

# S O V D A

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## Receiving, Uncrate and Assembly

For Sovda Lift Systems

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## INTRODUCTION

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Thank you for choosing Sovda for your specialty coffee processing needs! This document establishes details and workflow necessary to simplify the delivery, uncrating, and assembly of your Sovda equipment.

While this document should provide useful information and resources to help you through this process, please feel free to contact your Technical Ambassador if you have any questions about this process.

## OVERVIEW

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This document will take you through the process of receiving, uncrating, and assembling the Sovda Lift. The Sovda Site Preparation Guide should be followed and the Site Preparation Checklist should be completed prior to receiving your equipment. Once you have completed the uncrating and assembly of your Lift, you will move on to the Lift Commissioning & Training document to get you up and running.

## RECEIVING

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Once your crate has shipped, you should receive shipping updates from either your Technical Ambassador or a Logistics Manager. LTL (less than truckload) deliveries tend to have a wide delivery window; ensure you are prepared to meet your delivery driver at any point. Your crate will be large and heavy. You must ensure you have the following in order to receive the crate:

1. An open area or loading dock where the crate can be removed from the truck;
2. A flat, level path of travel between the unloading area and the assembly area;
3. A forklift or pallet jack to move the crates to the assembly area.

## WHAT YOU WILL NEED

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### *UNCRATE*

- Pry-Bar
- Hammer
- Work Gloves
- Drill/Impact Gun
- Phillips #2 Screwdriver
- 10mm Wrench or Socket

### *ASSEMBLY*

- 10mm open-ended wrench (or adjustable wrench)
- One pair of Pliers
- #2 Flat-head Screwdriver
- 13mm Wrench or Socket
- 5mm Flex Airline Connection Point

## RECEIVING THE CARGO

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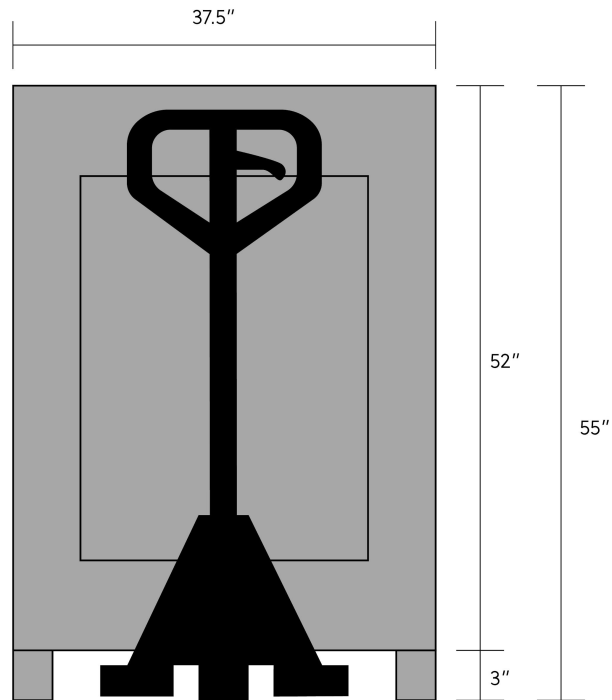
### 1. Unload from Truck. Video Intro

Ensure you have adequate space both for the delivery truck to park and for the crate to be removed. If you have a loading dock, direct your delivery driver to use the loading dock.

### 2. Transporting Crate to Install Location.

Ensure you have a flat, wide path between the unloading location and the desired installation location.

Note: A forklift is recommended for moving the crate, however a pallet jack can be used.



### 3. Preparation of Install Location.

Ensure you have adequate space to uncrate the machine. We recommend a minimum of 20 square meters/215 square feet of work space dedicated to the uncrate and assembly. You must also have a forklift able to go up as high as your equipment (i.e 2250mm for the Pearl Mini with base of 250mm, and 2442mm for the Precision fill ).

2 individuals capable of lifting heavy objects and one ladder or equivalent of at least 6 feet (2000mm) high if you will assemble the lift on the Pearl Mini with a 250mm base or on the Precision Fill.

## UNCRATING THE CARGO

The Sovda Lift will ship in a crate with an easy to open top. The crate will have an interior frame that the top is stapled onto.

**Warning:** Crate staples are sharp. Take care while removing the lid of the crate to avoid staples and use heavy duty work gloves.

**Note:** Having a second person to assist with de-crating is recommended.

**Note:** Before beginning the uncrating process, take photos of the crate including the shock/tilt indicators (if applicable) and any areas of damage to the crate. This will assist if a damage claim needs to be made against shipping insurance.

- Work the edge of the pry bar below the top piece of plywood. Tapping the end of the pry bar with a hammer can assist with this step. Once the wedge has enough contact with both parts of the crate, begin prying off the top working from corner to corner.
  - When three sides have been pried loose, the lid can be tilted upwards which will pull the remaining staples out of the frame.

**Note:** After removing the top of the crate (but before removing equipment), take photos of the equipment including clearances to the crate walls. This will assist if a damage claim needs to be made against shipping insurance.

