

# **JOHN BLUE**™

GUARANTEED TO DO THE JOB.



2019-2020

## PRODUCT CATALOG



**GUARANTEED TO DO THE JOB.**

John Blue Company manufactures agricultural and industrial pumps and accessories for a wide range of applications including irrigation, liquid metering, and chemical injection.



- ▶ Trusted for 133 years
- ▶ Industry Leader
- ▶ Live Phone Support
- ▶ Quality Guarantee
- ▶ Premium Materials



## The Pump Company Since 1886

Since 1886, farmers and producers have counted on John Blue’s innovative and state-of-the-art agricultural products to provide reliable and durable service. More than a century later, its legacy thrives, as John Blue Company remains a leader and pioneer in precision ag equipment. Industry innovation remains a priority, and our product offering continues to evolve each year as we engineer and produce products that farmers need.

Our commitment to outstanding design, premium materials and uncompromising craftsmanship is what drives the motivation behind our unconditional promise that John Blue products are **“Guaranteed to do the job”**.

### AUTHORIZED DEALER NETWORK:

Genuine pumps, parts, and service are distributed through an extensive authorized dealer network. Contact us to find your nearest dealer, or visit the Dealer Locator on our website.

[www.johnblue.com/dealers](http://www.johnblue.com/dealers) »

### WHERE TO FIND US

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Reference the John Blue Product Catalog from your devices!

# Company History & Timeline

## Nov. 28 1861

John Blue Sr. born in Scotland County, NC to Angus and Mary Ann McLaurin Blue. He was the eldest of 9 children.



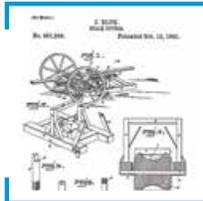
## 1883

At the age of 22, John Blue paid his father, Angus Blue, \$2,000 for 100 acres of land and continued to improve and develop tools to use on cotton farms that would utilize mule power, rather than man power. He invented a cotton planter made of iron, and a machine to spread fertilizer.



## 1891

John Blue and his friend and fellow inventor Mr. McCormick, submit their first product patent for a stalk cutter. Two years later, John Blue submits his second patent for a fertilizer distributor and cotton planter.



## 1945

10 years after John Sr.'s death, a fire destroyed the North Carolina foundry. Seeking a more convenient source of iron and coal, John Blue Jr. moved the company to a large foundry in Huntsville AL on Bob Wallace Avenue. Here, the company poured its own castings, and had its own welding and machine shops.



## Mid-1960s

The Blue family sold the business to New York State firm Subscription Television Inc. (STV), but it kept the John Blue Company name.



## Late 1800's

John Blue's curious mind, combined with the blacksmith skills he learned as a youth, led him to spend hours making farm tools in a small blacksmith shop on the family cotton farm.



## 1886

Blue and his father established a business on their land in Laurinburg NC, repairing cotton gin parts and working on farm tools. The business grew and a shop and foundry were built across the street so his inventions could be mass produced and sold to other cotton farmers. It operated for many years and still stands as the Museum of Agriculture and History.



## Aug. 11 1901

John Blue Jr. was born, the youngest of 3. Over the years, he developed a very sharp business mind and set out to make implements available to all farmers while continuing to lower his cost of production. John Blue Jr. obtained patents for all of his inventions, including the Guano Distributor in 1937, and ensured that patents protected all of his improvements.



## 1952

In 1952, John Blue Jr. submitted the first patent from Huntsville Alabama for the first metering pump system. "LIQUID FERTILIZER APPLYING APPARATUS". The 1950's were a time of great innovation, and more than 20 patents were submitted over the next decade.



## 1961

Due to the increasing use of liquid fertilizer and liquid suspensions, the company devoted R&D to designing implements to handle it. In 1961, the John Blue tank division was created to fill this great need.



