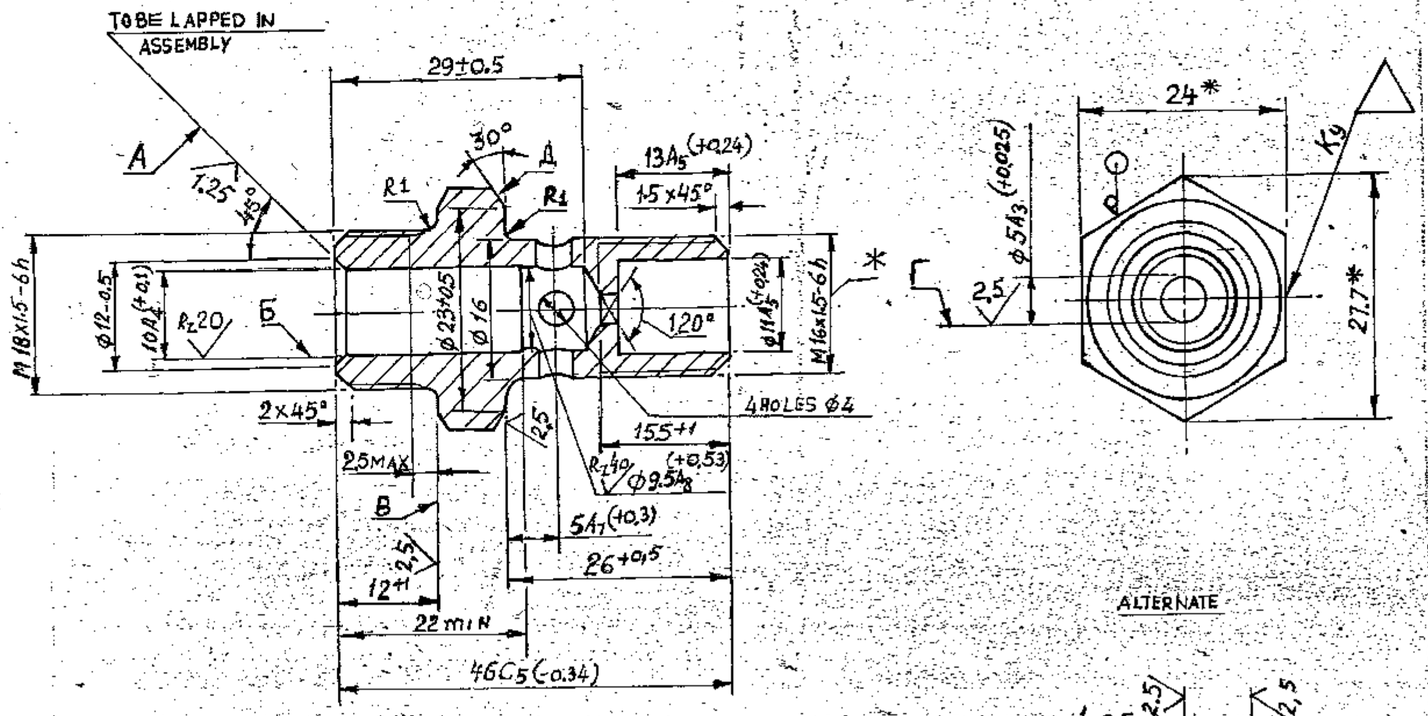
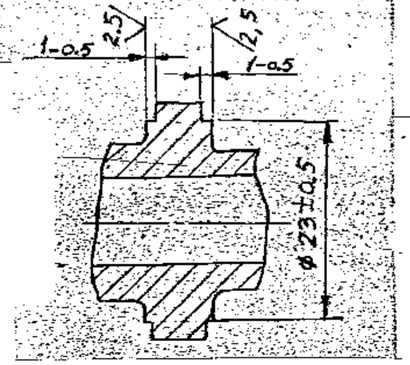
DRAWING NUMBER
322-33-2

∇_4 UNLESS OTHERWISE SPECIFIED.



ALTERNATE



EXPLANATORY NOTE :

MATERIAL QUOTED : 24-5 GOST 8560-78
45 GOST 1050-74

BRIGHT STEEL HEXAGONAL BAR ACROSS FLATS 24 mm.

CLASS OF ACCURACY 5 TO GOST 8560-78.

45 = GRADE OF STEEL.

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

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

(b) MECHANICAL PROPERTIES :

GRADE OF STEEL	YIELD POINT Kgf/mm² (min)	ULTIMATE TENSILE STRENGTH Kgf/mm² (min)	ELONGATION % (min)	REDUCTION IN AREA % (min)	IMPACT STRENGTH Kgf.m/cm² (min)
45	36	61	16	40	5