- With the assistance of another person, lift equipment from the crate.
  - Alternatively, one of the sides of the crate can be removed to make equipment removal easier.
- Ensure you maintain an organized workspace during uncrating to avoid misplacing equipment parts. This will expedite equipment assembly.

**Action Required 1 :** Send to your technical ambassador any picture of damaged crate

**Action required 2 :** Find the packing list and perform inventory against the packing list. If there are any missing pieces, contact your technical ambassador.

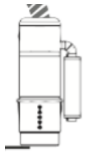
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## ASSEMBLY OVERVIEWS

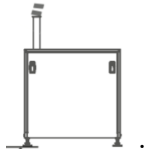
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Below you will find a series of Assembly Overviews for the various types of lifts offered by Sovda. Scroll to find the one that matches your order for a general understanding of how the equipment will go together.

Note : In some drawing the suction system is a vacuum:

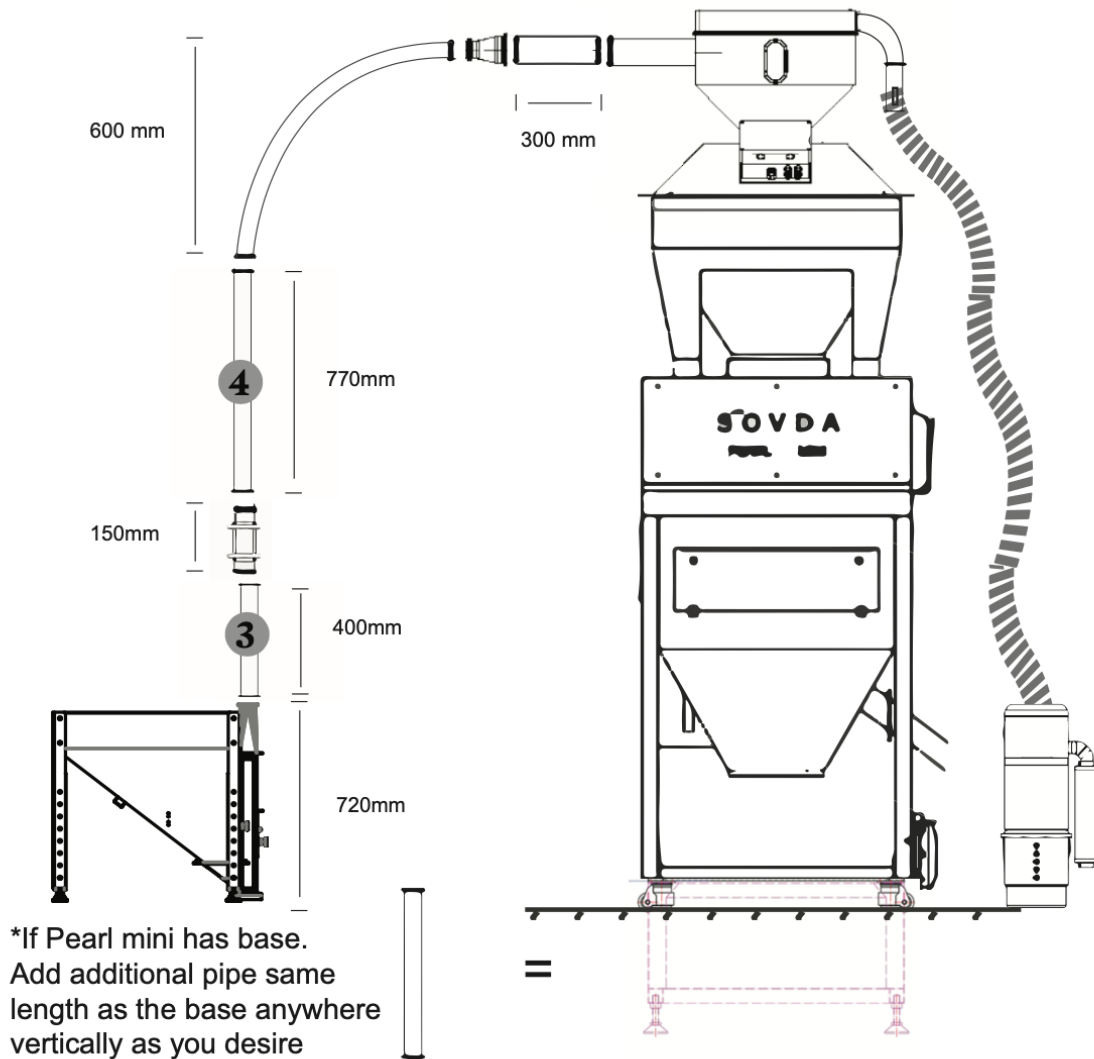


...and in others a central pump box:



Both merely represent a vacuum in the diagram. Piping to either types is interchangeable.

