

USED ON
 172 70 -
 185 CB-1
 172 70 -
 276 CB CB
 172 45 -
 060 CbCb

| ITEM | DRAWING NUMBER | D S CAT NUMBER | DESCRIPTION | No OFF | REMARKS |
|------|----------------|----------------|--|--------|----------------|
| | A20 000 CB | | SENDING UNIT A20 | | |
| | A20 000 F4 -1 | | OUTLINE DRG. SENDING UNIT A20 | | |
| | A20 000 33 | | SCHEMATIC CIRCUIT DIAGRAM, SENDING UNIT A20 | | |
| | A20 000 BC | | PARTS LIST SENDING UNIT A20 | | |
| | A20 000 TY | | SPECIFICATIONS, SENDING UNIT A20 | | SEPERATE ALBUM |
| | A20 000 PC | | CERTIFICATE, SENDING UNIT A20 | | SEPERATE ALBUM |
| 1 | A20 010 CB | | ROD ASSY | 1 | |
| 2 | A20 030 CB | | LEVER ASSY | 1 | |
| 6 | A20 001 | | COVER | 1 | |
| 7 | A20 002 | | BODY | 1 | |
| 8 | A20 003 | | COVER | 1 | |
| 9 | A20 009 | | NAME PLATE | 1 | |

MASTER COPY

| | | | | | |
|-------|-------------------|---|----------------|-------------------|----------------------|
| ISSUE | DATE | NATURE OF AMENDMENTS | ISSUE | DATE | NATURE OF AMENDMENTS |
| DRN | <i>Sho ralled</i> | CONTROLLERATE OF INSPECTION (HEAVY VEHICLES) AVADI. | | | |
| CHD | <i>Sho ralled</i> | TITLE: SENDING UNIT A20 | | | |
| TCD | <i>Sho ralled</i> | | | | |
| APPD | <i>r.f.</i> | SIIT No 1 OF 3 | D S CAT NUMBER | ITEM LIST FOR | |
| DATE | 18. 2. 87 | | | A20 000 CB | |

USED ON

172 70
105 Cb-1

172 70
276 CbCb

172 75
060 CbCb

| ITEM | DRAWING NUMBER | D S CAT NUMBER | DESCRIPTION | No OFF | REMARKS |
|------|----------------|----------------|-------------------------|--------|---------------|
| 12 | БКВ 683 026 | | GASKET | 1 | |
| 13 | A74 001 | | STUD | 1 | |
| 14 | A20 1C 011 | | GASKET | 1 | |
| 15 | A74 006 | | GASKET | 1 | |
| 16 | A74 007 | | END-PIECE PLUG | 1 | |
| 17 | A74 008 | | SCREW | 1 | |
| 18 | A74 009 | | SPRING | 1 | |
| 19 | A74 013 | | BLADE SPRING | 1 | |
| 20 | A74 014 | | STRIP PLATE | 1 | |
| 21 | X1 10 84 | | SCREW | 1 | |
| 22 | X9 10945 | | TRANSPORTATION CAP | 1 | |
| 23 | X1 11352 | | SCREW | 2 | |
| 26 | -N. D- | | SCREW M4-7g6g×10.36.016 | 3 | GOST 1491-72 |
| 27 | -N. D- | | SCREW M3-7g6g×0.36.016 | 0 | GOST 17475-72 |
| 29 | -N. D- | | PLUG WPG20P153W7 | 1 | GEO 364 108TY |
| 30 | -N. D- | | MICROSWITCH D301 | 1 | HO 360 011 |

MASTER COPY

| | | | |
|------------|----------------------|--|--------------------------|
| ISSUE DATE | NATURE OF AMENDMENTS | ISSUE DATE | NATURE OF AMENDMENTS |
| DRN | <i>Shovalov</i> | CONTROLLERATE OF INSPECTION (HEAVY VEHICLES) AVADI | |
| CHD | <i>Shovalov</i> | TITLE: SENDING UNIT A20 | |
| TCD | <i>Shovalov</i> | | |
| APPD | <i>18.2.87</i> | D S CAT NUMBER | ITEM LIST FOR A20 000 Cb |
| DATE | <i>18.2.87</i> | SITT. No 2 OF 3 | |