1. INSPECTION GROUP III AS PER TECHNICAL REQUIREMENTS TT-11 HB 241 TO 207 (d = 3.9 TO 4.2).

DIMENSIONS

2. UNSPECIFIED LIMIT DEVIATIONS OF MACHINING ARE AS FOLLOWS :
   FOR HOLE - AS PER A7.
   FOR SHAFTS - AS PER B7.
   FOR OTHERS - AS PER Cm7.
3. MACHINE SURFACES Б AND Г WITH COMBINATION TOOL.
4. TOLERANCE FOR END PLAY OF SURFACE B WITH RESPECT TO THE ANGLE DIAMETER AXIS OF THREAD SHOULD BE 0.05 mm.
5. TOLERANCE FOR RADIAL RUN-OUT OF CHAMFER A WITH RESPECT TO SURFACE 5 AXIS SHOULD BE 0.02mm.
6. TOLERANCE FOR END PLAY OF SURFACE 'Д' WITH RESPECT TO THE ANGLE DIAMETER AXIS OF THREAD 'Ж' SHOULD BE 0.1mm.
7. WHEN BUTT-ENDS B AND 'Д' ARE FACED, THE SINGLE POINT TOOL MAY CUT ALONG THE CYLINDRICAL SURFACE TO A DEPTH OF NOT EXCEEDING 0.3mm.
8. THREAD 'U' MAY BE MADE BY ROLLING WITH THE DIAMETER OF THE UNTHREADED PORTION FROM BUTT-END 'B' BEING WITHIN THE LIMITS OF THE MEAN DIAMETER OF THREAD OVER THE LENGTH NOT EXCEEDING 2.5mm.
9. * DIMENSION ARE GIVEN FOR REFERENCE.
10. COATING : ZINC-PLATED, 6 MICRONS THICK OILED.
11. USED FOR TROPICAL VERSION IS COATING CADMIUM-PLATED 9 MICRONS THICK, OILED WITH REMOVEL OF HYDROGEN EMBRITTLEMENT.
12. INTERNAL SURFACES MAY HAVE NO COATING.

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

EST. WT.	TO BE STAMPED OR MARKED WHERE INDICATED THUS #
0.06 kg.	(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

DRN
CHD
TCD
APPD
DATE 8-1-90
SCALE 2:1
DIMENSIONS IN mm
TOLERANCE ON DIMNS UNLESS OTHERWISE STATED IS 2102-69
ALL THREADS TO CONFORM TO

MATERIAL :- 24-5 GOST-8560-78 / 45 GOST 1050-74
USED ON :- СБ 322-13-3 / СБ 310-31
CONTROLLERATE OF QUALITY ASSURANCE (HEAVY VEHICLES)
A V A D I

