



ROW	DESCRIPTION	UNITS	VALUE
01	SPRING NUMBER		5107480E
02	OUTSIDE DIA. MAX. LIMIT	(mm)	254.0
03	SPRING RATE ($\pm 4\%$)	(Kg/mm)	394.66
04	SOLID DEFLECTION ΔL min.	(mm)	63.5
05	INITIAL LOADING P_{ini}	(Kgs)	3759.1
06	TEST DEFLECTION Δ	(mm)	44.5
07	LOAD AT TEST	P_1 MIN.	(Kgs) 20428.4
	DEFLECTION	P_2 MAX.	(Kgs) 22175.1

ROW	DESCRIPTION	UNITS	VALUE
08	TILT DEFLECTION	(mm)	54.0
09	EFFECTIVE NO.OF COILS	NOS	$4.7^{+0}_{-0.5}$
10	SPRING WEIGHT	(Kgs)	70.3
11	PITCH	(mm)	71.8 ± 2.2
12	DEVELOPED LENGTH OF ROD	(mm)	3443
13	RAW MATERIAL DIA x LENGTH	(mm)	$\phi 60 \times 4837$
14	RAW MATERIAL WEIGHT	(Kgs)	-
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. 02	ALTD:	REV. 01	ALTD:
	CHKD:		CHKD:
	APPD:		APPD:

	DRAWN	S.S	SIGN	DATE
	CHECKED	R.R		24.07.2018
	APPROVED	S.M		24.0
TITLE SPRING				
DRG No. 4-V-J748-23864				REV. 00