# Company History & Timeline

APPLICATION PUMPS AND ACCESSORIES

CENTRIFUGAL PUMPS

IRRIGATION INJECTION PUMPS

DIAPHRAGM PUMPS

ANHYDROUS AMMONIA

SPECIALTY PUMPS

MISC. ACCESSORIES AND SERVICE KITS

### Dec. 10 1968

John Blue Jr. was killed in an auto accident. His legacy lives on through his descendants and through the John Blue Cotton Festival which is held every October at his childhood home in Laurinburg, NC.



### By 1980

Ownership transitioned back into private hands, a division of Burnley Corporation. It marketed its products through branch Service Centers and a network of Authorized Sales & Service Dealers across the US and Canada. It purchased a building on Slaughter Rd. in Madison AL to house the "Rex" tank company.



### 1986

Major changes in the ag economy led the company to refine its product offering and focus on pumps, flow dividers, manifolds and accessories for applying liquid chemicals and fertilizers. The Bob Wallace location was liquidated at auction and many were laid off. The remaining business moved to Slaughter Rd.



### 2000

The company purchased CDS Ag Industries, a manufacturer of squeeze tube and irrigation pumps since 1980, and formed CDS-John Blue Company, a division of Advanced Systems Technology.



### Aug. 2019

CDS-John Blue Company returned to its roots by becoming John Blue Company once again. The company now has over 50 patents and continues to develop high-quality, dependable, and accurate solutions to improve farming productivity and accuracy.



### 1960s/70s

John Blue Company was an economic powerhouse in Huntsville, employing 700 to 800 at its peak. John Blue made pumps for agricultural and industrial operations, fertilizer spreaders, sprayers, cotton wagons, and metering devices for Anhydrous Ammonia. During 1974-76 John Blue also produced 200 Blue G-1000 tractors.



### 1985

The Rex tank company shut down when the farm economy crashed and plastic tanks rose in popularity. Production moved back to the Bob Wallace Ave. facility. A 10-month defense contract for ammunition boxes kept the company going during this time (it was the only item produced by the company).



### 1995

With a resurgence in farming and equipment manufacturers, a new building was constructed on the west side of Slaughter Road (known as Pinehurst Drive) to accommodate the business and to modernize operations.



### 2014

After steady growth and the addition of new liquid fertilizer products, the company outgrew its Pinehurst Drive building. It acquired a larger facility at 165 Electronics Blvd. near the Huntsville International Airport and Intermodal Center.



### Future

We are committed to providing producers with the most reliable and accurate solutions at the best price, all while delivering quality engineered solutions and outstanding customer support. We embrace and promote the John Blue legacy and will never forget the passion and ingenuity of where we came from.



# Helpful Information

## ONLINE AUTHORIZED DEALER LOCATOR



Genuine pumps, parts, and service are distributed through an extensive authorized dealer network. Contact us to find your nearest dealer, or visit the Dealer Locator on our website.

[www.Johnblue.com/dealers](http://www.Johnblue.com/dealers) »

## JOHN BLUE COMPANY ONLINE CALCULATORS QUICK REFERENCE:

### CALCULATIONS AT YOUR DESK OR IN THE FIELD—WORKS ON DESKTOP AND MOBILE!

Our popular agricultural calculators are available for your John Blue ground driven piston pumps, squeeze pumps, hydraulically driven piston pumps, squeeze tube pumps, VisaGage II flow monitors, liquid and NH3 blockage monitor systems. These calculators were developed to help you get the best results from your John Blue equipment by helping to identify and establish settings, application rates, and a variety of other useful parameters. Both English and metric units of measurement are supported. The calculators will work at home, in the office, or in the field and are designed specifically to work across most modern computers, tablets, and mobile phones.

Use the QR codes to quickly access the mobile version of the calculators!

Should you require assistance with one of these calculators, please call us toll free at 1-800-253-2583 or +1 256-721-9090.

### AVAILABLE CALCULATORS:



#### **NEW! Hydraulic Drive Metering Piston Pumps:**

Calculate your hydraulically driven metering pump's output in gallons/liters per revolution (GPR/LPR) and gallons/liters per minute (GPM/LPM), revolutions per minute (RPM), and the pump's respective setting. The calculator works in both standard and metric units.