USED ON

172 70
185Cb-1

172 70
276 CbCb

172 45
060 CbCb

| ITEM | DRAWING NUMBER | D S CAT NUMBER | DESCRIPTION | No OFF | REMARKS |
|------|----------------|----------------|---|---------|-----------------|
| 34 | - N.D. - | | WIRE MFWJB 0.35 | 0.32M | TY16 505 437-73 |
| 35 | - N.D. - | | SLEEVE TB-40-230-3x0.4 WHITE | 0.096 M | GOST 19034-73 |
| | | | <u>SETS</u> | | |
| 11 | Y 974 000 N/A | | PACKING OF BOXES WITH - ARTICLES INTO PACKING CASE | 1/40 | SEPERATE ALBUM |
| 11 | Y 974 010 N/A | | PACKING OF ARTICLES INTO BOX | 1/2 | SEPERATE ALBUM |

MASTER COPY

| ISSUE | DATE | NATURE OF AMENDMENTS | ISSUE | DATE | NATURE OF AMENDMENTS |
|-------|------|----------------------|-------|------|----------------------|
| | | | | | |

| | | | | | |
|------|-------------------|--|--|---------------|--|
| DRN | <i>Khovraliev</i> | CONTROLLERATE OF INSPECTION(HEAVY VEHICLES) AVADI. | | | |
| CHD | <i>Obalashyev</i> | TITLE: SENDING UNIT A20 | | | |
| TCD | <i>Khovraliev</i> | SHT No 3 OF 3 | | ITEM LIST FOR | |
| APPD | <i>T.S.</i> | D S CAT NUMBER | | A20 000 CB | |
| DATE | 18. 2. 87 | | | | |

USED ON
A20 000C6

| ITEM | DRAWING NUMBER | D S CAT NUMBER | DESCRIPTION | No OFF | REMARKS | | |
|--------------------|--------------------|---|-------------|----------------|---------|---------------------------------|--|
| | A20 010 C6 | | ROD ASSY | | | | |
| 1 | A20 020 C6 | | ROD ASSY | 1 | | | |
| 3 | A20 006 | | DIAPHRAGM | 1 | | | |
| 5 | A74 018 | | SPRING | 1 | | | |
| 6 | A74 019 | | BLOCK | 1 | | | |
| 7 | A74 021 | | RING | 1 | | | |
| MASTER COPY | | | | | | | |
| ISSUE | DATE | NATURE OF AMENDMENTS | | ISSUE | DATE | NATURE OF AMENDMENTS | |
| DRN | <i>Shoralle</i> | CONTROLLERATE OF INSPECTION (HEAVY VEHICLES) AVADI. | | | | | |
| CHD | <i>Shoralle</i> | TITLE: ROD ASSY | | | | | |
| TED | <i>Shoralle</i> | SHT. No. 1 OF 1 | | D S CAT NUMBER | | ITEM LIST FOR A20 010 C6 | |
| APPD | <i>[Signature]</i> | | | | | | |
| DATE | 18.2.1987 | | | | | | |

USED ON
A20 010CB

| ITEM | DRAWING NUMBER | D S CAT NUMBER | DESCRIPTION | Nó OFF | REMARKS | | |
|-------------|--------------------|---|----------------|---------------|---------|----------------------|--|
| | A20 020 CB | | ROD ASSY | | | | |
| 1 | A20 004 | | BUSHING | 1 | | | |
| 2 | A20 005 | | PIN | 1 | | | |
| MASTER COPY | | | | | | | |
| ISSUE | DATE | NATURE OF AMENDMENTS | | ISSUE | DATE | NATURE OF AMENDMENTS | |
| DRN | <i>Shorath...</i> | CONTROLLERATE OF INSPECTION (HEAVY VEHICLES) AVADI. | | | | | |
| CHD | <i>Blut...</i> | TITLE : | | | | | |
| TCD | <i>Shorath...</i> | ROD ASSY | | | | | |
| APPD | <i>[Signature]</i> | SHT No. 1 OF 1 | D S CAT NUMBER | ITEM LIST FOR | | | |
| DATE | 18.2.1987 | | | A20 020 CB | | | |

