



**Title:** Operation and Cleaning of Vacuum Pump

<b>SOP No.:</b>		<b>Revision No.:</b>	00
<b>Effective Date:</b>		<b>Supersedes No.</b>	Nil
<b>Review Date:</b>		<b>Page No.</b>	1 of 4

**1.0 OBJECTIVE:**

To lay down a Procedure for Operation and Cleaning of Vacuum Pump.

**2.0 SCOPE:**

This SOP is applicable for Operation and Cleaning of Vacuum Pump.

**3.0 RESPONSIBILITY:**

Officer /Executive – Engineering

**4.0 ACCOUNTABILITY:**

Head – Engineering

**5.0 ABBREVIATIONS:**

ER            Engineering  
SOP          Standard Operating Procedure

**6.0 PROCEDURE:**

**6.1 OPERATING OF VACUUM PUMP:**

**6.1.1** Before starting of pump, Vacuum breaking valve (V1) shall be open and Suction inlet valve (SV) shall be closed & start the pump for 5 Second & close the Vacuum breaking valve (V1) & open Suction inlet valve (SV).

**6.1.2** Before stopping of pump, close the Suction inlet valve than open the vacuum braking Valve, than after 5 second stop the vacuum pump.

**6.2 CLEANING AND FLUSHING OF VACUUM PUMP:**

**6.2.1** Flushing of the vacuum pump to flush out the substances that leave solid deposits in the Pump body.

**6.2.2** Every completion of process required flushing with the required suitable solvent lit. (Diesel, Kerosene or Methylene chloride etc.)

**6.2.3** Close the Suction inlet valve (SV), open the vacuum braking valve (V1).

**6.2.4** Slowly dip suction tube in the solvent for 5 second (sucking the ¼ qty. of solvent in one time) and 10 second in air, repeat this process till the solvent finished.

**6.2.5** After finishing the solvent let the air pass through Vacuum braking valve (V1) at least for 15 minutes, so that all solvent will drain out from pump.



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### 6.3 CLEANING OF VACUUM FILTER:

- 6.3.1 After completion of drying operation open the drain flange provided on bottom side of the filter chamber.
- 6.3.2 Open cleaning water inlet port, provided on top of filter chamber.
- 6.3.3 Pour the raw water through cleaning water inlet port and collect the waste from the drain flange valve.
- 6.3.4 Pour water continue from the cleaning water port till drain water from flange be visually cleaned.
- 6.3.5 Pass the compressed air pressure jet from cleaning water inlet port side and to get the completely water drain out through the drain flange.
- 6.3.6 After cleaning close the drain flange tightly and also close the cleaning water inlet port by using Teflon.
- 6.3.7 After closing the drain flange and clean water inlet port check the leak test by the soap solution.
- 6.3.8 Fill the cleaning detail in format as enclosed Annexure – I.

**Precaution:** Never open the vacuum braking valve (V1) during product drying process.

### 7.0 ANNEXURES:

ANNEXURE No.	TITLE OF ANNEXURE	FORMAT No.
Annexure-I	Operation And Cleaning Format Record For Vacuum Pump	

**ENCLOSURES:** SOP Training Record

### 8.0 DISTRIBUTION:

- Controlled Copy No. 01                      Quality Assurance
- Controlled Copy No. 02                      Engineering
- Master Copy                                      Quality Assurance

### 9.0 REFERENCES:

Operation Manual



# PHARMA DEVILS

ENGINEERING DEPARTMENT

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## 10.0 REVISION HISTORY:

### CHANGE HISTORY LOG

Revision No.	Change Control No.	Details of Changes	Reason for Change	Effective Date	Updated By