#### **Ground Drive Metering Pumps:**

Calculates ground driven piston pump and squeeze tube pump settings, application rates, and other metering pump flow parameters.



#### **VisaGage II and Liquid Blockage Monitor System (LBMS) Flow Monitors:**

Calculates the corrected flow rate based on your fertilizer weight. In doing so, it determines the most suitable ball to use in your VisaGage II or LBMS flow monitor.



#### **NH3 VisaGage II with Liquid Blockage Monitor System (LBMS):**

Calculates the corrected flow rate based on the amount of nitrogen being applied, your ground speed, and the distance between your crop rows. In doing so, the calculator determines the most suitable ball to use in your NH3 VisaGage II with LBMS flow monitor.



#### **Orifice Selector Plate Application Chart:**

Use this chart to choose the correct orifice size for your application for water and solutions other than water.

# Application Pumps

AND ACCESSORIES



John Blue has been the industry standard for over 130 years in producing innovative, robust, and reliable agricultural equipment. This legacy continues on with all of our metering pumps and accessories. When you choose John Blue, you can rest assured that you are getting the most reliable, dependable, and accurate system for fertilizer delivery on the market today. Our products, backed by our highly trained and dedicated support staff, are always “guaranteed to do the job”.

Give our technical experts a call at 1-800-253-2583 and we'll be happy to help you choose a fertilizer system that is perfect for your application.

APPLICATION PUMPS  
AND ACCESSORIES

CENTRIFUGAL  
PUMPS

IRRIGATION  
INJECTION PUMPS

DIAPHRAGM  
PUMPS

ANHYDROUS  
AMMONIA

SPECIALTY  
PUMPS

MISC. ACCESSORIES  
AND SERVICE KITS

# Application Pumps

## AND ACCESSORIES

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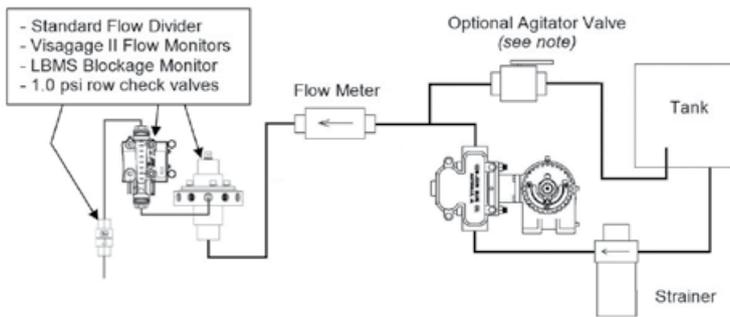
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# The Most Reliable System

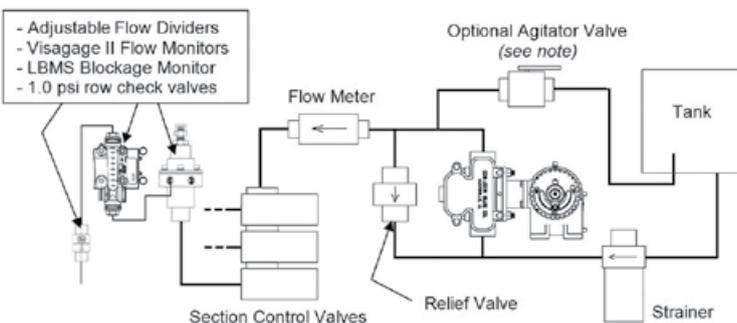


THE MOST RELIABLE LIQUID FERTILIZER SYSTEM ON THE MARKET TODAY IS SIMPLE.

### FERTILIZER SYSTEM SCHEMATIC



### FERTILIZER SYSTEM SCHEMATIC WITH SECTION CONTROL



- A great system starts with a Next Generation Piston Pump.
- Choose to drive your system with a Variable Rate Hydraulic Drive (VRH) or a Ground Drive System (DRV).
- If needed, add a Pulsation Dampener for smooth application delivery for low-flow applications.
- Choose a divisional system for equal distribution and accuracy.
- Add the VisaGage II to monitor your flow or couple the VisaGage II to the Liquid Blockage Monitor System (LBMS). With LBMS you will know the flow from your tractor cab.
- Add in-line check valves to stop unwanted dripping at the application point.
- Set the fertilizer rates and get the job done.