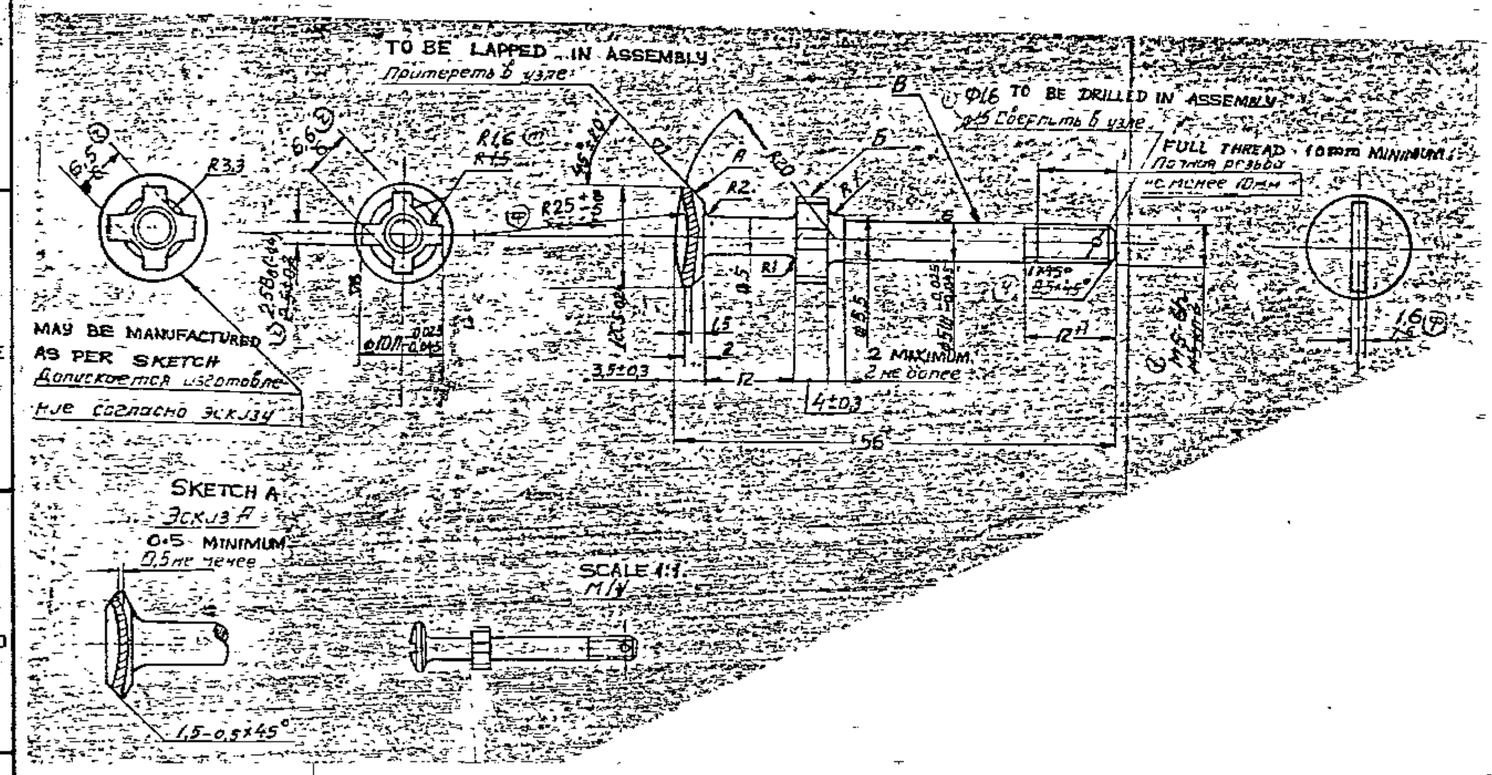
TITLE STARTING VALVE BODY

D S CAT NUMBER

DRAWING NUMBER 322-33-2

SIZE A2

DRAWING NUMBER
322-34-1



INSPECTION GROUP IV IN ACCORDANCE WITH TT-11 HRC = 26-33

SHARP EDGES SHOULD BE BLUNTED.

DIMENSIONS WITH UNSPECIFIED TOLERANCES SHOULD BE MAINTAINED AS PER ACCURACY CLASS 7 OST 1010.

TECHNICAL REQUIREMENTS: FOR THREAD IN ACCORDANCE WITH STANDARD 82021-00.

SHIFT OF SLOT 1.6 mm RELATIVE TO THE AXIS SHOULD NOT EXCEED 0.3 mm.

RUN-OUT OF CHAMFER A RELATIVE TO THE AXIS OF SURFACE 6 SHOULD NOT EXCEED 0.03mm, AND THAT OF SURFACE B RELATIVE TO SURFACE 6 SHOULD NOT EXCEED 0.05mm

VALVE HEAD MAY BE MANUFACTURED AS PER SKETCH A

COATING:- CHEMICAL OXIDIZING, OIL FINISHING.

THREAD MAY BE FORMED BY ROLLING.

FINAL ACCEPTANCE MARK SHOULD BE PUT ON A TAG. FOR A BATCH OF COMPONENTS AND SEALED IN CONTAINER.

(A) ALTERNATE MATERIAL : STEEL 38XC GOST 4543-76

(B) Alt.Material: STEEL 709M40 (EN-19) TO BS-970 Pt-1-1983

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

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

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

∇4 UNLESS OTHERWISE SPECIFIED

EXPLANATORY NOTE :-

MATERIAL QUOTED :- STEEL 38XA GOST 4543-76.

CHROMIUM STEEL GRADE : 38XA , A - INDICATES HIGH QUALITY STEEL.

CHEMICAL COMPOSITION :- %

CONTENT OF ELEMENTS							
C	Si	Mn	Cr	P	S	Cu	Ni
			MAXIMUM				
0·35-0·42	0·17-0·37	0·50-0·80	0·80-1·10	0·025	0·025	0·30	0·30

MECHANICAL PROPERTIES :-

1. HEAT TREATMENT

a) HARDENING OR NORMALIZING TEMPERATURE °C = 860.
COOLING MEDIUM = OIL.

b) TEMPERING TEMPERATURE °C = 550.
COOLING MEDIUM = WATER OR OIL.

2. YIELD POINT kgf/mm² (MIN) = 80.
3. ULTIMATE STRENGTH kgf/mm² (MIN) = 95.
4. RELATIVE ELONGATION % (MIN) = 12.
5. RELATIVE REDUCTION ALONG CROSS SECTION % = 50 (MIN).
6. IMPACT STRENGTH kgf·m/cm² (MIN) = 9.

EXPLANATORY NOTE :-

8. MATERIAL QUOTED STEEL 38XC GOST 4543-76.

CHROMIUM SILICON STEEL.

38XC = GRADE

(a) CHEMICAL COMPOSITION :

C = 0.34 - 0.42 , Si = 1.00 - 1.40 , Mn = 0.30 - 0.60 , Cr = 1.30 - 1.60

P = 0.025 (max) , S = 0.025 (max) , Cu = 0.30 (max) , Ni = 0.30 (max)

(b) MECHANICAL PROPERTIES :

ULTIMATE TENSILE STRENGTH Kgf/mm² = 95 (min)

YIELD POINT Kgf/mm² = 75 (min)

% RELATIVE ELONGATION = 12 (min)

% REDUCTION IN AREA = 50 (min)

IMPACT STRENGTH Kgf.m/cm² = 7 (min)

ISSUE	DATE	NATURE OF AMENDMENTS
B	20-5-09	Authy: Third Alt. Comm. Minutes Point: 2 Dated 27-02-2009.
A	9-12-87	AUTHY: BK-84-498

