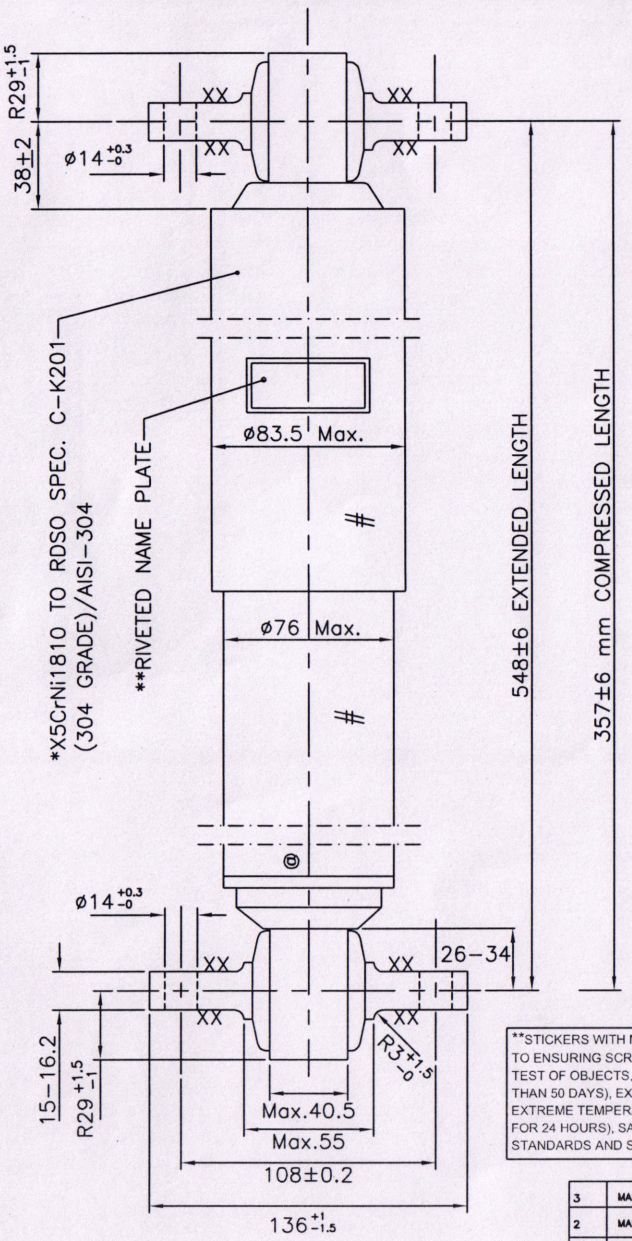

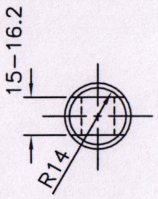

END VIEW OF PIN

DAMPER TESTING AT 26°±5°C

1	STROKE	50	mm
2	NO. OF REVOLUTIONS	115	min-1
3	VELOCITY	0.30	m/s
4	FORCE	8000±15% (WITHOUT ATTACHMENT) OR 8000±20% (WITH ATTACHMENT)	N
5	TORSIONAL ANGLE	±22° (Min.)	DEG
6	CARDANIC ANGLE	±10° (Min.)	DEG

NOTE:-

1. Marking Particulars

MARKING ON RIVETED NAME PLATE	PUNCHED/ENGRAVE MARKING ON DUST COVER/CASING TUBE (#)
* NAME OF THE MANUFACTURER. * MONTH & YEAR OF MANUFACTURING. * MANUFACTURER PART NUMBER. * SERIAL NO. OF DAMPER. * NOMINAL FORCE & NOMINAL VELOCITY. * NAME/TYPE OF DAMPER AS MENTIONED IN RDSO DRAWING ALONGWITH RDSO DRAWING NUMBER.	* NAME OF MANUFACTURER OR CODE. * MONTH & YEAR OF MANUFACTURING. * MANUFACTURER PART NUMBER. * NOMINAL FORCE & NOMINAL VELOCITY. * NAME/TYPE OF DAMPER AS MENTIONED IN RDSO DRAWING.

