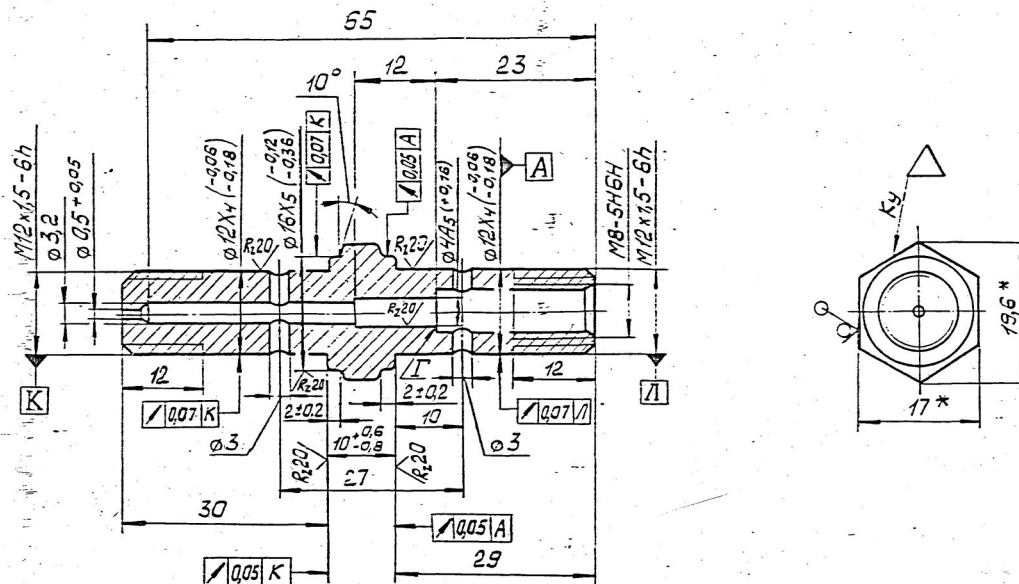


DRAWING NUMBER

20-29-64



## EXPLANATORY NOTE :-

MATERIAL QUOTED : 45XGOST 4543-71

45X = GRADE OF STEEL.

CHEMICAL COMPOSITION %

CARBON = 0.41 - 0.49

SILICON = 0.17 - 0.37

MANGANESE = 0.50 - 0.80

CHROMIUM = 0.80 - 1.10

PHOSPHORUS = 0.035

SULPHUR = 0.035

COPPER = 0.30

NICKEL = 0.30

} MAXIMUM

MECHANICAL PROPERTIES :

ULTIMATE TENSILE STRENGTH  $\text{Kgf/mm}^2 = 105$  (MIN)

% RELATIVE ELONGATION = 9 (MIN)

YIELD POINT  $\text{Kgf/mm}^2 = 85$  (MIN)

% REDUCTION ACROSS SECTION = 45 (MIN)

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

- Alt. Matl. is STEEL 40X GOST 4543-71.
- HRC 26 TO 30.
- UNSPECIFIED LIMIT DEVIATIONS OF DIMENSIONS ARE AS FOLLOWS.
  - FOR HOLES - AS PER A7
  - FOR SHAFTS - AS PER B7
  - FOR OTHERS - AS PER CM7
- EDGE  $\nabla$  SHOULD BE SHARP WITHOUT BURRS AND NICKS.
- COATING : CADMIUM PLATED, 9MICRONS THICK, OILED  
ZINC-PLATING 12 MICRONS THICK OILING IS PERMITTED.
- ABSENCE OF THE COATING ON THE INTERNAL SURFACES IS PERMITTED.
- \* DIMENSIONS ARE GIVEN FOR REFERENCE.

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

EST. WT.	TO BE STAMPED OR MARKED WHERE INDICATED THIS ≠
0.055 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.