DRN	
CHD	
TCD	
APPD	
DATE	04-9-86
SCALE	2:1
DIMENSIONS IN mm.	
TOLERANCE ON DIMNS UNLESS OTHERWISE STATED IS 2102-69	
ALL THREADS TO CONFORM TO	
D S CAT NUMBER	

MATERIAL :- STEEL 38XA GOST 4543-76

USED ON :- ~~CG 322-13-3~~ CG 322-13-4

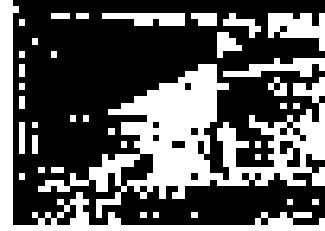
CONTROLLERATE OF QUALITY ASSURANCE (HEAVY VEHICLES)
AVADI

TITLE
STARTING VALVE HEAD

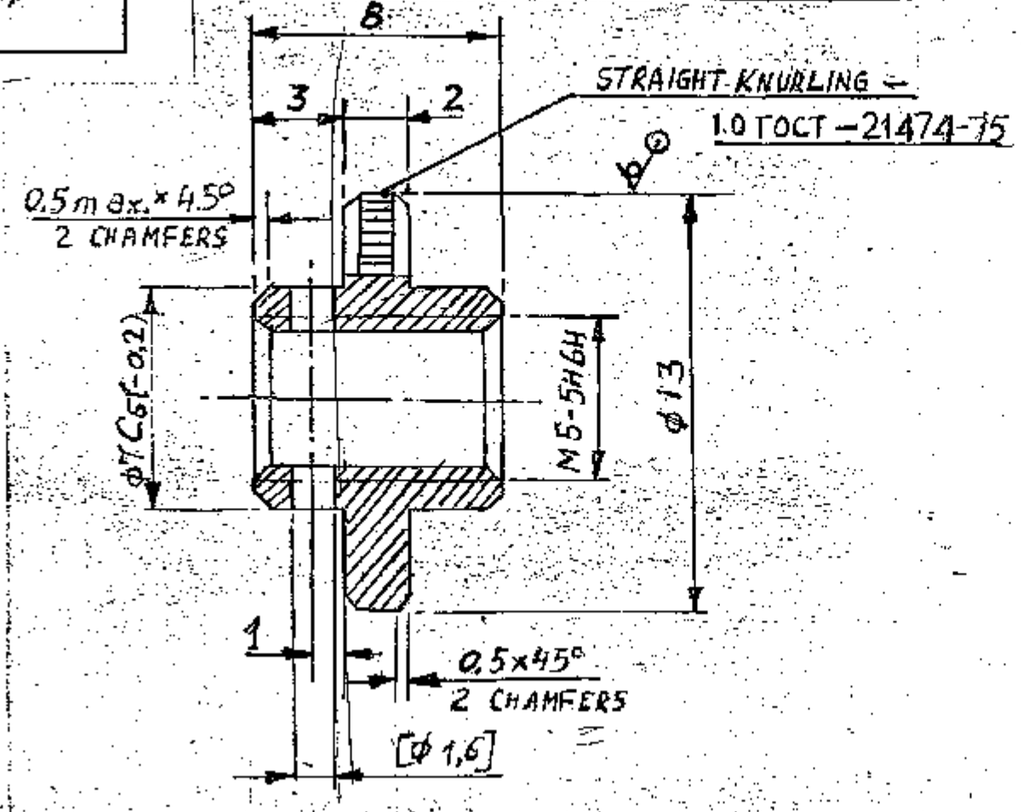
DRAWING NUMBER
322-34-1

KVD No. 63372

SIZE A2



DRAWING NUMBER
322-35



1. ALTERNATE MATERIAL IS STEEL 40, 50, GOST 1050-74.

2. UNSPECIFIED LIMIT DEVIATIONS OF MACHINING DIMENSIGNS ARE AS FOLLOWS FOR HOLES – AS PER A_{7},
SHAFTS – AS PER B_{7}.
OTHERS – AS PER CM_{7}

3. CARRY-OUT MACHINING AS PER DIMENSION GIVEN IN SQUARE BRACKETS IN THE ASSEMBLY.

4. COATING: CHEMICALLY OXIDIZED OILED.

Rz 40 (√)

EXPLANATORY NOTE:-

MATERIAL QUOTED:- 13-5 GOST-7417-75
45 GOST 1050-74

ALTERNATE MATERIAL QUOTED:- 40, 50, GOST 1050-74

SIZED, COLD ROLLED OR COLD DRAWN STEEL WITH 13 mm EXTERNAL DIA, CLASS OF ACCURACY -5 AS PER GOST 7417-75, MANUFACTURED FROM STEEL GRADES 40,45 & 50 GOST 1050-74.

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

GRADE OF STEEL	C	Si	Mn	Cr	P	S	Cu	Ni
				MAXIMUM				
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

MECHANICAL PROPERTIES:- (AS PER GOST 1050-74).

