*Instruction Sheet*
*P/N 1611317–01*

# ColorMax® Cyclone Cleaning Kit

**WARNING:** Allow only qualified personnel to perform the following tasks. Follow the safety instructions in this document and all other related documentation.

## Description

See Figure 1. This instruction sheet provides installation, operation, and shutdown instructions for the ColorMax® cyclone cleaning kit. The ColorMax cyclone cleaning kit should be used with swing-open style ColorMax cyclones.

The cyclone cleaning kit contains the following items:

- Media recirculation pan
- Pan stops
- Latching hooks
- Transfer pump adapters
- Transfer pumps
- Regulator kits
- Gauge kits
- Powder hose
- Pneumatic tubing
- Fittings
- Hardware

The replacement latching hook kit contains the following items:

- Short latching hook
- Medium latching hook
- Long latching hook

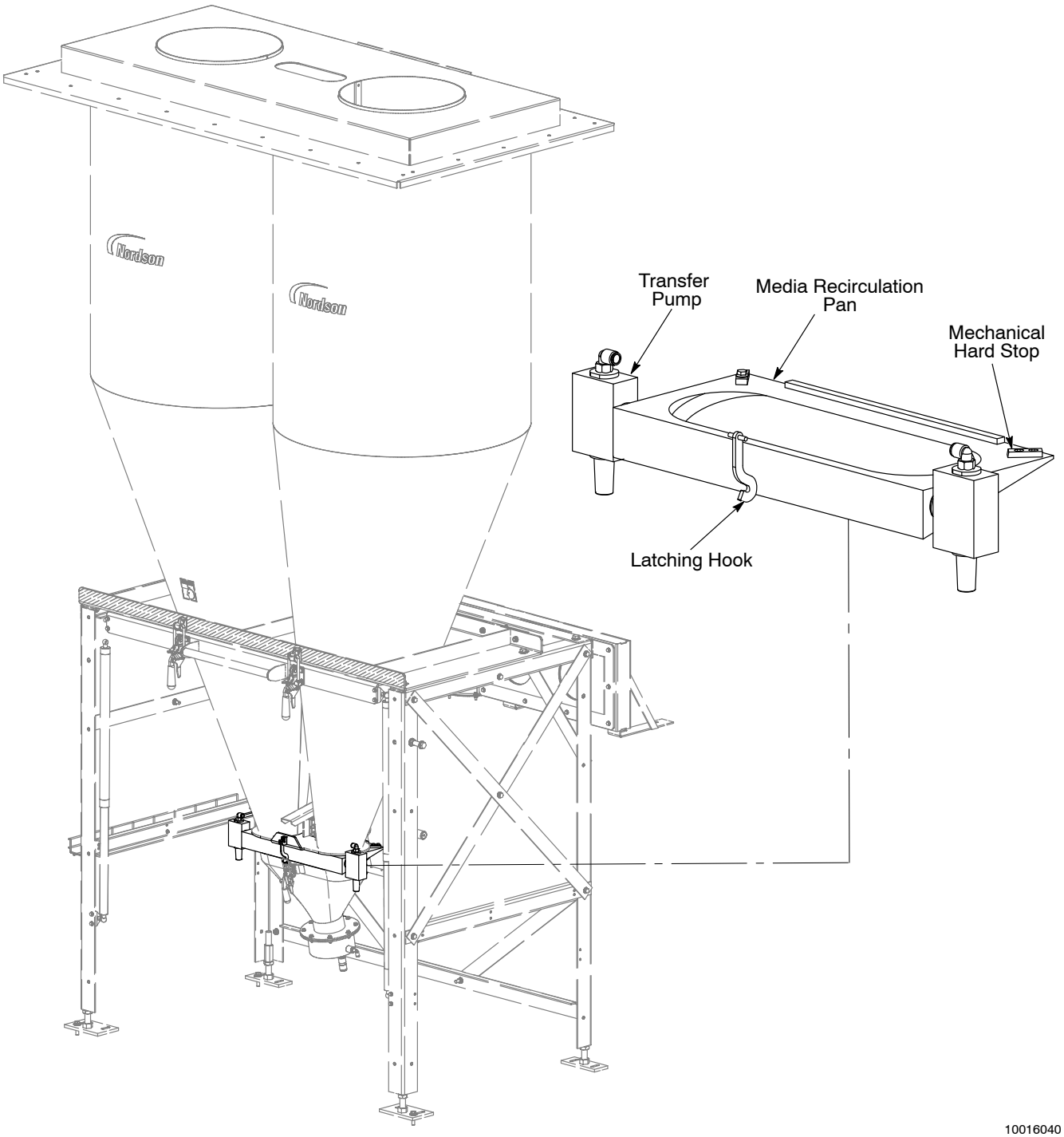


Figure 1 ColorMax Cleaning Kit (front view of system)

