



# Printing Ink Supply Pumps

*The Heartbeat of Consistent Color*

**Yamada**<sup>®</sup>  
[www.yamadainkump.com](http://www.yamadainkump.com)



# INNOVATIVE AND RELIABLE DESIGN




**The Yamada Corporation** has been a leading producer of industrial equipment since 1905 and of fluid handling products for over 65 years. As a pioneer of pumping technology, Yamada is known in many industries worldwide for its innovative products, superior quality, and unmatched reliability. Other companies may claim to be innovators, but an impressive history of delivering new products and solving customer problems confirms Yamada's position as an industry leader.

Yamada's reputation for manufacturing top quality products, allied with perennial efforts in research and development has created a strong foundation for market leadership. As an ISO 9001 certified corporation, stringent quality procedures are followed throughout the manufacturing process, including liquid testing of every pump prior to shipping.

The Yamada Corporation is headquartered in Tokyo, with primary manufacturing based in Sagami-hara City, Japan. Assembly facilities are located in The Netherlands and West Chicago, Illinois. Yamada America, Inc. is a wholly owned subsidiary of Yamada Corporation established in 1986 to provide service and support for the North, Central, and South American markets, through a highly trained network of distributors and representatives.

Yamada's line of **InkPRO® Ink Pumps** are the first pumps specifically engineered for printing ink applications and addresses issues which have historically plagued ink pumping systems; leaking gland seals, difficult and messy drum changes, air motor icing, and noisy operation among others. With the field tested and proven design, Yamada® **InkPRO® Ink Pumps** provide highly accurate flow rates under continuous (24/7) operation. The innovative pump architecture keeps the ink replenishment process simple, quick, and clean — eliminating unnecessary and costly press restarts due to ink-starved fountains.

Yamada® **InkPRO®** Ink Pumps — *The Heartbeat of Consistent Color.*



**InkPRO® 200**  
Drum-Type

**Yamada's "in-the-field" approach**  
has yielded an accurate, well-engineered ink pump  
in an easy-to-use, low-maintenance design.

**The Yamada® InkPRO® Ink Pump —**

**Pump Technology Specifically Designed For Printing Inks –**

Yamada Corporation, a pioneer in pumping products for 100 years, developed the InkPRO® exclusively for the transfer of high viscosity printing inks. Other manufacturer's products are designed for grease or spray applications and sell modified versions for pumping ink.

**Outside Accessible Air Valve** – Yamada has developed the latest in air valve technology to insure that your pump runs longer and requires less maintenance than leading competitive brands. If air valve inspection is necessary, there is no need to remove the pump from service - remove two bolts, access your air valve and minimize your down time.

**Unique Inductor Plate** – The transformable sealing system (U.S. patent no. 6,422,430) is designed to allow for very easy and clean drum changes.

**Oil Container** – The visible plastic oil container protects against ink leakage (see through container), maintains a lubricated plunger, and extends gasket life. Lubrication maintenance is minimal.

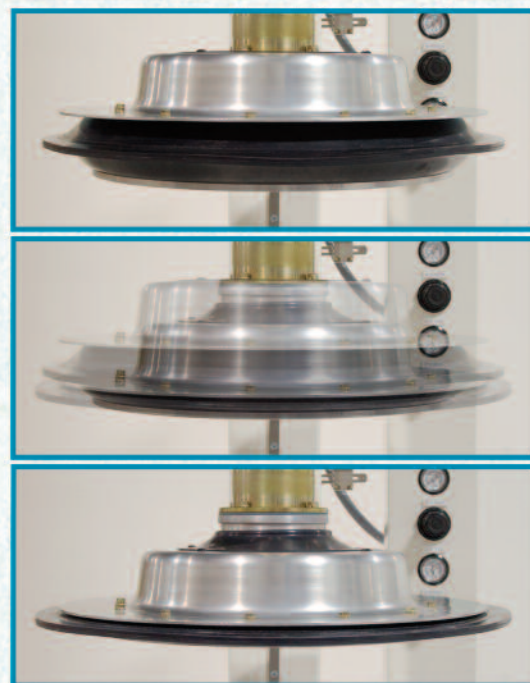
**Low-Level Sensor** – Easily adjustable pneumatic low-level sensor prevents pump dry running.