GRADE OF STEEL	TENSILE STRENGTH Kgf/mm²	YIELD POINT Kgf/mm²	% ELONGATION	% REDUCTION IN AREA	IMPACT STRENGTH Kgf.m/cm²
	MINIMUM				
40	58	34	19	45	6
45	61	36	16	40	5
50	64	38	14	40	4

Material: STEEL 709M40 (EN-19) TO BS-970 Pt-I-1983

DRN		MATERIAL:- ~~13-5 GOST 7417-75~~	USED ON
CHD		(A) ~~45 GOST 1050-74~~	SS 322-13-4
APPD			
DATE		CONTROLLERATE OF QUALITY ASSURANCE(HEAVY VEHICLES) AVADI	
SCALE:- 5:1			
DIMENSIONS IN mm			
TOLERANCE ON DIMNS UNLESS OTHERWISE STATED IS:2102-69		TITLE	STARTING VALVE
ALL THREADS TO CONFORM TO		D S CAT NUMBER	DRAWING NUMBER 322-35

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

EST. WT. 0.003 kg

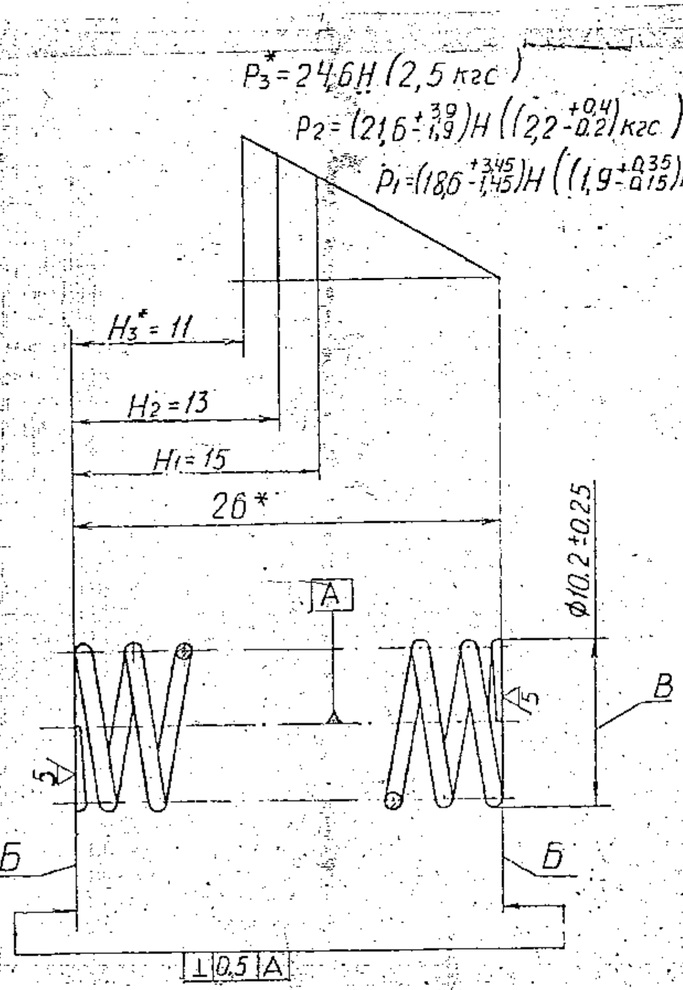
TO BE STAMPED OR MARKED WHERE INDICATED THUS ⏚ (LETTERS)

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

ISSUE	DATE	NATURE OF AMENDMENTS
A	18.5.09	Authy: Third Alt. Comm. Minutes Point 5 Dated 27-02-2009.

SIZE A3

DRAWING NUMBER
322.36.1



TECHNICAL REQUIREMENTS IN RUSSIAN

1. Длина развернутой пружины 290мм.
2. Число рабочих витков 8.
3. Число витков полное 10,5-0,5
4. Толщина конца опорного витка 0,2мм, не менее.
5. Опорные поверхности Б должны составлять 5/8 длины окружности витка, не менее.
6. Допускается увеличение наружного диаметра опорных витков до 10,5мм., не более.
7. Неравномерность шага пружины в свободном состоянии 0,5мм., не более.
8. Зазор между концом опорного витка и соседним рабочим витком 0,2мм, не более.
9. Покрытие Ц15.хр по ИЛ-483-82 с удалением водородной хрупкости.
10. * Размеры и параметры для справок.

TECHNICAL REQUIREMENTS - TRANSLATED

1. Length of developed spring 290 mm.
2. No. of working coils 8.
3. Total no. of coils 10,5 - 0.5 .
4. Thickness of supporting coil end 0.2 mm min.
5. Resting surfaces b should not be less than 5/8 the length of circumference coil, minimum.
6. The outer diameter of supporting coils may be increased up to 10.5 mm max.
7. Variation in pitch should not exceed 0.5 mm max.
8. Gap between supporting coil end and adjacent working coils should not exceed 0.2 mm.
9. Coating, Zn . 15, chromatizing as per UJ -483-82 with elimination of hydrogen embittlement.
10. * Dimensions and parameters for reference.

EXPLANATORY NOTE :-

MATERIAL QUOTED :- WIRE II A-1, GOST 9389-75 CARBON STEEL, COLD DRAWN WIRE USED FOR FABRICATING SPRINGS, COILED IN COLD STATE AND NOT SUBJECTED TO HARDENING.