(13A) EQUIVALENT MATERIAL STEEL 709M40  
(EN19) BS:970/40Cr4Mo3 IS:1570

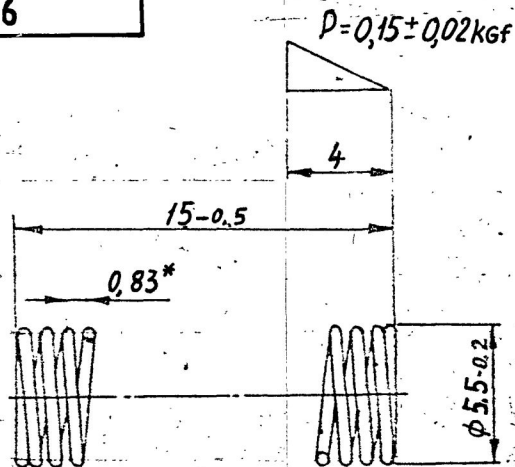
DRN	Uth	MATERIAL :-	USED ON :-
CHD	32-8-10	45X GOST 4543-71.	CE 20-29-59
TCD			
APPD			
DATE	17-3-90	CONTROLLERATE OF QUALITY ASSURANCE (HEAVY VEHICLES)	
SCALE	- 2:1	A V A D I	
DIMENSIONS IN mm.		TITLE	
TOLERANCE ON DIMNS UNLESS OTHERWISE STATED IS 2102-69		NON-RETURN VALVE BODY	
ISSUE	DATE	NATURE OF AMENDMENTS	D S CAT NUMBER
13A	32-8-10	4 <sup>th</sup> Alt. Comm. Meeting Minutes	
13		Revised No. 11 Dt: 26-10-09	
		1437-81	
			DRAWING NUMBER
			20-29-64

EXPLANATORY NOTE ADDED ON 27-5-92

SIZE A2



DRAWING NUMBER  
1227-76



1. TOTAL SPRING LENGTH L IS APPROXIMATELY 270 mm.
2. NO. OF WORKING COILS - 15.
3. TOTAL NUMBER OF COILS - 17.5.
4. COILING DIRECTION IS ARBITRARY.
5. RESIDUAL DEFORMATION IS NOT ALLOWED, AFTER THE SPRING IS COMPRESSED TO BRING THE COILS IN FULL CONTACT WITH ONE ANOTHER.
6. EXTERNAL DIAMETER OF BEARING COILS MAY BE INCREASED UP TO 5.7 mm.
7. WIRE LAMINATION IS NOT ACCEPTABLE WHEN THE MANUFACTURED PART IS TESTED FOR TWISTING.
8. COATING CHEMICALLY OXIDIZED, OILED.
- 9.\* DIMENSION IS GIVEN FOR REFERENCE.

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

EST. WT. 0.0002 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: <i>Balashov</i>	MATERIAL: WIRE II - 0.5	USED ON
CHK: <i>Balashov</i>	GOST 9389-75.	CB 20-29-59
TCD: <i>Balashov</i>	CONTROLLERATE OF QUALITY ASSURANCE (HEAVY VEHICLES)	
APPD: <i>Balashov</i>	AVADI	
DATE: 30-12-87	TITLE	
SCALE: 5:1	SPRING	
DIMENSIONS IN mm	D S CAT NUMBER	DRAWING NUMBER
TOLERANCE ON DIMNS UNLESS OTHERWISE STATED IS: 2102-69		
ALL THREADS TO CONFORM TO		1227-76
ISSUE DATE	NATURE OF AMENDMENTS	

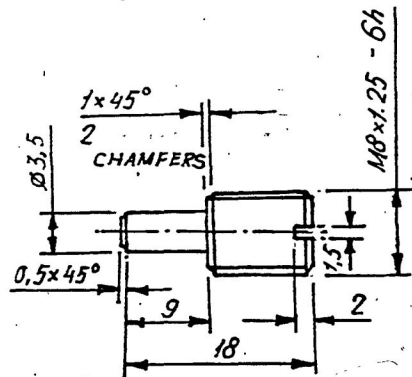


SIZE A3



DRAWING NUMBER

3314-65



1. UNSPECIFIED LIMIT DEVIATIONS OF DIMENSIONS ARE AS FOLLOWS: FOR HOLES - AS PER A7  
SHAFTS - AS PER B7,  
OTHERS - AS PER C7

2. COATING: CHEMICALLY OXIDIZED, OILED.

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

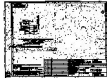
EST. WT. TO BE STAMPED OR MARKED WHERE INDICATED THIS  $\equiv$  ( LETTERS)

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

DRN	<i>14/11/2</i>	MATERIAL:-	USED ON
CHK	<i>17/3/90</i>	45 GOST 1050-74	SE 20-29-59
TEC	<i>17/3/90</i>	CONTROLLERATE OF QUALITY ASSURANCE (HEAVY VEHICLES)	
APPD	<i>17/3/90</i>	AVAZI	
DATE	17-3-90	TITLE	
SCALE:-	2:1	SCREW	
DIMENSIONS IN mm		D S CAT NUMBER	
TOLERANCE ON DIMS UNLESS OTHERWISE STATED IS 2102-69		DRAWING NUMBER	
ALL THREADS TO CONFORM TO		3314-65	
ISSUE DATE	NATURE OF AMENDMENTS		