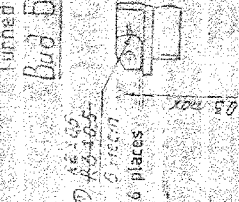
USED ON
A20 000 CB

| ITEM | DRAWING NUMBER | D S CAT NUMBER | DESCRIPTION | No. OFF | REMARKS | | |
|--------------------|--------------------|---|------------------------|----------------|---------------|----------------------|--|
| | A20 030 CB | | LEVER ASSY | | | | |
| 1 | A20 007 | | BAR | 1 | | | |
| 2 | A20 000 | | LEVER | 1 | | | |
| 3 | A74 003 | | SCREW | 1 | | | |
| 6 | -N. D- | | SCREW M3-7g6g×8.36.016 | 1 | GOST 1491-72 | | |
| 7 | -N. D- | | WASHER 3,65Г.06 | 1 | GOST 64.02-70 | | |
| MASTER COPY | | | | | | | |
| ISSUE | DATE | NATURE OF AMENDMENTS | | ISSUE | DATE | NATURE OF AMENDMENTS | |
| DRN | <i>Shovalid</i> | CONTROLLERATEOFINSPECTION (HEAVY VEHICLES) AVADI. | | | | | |
| CHD. | <i>Blatshoye</i> | TITLE: LEVER ASSY | | | | | |
| TCD | <i>Shovalid</i> | SHT. No. 1 OF 1 | | D S CAT NUMBER | | ITEM LIST FOR | |
| APPD | <i>[Signature]</i> | | | | | A20 030 CB | |
| DATE | 18.2-1987 | | | | | | |

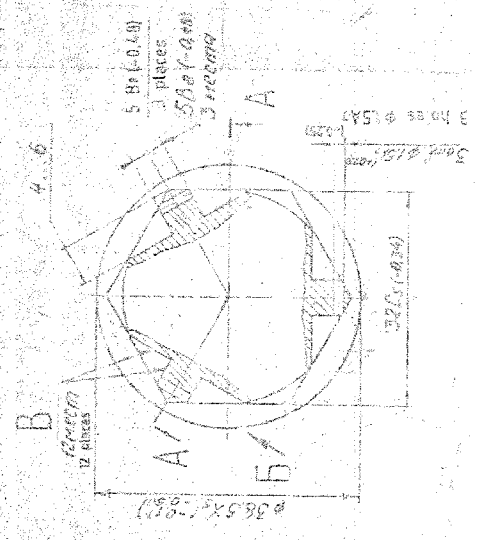
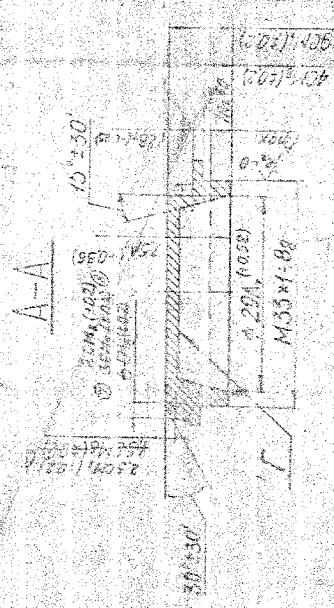
R-70/
V

(M)

Turned view B
Bud B *mabepnyms*



1. Unmachined radii should not exceed 0.5 mm.
2. Surfaces B may be machined.
3. Tool marks on surfaces A, B and C.
4. Coating Cd, Chromazinc.