## Assembly Overview: Standard, Destoner or Precision Hopper + Standard Lift to Pearl Mini



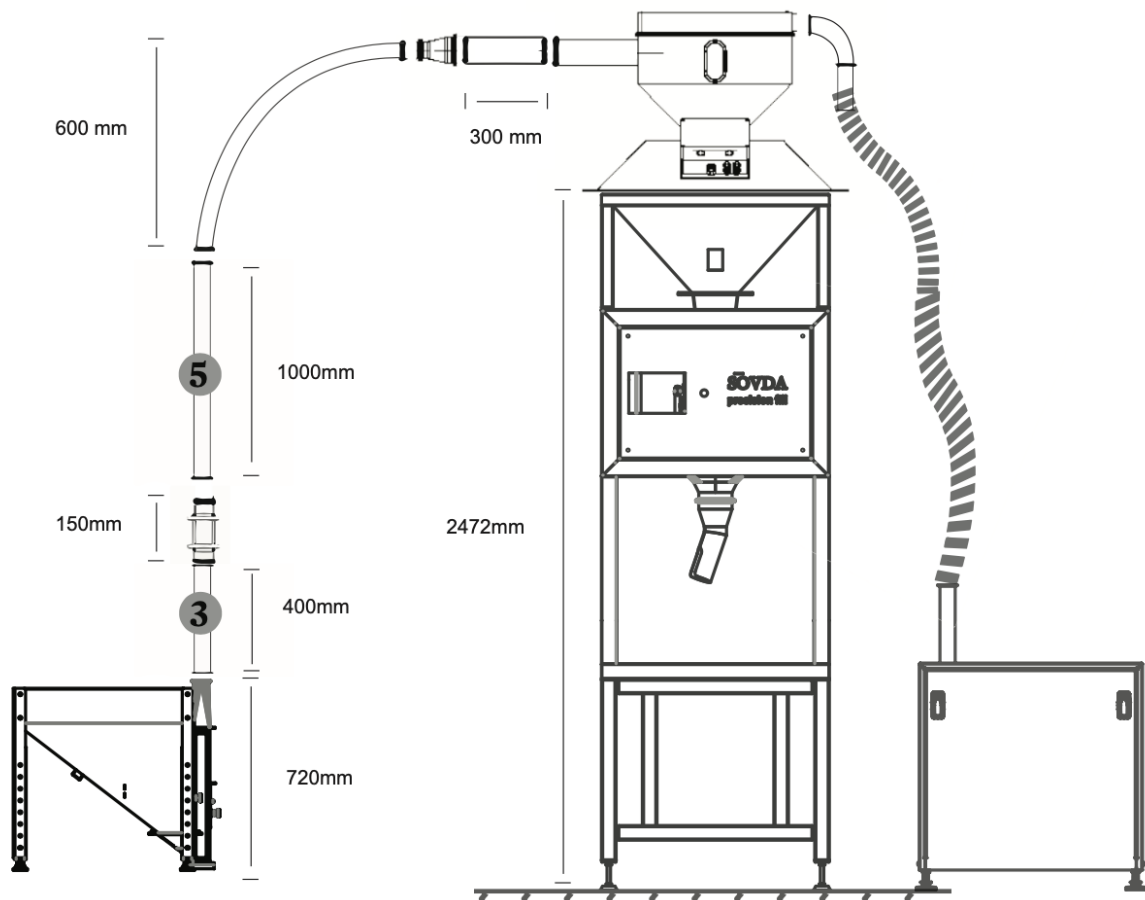
\*If Pearl Mini has base, add additional pipe as same length as the base anywhere vertically as you desire.

## Assembly Overview: Standard, Precision and/or Destoning Hopper + Standard Lift to Precision Fill

First step, adjust Precision Fill's height to 2472mm by adjusting its feet.