Typical schematic for a hydraulically driven system. Flow meters are only necessary with a hydraulically driven system and are not necessary or typically used for a ground driven system.

# Selecting Your System

## THE JOHN BLUE COMPLETE SYSTEM IS:

**Accurate:** Application rates DO NOT change due to temperature fluctuations.

**Precise:** A John Blue Piston Pump can pull product from your tanks for even application rates.

**Flexible:** Available with either a Variable Rate Hydraulic or Ground Drive Kit.

**Reliable:** Built to last, engineered for performance.

## HOW TO SELECT A COMPLETE FERTILIZER PACKAGE:



- How many rows do you have?
- What is your swath width (row spacing distance multiplied by # of rows)?
- What application rate do you want to achieve?

## SELECT THE PISTON PUMP THAT BEST FITS YOUR NEEDS.

(see charts under each pump series description pages 8-15).



## CHOOSE TO DRIVE YOUR SYSTEM WITH A VARIABLE RATE HYDRAULIC DRIVE (VRH) OR A GROUND DRIVE SYSTEM (DRV):

### DRV KITS: (PAGES 17-18)

- DRV-3300 Complete Ground Drive System, including pump mount and drive. It automatically adjusts for your terrain.
- DRV-3200 Universal Mount that uses the existing shaft from your planter.
- DRV-3100 Gauge Wheel only.



### VRH KITS: (PAGES 19-21)

Bar mount and direct drive kits to fit common electronic packages:

- JD series fits John Deere® CANbus Planters using GreenStar™ GS2 and GS3
- PWM (pulse width modulation) series is for Raven®, Ag Leader®, Dickey-john® and others. Used for variable rate and sectional shut-off.
- MAN (manual) series uses your tractor's hydraulics for a simple hydraulically driven system.
- DRV-3000 is ideal for fixed height. Includes pump mount and drive.





## LOW-FLOW APPLICATION THAT NEEDS VERY SLOW PUMP RPM? (PAGE 19)

- Our Pulsation Dampener allows the piston pump to be turned slower for low application rates, delivering fertilizer smoothly across your field.
- It conveniently threads directly into the outlet port of your piston pump or plumbed remotely into your discharge line.
- Constructed of robust schedule 80 PVC pipe, it forms an air cushion in the 1 1/2" pipe body making the flow extremely smooth.



OR



## CHOOSE A DIVISIONAL SYSTEM FOR EQUAL DISTRIBUTION:

### FLOW DIVIDERS: LOW PRESSURE, SELF-ADJUSTING DIVISION (PAGE 22)

- How many outlets do you need?  
For 6 outlets or sectional shutoff select the FD-0610.  
For 12 outlets or less select the FD-1210.  
For 20 outlets or less select the FD-2010.

### OR ORIFICE SELECTOR: HIGH PRESSURE, FIXED DIVISION (PAGE 24)

1. Turn your John Blue Visagage II into a self-contained orifice changing system
2. Simply select from one of four orifice settings on each disc. Four discs provide for sixteen different options.
3. Adjustment is quick no need to travel to each row unit and work with plumbing near the ground