CATEGORY = IIA, = CATEGORY OF HIGH ACCURACY
WIRE DIA = 1 MM.
WIRE SHOULD BE FABRICATED FROM CARBON STEEL GRADE KT2 and 5K7

CHEMICAL COMPOSITION %.

GRADE	C	Mn	Si	S	P	Cr	Ni	Cu
				MAXIMUM				
KT2	0.86-0.91	0.20-0.40	0.17-0.37	0,020	0.020	0.050	0.050	0.10
5K7	0.68-0.76	0.50-0.80	0.17-0.37	0.030	0.020	0.050	0.050	0.04

MECHANICAL PROPERTIES :-

TENSILE STRENGTH kgf/mm² = 205-250
No. OF BENDS (min) = 10
No. OF TWISTS (min) = 17

(A) EQUIVALENT MATERIAL
Gr. DH/DM IS:4454-2001

DRAWING INDIANISED BASED ON RUSSIAN ORIGINAL ISSUE NIL (BK 84-483)

KVD. 63374

SIZE A2

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

EST. WT.	TO BE STAMPED OR MARKED WHERE INDICATED THUS #
0.02 kg.	(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
A	16-8-10	47th Alt.Comm.Meeting Minutes Point No.13 Dt:26-10-09

DRN	
CHD	
TCD	
APPD	
DATE	29-1-88
SCALE :-	4:1
DIMENSIONS IN mm.	
TOLERANCE ON DIMNS UNLESS OTHERWISE STATED IS 2102-69	
ALL THREADS TO CONFORM TO	

MATERIAL :- WIRE II-A-1,0 GOST 9389-75.

USED ON :- CB.322-13-34

CONTROLLERATE OF QUALITY ASSURANCE (HEAVY VEHICLES) AVADI

TITLE
STARTING VALVE SPRING.

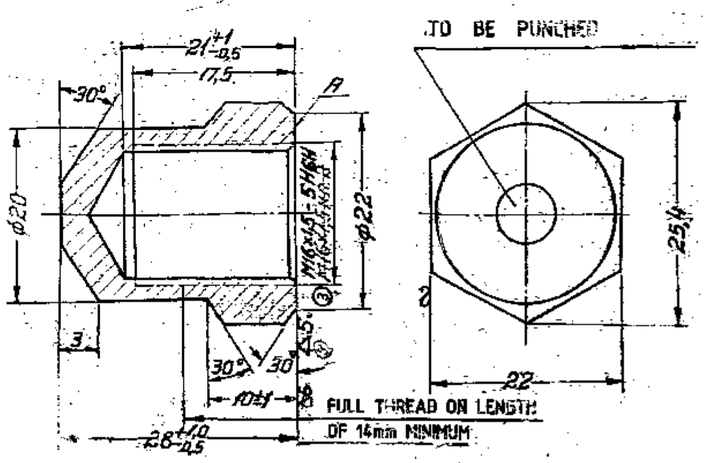
D S CAT NUMBER

DRAWING NUMBER
322-36-1

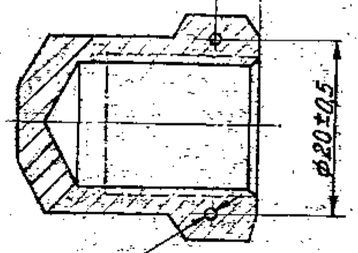
DRAWING NUMBER ~~322-37~~ (B)
322-37-1

▽ 3 UNLESS OTHERWISE SPECIFIED

322-37

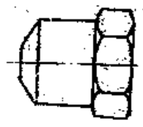


(B) ~~COMPONENT 322-37-1~~



~~FOR THE REST OF THE DATA REFER TO 322-37-~~
(B)

SCALE 1:1
M1:1



1.
2. RUN-OUT OF SURFACE A RELATIVE TO PITCH DIAMETER OF THREAD SHOULD NOT EXCEED 0.1mm.
3. DIMENSIONS WITH UNSPECIFIED TOLERANCES SHOULD BE MAINTAINED AS PER ACCURACY CLASS 7 OST 1010.
4. TECHNICAL REQUIREMENTS FOR THREAD IN ACCORDANCE WITH STANDARD 82021-00.
5. SHARP EDGES SHOULD BE BLUNTED.
7. COATING: ON OUTER SURFACES CV Ni 18, ON INNER SURFACES CV 12. NICKEL IS PERMISSIBLE ON THE THREAD.
   AFTER COPPER PLATING M 12, THE OUTER SURFACE MAY BE COATED WITH CV 18, MILKY.
   ALTERNATE MATERIAL: STEEL GRADES 40 AND 50, GOST 1050-74.

** HEXAGON BAR 22.5 GOST 8560-78 / 45 GOST 1051-73

(A) ALT. MATL:-
STEEL, GRADE En 8 BRIGHT BAR
TO SPEC.N. BS.970-55.