### b. Standard Lift To Precision Fill

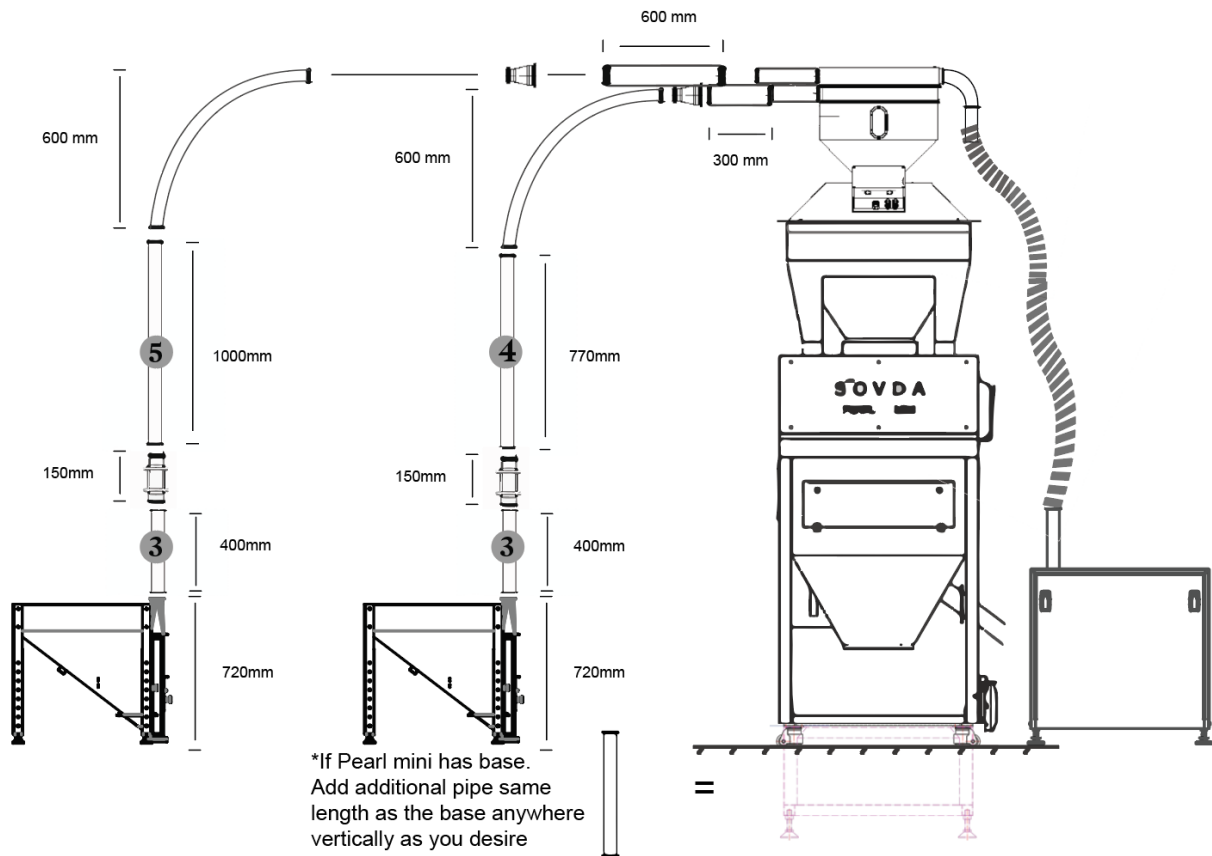
First to adjust Precision Fill's height to 2472mm by adjusting its feet.





## Assembly Overview: Standard, Precision and/or Destoning Hopper + Double Lift to Pearl Mini

Upper outlet 1000mm + sight glass  
 Lower outlet 770mm + sight glass



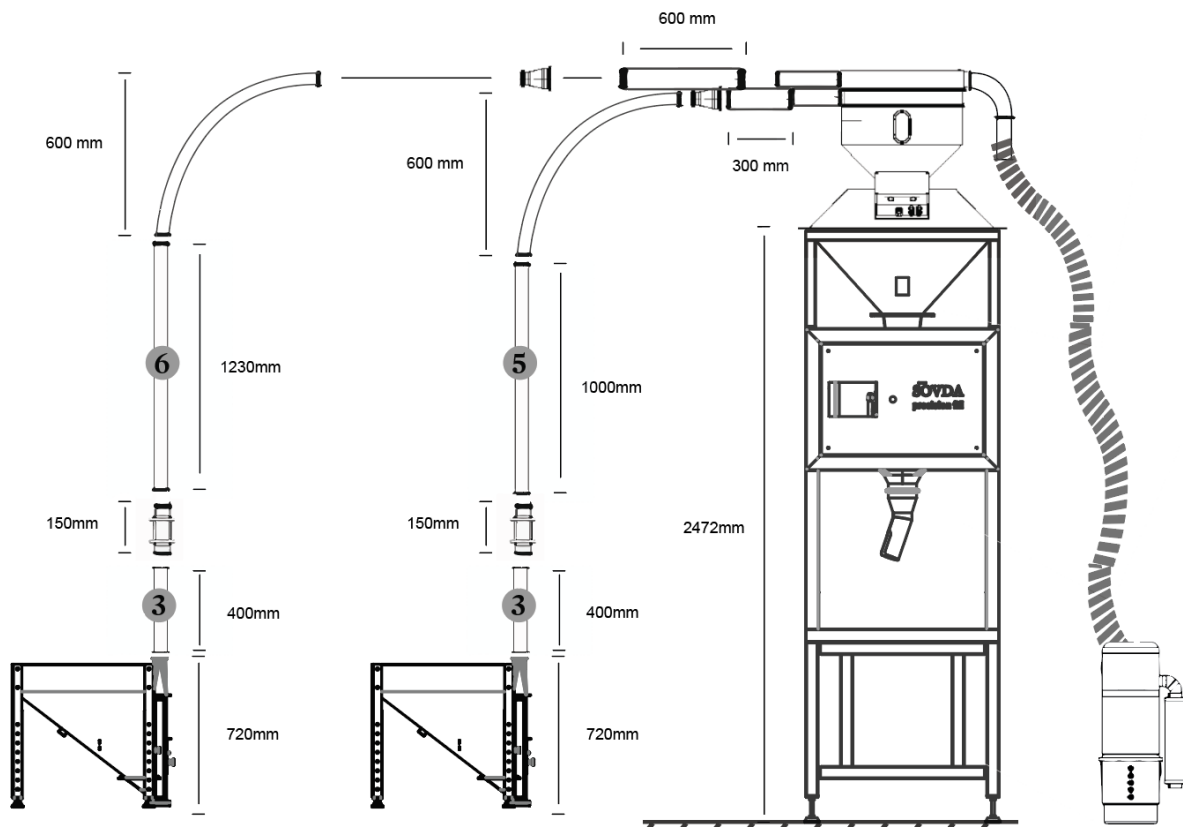
\*If Pearl Mini has base, add additional pipe as same length as the base anywhere vertically as you desire.

