

# Prodigy<sup>®</sup> HDLV<sup>®</sup> Transfer Pump Station

## Description

This instruction sheet covers the Prodigy HDLV transfer pump station installation, controls, and parts. For information on pump operation, repair, and parts, refer to manual 1619979.

## Installation

Mount the pump panel and ground it. Connect an air supply and powder suction and delivery tubing. The panel also includes a regulator and manual air valve for a vibrator motor or other function.



**WARNING:** Ground the pump panel with the ground strap and clamp. Failure to observe this warning could result in a shock and fire hazard.

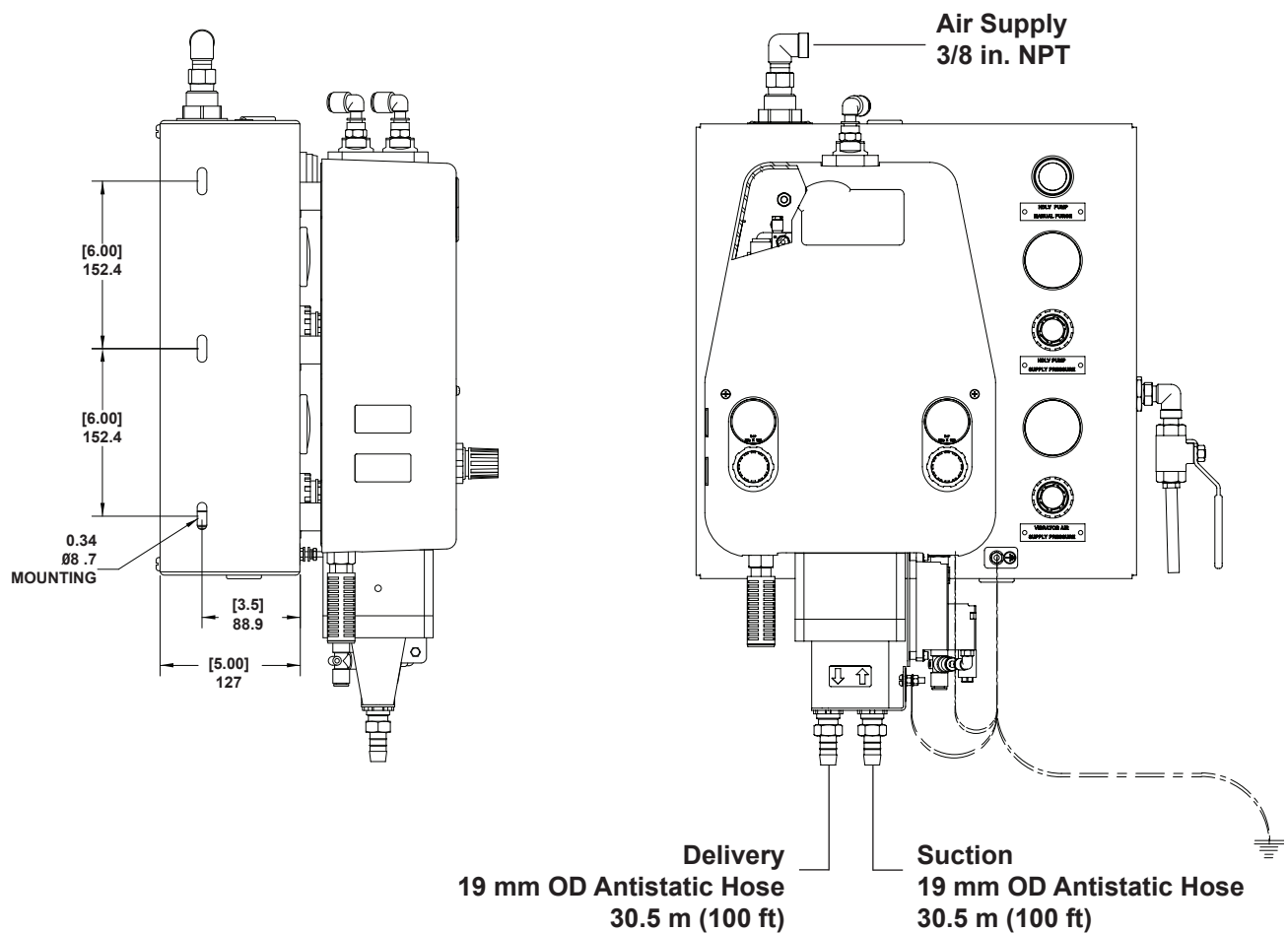


Figure 1 Pump Station Installation

# Operation

See Figure 2.

