Instruction Sheet
Document Number 1099092-02

Ink-Dot Reservoir Manifold

Description

See Figure 1. The Ink-Dot reservoir manifold is designed to replace existing reservoirs in Ink-Dot hydraulic systems. It uses the 1-liter bottles that the ink is shipped in to deliver ink to the system. The ink bottle threads into the manifold and is sealed by a gasket.

NOTE: A kit is available for systems that use 1/2-liter ink bottles. See the parts list for available kits.

Specifications

Item	Specification
Dimensions	See Figure 1
Maximum fluid operating pressure	20 psi (1.4 bar)
Typical application pressure	5 – 10 psi (0.35 – 0.70 bar)

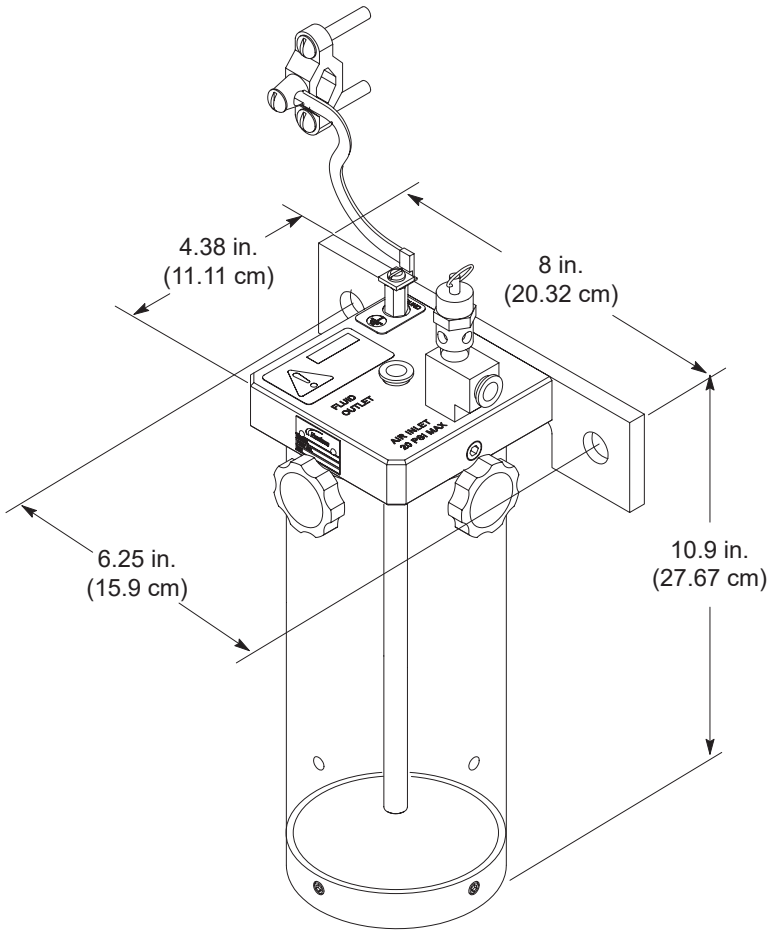

Figure 1 Ink-Dot Reservoir Manifold

Installation

Perform the following procedures to replace an Ink-Dot reservoir with an Ink-Dot reservoir manifold.

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

Read and understand the following procedures before installing this component into a system. Contact a local Nordson representative if you have questions regarding the installation of this component.

Removing the Ink-Dot Reservoir

WARNING: Relieve fluid and air pressure to the Ink-Dot system before performing the following procedure.

1. See Figure 2. Disconnect the hose or tubing (4) from the Ink-Dot reservoir (3).
2. Disconnect the air supply tubing (5) from the air pressure regulator (1).
3. Disconnect the air pressure regulator (1) from the Ink-Dot reservoir (3).
4. Remove the mounting hardware (2) from the Ink-Dot reservoir (3).