**Anti-Freezing Design** – The high efficiency air valve is designed to reduce air consumption and cycling speed is optimized to eliminate freezing.

**Metering** – Precision, high quality construction insures accurate metering.

**Less Noise** – Quiet operation (less than 70dB within 3 feet) vs. competitive models.

***InkPRO® Drum-Type  
Inductor Plate***





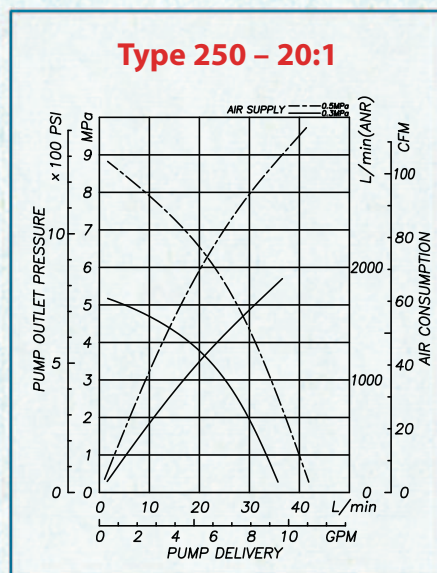
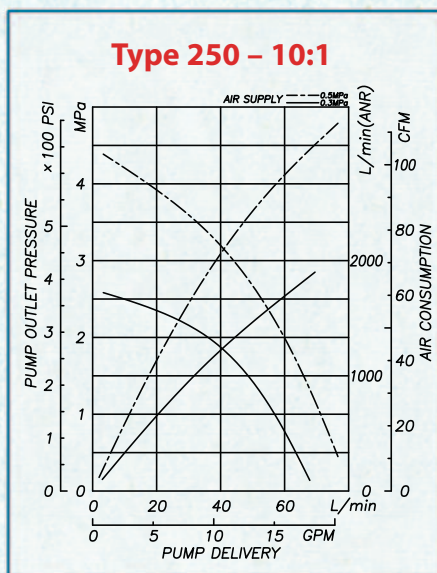
# InkPRO® 250 – Drum Type

## Specifications

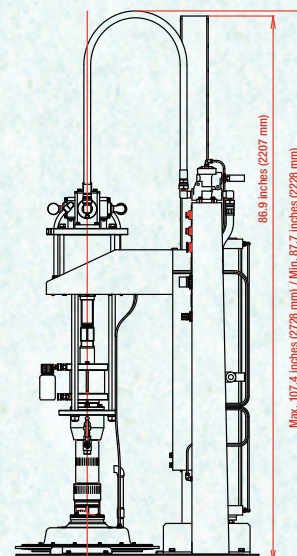
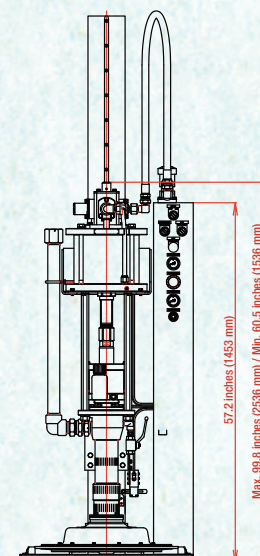
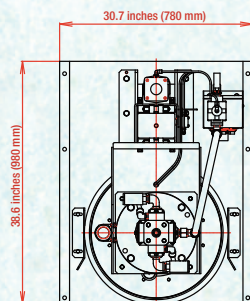
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| Air Motor Size               | 10 inches                                    | 10 inches                                    |
| Ratio                        | 10:1   | 20:1   |
| Operating Air Pressure Range | 0.2–0.7 MPa / 30–100 psi<br>2–7 bar          | 0.2–0.7 MPa / 30–100 psi<br>2–7 bar          |
| Discharge Volume / Cycle     | 0.373 gal. (1.411 ltr)                       | 0.195 gal. (0.740 lit.)                      |
| Max. Discharge Volume        | 18.6 GPM (70.6 LPM)                          | 9.8 GPM (37.0 LPM)                           |
| Max. Discharge Pressure      | 4.7 MPa / 682 psi / 47 bar                   | 9 MPa / 1305 psi / 90 bar                    |
| Air Consumption / Cycle      | 1.44 SCFM @ 43.5 psi<br>2.40 SCFM @ 72.5 psi | 1.44 SCFM @ 43.5 psi<br>2.40 SCFM @ 72.5 psi |
| Air Supply Dimensions        | 3/4 inch                                     | 3/4 inch                                     |
| Delivery Port Dimensions     | 1-1/2 inch                                   | 1-1/2 inch                                   |

