भ	े प्राचीद कि	मादिरूप फैक्टरी, अम्बरनाथ				कार्यालय हेतु बदला			
	7 1	नर।	י אויווע טוויון ט	71147714	विस्तप फक्टरा, अन्बरमाथ		OFFICE	आरेखण क्र	. DRAW	NG NO.	
	+ ( )	MACHIN	NE TOOL PROT	OTYPE F	ACTORY	, AMBERNATH	D.O.		1GB)		





## EXPLANATORY NOTE :- (1)

- REFERENCE MATERIAL QUOTED CARBON STEEL COLD DRAWN WIRE OF CATEGORY II WITH NORMAL
  ACCURACY ON DIAMETER 0,8-0,03 mm GOST 9389-75 AND
  MANUFACTURED IN ACCORDANCE WITH GOST 1050-74.
- A) REFERENCE NOTE & DN ALTERNATIVE MATERIAL:
  CARBON STEEL COLD DRAWN WIRE OF CATEGORY TOR IT WITH NORMAL

  ACCURACY ON DIAMETER 0,8 2002 mm GOST 9389-75 AND

  MANUFACTURED IN ACCORDANCE WITH GOST 1050-74.
- b) MECHANICAL PROPERTIES AS PER CATEGORY II, I & I WIRE DIAMETER 0.8 mm GOST 9389-75

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200	CATEGORY	TENSILE	and the second second	NUMBER OF
Spinist Control of Street	OF WIRF	STRENGTH Kaf/mm²	No OF BENDS	TWISTS
Section Contracts	WINC.	Karvum.	Steam make hayada in dada dan make in dada siran in dada asasar da yika asalada, bi higa simba da Steam hake is dan gama, wala mama	Commence of the Commence of th
Controlleduning	$\mathbf{II}$	170-215	12	17
Charles Comment	I	215-260	12	17
Contractor Contractor		260-295	41	16

- 1. DURING REPEATED COIL TO COIL COMPRESSION OF THE SPRING RESIDUAL DEFORMATION IS NOT ALLOWED.
- 2. DEVIATION FROM TRY SQUARE SHOULD NOT BE MORE THAN 1.5mm, FOR THE ENTIRE HEIGHT OF THE SPRING.
- 3. SUPPORTING SURFACE MUST BE NOT LESS THAN 0.75 OF THE LENGTH OF THE CIRCUMFERENCE.
- 4. MANUFACTURE FROM WIRE I OR II GOST 9389-75 IS ALLOWED.
- 5. TO BE ZINC PLATED THICKNESS OF ZINC LAYER NOT TO HE LESS THAN 0.01mm.
- 6. BULGING OF SEPERATE COILS IS NOT TO BE CHECKED.

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