

INDIAN RLYS.
RDSO(MP)APPLICABLE FOR
WDG4D LOCO.

SPRING SINGLE COIL

SPRING DATA

1	BAR DIAMETER-mm	34.25
2	FREE HEIGHT-mm	581
3	SOLID HEIGHT-mm (max)	329.76
4	TOTAL NO. OF TURNS	10
5	NO. OF ACTIVE TURNS	8.3
6	STATIC LOAD-kg	4518
7	SPRING RATE Kg/mm	30.67
8	STATIC HEIGHT-mm	434

TOLERANCES

1	VARIATION IN FREE HEIGHT-mm	± 13.49
2	VARIATION IN LOADED HEIGHT WITH WORKING LOAD-mm	$+3$ -7
3	VARIATION IN SOLID HEIGHT	± 2.36
4	OUT OF SQUARENESS OF SPRING (max.)	1.35°
5	PARALLELISM OF THE GROUND ENDS TO BE WITHIN	0.9°

PAIRING OF SPRINGS ①

GROUP	COMPRESSED HEIGHT MEASURED AT 4518 kg LOAD		COLOUR TO BE PRINTED
	FROM	TO	
A	427	430	GREEN
B	Above 430	434	BLUE
C	Above 434	437	BROWN

NOTE:—

1. END SQUARED, TAPERED AND GROUND PERPENDICULAR TO AXIS OF THE SPRING.
SPRING CONFORM TO AIR SPECIFICATION M-114 (REV. LATEST), EXCEPT FOR MATERIAL AND SHOWN TOLERANCES.

2. SHOT PEEN AS PER EMS-71.

3. MARKING AS MATERIAL GRADE, MANUFACTURE INITIAL, MONTH & YEAR AND LAST FOUR DIGITS OF DRAWING NO. TO BE HOT STAMPED ON BOTH TAPERED ENDS.

4. SPRING MATERIAL GRADE & SPECIFICATION: SAE/AISI 8650H AS PER EMS-71.

ALTERNATIVE MATERIAL GRADE & SPECIFICATION: GR-51CV4 AS PER EN:10089.

5. DIRECTION OF WINDING: RIGHT HAND/LEFT HAND.

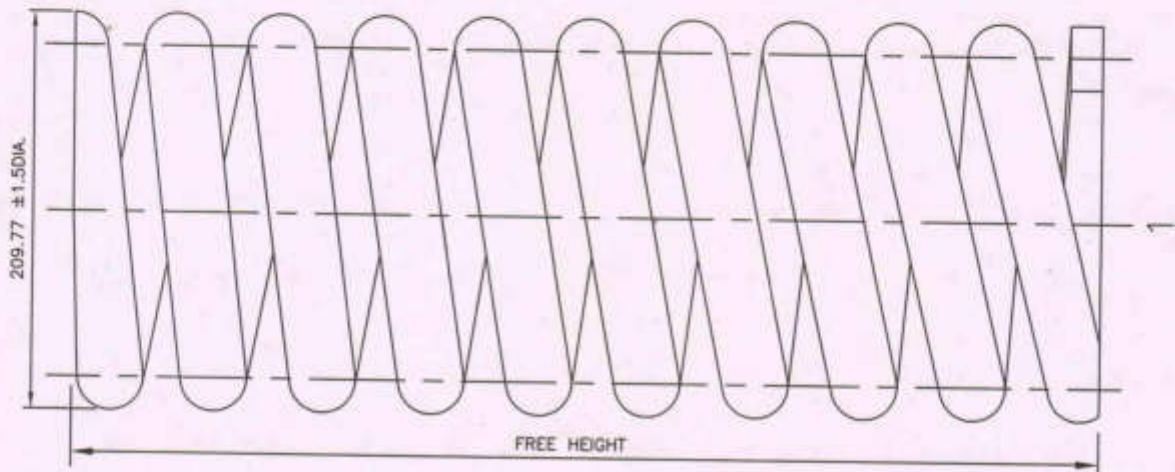
6. SPRING PERFORMANCE SHALL CONFORM TO EDPS-108.

7. TOLERANCE ON UNTOLERANCE DIMENSION SHALL BE AS PER A.I.2400.

8. THE SPRING SHALL BE COATED WITH POWDER COATING AS BELOW:

a) PRIOR TO POWDER COATING, THE SPRING SHALL BE SUBJECTED TO HOT PHOSPHATE TREATMENT OF ZINC PHOSPHATE AS PER IS:3618 (LATEST) TO GET GRADE-'B' COATING OF 4.3 gm/m^2 (MINIMUM).

b) THE EPOXY POLYESTER POWDER SHALL CONFORM TO GRADE-'C' TO IS:13871(LATEST). THE COLOUR OF THE COATING AFTER CURING SHALL BE JET BLACK CONFORMING TO RAL 9005.

Signature Not
VerifiedDigitally signed by
SIDDHARTH
KESHARI NARAYAN
Date: 2026.04.10
12:44:34 IST
Reason: IREPS-CRIS
Location: New Delhi

②	1	NOTE NO. 8 ADDED.	VDG-1088	FEB'16	1	PRIMARY SPRING	24	37.05	SEE NOTE 4
①	3	SOLID HEIGHT 329.76 mm WAS 322.89mm. VARIATION IN SOLID HEIGHT DELETED. PAIRING OF SPRING MODIFIED	VDG-992	APRIL'13	REF: I.R. NO. PART NO.	DESCRIPTION	NO./1000	Wt/Kg EACH	MATL: SPEC:
ALT:	NO.OF PLACES	REF. NO.	DESCRIPTION	ALT. NOTE NO.	DATE	SCALE = 1:3.5	REF: NIL	DRG. NO. SK.VL-755	FIRST ISSUED
								SUPERSEDES	SUPERSEDED BY