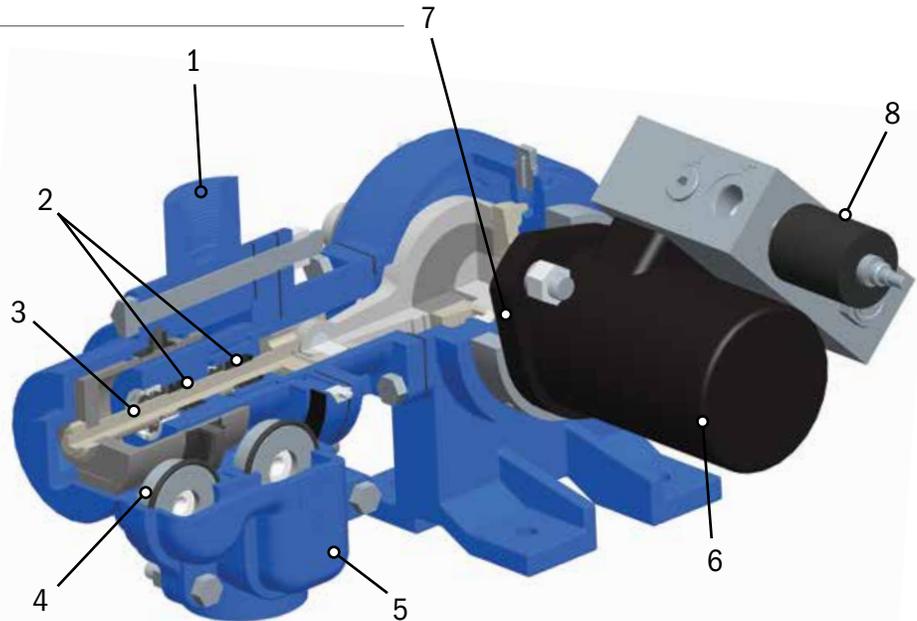
## KNOW YOUR FLOW™ WITH VISAGAGE FLOW MONITORS AND THE LIQUID BLOCKAGE MONITOR SYSTEM: (PAGES 24-30)

- Determine the number of outlets you need.
- Bank together single columns, sets of four, or any combination you choose. Clasp them together with the stainless steel clips and Viton® o-rings and its ready to go.
- Couple it to LBMS and see both low-flow and no-flow from your tractor cab with the Premium Wireless System, Standard Control Wired Panel, or ISOBUS system.

# Piston Pumps (NGP)

## NGP-6055-HY

All John Blue Ag Piston Pumps have been designed, engineered, and extensively field tested to set the standard for liquid metering pumps.



## NEXT GENERATION PISTON PUMP FEATURES:

1. Inlet and Outlet Flanges make it easier to plumb your system and eliminate leaks with flange fittings. (Add -F after model number).
2. Double piston rod seals work in unison to offer multiple stage protection between the wet end and crankcase.
3. Outboard cylinder plunger packing can be inspected or replaced in the field without removing the hoses.
4. Check Valves are designed for positive seal, easy priming and long life.
5. Single Valve Cap provides easy access to check valves without removing the hoses. Simple to service in the field.
6. Common or Independent Manifolds are available on the double pumps. Independent manifolds allow for dual flow divider usage or half-width application.
7. Main Shaft Seals incorporate a dual wiper that is enclosed in a grease cavity to flush out contamination. This helps to extend the life of the pump.
8. Direct Hydraulic Drive Piston Pumps are available along with standard Ground Drive (DRV) and Variable Rate Hydraulic Drive Kits (VRH).

*Note: All standard Piston Pumps are cast iron and manufactured with Viton® Piston Packings and Buna O-rings and rod packings. Most commonly used with liquid fertilizers that have pH greater than 5 and standard herbicides that are compatible with Buna and Viton®.*

# Piston Pumps (NGP)

APPLICATION PUMPS AND ACCESSORIES

CENTRIFUGAL PUMPS

IRRIGATION INJECTION PUMPS

DIAPHRAGM PUMPS

ANHYDROUS AMMONIA

SPECIALTY PUMPS

MISC. ACCESSORIES AND SERVICE KITS



## NGP-4055-F SERIES\*

|                               |  |
|-------------------------------|--|
| Single Piston - Double Acting | Rated Speed - 450 RPM                          |
| Stroke - Variable             | Inlet - 1" Inlet, 200 series flanges standard  |
| Rated Flow - 10.2 GPM         | Outlet - 1" Inlet, 200 series flanges standard |
| Rated Pressure - 120 PSI      | Clutch - No Clutch                             |