**NOTE:** For clarity, some parts are not shown or are enlarged.

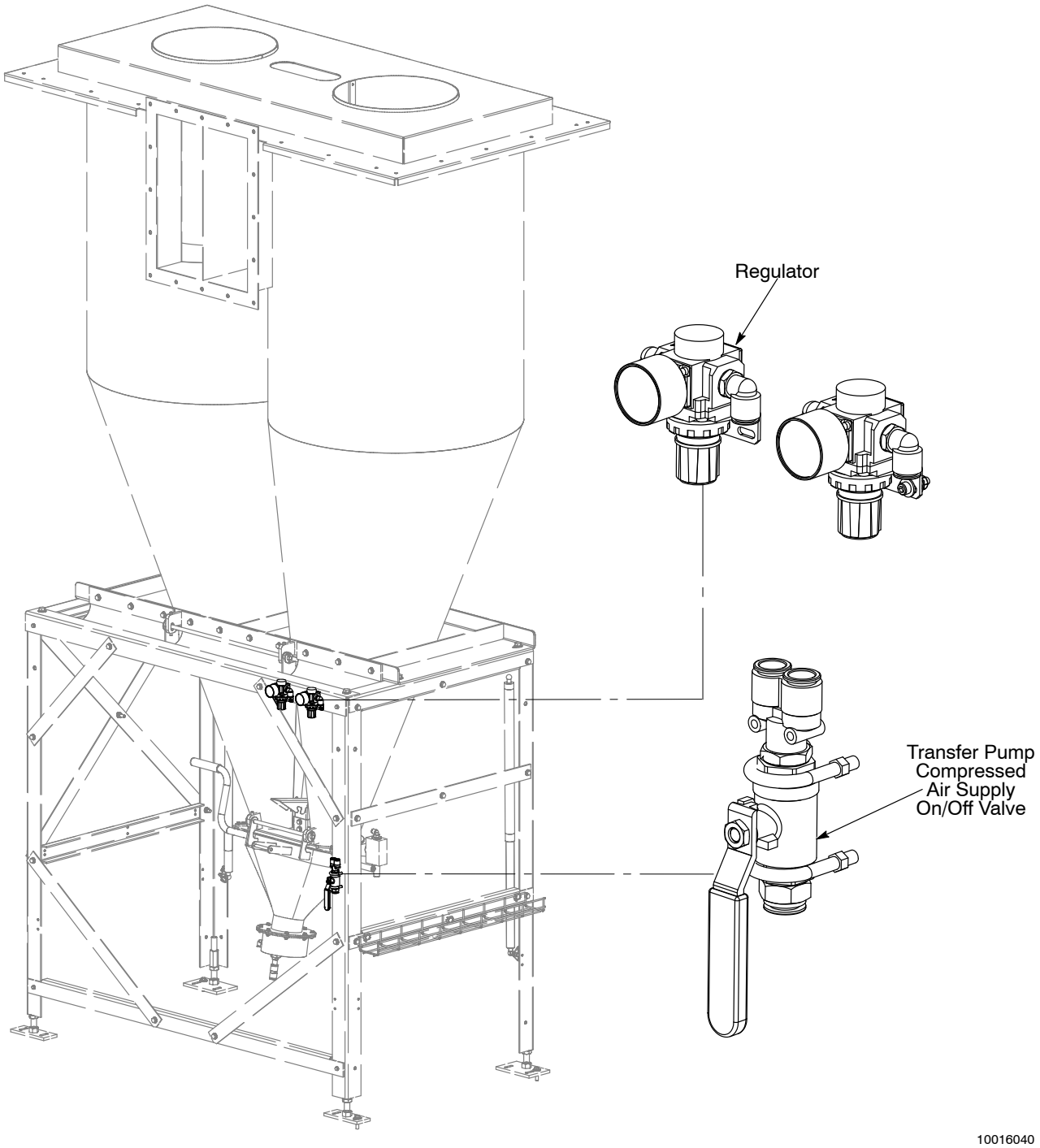


Figure 2 ColorMax Cleaning Kit (rear view of system)

**NOTE:** For clarity, some parts are not shown or are enlarged.

# Installation

## *Regulator Installation*

See Figure 3.