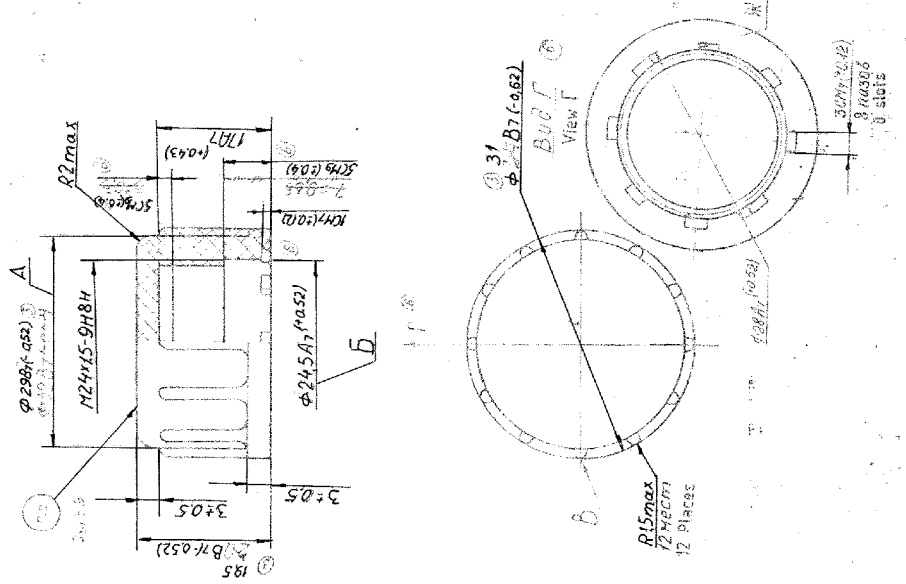
ALT. MATL 2 - GRADE 1A1 IS:2004-78
 AUTHORITY 2 - C&A (W) LETTER NO. 98704/04/D-CD-DAD/INT.COM
 DATED: 30-05-2005

MASTER COPY

| | | | |
|---|------|----------------|--------------|
| QTY | UNIT | UNIT OR | UNIT OR |
| | | STEEL | AL200814M-75 |
| | | | D20-0800 |
| CONTROLLEDATE OF INSPECTION HEAVY VEHICLE | | | |
| A 7401 | | | |
| TOLERANCE BY DIMS | | | |
| UNLESS OTHERWISE | | | |
| SPECIFIED | | | |
| ALL DIMENSIONS | | | |
| EFFECTIVE TO | | | |
| ISSUE DATE | | | |
| NATURE OF AMENDMENT | | | |
| PROJ. NAME NUMBER BE APPROVED BY A.H.S. BEFORE | | | |
| USK PROJECT NO. | | | |
| EST. NO. | | | |
| TO BE STAMPED ON MATED VIEW | | | |
| INDICATED THIS IS | | | |
| ALL SHARP EDGES AND CORNERS TO BE ROUNDED UNLESS | | | |
| DIMENSIONS STATE MANDATED DIMENSIONS TO HAVE A MIN. | | | |
| SIDE R. UNLESS OTHERWISE SPECIFIED ARE PERMISSIBLE. | | | |
| U.S. CAT. NUMBER | | DRAWING NUMBER | |
| | | A 74-007 | |

32.76.007


DRAWING NUMBER
X9-10945



1. Alternative material polyethylene 275-73.277-73 grade 1 19-05-1970-79.210-01 grade 1 GOST 16338-77
2. Paper to 1° towards the decrease of dimension A and 4° towards the increase of dimension B are allowed.
3. Unspecified radii should not exceed 1mm.
4. Angular misalignment of ribs B from normal position should be $\leq 1^\circ$.
5. Mark the socket number of mold and designation of component by convex type 4 as per H4100-067
6. Rest of requirements as per DSTB 84-1602-78
7. Dimensions should be ensured by tools.
8. Permissible angular misalignment of slots $X \pm 1^\circ$.

ALT. MATL: POLYETHYLENE MOULDING MATERIAL FOR GENERAL PURPOSE
 AUTHORITY: C.O.A (H.V) LETTER NO. 98704/04/D-CO-ORD/ALT-COM, APPENDIX 'A'
 DATED: 03/05/2005.

