

QUALITY ASSURANCE DEPARTMENT

MACHINE NAME	: AUTOMATIC EIGHT	
	HEAD VIAL SEALING MACHINE	
CLIENT NAME & ADDRESS	:	
MODEL NO.	:	
DOCUMENT NAME	: FACTORY ACCEPTANCE TEST	
DOCUMENT NO.	:	
MACHINE SR. NO.	:	
REVISION NO.	: 00	
WORK ORDER NO.	:	
PO. NO. & DATE	:	



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## FACTORY ACCEPTANCE TEST FOR AUTOMATIC EIGHT HEAD VIAL SEALING MACHINE

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#### FACTORY ACCEPTANCE TEST FOR AUTOMATIC EIGHT HEAD VIAL SEALING MACHINE

#### 1.0 SYSTEM DESCRIPTION

**Automatic Eight Head Vial Sealing Machine** is compact in design and versatile in its own. The machine is precisely built on sturdy structure fabricated from M.S. and dully covered with stainless steel sheet to match the cGMP norms. This machine is used to seal the duly stoppered vial filled with either liquid or powder. This machine can handle vial ranging from 2 ml to 100 ml having 13, 20 & 32 mm seals as per the requirement of customer with the help of change parts and accessories.

It works on the basic principle of sealing the duly stoppered vial. The machine works from left to right direction i.e. when vials are charged from the left hand side of the machine they are driven via conveyor belt between the rotating chuck and lifting assembly.

This machine is equipped with some latest feature like online compression pressure indication system and online rejection system. In rejection system following vials are rejected.

- 1. Different Flip off Color.
- 2. Low or high pulse value then the set value.
- 3. Raised or No stoppered vials at in feed machine stop.

This machine is also equipped with automatic height adjustment system in which by just inserting the value of height required in the HMI the upper turret height gets adjusted. By introducing this system now, the operator need not to change the height manually. A senor is provided at the top of the bowl containing seals which checks the level of seal in the bowl. It gives an alarm on the HMI Screen. Due to this feature now the operator can know easily when there is a less quantity of seal in the bowl.

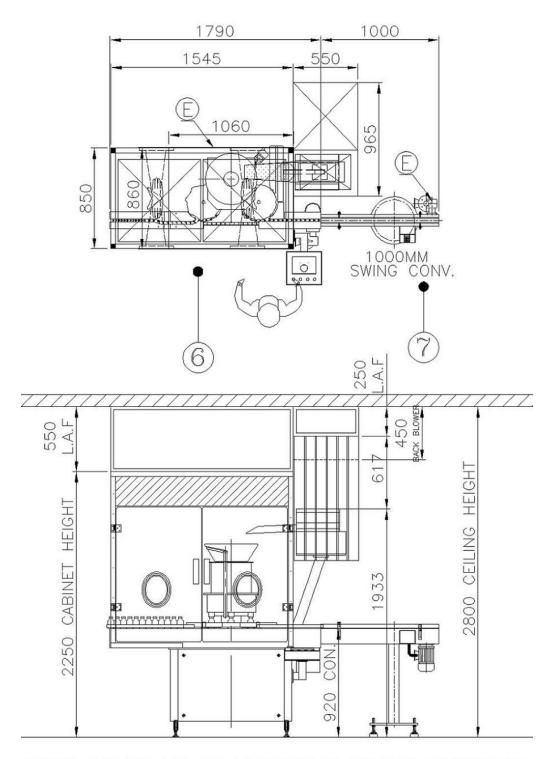
This machine is fully Automatic machine. Special care has been taken in wiring of the machine.



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### 2.0 SCHEMATIC DIAGRAM



THERE MAY BE ±20 MM VARIATION IN MENTION DIMENSIONS



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### 3.0 SYSTEM CHECKS

#### 3.1 PHYSICAL CHECKS

METHOD	DESCRIPTION	ACCEPTANCE CRITERIA	OBSERVATION	SIGN/DATE
Outer Surface	Check Outer	-Matt finish		
finish	surface of	-Curved corner		
Verification	machine	-No dent		
		-No visible spot of		
		welding.		
Document	Verification of	-As per wiring		
Verification	Wiring diagram	diagram attached in		
		FAT.		
Document	Verification of	-As per Screen Short		
Verification	Input / Output	attached in DQ.		
	connection			
Document	Verification of	-MOC of all contact		
Verification	MOC certificate	and component		
		mentioned in BOM or		
		test certificate from		
		manufacturer		
		/accredited test lab.		
Panel	Panel positioning	Control panel		
Positioning		positioning is		
verification		assessable and at		
		standard visible		
		height.		
Machine	Verification with	As per attached		
Dimension	machine	Layout drawing in		
		FAT.		