1. Lay out and drill the regulator mounting holes (4) on the cyclone stand.
2. Install the two regulators on the cyclone stand (5) using the screws (2) and washers (3).

   **NOTE:** The regulator (1) should be set at 60 psi for proper operation.

## *Transfer Pump Compressed Air Supply Installation*

See Figure 3.

3. Lay out and drill the regulator mounting holes (8) on the cyclone stand (5).
4. Install the transfer pump compressed air supply on/off valve (9) using the U-bolt (6) and nuts (7).

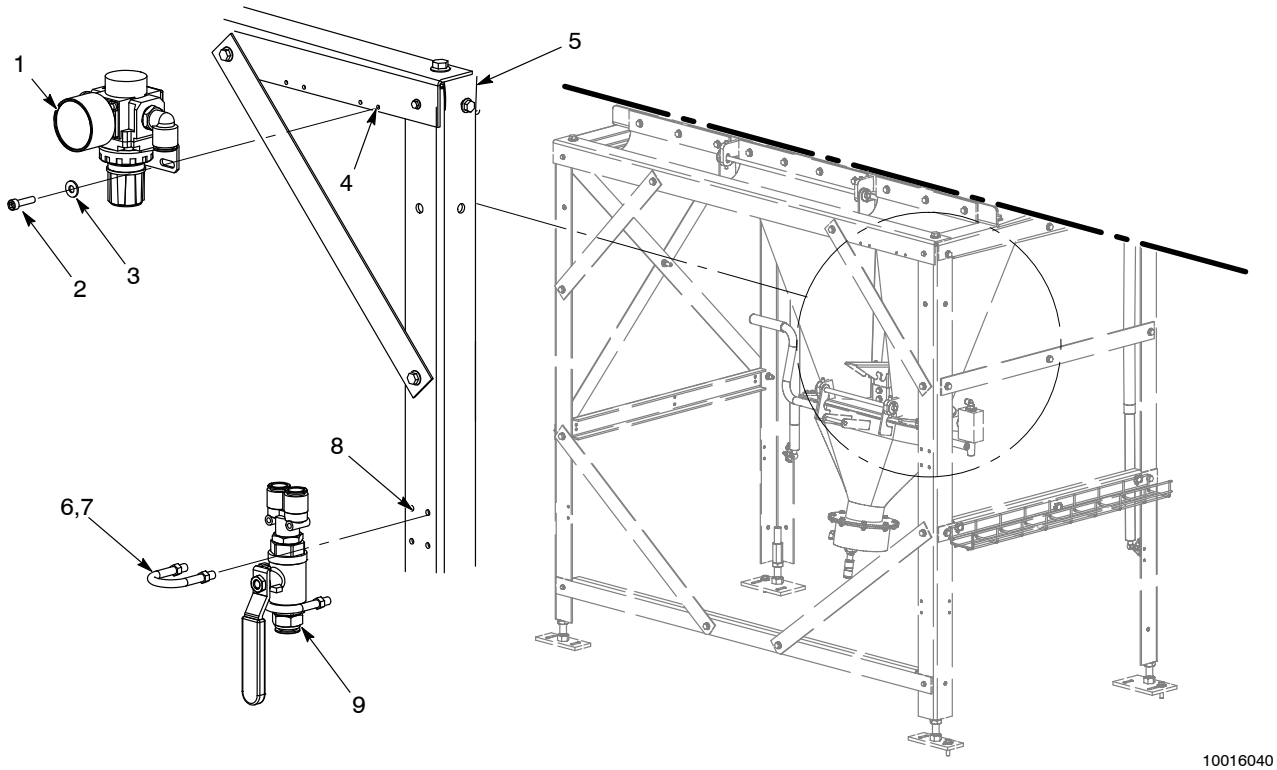


Figure 3 Regulator Installation

**NOTE:** For clarity, some parts are not shown or are enlarged.

## *Transfer Pump and Mechanical Hard-Stop Installation*

See Figure 4.

5. Install the two mechanical hard-stops (2) to the top rear of the media recirculation pan (3). Hand-tighten only.
6. Install the threaded transfer pump mounting adapters (5) to the threaded ports (4) of the recirculation pan (3)..

