

PRODUCTION DEPARTMENT

STANDARD OPERATING PROCEDURE					
Department: Production	SOP No.:				
Title: Cleaning and Operation of Induction Cap Sealer Machine(Make: CVC)	<b>Effective Date:</b>				
Supersedes: Nil	Review Date:				
Issue Date:	Page No.:				

Vernacular SOP: No

#### 1.0 OBJECTIVE:

1.1 To lay down a procedure for cleaning and operation of induction cap sealer machine (Make: CVC)

#### 2.0 SCOPE:

2.1 This SOP is applicable for cleaning and operation of induction cap sealer machine (Make: CVC) in production.

### 3.0 RESPONSIBILITY:

3.1 Technical Associate : Operation and cleaning

3.2 Officer and Executive : Supervision for cleaning and operation3.3 Officer and Executive IPQA : Line clearance and SOP Compliance

3.4 Head Production : SOP Compliance

#### **4.0 DEFINITION (S):**

4.1 NA

#### **5.0 PROCEDURE:**

- 5.1 Cleaning procedure for batch to batch or product to product changeover.
- 5.1.1 Ensure that all the materials of previous batch are removed
- 5.1.2 Remove "EQUIPMENT STATUS" label and affix "TO BE CLEANED" label on the machine with date and sign of the production officer.
- 5.1.3 Switch "OFF" the electric supply before start the cleaning activity of machine
- 5.1.4 Clean the operator panel, cooling vents, sealing coil and all the outer surface of machine with dry lint free cloth.
- 5.1.5 If any sticky material available on sealing coil, rejection swipe arm and conveyor belt wipe with lint free cloth moisten with 70% v/v IPA solution.
- 5.1.6 Replace the "TO BE CLEANED" status label by "CLEANED" status label on the machine with date and sign of the production officer.
- 5.1.7 Record the cleaning activity in equipment usage log as per SOP ("Making entries in equipment usage and cleaning log sheet").
- 5.1.8 If machine is ideal for more than 72 hrs. Then clean the machine with lint free cloth dipped in 70% v/v IPA solution



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5.2	Settings and operation of Induction sealer machine.			
5.2.1	Turn "ON" the main electric supply of machine and then turn	"ON" the switch from operator		
	panel			
5.2.2	Press the start button from operator panel which will activate the i	machine for operation and swipe		
	arm moves inward			
5.2.3	Place a bottle with closure below the sealing coil.			
5.2.4	Adjust the vertical crank to maintain the clearance between the b	ottom of the coil and top of the		
	cap.			
5.2.5	Slide the bottle from one end to other end under the induction se	ealing coil to check the uniform		
	clearance			
5.2.6	Uniform spacing to be achieved from one end to the other end of the	•		
5.2.7 Loosen the coil mounting clamp lever and adjust the sealing coil to centerline and then tigh				
	coil mounting clamp lever.			
5.2.8	Setting for No foil Sensor:			
5.2.8.1	Place a properly tighten bottle with cap(with foil) under the 'No fo	il sensor'		
5.2.8.2	5.2.8.2 Adjust the 'No foil sensor' so that it is in center of the bottle.			
5.2.8.3	Adjust the height of the 'No foil sensor' so that the LED indicator	on the sensor glows.		
5.2.8.4 Adjust the position of 'bottle present sensor' that when a bottle without foil pass under the				
	sensor' it to be reject by the rejection system and fall into rejection	box.		
5.2.9	Setting of Fallen bottle sensor:			
5.2.9.1	Place a bottle on conveyor belt.			
5.2.9.2	Set a ray light emitted by sensor on bottle neck.			
5.2.9.3	Now pass a fallen bottled on conveyor belt.			
5.2.9.4	Fallen bottle must be rejected by pusher and fall into rejection box.			
5.2.10	Setting of Cross cap Sensor:			
5.2.10.1	Take a bottle with properly tight closure on it.			
5.2.10.1 Place bottle on conveyor belt and set the 'cross cap sensor' that it emit the ray of light just ab				
the upper surface of closure.				
5.2.10.3	When a cross capped bottle pass through the sensor it rejected by	rejection system and it fall into		
2.2.10.3	rejection box.	Joenson System and it fair life		
	rejection box.			