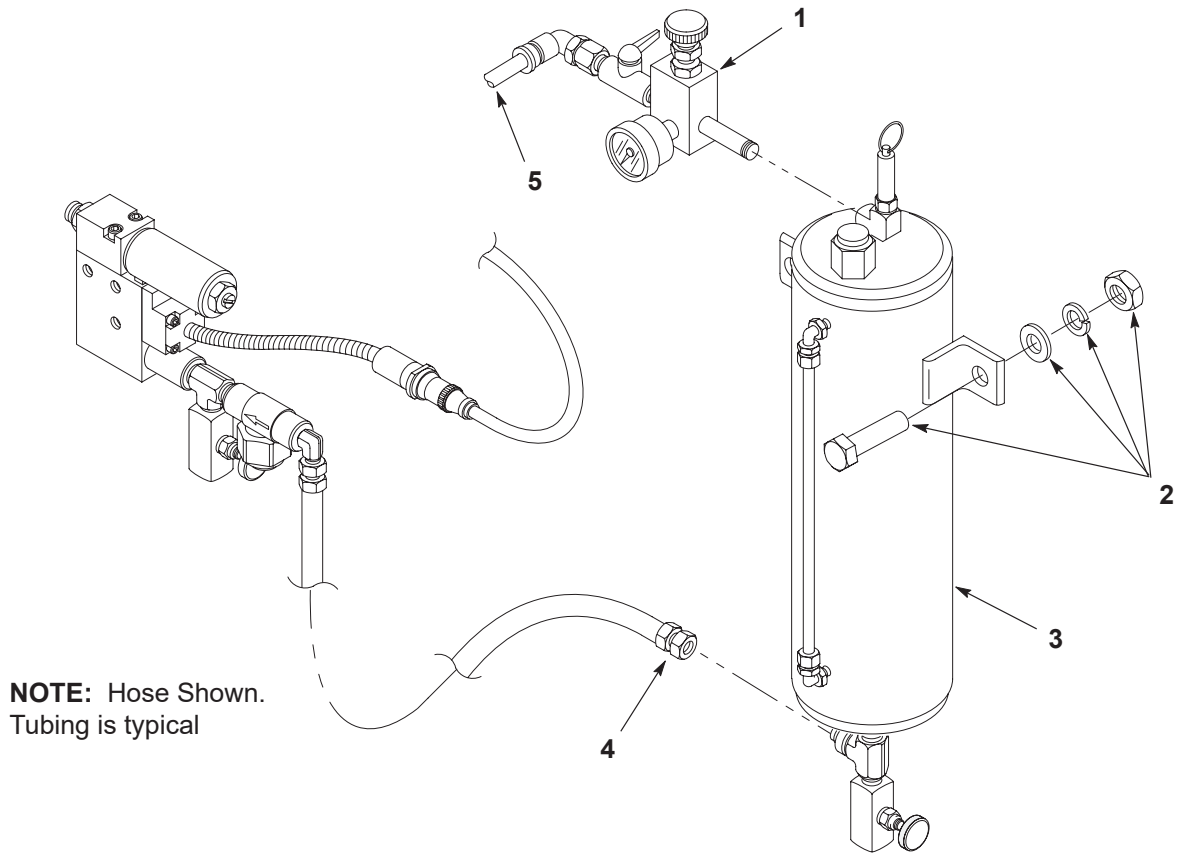

Figure 2 Removing the Ink-Dot Reservoir (Typical)

Installing the Ink-Dot Reservoir Manifold

1. See Figure 3. Install the Ink Dot reservoir manifold (6) using the existing mounting hardware (2). Tighten the screws securely.
2. Perform the following:
   a. Apply pipe thread adhesive (8) to the threads of the applicable connector (4 or 5).
   b. Install the applicable connector to the Ink-Dot reservoir manifold (6) and tighten securely.
   c. Connect the connector (10) to the fitting (4 or 5) and tighten securely.
3. Apply pipe thread adhesive (8) to the threads of the brass nipple on the air pressure regulator (1). Connect the regulator to the Ink Dot reservoir manifold (6).
4. Connect the air supply tubing (9) to the air pressure regulator (1).
5. Install the ground cable (7) to a true earth ground.
6. Install an ink bottle. Refer to the *Install an Ink Bottle* procedure.