Item	Control	Function
1	Supply Air	Supply of clean, dry compressed air: 5.9–7 bar (85–100 psi).
2	Manual Purge	Press to manually purge the pump. Air at the supply pressure is delivered to the two fittings on top of the pump.
3	Pump Supply Air Regulator	Regulates pump air. Normal operating pressure is 4.8 bar (70 psi).
4	Vibrator Air Control Valve	Controls air flow to the vibrator motor or to an auxiliary function.
5	Vibrator Air Regulator	Regulates air pressure to the vibrator motor or to an auxiliary function. Normal vibrator motor operation pressure is 2.75-3.45 bar (40-50 psi).
6	Pinch Valve Air Regulator	Regulates air pressure used to operate the pump pinch valves: 2.4-2.75 bar (35-40 psi). Normally set to 2.4 (35 psi).
7	Conveying Air Regulator	Regulates positive and negative air pressure applied to the fluidizing tubes to draw powder into and push powder out of the pump: 0.7-1.0 bar (10-15 psi). Normally set to 1.0 bar (15 psi).

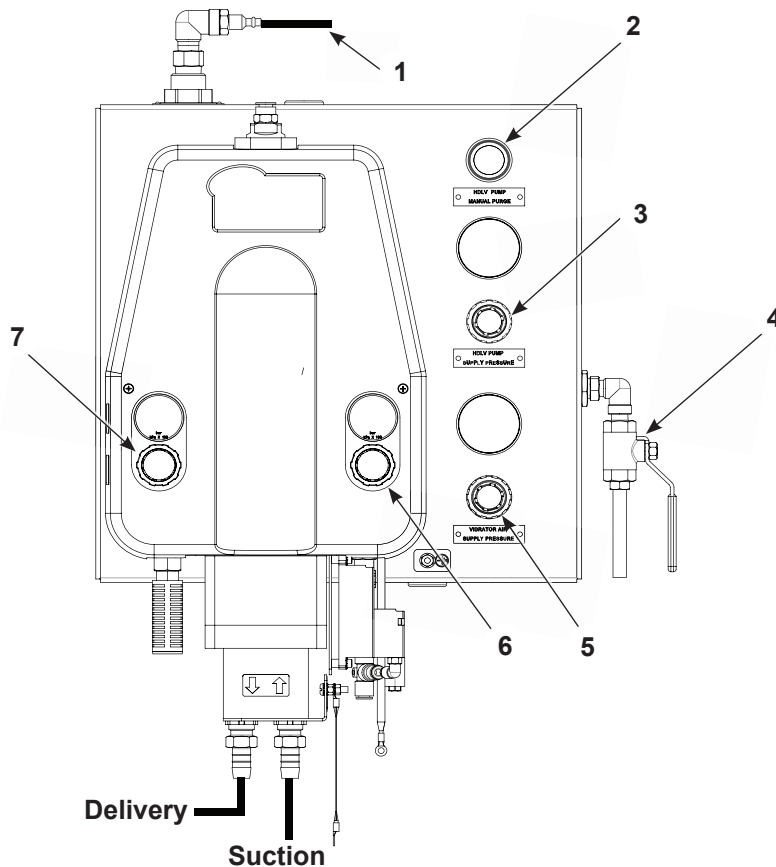


Figure 2 Pump Station and Pump Controls

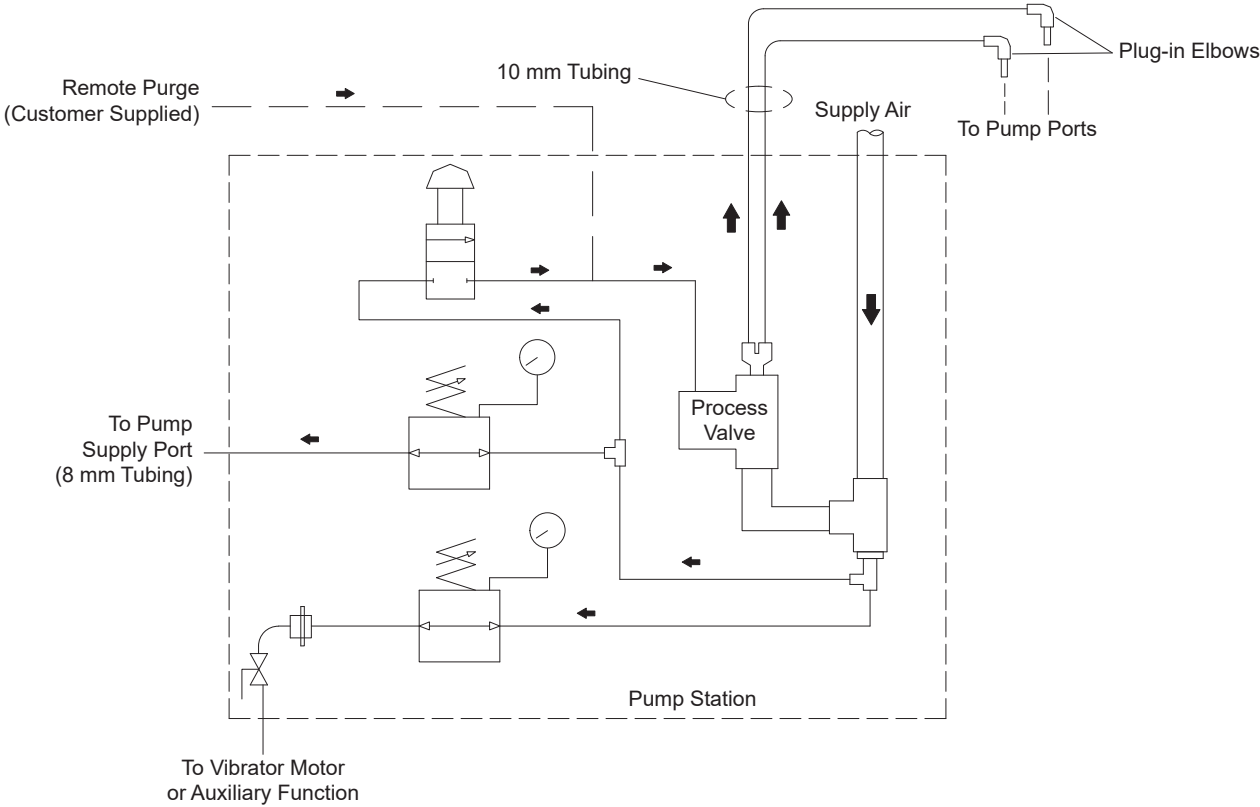


Figure 3 Pump Station Pneumatic Diagram