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#### 3.2 MECHANICAL DRAWING VERIFICATION

S.No.	DRAWING NAME	DRAWING No.	OBSERVATION	SIGN/DATE
1.	MACHINE LAYOUT	001		
2.	PINION SHAFT ASSEMBLY	002		
3.	TURRET ASSEMBLY	003		
4.	LIFTER MECHANISM ASSEMBLY	004		
5.	CHUCK MECHANISM ASSEMBLY	005		
6.	LIFTER SCREW ASSEMBLY	006		
7.	INFEED STAR WHEEL CLUTCH ASSEMBLY	007		
8.	OUTFEED STAR WHEEL CLUTCH ASSEMBLY	008		
9.	STAR WHEEL ASSEMBLY	009		
10.	PRESSURE TESTING ASSEMBLY	010		
11.	CRIMPING ASSEMBLY	011		
12.	CHUTE ASSEMBLY	012		
13.	IDLER ASSEMBLY	013		
14.	CONVEYOR ASSEMBLY	014		
15.	OUTFEED VACUUM DIAGRAM	015		



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### 3.3 ELECTRICAL DRAWING

S.No.	DRAWING NAME	DRAWING No.	OBSERVATION	SIGN/DATE
1.	POWER DISTRIBUTION CONNECTION DIAGRAM -1	001		
2.	POWER DISTRIBUTION CONNECTION DIAGRAM -2	002		
3.	PLC INPUT CONNECTION DIAGRAM	003		
4.	PLC OUTPUT CONNECTION DIAGRAM	004		
5.	MODULE CONNECTION DIAGRAM	005		
6.	AC DRIVE, RELAY CARD & SSR CARD CONNECTION DIAGRAM	006		
7.	TERMINAL BLOCK-1 CONNECTION DIAGRAM	007		
8.	TERMINAL BLOCK-2 CONNECTION DIAGRAM	008		



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### 3.4 COMPONENT VERIFICATION

S. NO.	ITEM	MAKE	MODEL	SPECIFICATION	SERIAL NO.	MEETS YES/NO	SIGN
1.	MOTOR (MAIN)	BONFIGLIOLI	BN80B4	0.75KW,1400RPM			
2.	GEAR BOX (MAIN)	BONFIGLIOLI	W63UF1 10	RATIO-10:1			
2.			P80B5B3				
3.	MOTOR (CONVEYOR)	BONFIGLIOLI	BN56B4	0.09KW, 1350RPM.			
4.	GEAR BOX	BONFIGLIOLI	VF30F1 20	RATIO-20:1			
7.	(CONVEYOR)		P56B5B3				
5.	MOTOR (HEIGHT UP/DN)	BONFIGLIOLI	BN56B4	0.09KW,1350RPM			
6.	GEAR BOX (HEIGHT UP/DN)	BONFIGLIOLI	VF30F1 60 P56 B5B3	RATIO-60:1			
7.	MOTOR (PUSHER WHEEL)	PANASONIC	M8MX25G4YGA	25WATT,1350RPM			
8.	GEAR BOX (PUSHER WHEEL)	PANASONIC	MX8G30B	RATIO-30:1			
9.	ENCODER (TRAVELLING)	POSITAL	UCD-IPH00- 05000-L100-2RW	4.75-30VDC			
10.	ENCODER (PRESSURE)	POSITAL	UCD-IPH00- 05000-L100-2RW	4.75-30VDC			
11.	ENCODER (HEAD UP/DOWN)	POSITAL	UCD-IPH00- 05000-L100-2RW	4.75-30VDC			
12.	AC DRIVE (MAIN)	ALLEN BRADLEY	22F-D2P5N103	1HP, 3PH TO 3PH			
13.	AC DRIVE (CONVEYOR)	ALLEN BRADLEY	22F-A2P5N103	0.5HP,1PH TO 3PH			
14.	AC DRIVE (HEAD UP/DOWN)	ALLEN BRADLEY	22F-A2P5N103	0.5HP,1PH TO 3PH			
15.	MODE BUS MODULE WITH 485	ALLEN BRADLEY	1763-NC01	24VDC			
16.	PLC	ALLEN BRADLEY	1766-L32BXBA	24VDC			
17.	INPUT MODULE	ALLEN BRADLEY	1762-IQ16	24VDC			
18.	HMI	ALLEN BRADLEY	2711P-T6C20D8	24VDC			
19.	MCB (MAIN)	HAGER	NCN410N	C10			
20.	MCB (SMPS)	HAGER	NCN206N	C6			
21.	MCB (24V DC SUPPLY)	HAGER	NCN204N	C4			
22.	CONTACTOR (MAIN)	SCHNEIDER	LC1D18	NA			
23.	CONTACTOR (VACUUM PUMP)	SCHNEIDER	LC1D09	NA			
24.	OVER LOAD RELAY	SCHNEIDER	LRD07	1.6 TO 2.5 AMP.			