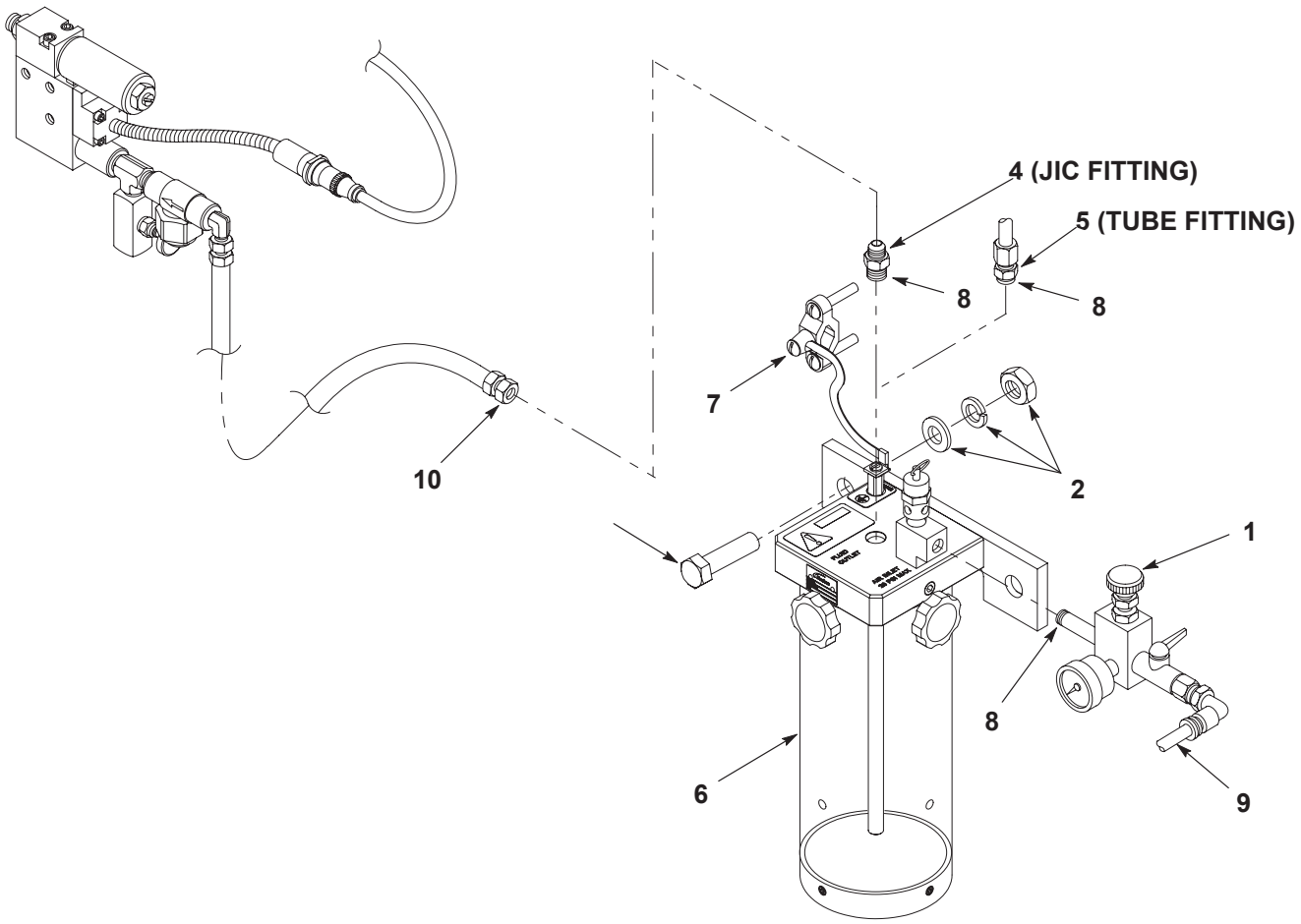

Figure 3 Installing the Ink-Dot Reservoir Manifold (Typical)

Installing an Ink Bottle

WARNING: Relieve fluid and air pressure to the Ink-Dot system before performing the following procedure.

1. See Figure 4. Remove the thumb screws (1) securing the shroud (2) to the manifold (4).

NOTE: Some ink bottles have a foil seal covering the opening. Remove the entire foil seal to ensure that the ink bottle is properly threaded onto the manifold.

2. Remove the cap from the ink bottle (3). If present, remove the foil seal from the ink bottle.

CAUTION: Use extreme care when tightening the ink bottle to prevent stripping the threads.

3. Install the ink bottle (3) as shown and tighten until it makes contact with the gasket in the manifold. Continue to tighten the ink bottle another ¼ to ⅓ turn to compress the gasket.
4. Install the shroud (2) using the thumb screws (1). Tighten the thumb screws finger tight.