### Remote Purge Control

If you want to start and stop a purge remotely, install a tee in the pilot air line from the manual purge pushbutton valve to the process valve. Apply 4.8 bar (70 psi) to the process valve pilot port to purge the pump. Relieve the pressure to stop the pump.

# Parts

To order parts, call the Finishing Customer Support Center at (800) 433-9319 or contact your local Nordson representative.

For pump parts, refer to the pump manual 1619979.

Item	Part	Description	Quantity	Note
-	1620729	PUMP STATION, assembly, electric, HDLV, packaged	1	
1	1619673	• PUMP, high-capacity, HDLV, electric, barbed, Prodigy, packaged	1	
2	345977	• WASHER, lock, split, 1/4 in. steel, zinc	4	
3	984130	• NUT, hex, heavy, 1/4-20, steel, zinc	4	
4	1052893	• ELBOW, plugin, 10 mm tube x 10 mm stem, plastic	2	
5	900593	• TUBING, soft nylon, 10 mm x 1.0 mm	AR	A
6	247815	• HOSE, air, 1/4 in. ID x 6 ft	1	
7	247809	• STRAP, ground	1	

NOTE: A. Order in increments of one foot.

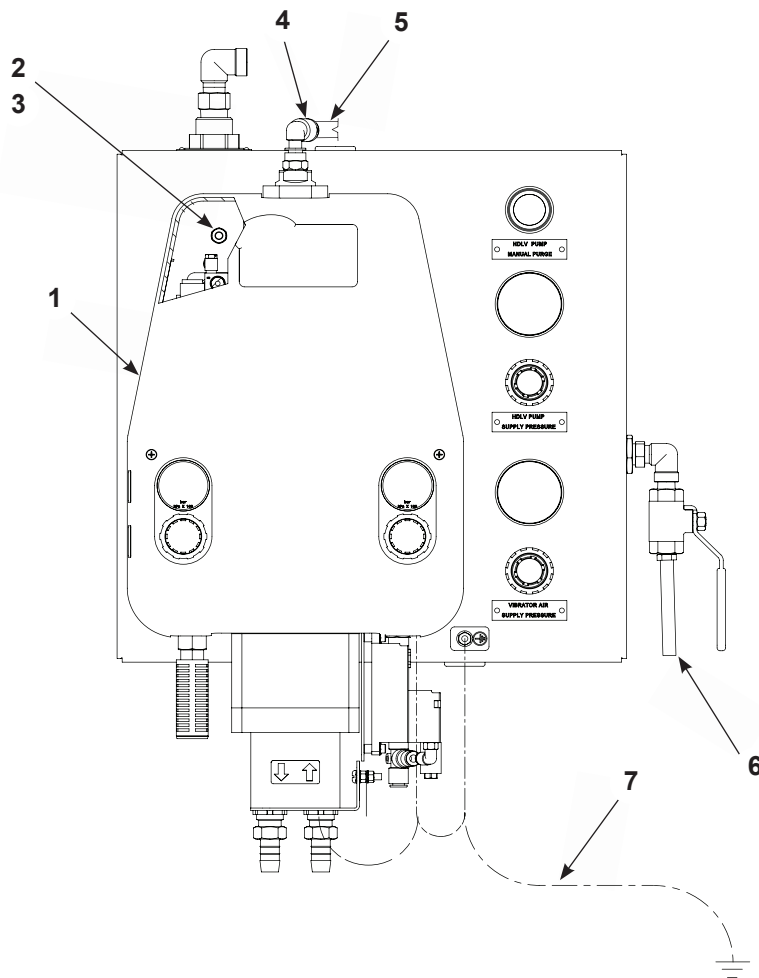


Figure 4 Pump Station Parts

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