SIZE A3



DRAWING NUMBER  
**C6 20-29-59**

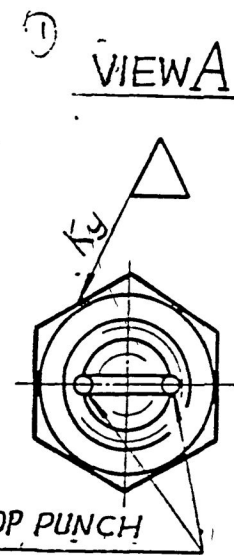
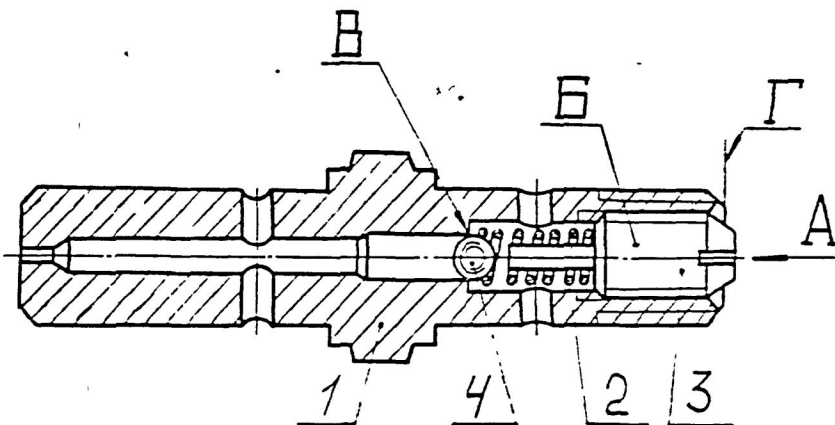
EXPLANATORY NOTE : FOR ITEM No: 4

MATERIAL BALL 5  $\sqrt{5}$  mm  
 P , GOST 3722-60.

CHEMICAL COMPOSITION : % AS PER GOST 801-78

Gde	C	Si	Mn	Cr	S	P	Ni	Cu	Ni&Cu
MAXIS	0.95-1.05	0.17-0.37	0.20-0.40	1.30-1.65	m a x i m u m				
					0.20	0.027	0.30	0.25	0.50

ULTIMATE TENSILE STRENGTH  $\sigma_{0.2}$  Kgf/mm<sup>2</sup>  
 ( GOST 4727-83 )



1. BLUNT SHARP EDGE B USING A BALL UNTIL A CHAMFER IS OBTAINED.
2. TURN SCREW B TILL IT IS ALIGNED WITH PLANE  $\Gamma$  OF BODY 1, THEN BACK OUT THE SCREW THROUGH ONE REVOLUTION.
3. SUBJECT THE VALVE TO A PRESSURE TEST FROM THE SIDE OF THE SPRING, THE VALVE BEING IN THE HORIZONTAL POSITION FEEDING DIESEL FUEL UNDER A PRESSURE OF 0.05 TO 0.15 MPA (0.5 TO 1.5 KGf/cm<sup>2</sup>) FOR TWO MINUTES.

4. STOP PUNCH AFTER CHECKING (SEE VIEW A)

KVD No.63504

PILOT SAMPLE SHOULD BE APPROVED BY A H S P BEFORE BULK PRODUCTION		<table border="1"> <tr><td>EN</td><td><i>[Signature]</i></td></tr> <tr><td>DR</td><td><i>[Signature]</i></td></tr> <tr><td>TC</td><td><i>[Signature]</i></td></tr> <tr><td>APPD</td><td><i>[Signature]</i></td></tr> <tr><td>DATE</td><td>17-3-90</td></tr> <tr><td>SCALE</td><td>2:1</td></tr> </table>		EN	<i>[Signature]</i>	DR	<i>[Signature]</i>	TC	<i>[Signature]</i>	APPD	<i>[Signature]</i>	DATE	17-3-90	SCALE	2:1	MATERIAL:-	USED ON C6 20-29-00-8
EN	<i>[Signature]</i>																
DR	<i>[Signature]</i>																
TC	<i>[Signature]</i>																
APPD	<i>[Signature]</i>																
DATE	17-3-90																
SCALE	2:1																
EST. WT. 0.045 kg.		TO BE STAMPED OR MARKED WHERE INDICATED THIS $\equiv$ ( LETTERS)		CONTROLLERATE OF QUALITY ASSURANCE-HEAVY VEHICLES AVADI													
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SIZE A3