InkPRO® 250  
Drum-Type

## Performance Curves



## Dimensions





# InkPRO® 200 – Drum Type

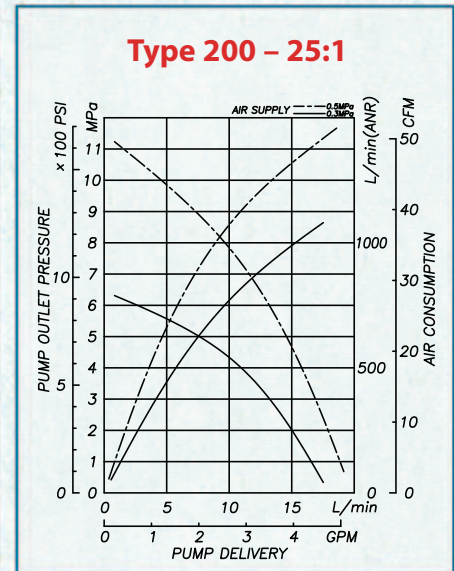
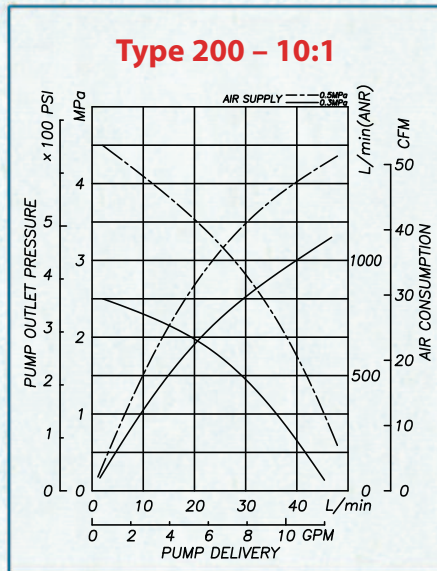
## Specifications

|                              |  |  |
|------------------------------|--|--|
| Air Motor Size               | 8 inches                                     | 8 inches                                     |
| Ratio                        | 10:1   | 25:1   |
| Operating Air Pressure Range | 0.2–0.7 MPa / 30–100 psi<br>2–7 bar          | 0.2–0.7 MPa / 30–100 psi<br>2–7 bar          |
| Discharge Volume / Cycle     | 0.248 gal. (0.940 ltr.)                      | 0.094 gal. (0.355 ltr.)                      |
| Max. Discharge Volume        | 12.4 GPM (47.0 LPM)                          | 4.7 GPM (17.8 LPM)                           |
| Max. Discharge Pressure      | 4.7 MPa / 682 psi / 47 bar                   | 11.7 MPa / 1697 psi / 117 bar                |
| Air Consumption / Cycle      | 0.91 SCFM @ 43.5 psi<br>1.52 SCFM @ 72.5 psi | 0.91 SCFM @ 43.5 psi<br>1.52 SCFM @ 72.5 psi |
| Air Supply Dimensions        | 3/4 inch                                     | 3/4 inch                                     |
| Delivery Port Dimensions     | 1-1/2 inch                                   | 1-1/4 inch                                   |