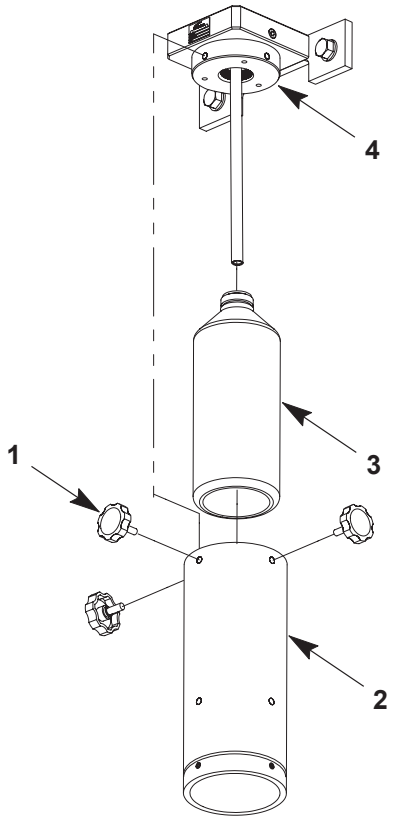

Figure 4 Installing an Ink Bottle

Operation

Operation is dependent upon the system application. Refer to the *Ink-Dot Hydraulic System* manual for more information.

Maintenance

WARNING: Relieve fluid and air pressure to the Ink-Dot system before performing the following procedure.

WARNING: Use appropriate respiratory and skin protection when using coating materials and solvents. Obtain and read the Material Data and Safety Sheets from the manufacturer before use, and follow the recommended handling and disposal procedures.

CAUTION: Use extreme care when tightening the ink bottle to prevent stripping the threads.

Maintenance consists of periodically wiping down the shroud using a solvent cloth and isopropyl alcohol.

Parts

To order parts, call the Nordson Industrial Coating Systems Customer Support Center at (800) 433−9319 or contact a local Nordson representative. See Figure 5 and the following parts list.