REVISION COPY

| | |
|---|----------------------------|
| DIR. (in Charge) | MATERIAL USED ON |
| TYPE (GOST) | TYPE (GOST) |
| DATE | CONTROL DATE OF INSPECTION |
| SCALE | CONTRACT NUMBER |
| TOLERANCE ON DIMS. UNLESS OTHERWISE STATED. | U.S. PAT. NUMBER |
| CONFORM TO | DRAWING NUMBER |
|  TRANSPORTATION CAP | |
| ISSUE DATE: 03/05/2005 DRAWING NUMBER: X9-10945 | |

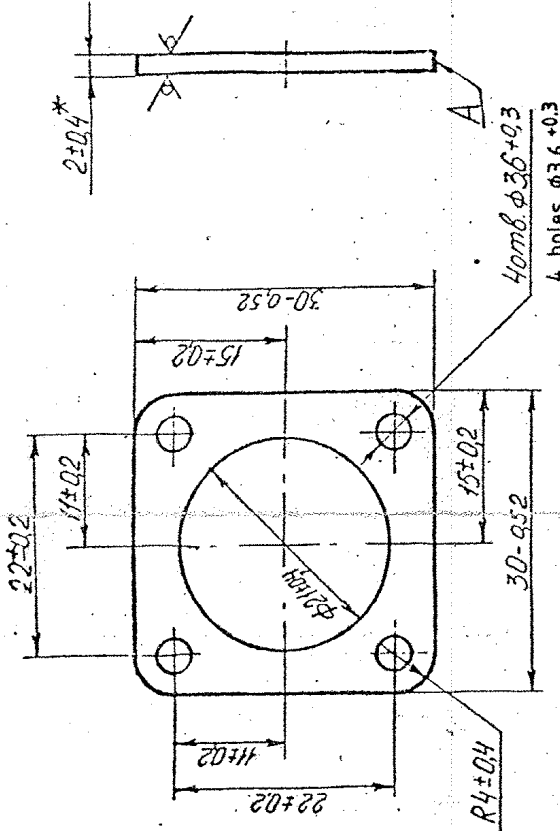
PROY. SAMPLE SHOULD BE APPROVED BY A.N.S.P. BEFORE SUBM. PRODUCTIONS.

TEST PASS: TO BE STAMPED ON MARKED WHERE INDICATED THIS IS LETTERS.

12.09: ALL SHARP EDGES AND CORNERS TO BE REMOVED UNLESS OTHERWISE STATED. ROUNDED CORNERS TO HAVE R. TOY. SIDE R. INSIDE EQUIVALENT CHAMFERS ARE PERMISSIBLE.

DRAWING NUMBER

BK8-683-026



1. Alternate-material plate as per TY 38005-838-70.
2. * Dimension for references.
3. Other dimensions are ensured by tool which are regularly checked once a quarter.
4. Nonflatness of surface A should not exceed 0.5mm.

MASTER COPY

ALT MALT :- NITRILE BA 70, BS: 2751-82
 AUTHORITY :- CGA (HY) LETTER NO. 98704/04/JP-
 CD-ORD/ALT COM, APPENDIX 'A'
 DATED 3/5/2005

| | | |
|---|---------------|--|
| MATERIAL:- PLATE 254311-2 TY005216-75 RUBBER 4326-1 | | USED ON: A 20-000 CB |
| DRN | N. Ramani | CONTROLLERATE OF INSPECTION(HEAVY VEHICLES) AVADI |
| CHD | S. Srinivasan | |
| TCD | S. Srinivasan | TITLE: GASKET |
| APPD | S. Srinivasan | |
| DATE | 10.2.2005 | D S CAT NUMBER 5K8-683-026 |
| SCALE | 2:1 | |
| DIMENSIONS IN mm | | DRAWING NUMBER |
| TOLERANCE ON DIMS UNLESS OTHERWISE STATED. | | |
| ALL THREADS CONFORM TO | | NATURE OF AMENDMENTS |
| ISSUE | DATE | |

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

EST. MASS. 0.001 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.