## Assembly Overview: Standard, Precision and/or Destoning Hopper + Double Lift to Precision Fill

First to adjust Precision Fill's height to 2472mm by adjusting its feet.

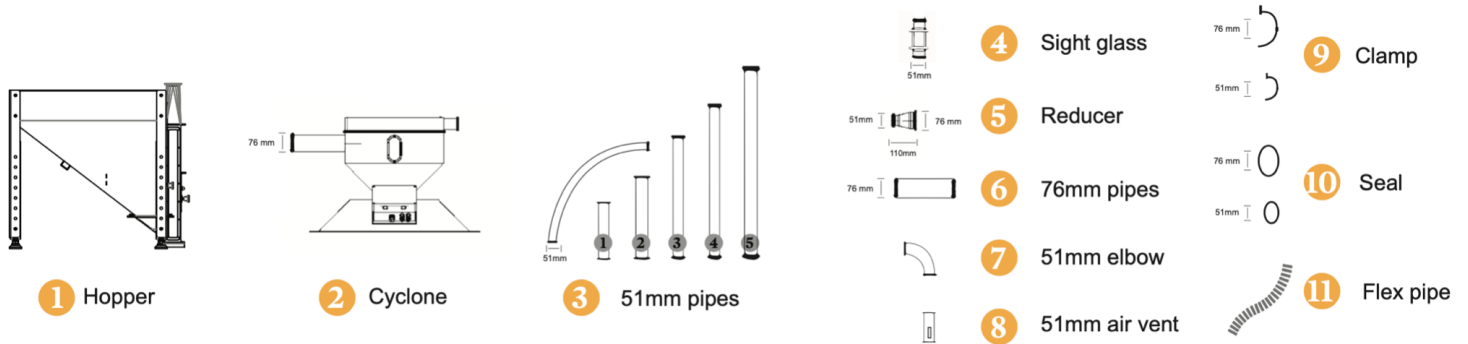
Upper outlet 1230mm + sight glass

Lower outlet 1000mm + sight glass



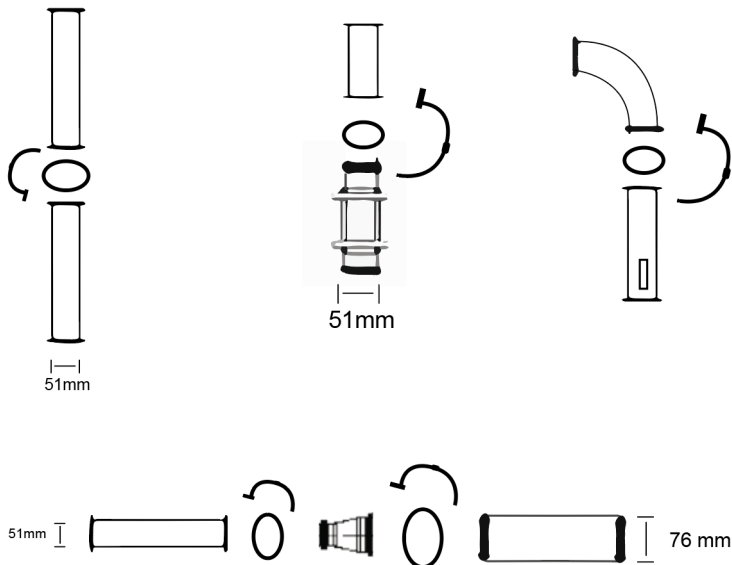
## PARTS ASSEMBLY

### 1. List of parts



### 2. Assembling

A. Pipes are connected using Tri-Clamp mechanisms and seals. Place the seal between the two pipe pieces you want to connect, then wrap the Tri-Clamp around the flange. Secure and tighten the wing nut to tighten the pieces together.



## B. Position the Hopper

- a. Put the hopper in your desired location, keeping in mind the run length you ordered and the position of the hopper outlet-tubing will extend vertically from this point.
- b. Adjust the feet and/or leg bolt positions to achieve the desired height.
- c. Level the hopper using the feet and secure jam nuts.