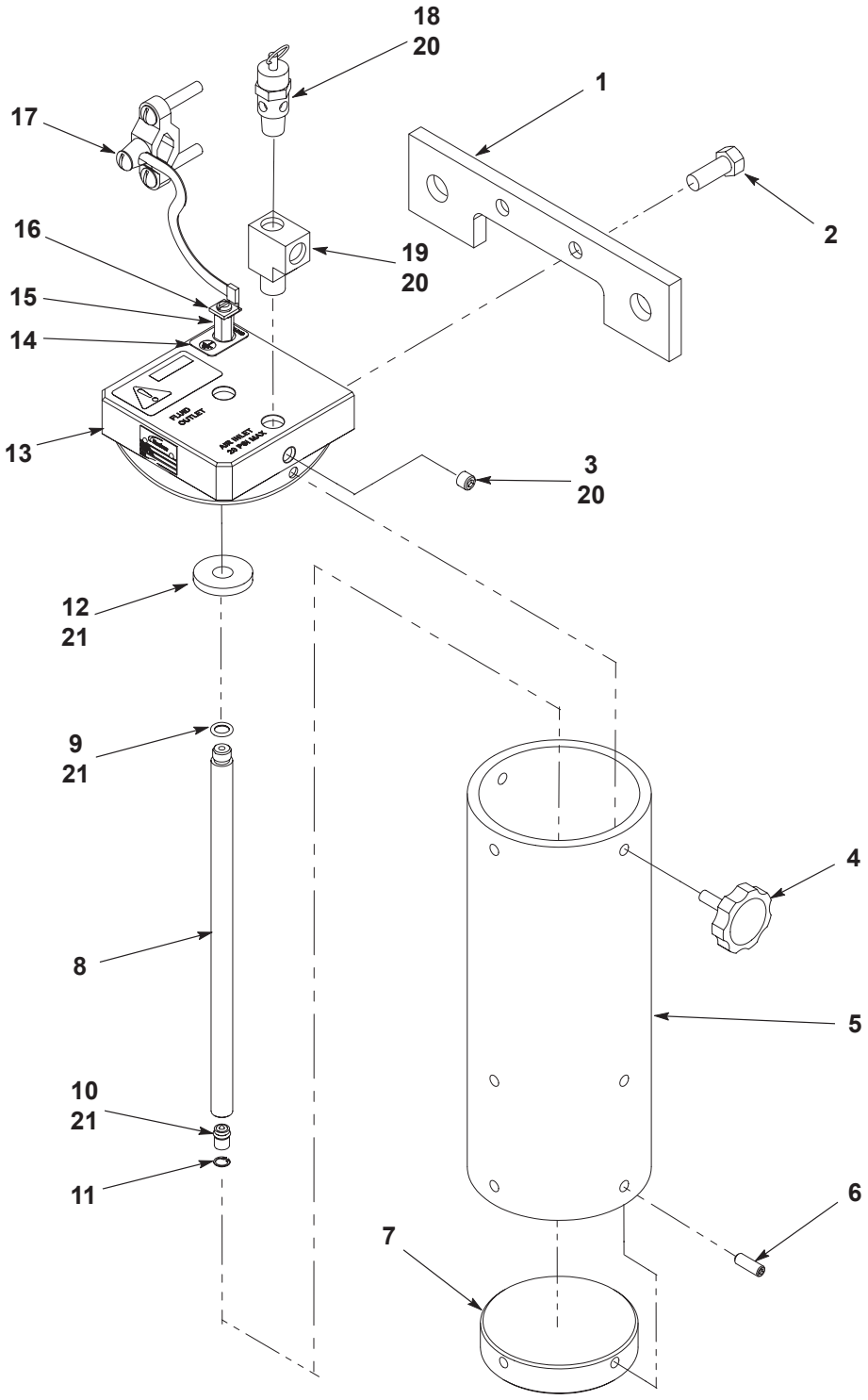

Figure 5 Parts

Ink-Dot Reservoir Manifold Parts List

See Figure 5.

Item	Part	Description	Quantity	Note
—	1099025	RESERVOIR, Ink-Dot	1	
1	- - - - - -	• BRACKET, mounting	1	
2	981710	• SCREW, hex, 3/8−16 x 0.75 in., cap, zinc	2	
3	973402	• PLUG, pipe, socket, flush, 1/8 in. NPT, zinc	1	
4	1099034	• SCREW, thumb	3	
5	1099242	• SHROUD, protective, w/decal	1	
6	- - - - - -	• SCREW, set, with Nylock, 1/4−20 x 0.75 in.	4	
7	- - - - - -	• CAP, end	1	
8	1099029	• TUBE, siphon, assembly	1	
9	945087	• O-RING, EPR, 3/16 in. tube	1	
10	333632	• RETAINING RING, internal, 0.313 in., stainless steel	1	
11	1099085	• VALVE, check, cartridge, w/O-ring	1	
12	1099028	• GASKET	1	
13	- - - - - -	• MANIFOLD	1	
14	240674	• TAG, ground	1	
15	- - - - - -	• STUD, ground	1	
16	132054	• RETAINER, wire	1	
17	240976	• CLAMP, ground with wire	1	
18	1099043	• VALVE, pressure relief, 25 psi, 1/4 in. NPT, brass	1	
19	973275	• TEE, pipe, 1/4 in. NPT, brass	1	
20	- - - - - -	• ADHESIVE, pipe/thread/hydraulic sealant	AR	
21	- - - - - -	• JELLY, petroleum	AR	
AR: As Required				

Optional Adapter Kit for 1/2 Liter Bottles

Part	Description	Note
1099036	SERVICE KIT, Ink-Dot reservoir, 0.5 liter bottle	

Issued 7/22

EU DECLARATION of Conformity

Product: Ink Dot Manifold Reservoir

Models: Ink-Dot

Description: This is a simple component used as part of the Ink Dot Spray system. The reservoir safely houses the customer's ink bottles for dispensing ink.

Applicable Directives:
2006/42/EC - Machinery Directive

Standards Used for Compliance:
EN/ISO12100

Principles:
This product has been manufactured according to good engineering practice.
The product specified conforms to the directive and standards described above.

Quality System DNV – ISO9001 Certified

Date: 09DEC21

Jeremy Krone
Supervisor Product Development Engineering
Industrial Coating Systems
Amherst, Ohio, USA

Nordson Authorized Representative in the EU

Person authorized to compile the relevant technical documentation.

Contact: Operations Manager
Industrial Coating Systems
Nordson Deutschland GmbH
Heinrich-Hertz-StraBe 42-44
D-40699 Erkrath

UK DECLARATION of Conformity

Product: Ink Dot Manifold Reservoir

Models: Ink-Dot

Description: This is a simple component used as part of the Ink Dot Spray system. The reservoir safely houses the customer's ink bottles for dispensing ink.

Applicable UK Regulations:
Supply Machinery Safety 2008

Standards Used for Compliance:
EN/ISO12100

Principles:
This product has been manufactured according to good engineering practice.
The product specified conforms to the directive and standards described above.

Quality System DNV – ISO9001 Certified

Date: 09DEC21

Jeremy Krone
Supervisor Product Development Engineering
Industrial Coating Systems
Amherst, Ohio, USA

Nordson Authorized Representative in the UK

Contact: Technical Support Engineer
Nordson UK Ltd.; Unit 10 Longstone Road
Heald Green; Manchester, M22 5LB.
England