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

EST. WT.	TO BE STAMPED OR MARKED WHERE INDICATED THUS ⌯
0,04 Kg	(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
B	30.6.01	AUTHY.LT.No.90211/AHSP/ED dt 27.3.01
A	20-10-95	AUTHY.LT.NO 90241/AHSP/ENG.DE:26-8%

DRN	
CHD	
TCD	
APPD	
DATE	17-2-88
SCALE :- 2 : 1	
DIMENSIONS IN mm.	
TOLERANCE ON DIMNS UNLESS OTHERWISE STATED IS 2102-69	
ALL THREADS TO CONFORM TO	
D S CAT NUMBER	

MATERIAL :-
** SEE ABOVE
SEE ALT. MATL. (A)

USED ON :- CS 447-00-1
CB 322-13-4 For 322-37-1

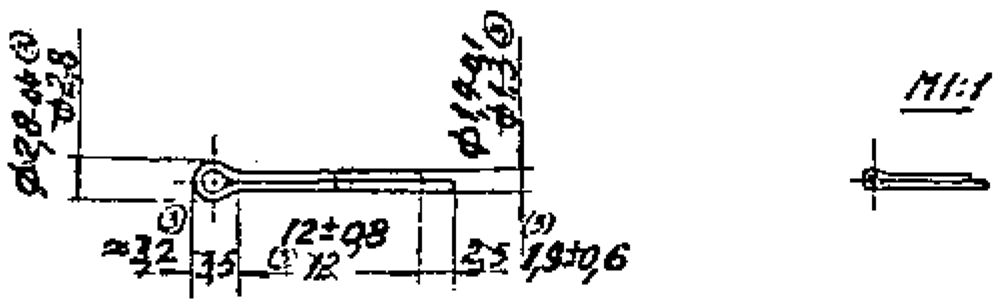
CONTROLLERATE OF QUALITY ASSURANCE (HEAVY VEHICLES)
AVADI

TITLE
STARTING VALVE CAP

DRAWING NUMBER ~~322-37~~ (B)
322-37-1

A7
193

DRAWING NUMBER
354-09



1. COTTER PINS SHOULD BE MANUFACTURED FROM LOW-CARBON STEEL WITH CONTENT OF CARBON NOT EXCEEDING 0.20% AS PER GOST 1050-74.

2. BURRS, CRACKS, RUST AND SHARP CUTS IN THE PLACE OF TRANSMISSION OF HEAD TO THE SHANK ARE NOT ALLOWED ON THE SURFACE OF COTTER PINS.

3. COTTER PINS WITH NOMINAL DIAMETER UPTO 5mm SHOULD WITHSTAND WITHOUT SIGNS OF FRACTURE AND CRACKS NOT LESS THAN 3 BENDINGS.

4. COATING : CADMIUM 3, CHROMATIZING AS PER ЧЦА-116 WITH ELIMINATION OF HYDROGEN EMBRITTLEMENT

5. TO BE ANNEALED.

**
C6 322-13-3
C6 3331-403-2
C6 310-31
C6 3331-401-18
C6 322-133
C6 310-021

A-11-87

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

EST. WT. 1000 PIECE. 0.230 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	
MATERIAL:- ———	USED ON ** USED ON SEE ABOVE

ISSUE	DATE	NATURE OF AMENDMENTS

DRN	SCALE:- 2:1 DIMENSIONS IN mm
CHD	
TCO	TOLERANCE ON DIMENSIONS UNLESS OTHERWISE STATED IS 2102-69
APPD	ALL THREADS CONFORM TO
DATE 15-2-85	
SIZE A4	

CONTROLLERATE OF QUALITY ASSURANCE (HEAVY VEHICLES) AVADI

TITLE: COTTER PIN

D.S. CAT NUMBER

DRAWING NUMBER 354-09

EXPLANATORY NOTE:

Material Quoted: Low carbon steel carbon content 0.20% (max) as per gost 1050-74.