## C. Install the Cyclone ([video](#))

- a. Using a forklift or 2-3 people, position the Cyclone onto your equipment with the solenoid box pointed towards the back of the machine.
- b. Attach the Cyclone mounting plate to the equipment (usually using included hardware and pre-drilled holes, but may be different for custom mounting plates).
- c. Loosen the bolts at the base of the cyclone unit and orient the lower (larger) inlet to point towards the hopper outlet.
- d. Loosen the large V-band that connects the top of the cyclone and orient the upper (smaller) inlet towards your desired vacuum location.
- e. Connecting flex pipe to the adapter (but do not connect to the cyclone yet):



#### D. Connecting Central Vacuum

If you have a Sovda Box, skip to the next step.

Sovda ships different vacuums to different regions of the world. If you are in North America, you will receive the Beam vacuum shown to the left. Most other orders will be shipped with the Dada Home vacuum shown to the right.

Both vacuums are shipped with a plastic piece that will fit inside your flex hose and connect to the inlet port on the vacuum.

Note: Sovda has changed vacuum suppliers since the Lift Assembly video was produced. The inlet for both vacuums is the lower inlet, the top inlet is exhaust.



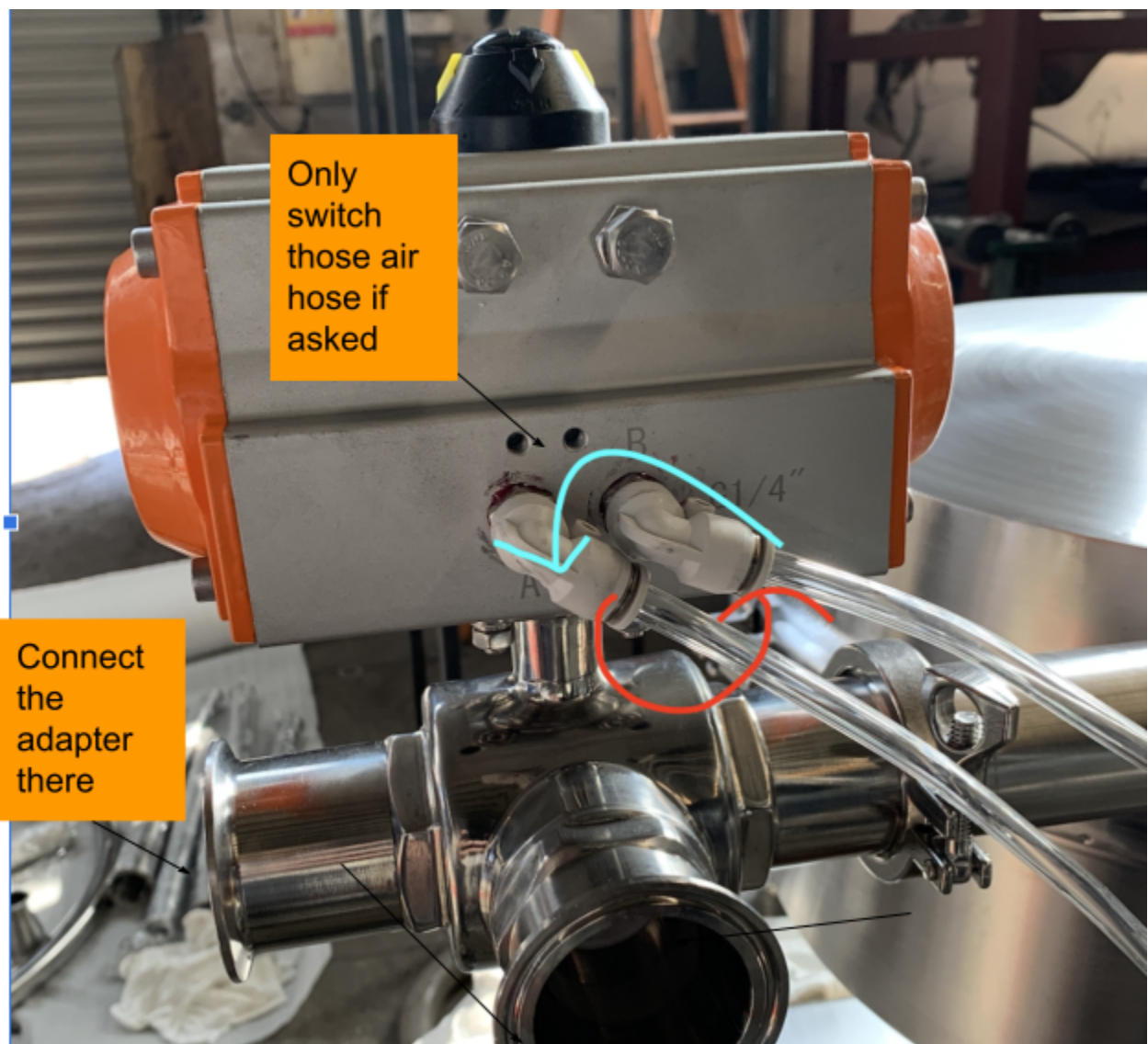
1. Insert the plastic adapter included with your vacuum to the lower port on the vacuum.
  - a. If the piece has a plastic tap on the end, break/cut off as needed
2. Slide the flex line onto the vacuum adapter and use hose clamp to secure
3. Connect the adapter on the other end of the flex pipe to the top (smaller) cyclone inlet. Tighten V-Band while tapping around the V-Band.