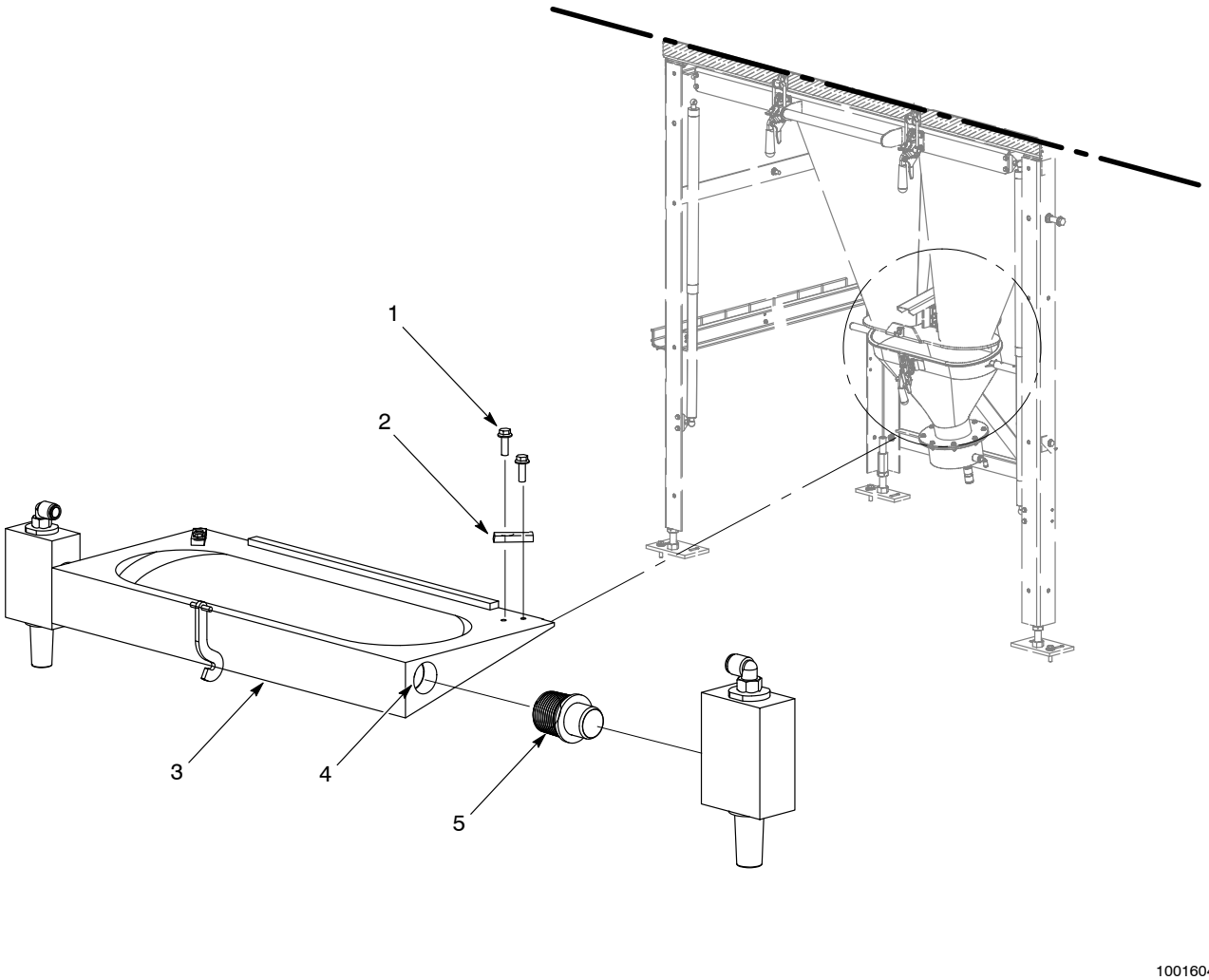


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Figure 4 Transfer Pump and Mechanical Hard-Stop Installation

**NOTE:** For clarity, some parts are not shown or are enlarged.

## *Latching Hook and Recirculation Pan Installation*

See Figure 5.