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5.2.11	Setting of Burn seal sensor:					
5.2.11.1	Set the height of IR Sensor according to the height of bottle.					
5.2.11.1	Press the push reset button twice then red indicator will glow and y	allow indicator will blink				
5.2.11.3	Now seal the bottle by setting the induction power as per limit give					
3.2.11.3	seal of bottle and pass the sealed bottle again below the sealing coi					
	place the bottle below the IR sensor.	and stop the conveyor ben and				
5.2.11.4	Then teach the sensor by pressing the push reset button for single ti	me				
5.2.11.5	So green indicator will glow which indicates that machine is ready					
3.2.11.3	Note: All bottles used for setting of machine should be segregated					
	activity.	and desiroy after completion of				
5.2.12	After completion of sealing activity press the stop button from ope	rator nanel to stop the operation				
3.2.12	and it will move the swipe arm forward.	rator paner to stop the operation				
5.2.13	Turn off the power switch from operator panel which will cut	off the electric power of the				
3.2.13	machine.	off the electric power of the				
5.2.14	Now turn off the main Power switch of main.					
5.3	Challenge test for cross cap sensor:					
5.3.1	Take a capped bottle having cross cap and pass it through the 'cross	s cap sensor'				
5.3.2	It must be rejected.					
5.3.3	Record the observation in Annexure-I("Challenge test for induction	n cap sealer machine").				
5.4	Challenge test for fallen bottle sensor:					
5.4.1	Pass a fallen bottle on conveyor belt through the fallen bottle senso	r.				
5.4.2	It must be rejected.					
5.4.3	Record the observation in Annexure-I ("Challenge test for induction	n cap sealer machine").				
5.5	Challenge test for without foil sensor:					
5.5.1	Affix a cap (i.e. without foil) on bottle and mark them with pen ma	rker.				
5.5.2	Place the marked bottle on conveyor belt before without foil sensor					
5.5.3	It must be rejected.					
5.5.4	Record the observation in Annexure-I("Challenge test for induction	n cap sealer machine").				
5.6	Challenge test for burn seal sensor:					
5.6.1	Take a properly capped bottle mark it with pen marker and pass it u	under the induction sealer two to				

three times.



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- 5.6.2 It must be rejected.
- 5.6.3 Record the observation in Annexure-I ("Challenge test for induction cap sealer machine").

#### Note:

- (1) Destroy the tablets/Capsules of burn seal challenge test bottles at the end of activity.
- (2) The challenge test shall be performed at every start up, after four hours and at the end of process.

#### 6.0 ABBREVIATION (S):

- 6.1 SOP Standard Operating Procedure
- 6.2 HMI Human Machine Interface
- 6.3 IPA Isopropyl alcohol
- 6.4 v/v- Volume by Volume
- 6.5 SPD Speed
- 6.6 ORT BLT SPD Orientating Belt Speed

# 7.0 RERERENCE (S):

- 7.1 SOP No.: Status labeling
- 7.2 SOP No.: Making entries in equipment usage and cleaning log sheet.

# 8.0 ANNEXURE (S):

Annexure no.	Tittle of Annexure	Format No.	Mode of Execution
Annexure - I	Challenge test for induction cap sealer machine		Format

### 9.0 **DISTRIBUTION:**

9.1 **Master Copy** : Quality Assurance

9.2 **Controlled Copy (S)**: Production Department (01), Quality Assurance (01)

9.3 **Reference Copy (S)**: Production Department (01).

# 10.0 Revision History:

S.No.	Version No.	Change Control No.	Reason (s) for Revision	Details of Revision	Effective Date



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# ANNEXURE I

# CHALLENGE TEST FOR INDUCTION CAP SEALER MACHINE

PRODUCT NAME: BATCH No					o.:			
DATE	TIME	Sensor			Checked by Production	Verified by QA		
		# Cross Cap	# Fallen Bottle	# Without Foil	# Bur	nt Seal		

FREQUENCY: AT EVERY START UP, AFTER EVERY FOUR HOURS AND AT END OF OPERATION

<sup>#</sup> Mark 'OK' in observation if bottle 'rejected' & Mark 'not ok' in observation if bottle not rejected.