4. Use included mounting plate to mount the vacuum at your preferred location.
5. Plug in the vacuum.

#### E. Connecting Sovda Box

If you have central vacuums described above, skip this step.

1. Attach the butterfly valve to the upper (smaller) cyclone inlet:

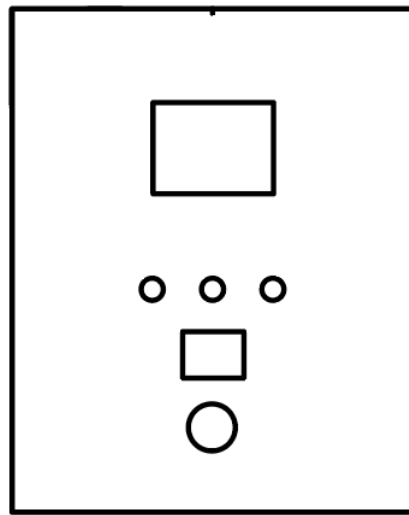


2. Connect the flex hose adapter installed in step C.e to the other end of the valve

3. Using the included push connect T's and tubing, connect the ball valve inlets to the two tubes running from the solenoid box through the mounting plate.
4. Insert the other flex line to tri clamp adapter in the open end of the hose.
5. Secure the adapter to the outlet on the top of the Sovda Box.
6. Plug in the vacuum box.

**Warning:** Do not install the slit adapter or ball valve onto the Sovda Box instead of the Cyclone. High suction and high pressure actuation exists at these points and can cause injury.

- F. Connecting Control Box
  - a. Identify your preferred control box mounting location
  - b. Run the control cables cleanly from:
    - i. Cyclone solenoid box to control box location
    - ii. Control box to vacuum (either Central or Sovda Box)
    - iii. Control box to wall power plug
  - c. If you have enough cable, mount the control box using mounting holes in the back of the control box.
    - i. Sovda includes hangars for easy connection to Standard and Destoner hoppers.
    - ii. Machine screws, self-tapping screws, or concrete anchors (not included) can be used to mount the control box elsewhere.
  - d. Plug in the Solenoid and Vacuum control wire cannon plugs to the bottom of the control box
  - e. Connect the other end of the Vacuum control wire to the terminals on your central vacuum or Sovda Box
  - f. Connect the power cable to the control box and plug it into the wall



Power  
Plug



Solenoid  
Plug



Vacuum  
Plug



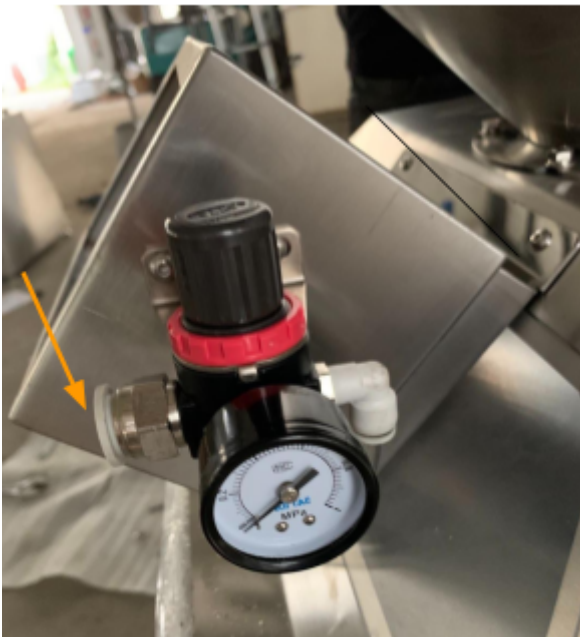
### G. Assembling the pipe

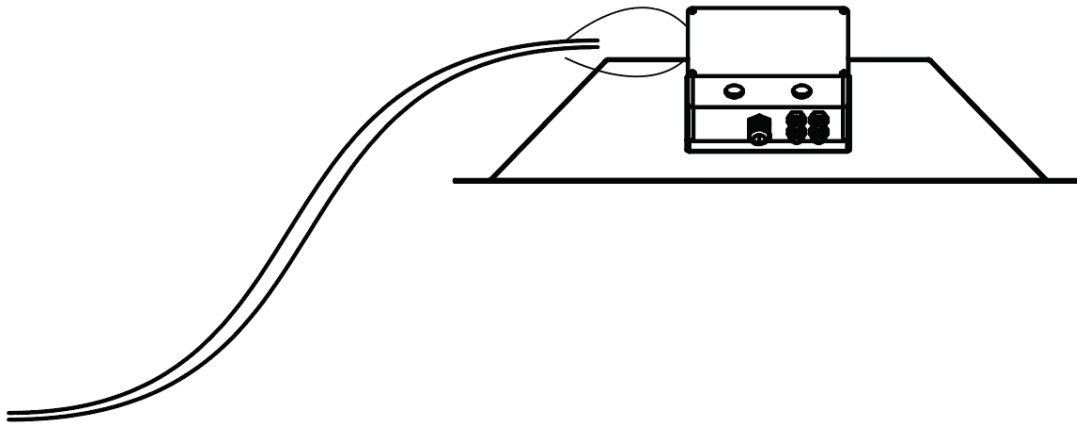
Make sure you do use the 300mm decelerator (76mm) provided.