7. Three latching hooks (1) accommodate fabrication tolerance variations of the lower cyclone (8) and powder recovery pan (4). The recovery pan acts as a clamping device that holds the recirculation pan (3) in place against the bottom face of the twin cyclone. Select the latching hook that allows for appropriate cam-over locking position of the latching mechanism.

   **NOTE:** Do not attempt to fit any gasket material to the mating faces.

8. With the recirculation pan (3) clamped in place, tighten the mechanical hard stop hardware that was installed in Step 5.
9. Install the transfer pumps (6) to the pump adapters (7) with the discharge (5) oriented downward.

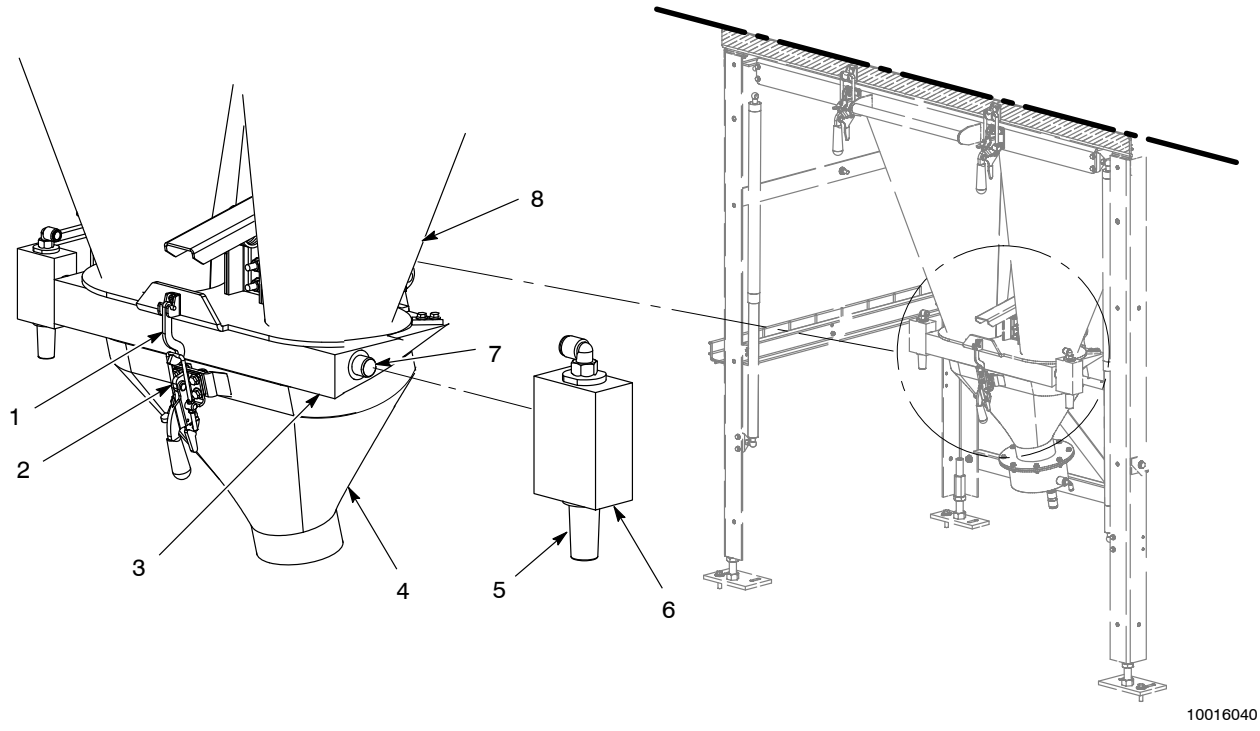


Figure 5 Latching Hook and Recirculation Pan Installation

**NOTE:** For clarity, some parts are not shown or are enlarged.

## *Pneumatic Tubing Connections*

See Figure 6.

10. Replace the existing 1-in. pipe plug on the compressed air supply header (1) with the reducer (shipped with kit).
11. Drill a 1-in. hole (5) in the utility deck behind the left rear cyclone stand.
12. Route pneumatic tubing (2) through the utility deck up the 1-in. hole (5) and connect it to the bottom (inlet side) of the transfer pump compressed air supply on/off valve (6).
13. Use cable ties to secure the pneumatic tubing (2) to the cyclone stand as required.
14. Install the y-union to the top (outlet side) of the transfer pump compressed air supply on/off valve (6).
15. Verify the regulators (4) are closed. Complete the compressed air installation by routing two lengths of pneumatic tubing (2) from the y-union to the regulators.
16. Route two pieces of polyurethane powder transfer pump hose (1) from the transfer pump discharge fitting through the bottom of the canopy spray gun slot opening. Terminate the hose at the bottom of the cyclone inlet duct.