2. ENGRAVED/PUNCHED MARKING IN 10 TO 8 MM HEIGH LETTERS WITH MINIMUM DEPTH OF 0.25 MM.
3. XX-SURFACES ZINC PLATED & FREE OF PAINTING.
4. DAMPER IS MOUNTED IN HORIZONTAL POSITION.
5. DURING FITMENT ON BOGIE, NAME PLATE SHOULD BE DIAMETRICALLY OPPOSITE TO ENGRAVING / PUNCHING.
6. PAINT SHADE TO RAL 9005 (JET BLACK) ON DAMPER ALONGWITH DUST COVER.
7. @ MANUFACTURER SHOULD ENGRAVE THE WORD "DOWN" / "BELOW" ON THE FACE OF CASING TUBE WHICH WILL BE TOWARDS GROUND / FLOOR DURING FITMENT (SIZE OF ENGRAVING : MIN. 10 MM).
8. SUPPLIER SHOULD SPECIFY THE RADIAL STIFFNESS OF END CONNECTIONS IN THEIR DRAWING ALONG WITH PROPER TOLERANCE AND SUBMIT THE DRAWING FOR APPROVAL.
9. TEST ANGLE OF DAMPER SHOULD BE 10 DEGREE FROM HORIZONTAL AXIS.
10. SUPPLIER SHOULD VISIT ANY PU/WORKSHOP/RAILWAY TO SEE THE INTERFACES IN THE BOGIE/COACH, BEFORE DESIGNING NEW DAMPER OR MAKING ANY CHANGE IN DRAWING/DESIGN OF EXISTING DAMPERS.
11. *ANY ALTERNATE MATERIAL OF DUST COVER CAN BE ACCEPTED, IF IT QUALIFIES THE SURFACE PROTECTION CRITERIA MENTIONED IN RDSO SPECIFICATION RDSO/CG-18005 REV. 1 OR LATEST.

**STICKERS WITH MINIMUM SERVICE LIFE OF 6 YEARS MAY BE PERMITTED, SUBJECT TO ENSURING SCRATCH RESISTANCE TEST, INFLUENCE OF DETERGENT TEST, IMPACT TEST OF OBJECTS, TROPICAL ENVIRONMENT TEST (40°C & 98 % HUMIDITY FOR MORE THAN 50 DAYS), EXTREME TEMPERATURE TEST (70°C FOR MORE THAN 46 DAYS), EXTREME TEMPERATURE CHANGE TEST (8 CYCLES: 100°C FOR 24 HOURS AND - 45°C FOR 24 HOURS), SALT SPRAY TEST (AT LEAST 1200 HRS) AS PER APPLICABLE STANDARDS AND SUBMITTED THE TEST REPORT TO RDSO.

ALT.	DESCRIPTION	DATE
3	MARKING HEIGHT AND DAMPER TESTING TEMPERATURE MODIFIED.	25.06.25
2	MARKING PARTICULARS & COLOUR CORRECTED AS PER REVISED SPECIFICATION.	07.08.23
1	PROVISION OF ALTERNATE MATERIAL OF DUST COVER & STICKER AS ALTERNATE OF RIVETED NAME PLATE, MODIFICATION IN TOLERANCE OF DAMPING FORCE, REMOVE THE HEIGHT OF LETTERS ON NAME PLATE & THICKNESS OF BARREL TUBE, MODIFICATION IN COLOUR SCHEME OF DAMPER.	12.10.21

ITEM	DESCRIPTION & DIMENSIONS	No. OFF	REF.DRG.	WT. OF ONE (KG)	MTL. & SPEC.	REMARKS
					RDSO/CG-18005 REV. NIL	
1	DAMPER					

SUPERSEDED BY:-

ASSEMBLY DRGS. SUPERSEDES:-

REFERENCE:-

SCALE 1:2 P C D J.S. VDG/13/2025

CDIC NO.:- B.G. R.D.S.O. (CG)

INDIAN RAILWAYS

LHB TYPE COACHES

SECONDARY LATERAL DAMPER FOR FIAT BOGIES WITH AIR SPRING

RDSO/CG/DRG/21049

Signature Not Verified

Digitally signed by SAMEER KUMAR
Date: 2025.07.07 12:56:27 IST
Reason: IREPS-CRIS
Location: New Delhi