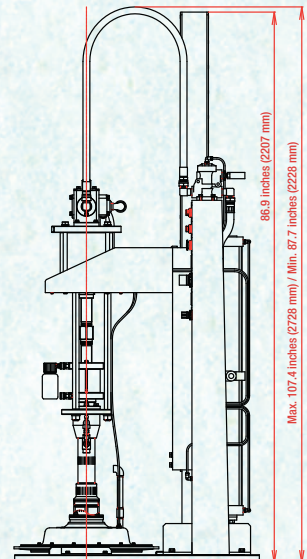
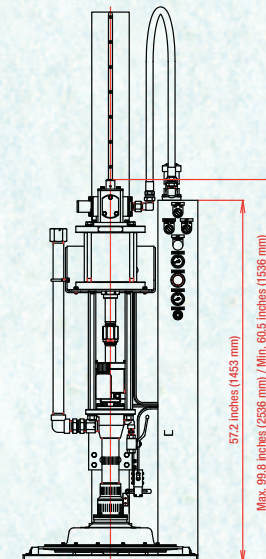
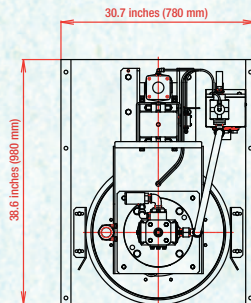
InkPRO® 200  
Drum-Type



## Performance Curves



## Dimensions





# InkPRO® 200 and 250

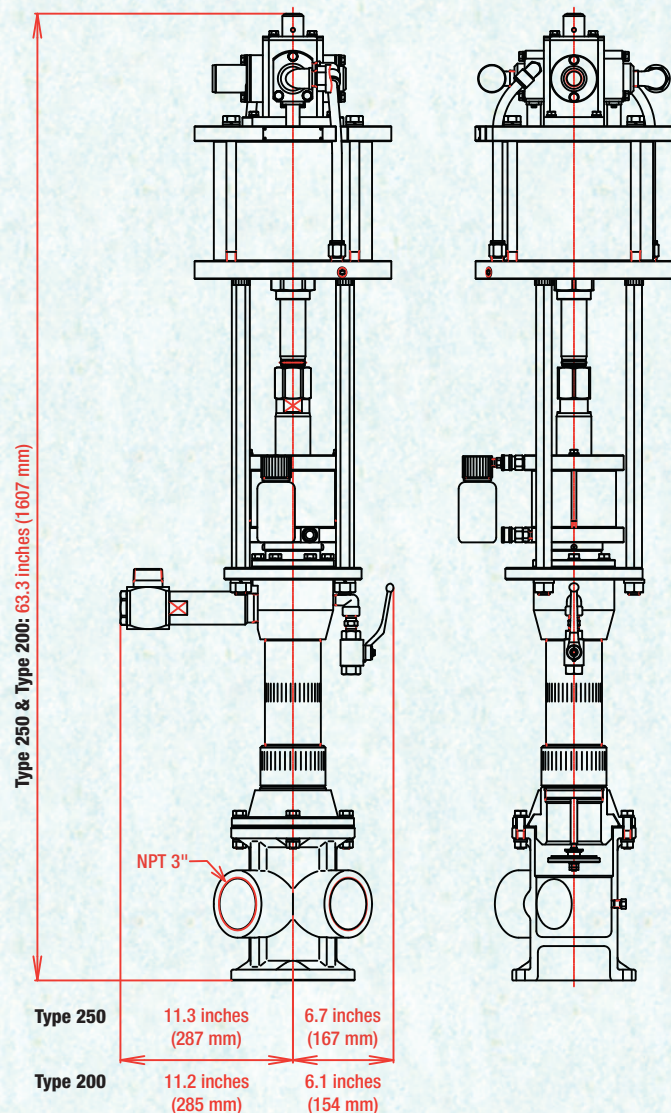
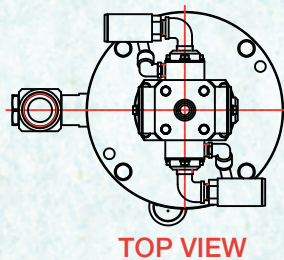
## Bulk /Tote Type Ink Pumps

### Specifications

See Drum-Type Pump Specifications and Performance Curves on preceding pages.



