



EXPLANATORY NOTE

MATERIAL QUOTE: STEEL 38 X C
 COST: 4543-71
 38 X C CHROMIUM SILICON QUALITY STEEL

CHEMICAL COMPOSITION:

GRADE OF STEEL	CONTENT OF ELEMENTS %							
	C	Si	Mn	P	S	Cu	Ni	
38 X C	12.3-	1.4-	0.30-	0.035	0.035	0.30	0.30	
	12.42	1.43	0.60	1.61				
	MAXIMUM							

MECHANICAL PROPERTIES

GRADE OF STEEL	YIELD POINT Kgf/mm ²	ULTIMATE TENSILE STRENGTH Kgf/mm ²	RELATIVE ELONGATION %	RELATIVE REDUCTION ALONG CROSS SECTION	IMPACT STRENGTH Kgf/cm ²
38 X C	75	95	12	51	7

- INSPECTION GROUP III AS PER TT-11.
- HRC 28 — 32.
- UNSPECIFIED LIMIT DEVIATIONS OF DIMENSIONS HOLES AS PER H 14, SHAFTS AS PER h 14, OTHERS ± IT 14.
- THE FACE SPLINES SHOULD BE CHECKED WITH A SPECIAL GAUGE IN 3 POSITIONS THROUGH 120° ON A MANDREL WHICH IS MADE TO SUIT MAXIMUM DIMENSION ON THE MATING COMPONENT.
- ENGAGEMENT OF SPLINES SHOULD BE ACCEPTED AS PER TEST SPECIMEN.
- RELATIVE POSITION OF SURFACE B IS TO BE CHECKED BY SPECIAL GAUGE GAUGE MANUFACTURED AS PER MAXIMUM DIMENSIONS OF MATING COMPONENTS.
- COATING, CHEMICAL OXIDIZING OIL FINISHING.
- TO BE MARKED ON TAG FOR THE BATCH OF COMPONENTS WITH SEALING.
- * DIMENSIONS TO BE CHECKED BEFORE ROLLING FACE SPLINES.
- * 1 DIMENSIONS TO BE ENSURED WITH TOOL.
- HARDNESS MAY BE CHECKED ON BLANK ON EACH HEAT TREATED BAR BHN 255 — 285.
- SLOT MAY BE MADE AS PER ALTERNATIVE 2 INSTEAD OF ONE FROM HOLE B.

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

EST. MASS 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

ISSUE	DATE	NATURE OF AMENDMENTS	MATERIAL: STEEL 38XC COST 4543-71	USED ON: 3 406 16-2, 3 406 17-2
CONTROL RATE OF QUALITY ASSURANCE HEAVY VEHICLES			A V A D I	
TITLE: VALVE DISC LOCK			DRAWING NUMBER: 306-48-7	