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S. NO.	ITEM	MAKE	MODEL	SPECIFICATION	SERIAL NO.	MEETS YES/NO	SIGN
1101	(VACUUM PUMP)					120/110	
25.	CONTACTOR	SCHNEIDER	LC1D09	NA			
23.	(VIBRATOR)						
26.	OVER LOAD RELAY	SCHNEIDER	LRD 10	4 TO 6 AMP.			
20.	(VIBRATOR)						
27.	CONTACTOR (LINEAR	SCHNEIDER	LC1D09	NA			
27.	VIBRATOR)						
28.	OVER LOAD RELAY	SCHNEIDER	LRD07	1.6 TO 2.5 AMP.			
20.	(LINEAR VIBRATOR)						
29.	RELAY CARD (4	PHOENIX	PC24D04-CNB	24VDC			
	CHANNEL)						
30.	SSR	UNISON	807 PMDD 100	8AMP			
			08 01				
31.	SMPS	OMRON	S8VK-C06024	24VDC,2.5 AMP.			
32.	SENSOR FOR NO SEAL	LEUZE	CRT448.S3/444-	10-30VDC			
	ON VIAL		M12				
33.	SENSOR FOR NO	PANASONIC	LX-101-P-Z	10-30VDC			
00.	STOPPER ON VIAL						
34.	SENSOR FOR NO CAP	PANASONIC	FX-301-P	10-30VDC			
<i>5</i>	IN CHUTE						
35.	SENSOR FOR REF. FOR	PANASONIC	FX-301-P	10-30VDC			
	REJECTION						
	SENSOR FOR	PANASONIC	FX-301-P	10-30VDC			
36.	REJECTION						
	COUNTING						
37.	SENSOR FOR NO VIAL	PANASONIC	CX-481-P	10-30VDC			
	M/C STOP						
38.	SENSOR FOR VIAL	PANASONIC	CX-481-P	10-30VDC			
	JAM						
39.	SENSOR FOR RAISED	PANASONIC	CX-481-P	10-30VDC			
	RUBBER STOPPER						
40.	SENSOR FOR	PANASONIC	PM-K44P	10-30VDC			
	PRESSURE READING						
	SENSOR (DISC	PANASONIC	PM-K44P	10-30VDC			
41.	SENSOR FOR						
	REJECTION-1)	21111001110	27.1.1.12	10.007175.0			
42	SENSOR (DISC	PANASONIC	PM-K44P	10-30VDC			
42.	SENSOR FOR						
	REJECTION-2)	DAMACONIC	EO 24 PM I	10.20VDC			
43.	SENSOR FOR LOW	PANASONIC	EQ-34-PN-J	10-30VDC			
	SEAL IN BOWL	DANACONIC	CV 411D D CV	10.20VDC			
44.	SENSOR FOR LOW	PANASONIC	CX-411D-P,CX-	10-30VDC			
	SEAL IN LINEAR		411E				



