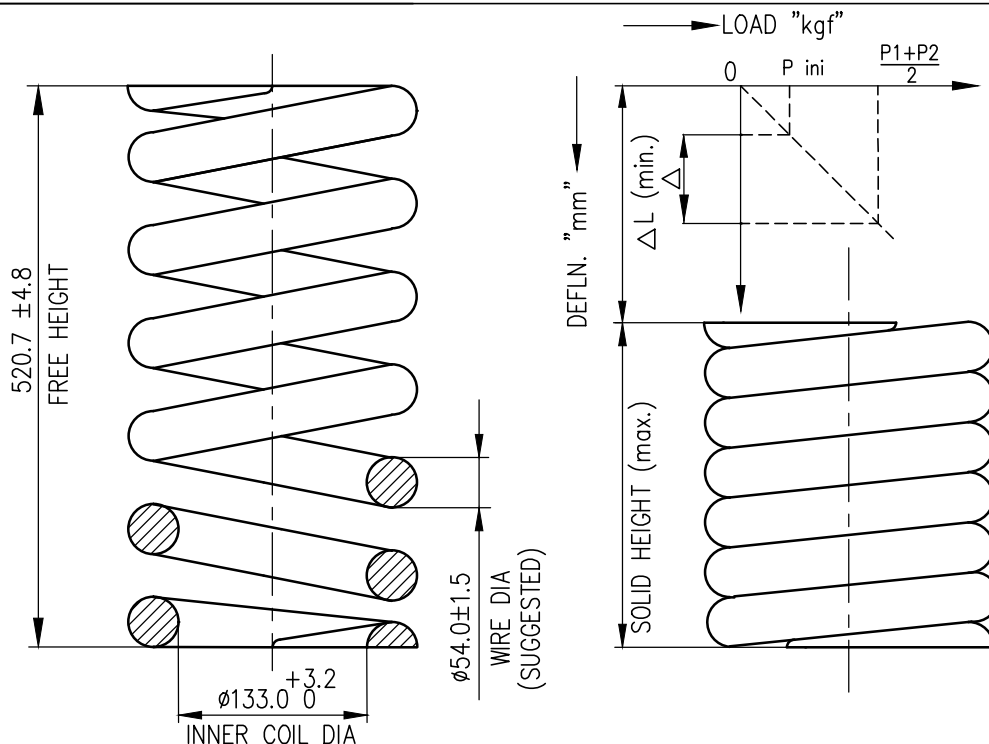


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It must not be used directly or indirectly in any way detrimental to the interest of the company.



ROW	DESCRIPTION	UNITS	VALUE
01	SPRING NUMBER		5107910E
02	OUTSIDE DIA. MAX. LIMIT	(mm)	298.0
03	SPRING RATE ($\pm 4\%$)	(Kg/mm)	214.259
04	SOLID DEFLECTION ΔL min.	(mm)	124.0
05	INITIAL LOADING P_{ini}	(Kgs)	3985.2
06	TEST DEFLECTION Δ	(mm)	86.8
07	LOAD AT TEST DEFLECTION	P_1 MIN.	(Kgs) 21657.0
		P_2 MAX.	(Kgs) 23508.8

ROW	DESCRIPTION	UNITS	VALUE
08	TILT DEFLECTION	(mm)	105.4
09	EFFECTIVE NO.OF COILS	NOS	$6.1 - 0.5^0$
10	SPRING WEIGHT	(Kgs)	77.70
11	PITCH	(mm)	75.2 ± 2.0
12	DEVELOPED LENGTH OF ROD	(mm)	4352
13	RAW MATERIAL DIA x LENGTH	(mm)	60 x 5600
14	RAW MATERIAL WEIGHT	(Kgs)	124.294
15	PROCESS OF MANUFACTURE	HOT COILING	

NOTES:

1. MANUFACTURE & WORKMANSHIP SHALL BE IN ACCORDANCE WITH APPLICABLE PROCEDURE FOR IBR SPRINGS AND DESIGNED FOR SAFETY VALVE APPLICATIONS ONLY.
2. FREE HEIGHT, SPRING RATE & SOLID DEFLECTION SHOULD BE MAINTAINED AND OTHER PARAMETERS TO BE DECIDED BY SPRING VENDOR, ACCORDING TO THE MATERIAL MENTIONED IN THIS DRAWING.
3. ACCEPTABLE SPRING MATERIALS TO ATTEST:
ASTM A681-H12/H21 OR BS 4659-BH12/BH21
4. SPRING VENDOR IS RESPONSIBLE FOR STRESS RELIEVING, TEMPERING AND OTHER HEAT TREATMENTS AND CONTROLS TO INSURE MINIMUM STRESSED SPRINGS.
5. TEST CERTIFICATE TO BE OBTAINED WITH THE INSPECTING AUTHORITY APPROVED UNDER IBR 1950.
6. SPRINGS SHALL BE ALUMINIZED, USING EITHER BAKED-ON PAINT OR MOLTEN ALUMINIUM.

REV.	ALTD:	REV.	ALTD:	
02	CHKD:	01	CHKD:	R.P.J 21.05.13
	APPD:		APPD:	S.M 21.05.13
				E.A 21.03.13
		NOTES UPDATED DCP.No.801440		

	NAME	SIGN	DATE
DRAWN	RPJ		11.01.2012
CHECKED	RPJ		11.01.2012
APPROVED	EA		11.01.2012
TITLE			
SPRING			
DRG No.			REV.
4-V-J791-23808			01