If you deviate from the "standard" layout (as in Standard Layout section) you need to discuss it with your technical ambassador.

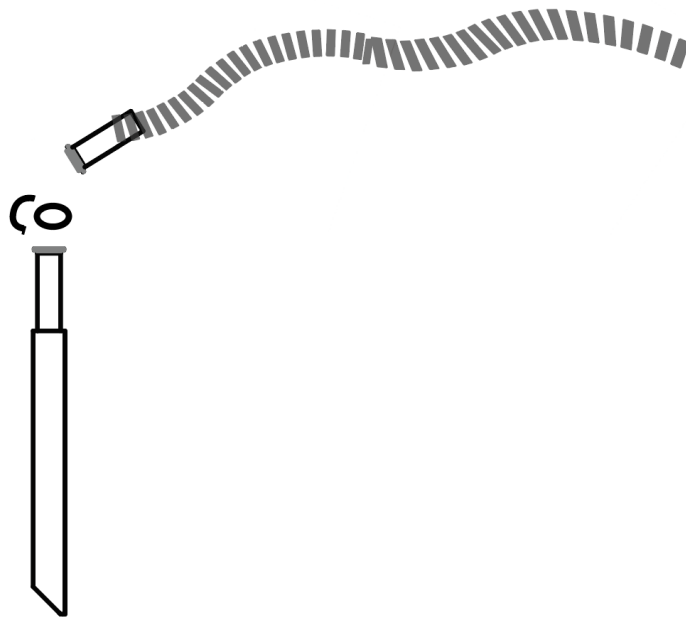
Note : You can rotate the hopper in any direction.

### H. Connecting Air hose from air compressor to the air regulator and set regulator to 0.4



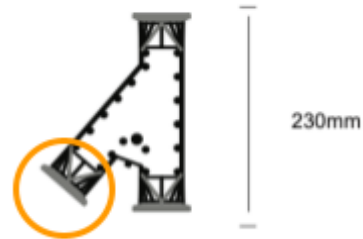
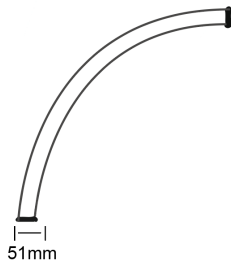


- I. If you have a Lance, connect Lance to the flex pipe, and flex pipe to the R 600mm sweep or lance switch

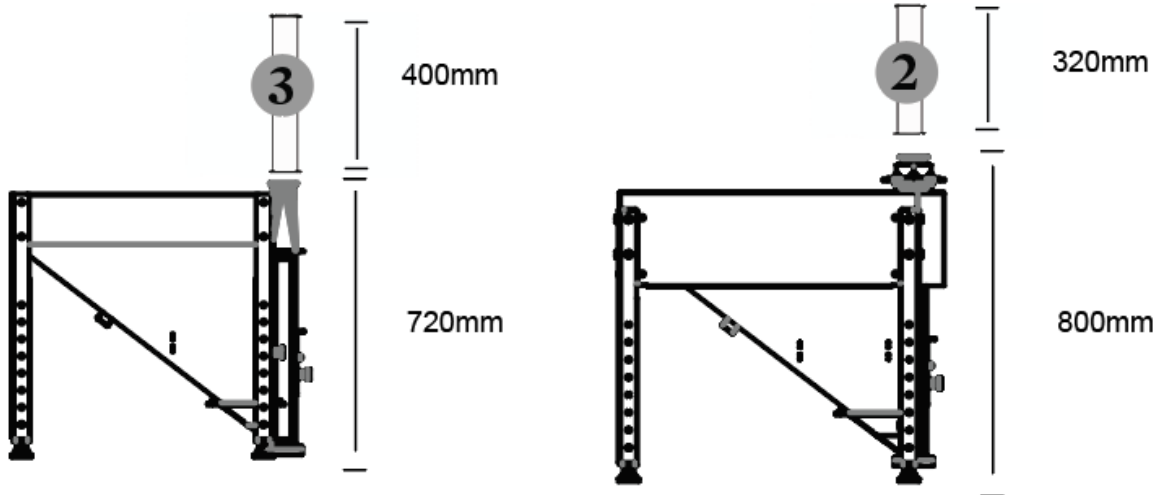


a. R 600mm sweep

b. Lance switch (Connect to the circle)



- J. If you have a precision lift, only need to change 400mm pipe to a 320mm pipe  
Left is the normal hopper, right is the Precision lift hopper.



- K. If you have a Lance switch,  
 For normal lift, need to change 400mm pipe to a 170mm pipe  
 For Precision lift, need to change 320mm pipe to a 90mm pipe