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S. NO.	ITEM	MAKE	MODEL	SPECIFICATION	SERIAL NO.	MEETS YES/NO	SIGN
	BOWL						
45.	PROXIMITY FOR INFEED STAR WHEEL	SICK	IME12-04 BPSZW2S	24VDC			
	CLUTCH						
	PROXIMITY FOR	SICK	IME12-04	24VDC			
46.	OUTFEED STAR		BPSZW2S				
	WHEEL CLUTCH						
47.	PROXIMITY FOR	SICK	IME12-04	24VDC			
	HOMING		BPSZW2S				
48.	PROXIMITY FOR	ACCENT	17 X 17	24VDC			
	DOOR INTERLOCK						
	PROXIMITY FOR	ACCENT	17 X 17	24VDC			
49.	SLIDING CONVEYOR						
	OPEN			A444 + G 70 G			
50	AIR VELOCITY SENSOR (SEALING	E+E	EE660-V7xBFxx	24V AC/DC			
50.	,						
	UNIT) VIBRATOR	VIBRACON	NA	NA			
51.	CONTROLLER (MAIN)	IV	NA	NA			
	VIBRATOR	VIBRACON	NA	NA			
52.	CONTROLLER(LINEAR	IV	NA .	IVA			
32.	VIBRATOR)						
	BUZZER CUM	MIMIC	BZ	24VDC			
53.	FLASHER						
54.	ACTUATOR (MAIN)	SCHNEIDER	BLACK	NA			
	PUSH BUTTON	SCHNEIDER	GREEN	NA			
55.	(START)						
56.	PUSH BUTTON (STOP)	SCHNEIDER	RED	NA			
57.	EMERGENCY STOP	SCHNEIDER	RED	NA			
	PUSH BUTTON	SCHNEIDER	YELLOW	NA			
58.	(INCHING)						
59.	INCHING BOX	TEKNIC	NA	NA			
	PRESSURE	KELLER	PR-	(-1)TO (0) BAR			
60.	TRANSMITTER		23RY/80710.34				
<i>C</i> 1	VALVE (REJECTION-	ROTEX	30125-3-2G	NA			
61.	1,2)						
62.	COIL (REJECTION-1,2)	ROTEX	I-24V-DC-06	NA			
63.	VACUUM GAUGE	EXCEL	NA	0 TO -760 mmhg			
64.	VACUUM PUMP	BECKER	VT 4.16	0.55KW,1420RPM			
	VACUUM PUMP	BECKER	D 80 B4 P	0.55KW,1420RPM			
65.	MOTOR						
	MOTOR						



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#### 4.0 MATERIAL OF CONSTRUCTION

- This is to prove that the materials used for construction of components are as per the DQ Specification / Approved Drawing.
- The Vendor shall present certificates for the parts listed.
- The submitted certificates shall be checked for correct material usage against the details submitted in the DQ / Approved Drawing form by the vendor.

S.No.	COMPONENTS	SPECIFIED	ACTUAL
1.	Conveyor Belt	Delrin	
2.	Conveyor Guide Rail	Delrin	
3.	Star Wheel set	Delrin	
4.	Conveyor "C" Channel	S.S.304	
5.	Cap sealing bowl & chute	S.S.316L	
6.	Crimping Roller	S.S. 304	
7.	Chuck die	S.S. 304	
8.	Lifter Bowl	S.S. 304	
9.	Linear Vibrator	S.S. 316L	

**COMMENTS** 

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### FACTORY ACCEPTANCE TEST FOR AUTOMATIC EIGHT HEAD VIAL SEALING MACHINE

#### 5.0 COMPONENT CERTIFICATION:

- This to verify the Test certificates of the designated components.
- The Vendor shall present Test certificates of the designated components (From the original manufacturer) for verification. Check whether the certificate corresponds to the installed component. Compare the make, Model No. and other specifications from the certificate with the specifications of the component and in the table below.