DRAWING NUMBER
A.20.001

65.05 (-0.4)

55 ± 0.15

48 ± 0.12

5 ± 0.1

15 ± 0.05

5 ± 0.24

32 ± 0.12

35 ± 0.02

30mm ϕ 55A8 (+0.48)
3 holes ϕ 5.5A8 (+0.48)

R5 ± 0.37
 ϕ 38.5A1 (+0.62)

62.5 (-0.34)

40mm ϕ 35A5 (+0.16)
4 holes ϕ 3.5A5 (+0.16)
M35x1.7H

ϕ 7A7 (+0.36)

90° ± 1'

A-A

MASTER COPY

ALT. MATL: GRADE 'D' IS: 513-86
AUTHORITY: CGA (HV) LETTER NO. 98704/04/p-CO-
ORD/ALT.COM DATED: 03-05-2005

1. * DIMENSION FOR REFERENCE.
2. COATING: Cd 12, CHROMATIZING.

Rz80



| | | | | |
|--|---|-----------|---------------------|-----------|
| DRN | 4 | Used | MATERIAL - SHEET | USED ON: |
| CHD | 5 | 3.9 | GOST 19804-74 | A20.000C6 |
| TCD | 4 | II | 0.8Kn GOST 16528-70 | |
| APPO | | | | |
| DATE | | 18.2.2022 | | |
| SCALE | | 1:1 | | |
| DIMENSIONS IN mm | | | | |
| TOLERANCE ON DIMS UNLESS OTHERWISE STATED. | | | | |
| ALL THREADS CONFORM TO | | | | |
| D S CAT NUMBER | | | | |
| DRAWING NUMBER | | | | |
| A.20.001 | | | | |

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

EST. MASS: 0.04
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.

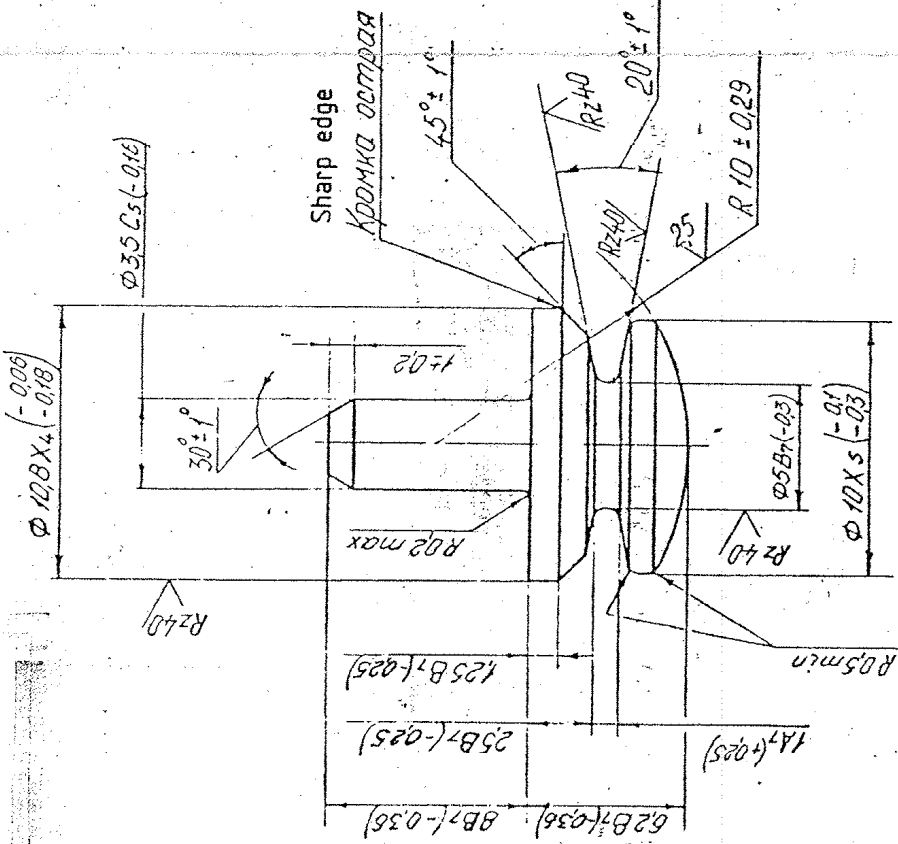
CONTROLLERATE OF INSPECTION(HEAVY VEHICLES)
AVADI

TITLE:

COVER



DRAWING NUMBER
A 20 005



Rz 80 (✓)

1. HRC 40...45.
 2. Неуказанные радиусы R0.5 мм max.
 3. Покрытие КД 12 хр.
1. HRC 40.....45.
 2. Unspecified radii R0.5 mm,max.
 3. Coating: Cd12,Chromatizing.