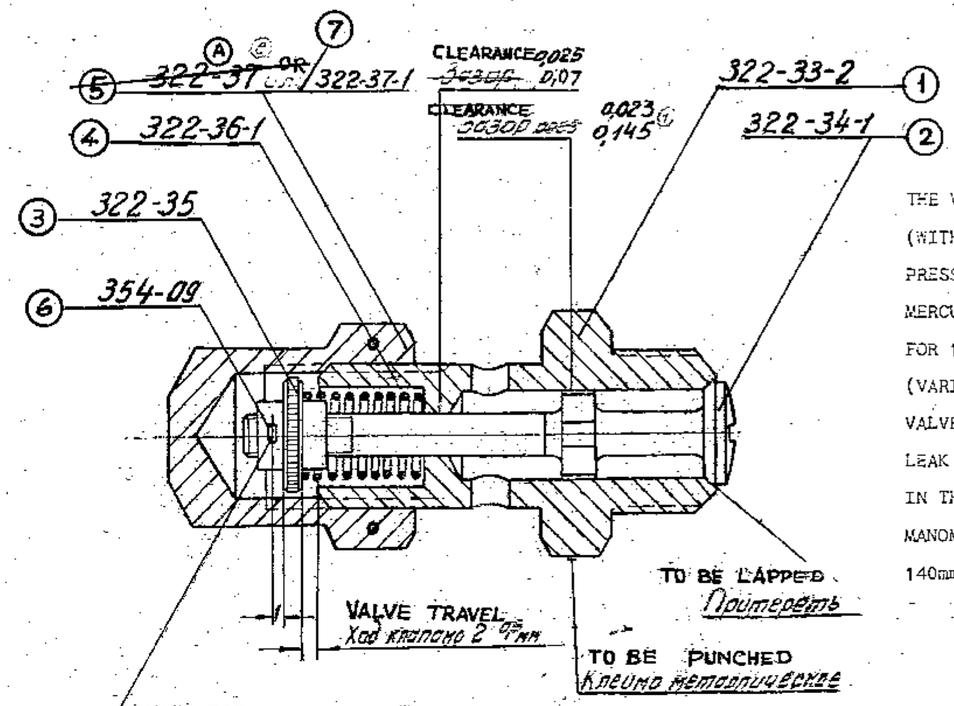
Chemical composition

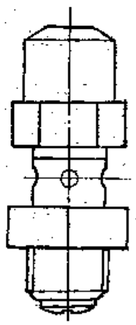
carbon	: 0.12 - 0.19	sulphur	: 0.040
silicon	: 0.17 - 0.37	Phosphorus	: 0.035
Manganese	: 0.35 - 0.65	Nickel	: 0.25
chromium	: 0.25 Max.	copper	: 0.25

Mechanical Properties.

Ultimate tensile strength kgf/mm²	: 38	(Min)
Yield point kgf/mm²	: 23	
Elongation %	: 27	
Reduction in area %	: 55	

DRAWING NUMBER (A)
~~CB322-13-3~~, CB322-13-4





M1:1
SCALE 1:1

THE VALVE SHOULD BE PRESSURE-TESTED ON A SPECIAL STAND WITH AIR (WITH INTERMEDIATE VOLUME NOT EXCEEDING 2500cm^3 BEFORE MERCURY PRESSURE GAUGE) AT A PRESSURE OF 5±1 kgf/cm^2
MERCURY COLUMN MAY RISE BY 5mm MAX. IN ONE LEG OF A MANOMETER TUBE FOR 10 SECONDS
(VARIATION IN HEIGHT OF COLUMNS SHOULD NOT EXCEED 10mm)
VALVE COMPONENTS SHOULD BE DRY DURING PRESSURE TESTING.
LEAK PROOFNESS OF VALVE MAY BE CHECKED BY WATER PRESSURE GAUGE.
IN THIS CASE WATER COLUMN MAY RISE BY 70mm MAX. IN ONE LEG OF MANOMETER TUBE VARIATION IN HIEGHT OF COLUMNS SHOULD NOT EXCEED 140mm)

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

EST. WT. 0.117 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.

ISSUE	DATE	NATURE OF AMENDMENTS
A	30.6.01	AUTHY LL.No. 90211/AHSP/ED dt 27.3.01

DRN
CHD
TCD
APPD
DATE 17-2-88
SCALE :- 2 : 1
DIMENSIONS in mm.
TOLERANCE ON DIMNS UNLESS OTHERWISE STATED IS 2°02-59
ALL THREADS TO CONFORM TO

MATERIAL :-

USED ON :- CB-20-22-00-7, ~~CB-3300-00-26~~, CB-310-00-7, CB-322-00-4

CONTROLLERATE OF QUALITY ASSURANCE (HEAVY VEHICLES)
AVADI

TITLE
STARTING VALVE ASSY

D S CAT NUMBER -

DRAWING NUMBER (A)
~~CB.322-13-3~~
CB.322-13-4

USED ON

CB-20-22-00-7 ~~CB 3300-00-26~~
CB 310-00-7 , ~~CB 322-00-4~~

ITEM	DRAWING NUMBER	D S CAT NUMBER	DESCRIPTION	No. OFF	REMARKS
Ⓐ	~~CB 322-13-3 &~~				
	CB 322-13-4		STARTING VALVE ASSY		
	& ITEM LIST				
1	322-33-2		BODY OF STARTING VALVE	1	
2	322-34-1		STARTING VALVE HEAD	1	
3	322-35		STARTING VALVE NUT	1	
4	322-36-1		STARTING VALVE SPRING	1	
Ⓐ ~~5~~	~~322-37~~		~~STARTING VALVE CAP~~	~~1~~	~~REFER S.L.NO 7~~
6	354-09		COTTER PIN 1.6x12 GOST 397-79	1	
7	322-37-1		STARTING VALVE CAP	1	

ISSUE	DATE	NATURE OF AMENDMENTS	ISSUE	DATE	NATURE OF AMENDMENTS
A	30.6.01	AUTHY LT. No. 9021/AHSP/ED dt 27.3.01			

DRN		CONTROLLERATE OF QUALITY ASSURANCE (HEAVY VEHICLES) AVADI.	
CHD		TITLE: STARTING VALVE ASSY	
TCD			
APPD			
DATE	17-2-88	SHT. No.1 OF 1	D S CAT NUMBER
			ITEM LIST FOR Ⓐ ~~CB 322-13-3 &~~ CB 322-13-4

A-7