S.No.	NAME OF COMPONENT	CERTIFICATE AVAILABLE YES / NO
1.	MOTOR (MAIN)	
2.	GEAR BOX (MAIN)	
3.	MOTOR (CONVEYOR)	
4.	GEAR BOX (CONVEYOR)	
5.	MOTOR (HEIGHT UP/DN)	
6.	GEAR BOX (HEIGHT UP/DN)	
7.	MOTOR (PUSHER WHEEL)	
8.	GEAR BOX (PUSHER WHEEL)	
9.	ENCODER (TRAVELLING)	
10.	ENCODER (PRESSURE)	
11.	ENCODER (HEAD UP/DOWN)	
12.	AC DRIVE (MAIN)	
13.	AC DRIVE (CONVEYOR)	
14.	AC DRIVE (HEAD UP/DOWN)	
15.	MODE BUS MODULE WITH 485	
16.	PLC	
17.	INPUT MODULE	
18.	НМІ	
19.	SENSOR FOR NO SEAL ON VIAL	
20.	SENSOR FOR NO STOPPER ON VIAL	
21.	SENSOR FOR NO CAP IN CHUTE	
22.	SENSOR FOR REF. FOR REJECTION	
23.	SENSOR FOR REJECTION COUNTING	
24.	SENSOR FOR NO VIAL M/C STOP	
25.	SENSOR FOR VIAL JAM	



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S.No.	NAME OF COMPONENT	CERTIFICATE AVAILABLE YES / NO
26.	SENSOR FOR RAISED RUBBER STOPPER	
27.	SENSOR FOR PRESSURE READING	
28.	SENSOR (DISC SENSOR FOR REJECTION-1)	
29.	SENSOR (DISC SENSOR FOR REJECTION-2)	
30.	SENSOR FOR LOW SEAL IN BOWL	
31.	SENSOR FOR LOW SEAL IN LINEAR BOWL	
32.	PROXIMITY FOR INFEED STAR WHEEL CLUTCH	
33.	PROXIMITY FOR OUTFEED STAR WHEEL CLUTCH	
34.	PROXIMITY FOR HOMING	
35.	PROXIMITY FOR DOOR INTERLOCK	
36.	PROXIMITY FOR SLIDING CONVEYOR OPEN	
37.	AIR VELOCITY SENSOR (SEALING UNIT)	
38.	PRESSURE TRANSMITTER	
39.	VACUUM PUMP	

COMMENTS

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FACTORY	ACCEPTANCE TEST FOR AUTOMATIC EIGHT HEAD VIAL SEALING MACHINE
6.0	FUNCTION VERIFICATION:
	AS PER ANNEXURE-I



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### FACTORY ACCEPTANCE TEST FOR AUTOMATIC EIGHT HEAD VIAL SEALING MACHINE

### 7.0 INTERLOCK AND ALARM TEST:

Simulate Alarm/Interlock condition and observe results:

S.No.	FEATURE	SPECIFIED	REASON	RECTIFICATION	SIMULATION RESULT
1.	Clutch at in feed	Machine Stop	Over Size Vial & Fallen	Release clutch which placed	
	Star wheel		Vial at Infeed Star wheel	below of infeed star wheel.	
2.	Clutch at	Machine Stop	Fallen Vial At Outfeed	Release clutch which placed	
	Outfeed Star		Star wheel	below of Outfeed star wheel.	
	wheel				
3.	No Seal In Chute	Machine Stop	Empty Bowl /Chute	Availability of Sufficient	
	M/C Stop			seal is in chute	
4.	No Vial	Machine Stop &	Vial are not present on	Load vial at infeed	
	Machine Stop	Auto Restart	infeed conveyor		
5.	Vial Jam	Machine Stop &	Maximum vial at outfeed	Clear the vial jam	
	Machine Stop	Auto Restart	conveyor		
6.	Raised Rubber	Machine stop	Before sealing raised	Removed the Vial	
	Stopper		stopper on vial		
7.	No Stopper On	Machine Stop	No Stopper On Vial	Remove Vial Manually	
	Vial M/C Stop				
8.	Low Seal in	Linear Vibrator	linear vibrator will start	NA	
	Bowl	Start			
9.	LAF Stop	Machine Stop	LAF is off condition	Start LAF unit / if LAF is	
				running then check input	
				status.	
10.	Emergency Stop	Machine Stop	If press emergency	Emergency released	
			button.		
11.	Main Motor	Machine Stop	Main Motor overload or	Rectify the problem & Go to	
	Drive Faulted		AC Drive Faulted	drive status & clear the fault.	
12.	Conveyor Drive	Machine Stop	Conveyor Motor overload	Rectify the problem &Go to	
	Faulted		or AC Drive Faulted	drive status & clear the fault.	
13.	Height Up/Down	Machine Stop	Height Up/Down Motor	Rectify the problem &Go to	
	Drive Faulted		overload or AC Drive	drive status & clear the fault.	
			Faulted		
14.	Door Open	Machine Stop	Any door open	Close the door / if door is	
		(Auto &		closed then check input status.	
		Manual mode)			
15.	Swing Conveyor	Machine Stop	Sliding Conveyor open	Close Sliding Conveyor	
	Open M/C Stop				
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S.No.	FEATURE	SPECIFIED	REASON	RECTIFICATION	SIMULATION RESULT
16.	Vacuum Low	Machine Stop	Fault in vacuum pump &	Please check the Infeed	
	Machine Stop		any leakage in pipe line	Vacuum pipe connector is not	
				leakage/if it ok then check	
				pressure gauge.	
17.	No Seal on Vial	If No Seal /	No Seal on Vial or Wrong	Set Seal related setting	
	or Wrong colour	Wrong colour	colour.	properly & Check wrong	
		seal on vial it		colour seal lot.	
		automatically			
		rejects the vial.			
18.	Vacuum Pump	Machine Stop	Vacuum Pump overload	Check vacuum pump.	
	Trip		or fault in vacuum pump.		
19.	Vibrator Trip	Machine Stop	Fault in Vibrator	Check Vibrator & Rectify the problem	
20.	Maximum	Machine Stop	More than Rejected Vial Value mention in HMI	Identify Problem & Resolve it.	
	number of vial		value mention in Alvii	II.	
	Rejected M/C				
	Stop				
21.	Low Height Vial	Vial Reject	Low Height Vial & High	If this type of rejection are	
	& High Height		Height Vial	continue then resolve height	
	Vial			setting problem.	
22.	Power Failure	Machine Strop	Power Supply Fail	Connect power supply	
23.	Low seal in	Machine Stop	Low seal in Linear Bowl	Add Seal in Linear Bowl	
	Linear Bowl				
24.	Linear Vibrator	Machine Stop	Fault in Vibrator	Check Vibrator & Rectify the	
	Trip			problem	
25.	Air Velocity	Machine Stop	Air Velocity Low	Set required Air Velocity	
	Low				



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### 8.0 LOGICAL SECURITY VERIFICATION:

Simulate Alarm/Interlock condition and observe results:

#### 8.1 ACCESS LEVEL TEST

S.No.	USER GROUP NAME	RIGHTS & AUTHORIZATION	OBSERVATION	SIGN / DATE
1.	Administrator	All rights		
2.	Manager	Change in the process parameters, Operation, Recipe Creation, Deletion & edit, Print reports, Calibration		
3.	Supervisor	Operation, Variable parameters change, Print report, Recipe download, alarm ack.		
4.	Maintenance	Calibration, I/O list		
5.	Operator	Operation, print reports alarm acknowledge		



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## FACTORY ACCEPTANCE TEST FOR AUTOMATIC EIGHT HEAD VIAL SEALING MACHINE

### 9.0 TEST RUN:

METHOD	DESCRIPTION	OBSERVATION	SIGN/DATE
Start test as per	Observe sequence of		
instruction.	operation and compare with requirement.		
T D			
Test Run successfully.			

REMARK	



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## FACTORY ACCEPTANCE TEST FOR AUTOMATIC EIGHT HEAD VIAL SEALING MACHINE

### **10.0 DEVIATION:**

DEVIATION	REMARKS



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## FACTORY ACCEPTANCE TEST FOR AUTOMATIC EIGHT HEAD VIAL SEALING MACHINE

### 11.0 APPROVAL:

APPROVAL TABLE FOR FAT (CLIENT)			
SIGNS FOR	ROLL / NAME	DATE	SIGNATURE
REVIEW			
APPROVAL			

CONCLUSION