MASTER COPY

ALT. MATL: - STEEL 40, IS:1570
 AUTHORITY: - 98704/04/1D-C0-ORD/ALT.COM, APPENDIX 'A'
 DATED 3/5/2005

| | | | |
|-------------------|------------|---|----------------|
| DRN | V. Ramani | MATERIAL:± | USED ON: |
| CHD | Blathige | STEEL 40 | A 20 020 CB |
| TCO | 18/02/1987 | GOST 1050-74 | |
| APPD | 18/02/1987 | CONTROLLERATE OF INSPECTION(HEAVY VEHICLES) | |
| DATE | 18/02/1987 | AVADI | |
| SCALE | 5:1 | TITLE: | |
| DIMENSIONS IN mm | | | |
| TOLERANCE ON DIMS | | | |
| UNLESS OTHERWISE | | | |
| STATED. | | | |
| ALL THREADS | | | |
| CONFORM TO | | | |
| ISSUE | DATE | U S CAT NUMBER | DRAWING NUMBER |
| | | | A 20 005 |

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

EST. MASS. 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.

DRAWING NUMBER
Д.20 006

36 ± 0.15

3 ± 0.2

R18 ± 0.2

15 ± 0.2

R15 ± 0.2

R15 ± 0.2

R3 ± 0.3

R15 ± 0.2

φ1.5 ± 0.2

φ3.4 (+0.25)

φ3.3 ± 0.3

φ2.5 ± 0.3

φ3.3 ± 0.3

160° ± 1°

90° ± 1°

φ17.5

A

0.03

0.02

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

EST. MASS. 0.002 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.

2. Размеры обеслеч. шнстр. с периодической проокой шнстр. не реже 1 раза в квартал.

3. * Размер для оправок.

4. Отверстие А не штанцуются.

5. Детальные требования

по ТУ 005.216-75.

1. Unspecified radii R1 should be ±0.2mm.
2. Dimensions are ensured with tools which are regularly checked once a quarter.
3. * Dimension for references.
4. Hole A is not punched out (stamped out).
5. Rest of requirements as per specifications TY 005.216-75.

MASTER COPY

ALT. MALT :- NITRILE BA 70, BS : 2751-82.
AUTHORITY :- 98704/04/D-CO-DRD/ALT COM,
APPENDIX 'A' DATED 3/5/2005

USED ON:
A, 20 010 CB.

MATERIAL :-
RUBBER HO-68-1
TY 005 216-75.

CONTROLLERATE OF INSPECTION(HEAVY VEHICLES)
AVADI

TITLE:

DIAPHRAGM



D S CAT NUMBER

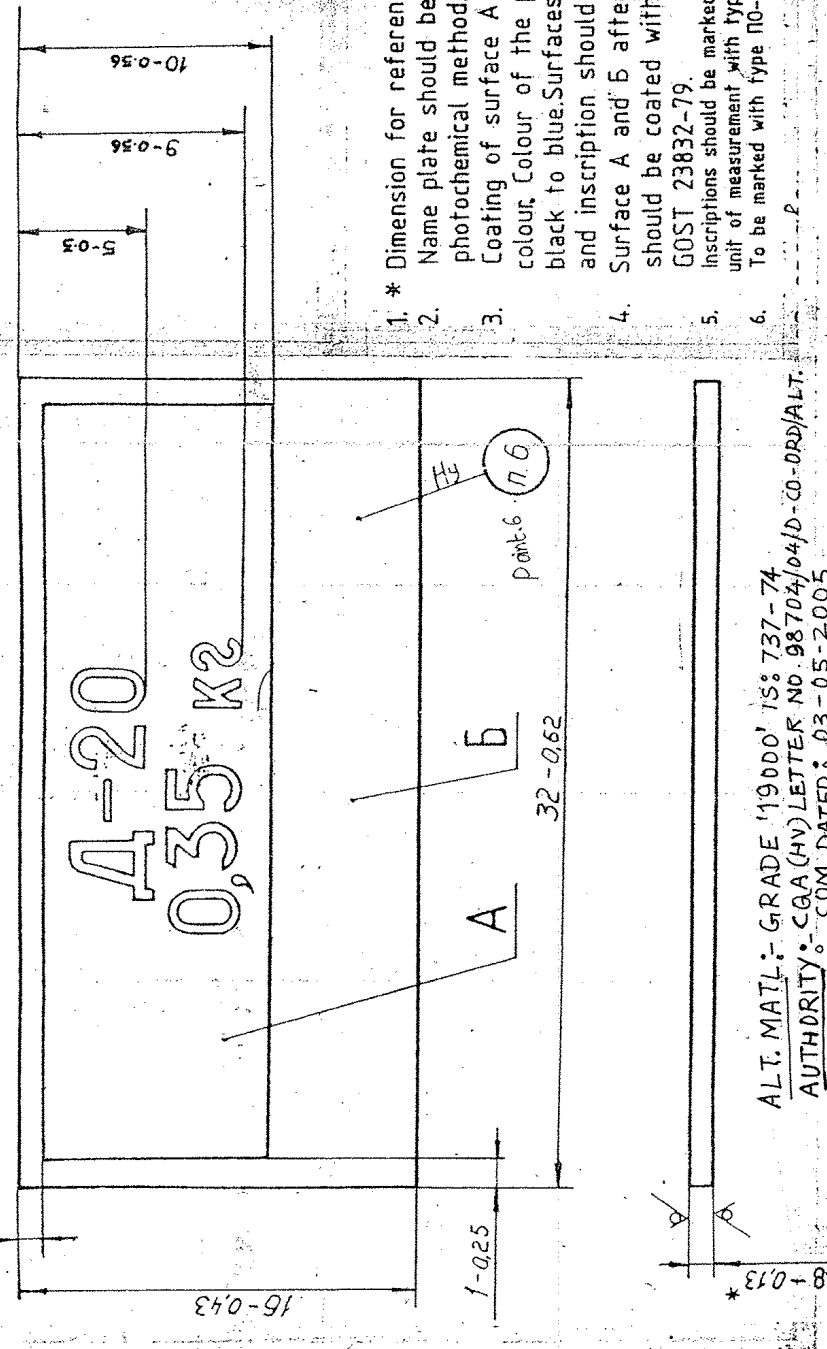
DRAWING NUMBER
A, 20 006

SIZE A4

DRAWING NUMBER
A20 009

Rz80 (✓)

MASTER COPY



- * Dimension for references.
- Name plate should be made by photochemical method.
- Coating of surface A should be uniform in colour. Colour of the paint should be from black to blue. Surfaces, not occupied by photo and inscription should have the colour of metal.
- Surface A and B after applying serial number, should be coated with lacquer AK-113 GOST 23832-79.
- Inscriptions should be marked with type n0.3 designation of unit of measurement with type
- To be marked with type n0-3 and to be poured over with enamel.

ALT. MATL: GRADE '19000' IS: 737-74
AUTHORITY: CGA (HY) LETTER NO. 98704/04/D-CO-DRD/ALT.
COM DATED: 03-05-2005

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

EST. MASS. 0.0011 (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 | in Charge | MATERIAL | USED ON: |
| CHD | Seh | SHEET DIAT-0.8 | A20.000C6 |
| TCD | | GOST 21631-76 | |
| APPD | | CONTROLLERATE OF INSPECTION (HEAVY VEHICLES) | |
| DATE | 18-2-1987 | AVADI | |
| SCALE | 5:1 | TITLE: | |
| DIMENSIONS IN mm | | | |
| TOLERANCE ON DIMNS UNLESS OTHERWISE STATED | | | |
| ALL THREADS CONFORM TO | | | |
| ISSUE | | DATE | |
| NATURE OF AMENDMENTS | | | |

NAME PLATE

D S CAT NUMBER **A20 009**

DRAWING NUMBER **A20 009**