



TECHNICAL SPECIFICATION FOR PLUNGER SPRING
TFS:1002/REV.00

1.0 Scope:

Design, manufacture and supply of Plunger springs used in Tilt mechanism assembly of windboxes.

2.0 Purpose

The plunger springs are loaded to the shear failure mechanism. In case of shear pin failure due to overloading of power cylinder, the plunger is activated by the plunger spring to lock the mechanism in stay-put position.

3.0 Technical parameters

3.1 Spring Outside Diameter	16 mm
3.2 Hole Diameter around spring	25 mm
3.3 Wire Diameter (mm)	*
3.4 Load At Solid Length	112 N
3.5 Free Length	45 mm
3.6 Solid Length	20 mm
3.7 Rate	4.48 N/mm
3.8 Rod Diameter	9.5 mm
3.9 Active Coils	~ 9
3.10 Total Coils	~ 11
3.11 Finish	Passivate as per ASTM A967 ULTRASONICALLY CLEANED
3.11 Material	SS316

**Vendor to specify*

4.0 Documents required

Vendor shall submit dimensional drawing and point-wise confirmation to the specification.

5.0 Inward Inspection

Visual inspection

Dimensional check

Prepared	Checked	Approved
Dheeraj Kumar	GSK	MTP

CONTROLLED COPYSL. No. 2NAME J. Sivasubramanian

Standard Purchase Specification for 'SCP' (Spares Centre
'P' Category) Items.

Spare Code : NAME OF THE COMPONENT SCP NO. 13101

Material Code: 96 356 078 OIL GUN HANDLE Rev. No. 01

Indigenous: SPRING Effective Date : 25.1.96

Imported : Issued by : AGM/Spares Signature J. Sivasubramanian

- 1.0 Applicable PGMA : 41-350
- 2.0 Applicable Drg.No. with Rev. No. & Date : 4-41-000-00842
- 3.0 Specification : SPEC. NO. 13101
- 4.0 Supply condition of Matl. : As per Spec.
- 5.0 Vendors to be contacted : As per approved Vendor's List
- 6.0 Remarks : Latest revision of Spec. & Drg. to be used.
Spec.TOS 610 in Drg. is to be ignored.

Note on Revision 01 : Totally revised.

NAME DATE
SIGNATURE

PREPARED BY C.HAMID Hamid 24.01.96

CHECKED BY T.S.SIVASUBRAMANIAN

T.S.Sivasubramanian 24.1.96

APPROVED BY K.Y.PRABU

K.Y.Prabu 24.1.96

SPRING FOR FUEL OIL GUN HANDLE

1. Item Name & BHEL Material Code :
Oil Gun Handle Spring : Code 96 356 078
2. Drawing Number:
4-41-000-0842
3. Material: 4 mm diameter spring steel - EN 42
4. Type of Ends : Plain and ground
5. Spring shape Pick-arm type as per dwg.
6. Coil ID - 17 mm minimum
7. Coil OD - 35 (+0.5 - 0.0 mm)
8. Number of coils - 9 approx.
9. Free length 83 mm
10. Surface Finish - Chrome plated.
11. Marking:
Name tags bearing maker's name, item name, BHEL material code and quantity shall be enclosed in each packet.
12. Packing:
Quantities of 12 to be sealed in thick polythene covers with name tags and placed in cardboard boxes. These cardboard boxes then to be packed in Wooden cases.
13. Inward Inspection:
Verify name tag & finish;
Perform random dimensional check.
14. Along with quotation submit point by point reply to this specification enclosing necessary data and brochures evaluate technical conformity.

Vendors : Southern Springs; Hindustan Spring Mfg. Co.
Meghalayas Springs, Wriston Agencies;
International Industrial Springs.

PREPARED BY
C.HAMID

CHECKED BY
T.S.SIVASUBRAMANIAN.

APPROVED BY
K.V. PRABU.

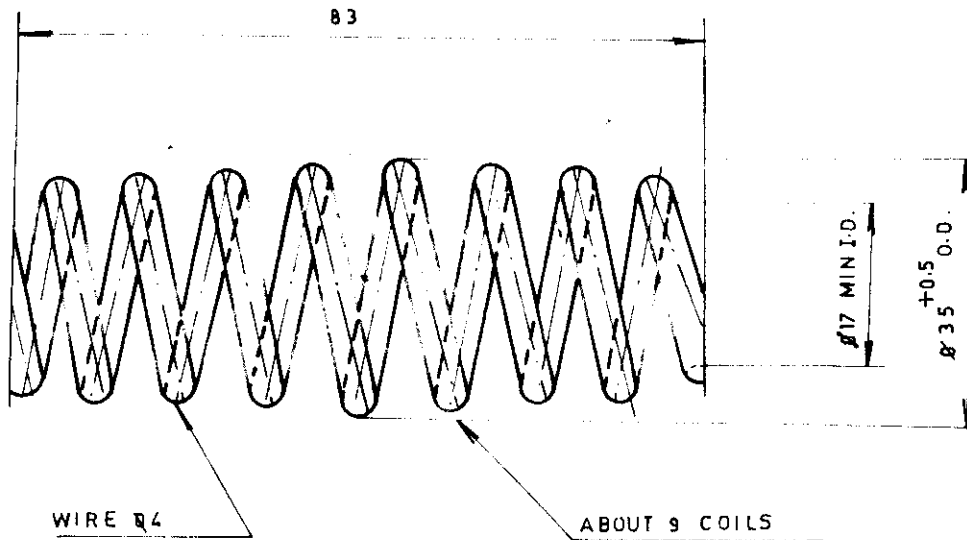
Handwritten signature of C. Hamid

Handwritten signature of T.S. Sivasubramanian

Handwritten signature of K.V. Prabhu

FIRST ANGLE PROJECTION (ALL DIMENSIONS IN MILLIMETRES)

REV	11-05-84	DESIGN	K. Selvam	REV	02	DATE		REVIEWED	
		CHECKED	N. Handa					CHECKED	
TITLE & DWGNO UPDATED; NOTES ADDED									

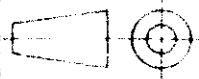


NOTES

- SPECIFICATION NUMBER - TOS 610
- MATERIAL CODE - 96-356-078
- MATERIAL SPRING STEEL - EN 42
- FINISH-CHROME PLATED

SCP NO 13101

Scp/13101

 Bharat Heavy Electricals Ltd., BOILER PLANT UNIT TIRUCHIRAPALLI-620 014	DRN	NAME	SIGN	DATE
	EC 010	K. Selvam	K.S	11-05-84
	APED	K.C	N. Handa	May 84
UNIT OF MEAS. DIM C.M.F		SCALE	WEIGHT (kg)	REF TO ASSY / OLD DRG
				8-799 658
TITLE		CARD CODE	DRAWING NO	
OIL GUN HANDLE SPRING		U 01	4-41-000-00842	
			REV	
			01	

A typical picture of the Oil gun handle spring is attached.



The spring ID of 17 mm shall be maintained at the two ends to fit into a M16 bolt, whereas the Maximum spring OD at approximately the centre can go upto 35 mm. The spring wire diameter shall be 4 mm.