



**DALMIA CEMENT (B) LIMITED – CEMENT PLANT  
ARIYALUR  
INSTRUMENTATION MANUAL**



Issue No. 01	Rev. No: 02	Effective Date: 20.09.2017	INST/SOP/28
Issued By: M.R		Approved By: HOD - INSTRUMENTATION	
SOP for Pneumatic Solenoid valve servicing			

**Scope:** Servicing of Pneumatic solenoid valve

**Responsibility:** Instrumentation technician.

**Accountability:** Instrumentation - Section Engineer.

**PPE:**

- Safety helmet
- Safety shoe
- Nose Mask
- Goggles

**Tools required:**

- Insulated Screw Driver
- Hand Blower
- Allen key set
- Circlip Plier

1. Use the Proper PPE before servicing the solenoid valves.
2. Use proper tools for dismantling and assembling the solenoid valve.
3. Use Proper tray/appropriate tray/appropriate container to collect the waste generated during cleaning with diesel.
4. Clean the solenoid valve with diesel and use only required quantity to save our resources.
5. After completing the job dispose the diesel at designated place.



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**JOB SAFETY ANALYSIS :( JSA)**

<b>Job Safety Analysis</b>	Job: Dismantling and Erection of control panel	Date:20.09.2017	Analysis by: Section Engineer	Reviewed by: Section Head
Title of employee doing job: INST – Technician	Supervisor: SECTION ENGINEER	Department: INSTRUMENTATION	Section: RM/PYRO/CM /CRUSHER	Approved by: HOD
Req'd/recommended PPE: SAFETY HELMET, SAFETY SHOES, GOGGLES, DUST MASK, HAND GLOVES				
Sequence of Basic Job Steps	Potential Hazards	Recommended Safe Job Procedure	What Could Go Wrong	Corrective Action
REMOVE THE EXITING SOLENOID VALVE S	HAND INJURY DURING TOOLS HANDLING	USE THE SPECIFIC INSULATED TOOLS FOR THE DESIGNATED JOB	TOOLS MAY SLIP	CHECK THE CONDITION OF TOOLS BEFORE USE
SOLENOID VALVE SERVICING	HAND INJURY DURING TOOLS HANDLING	USE THE SPECIFIC INSULATED TOOLS FOR THE DESIGNATED JOB	TOOLS MAY SLIP	CHECK THE CONDITION OF TOOLS BEFORE USE
DIESEL/GREASE MAY SPILL ON FLOOR	PERSON MAY SLIP/FALL ON FLOOR	USE THE CONTAINER FOR SERVICING THE SOLENOID VALVES	CONTAINER MAY LEAK	CHECK THE CONTAINER BEFORE USE
COMPRESSURE AIR LEAK	HEAVY AIR PRESURE HIT ON THE BODY	USE THE PROPER FITTINGS AND WEAR THE GOGGLE AND HAND GLOVE	AIR LEAK THROUGH FITINGS	USE THE ISOLATION VALVES AT AIR INLET AND OPEN THE AIR SLOWLY AND CHECK THE LEAKAGE