\*Equivalent LM-1250 series

## NGP-4055-HYF (HYDRAULIC DRIVE PISTON PUMP)

|  |  |
|--|--|
| Single Piston - Double Acting                      | Rated Speed - 550 RPM                                |
| Stroke - Fixed                                     | Inlet/Outlet - 1" inlet, 200 series flanges standard |
| Rated Flow - 10.2 GPM                              | Rated Pressure - 120 PSI                             |
| Accepts SAE A 2-bolt hydraulic motor with 1" shaft |  |

### HYDRAULIC MOTOR/PWM MANIFOLD KITS AVAILABLE:

- 116205-91:** Flow-thru style manifold
- 116205-91D:** **NEW** Dead-head style manifold

| Rows | Swath in Inches |      | NGP-4055-F Application Range in GPA at 5 MPH |       |                 |      |
|------|-----------------|------|--|-------|-----------------|------|
|      |                 |      | 30 Inch Spacing                              |       | 36 Inch Spacing |      |
|      | 30              | 36   | Min  | Max   | Min             | Max  |
| 4    | 120             | 144  | 4.5  | 101.0 | 3.7             | 84.2 |
| 8    | 240             | 288  | 2.2  | 50.5  | 1.9             | 42.1 |
| 12   | 360             | 432  | 1.5  | 33.7  | 1.2             | 28.1 |
| 16   | 480             | 576  | 1.1  | 25.2  | 0.9             | 21.0 |
| 24   | 720             | 864  | 0.7  | 16.8  | 0.6             | 14.0 |
| 36   | 1080            | 1296 | 0.5  | 11.2  | 0.4             | 9.4  |

All calculations based on ground speed of 5 MPH. Rated Flow Based on 12 lbs. per gallon fertilizer.



## NGP-5055-DRF SERIES

|                               |  |
|-------------------------------|--|
| Double Piston - Double Acting | Rated Speed - 450 RPM                          |
| Stroke - Variable             | Inlet - 1" Inlet, 200 series flanges standard  |
| Rated Flow - 20.4 GPM         | Outlet - 1" Inlet, 200 series flanges standard |
| Rated Pressure - 120 PSI      | Clutch - No Clutch                             |

| Rows | Swath in Inches |      | NGP-5055-DRF Application Range in GPA at 5 MPH |       |                 |       |
|------|-----------------|------|--|-------|-----------------|-------|
|      |                 |      | 30 Inch Spacing                                |       | 36 Inch Spacing |       |
|      | 30              | 36   | Min  | Max   | Min             | Max   |
| 4    | 120             | 144  | 9.2  | 207.9 | 7.7             | 173.3 |
| 8    | 240             | 288  | 4.6  | 104.0 | 3.9             | 86.6  |
| 12   | 360             | 432  | 3.1  | 69.3  | 2.6             | 57.8  |
| 16   | 480             | 576  | 2.3  | 52.0  | 1.9             | 43.3  |
| 24   | 720             | 864  | 1.5  | 34.7  | 1.3             | 28.9  |
| 36   | 1080            | 1296 | 1.0  | 23.1  | 0.9             | 19.3  |

All calculations based on ground speed of 5 MPH. Rated Flow Based on 12 lbs. per gallon fertilizer.

# Piston Pumps (NGP)



## NGP-5655-ARF SERIES

|  |                       |
|--|-----------------------|
| Double Piston - Double Acting                                      | Rated Speed - 450 RPM |
| Stroke - Variable  | Clutch - No Clutch    |
| Rated Pressure - 120 PSI   |                       |
| Rated Flow: 31.2 GPM total; 10.2 GPM small side; 21 GPM large side |                       |
| Inlet/Outlet small cylinder head - 1" FPT 200 series flanges       |                       |
| Inlet/Outlet large cylinder head - 1 1/2" FPT 220 series flanges   |                       |