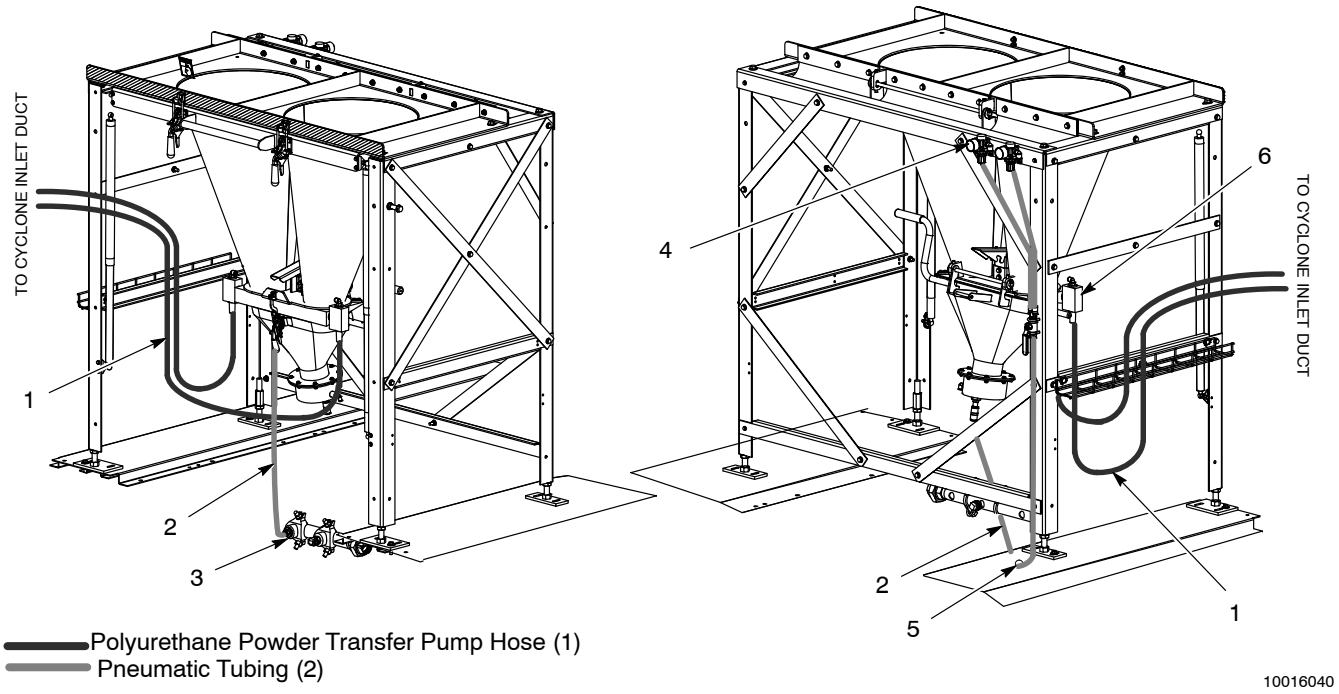


Figure 6 Tube Routing

**NOTE:** For clarity, some parts are not shown or are enlarged.

# Operation

1. Set the regulators to 60 psi. Run the exhaust system and operate the transfer pumps as scavenger/recirculating pumps.
2. Initiate cyclone cleaning operations by releasing 1 qt of cleaning media into the cyclone inlet duct service door.
3. Light impact fusion removal should be complete after three hours of media recirculation. Adjust the time as needed after observing the initial results.

# Shutdown

1. Turn off the transfer pumps and the system. Allow the exhaust fan to come to a complete stop.
2. Position a waste container with a plastic liner underneath the recirculation pan.
3. Unlatch the recirculation pan from the cyclone.
4. Clean up and dispose of used media.
5. Reconfigure the cyclone station for powder recovery operations.

# Parts

To order parts, contact Nordson customer support or a local Nordson representative.

| Part | Description | Note |
|---|---|---|
| 1610786 | KIT, cleaning media, recirculating, cyclone | |
| 1611318 | KIT, replacement, hook, latching, pan, cyclone | |

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