**Bulk/Tote Base  
Retrofits to Existing  
Installations**





# InkPRO® Ink Pump

## Accessories & Utility Pumps



### Pale Top Oil Supply Pump

Part #1986

Used to supply ISO-grade 10 (additive-free) spindle oil to the 200 or 250 Series oil container.

### Spindle Oil Evacuation Gun

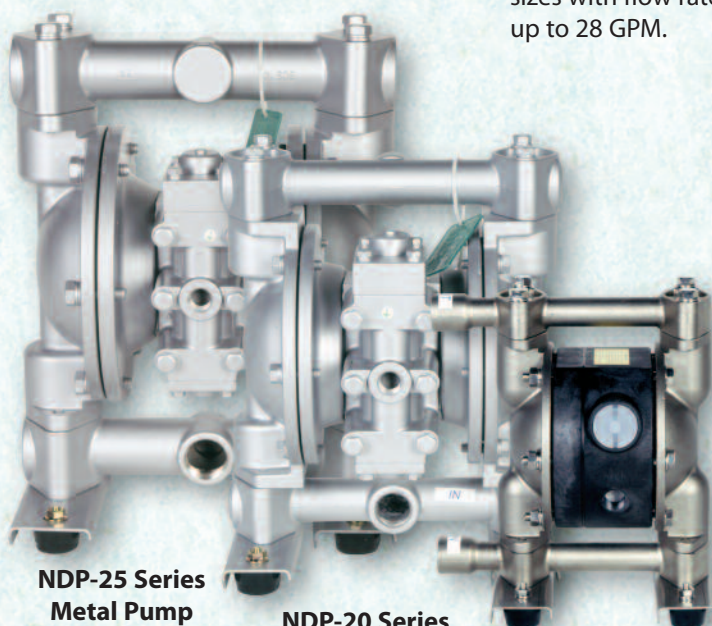
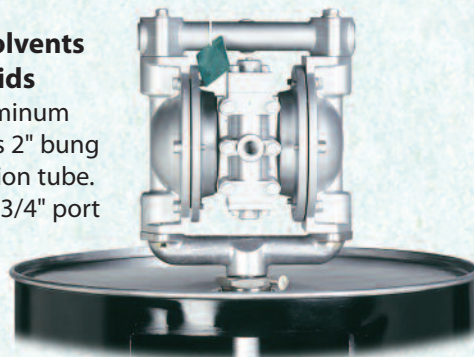
Part #1225

Used for evacuation of oil from the 200 or 250 Series oil container.



### Drum Pump for Solvents and Washing Liquids

Stainless steel or aluminum construction includes 2" bung adapter and 33" suction tube. Available in 3/8" and 3/4" port sizes with flow rates up to 28 GPM.



**NDP-25 Series  
Metal Pump**

**NDP-20 Series  
Metal Pump**

**NDP-15 Series  
Metal Pump**

**Yamada NDP Series Air-Powered Double Diaphragm Pumps** for dampener recirculation system or flexographic and rotogravure inks.

#### Applications:

Low viscosity inks; solvents and washing fluids  
Wetted materials: 316 Stainless Steel, Aluminum, Polypropylene/Santoprene®, and PTFE. Add'l sizes & materials available – see form #GB0604  
Port Sizes: 1/2", 3/4", and 1" fluid ports  
Air Supply Pressure: 20–100 PSI (1.4–7kfg/cm)  
Flow Rates from 15–49 GPM  
Maximum Size Solid from 1/32"–3/16"  
Visit [www.yamadapump.com](http://www.yamadapump.com) for further details, or phone 800 990-7867.



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