Additional model options, including flanges, on page 16

- » Apply two products at two rates with one pump
- » Max ratio 10 to 1, min ratio 2 to 1

| Rows | Swath in Inches |      | NGP-5655-ARF Application Range in GPA at 5 MPH (small side of pump) |       |                 |      |
|------|-----------------|------|---|-------|-----------------|------|
|      |                 |      | 30 Inch Spacing   |       | 36 Inch Spacing |      |
|      | 30              | 36   | Min   | Max   | Min             | Max  |
| 4    | 120             | 144  | 4.6   | 104.0 | 3.9             | 86.7 |
| 8    | 240             | 288  | 2.3   | 52.0  | 2.0             | 43.3 |
| 12   | 360             | 432  | 1.6   | 34.7  | 1.3             | 28.9 |
| 16   | 480             | 576  | 1.2   | 26.0  | 1.0             | 21.7 |
| 24   | 720             | 864  | 0.8   | 17.4  | 0.7             | 14.5 |
| 36   | 1080            | 1296 | 0.5   | 11.6  | 0.5             | 9.7  |

The chart above is for the small side of the pump. Calculate first the small side and then calculate the large side with the chart below  
 All calculations based on ground speed of 5 MPH. Rated Flow Based on 12 lbs. per gallon fertilizer.

| Rows | Swath in Inches |      | NGP-5655-ARF Application Range in GPA at 5 MPH (large side of pump) |       |                 |       |
|------|-----------------|------|---|-------|-----------------|-------|
|      |                 |      | 30 Inch Spacing   |       | 36 Inch Spacing |       |
|      | 30              | 36   | Min   | Max   | Min             | Max   |
| 4    | 120             | 144  | 9.2   | 207.9 | 7.7             | 173.3 |
| 8    | 240             | 288  | 4.6   | 104.0 | 3.9             | 86.6  |
| 12   | 360             | 432  | 3.1   | 69.3  | 2.6             | 57.8  |
| 16   | 480             | 576  | 2.3   | 52.0  | 1.9             | 43.3  |
| 24   | 720             | 864  | 1.5   | 34.7  | 1.3             | 28.9  |
| 36   | 1080            | 1296 | 1.0   | 23.1  | 0.9             | 19.3  |

The chart above is for the large side of the pump.  
 All calculations based on ground speed of 5 MPH. Rated Flow Based on 12 lbs. per gallon fertilizer.

# Piston Pumps (NGP)

APPLICATION PUMPS AND ACCESSORIES

CENTRIFUGAL PUMPS

IRRIGATION INJECTION PUMPS

DIAPHRAGM PUMPS

ANHYDROUS AMMONIA

SPECIALTY PUMPS

MISC. ACCESSORIES AND SERVICE KITS



## NGP-6050 SERIES\*

|                               |                          |
|-------------------------------|--------------------------|
| Single Piston - Double Acting | Rated Speed - 450 RPM    |
| Stroke - Variable             | Inlet - 1 1/2" FPT       |
| Rated Flow - 21.0 GPM         | Outlet - 1 1/2" FPT      |
| Rated Pressure - 120 PSI      | Clutch - Various Options |

\*Equivalent LM-2450 series

### MODELS AVAILABLE:

|                 |                          |
|-----------------|--------------------------|
| <b>NGP-6050</b> | Rope Control Clutch      |
| <b>NGP-6055</b> | Without Clutch           |
| <b>NGP-6058</b> | Electric Control Clutch  |
| <b>NGP-6059</b> | Hydraulic Control Clutch |



## NGP-6055-HY (HYDRAULIC DRIVE PISTON PUMP)

|  |  |
|--|--|
| Single Piston - Double Acting                      | Rated Speed - 550 RPM                                  |
| Stroke - Fixed                                     | Inlet/Outlet-1 1/2" inlet, 220 series flanges optional |
| Rated Flow - 21.0 GPM                              | Rated Pressure - 120 PSI                               |
| Accepts SAE A 2-bolt hydraulic motor with 1" shaft |  |

Use with a John Blue Hydraulic Motor/PWM Manifold Kit.

### MODELS AVAILABLE:

|                     |                 |
|---------------------|-----------------|
| <b>NGP-6055-HYF</b> | Includes flange |
|---------------------|-----------------|



### HYDRAULIC MOTOR/PWM MANIFOLD KITS:

- 116205-91:** Flow-thru style manifold (shown)
- 116205-91D:** **NEW** Dead-head style manifold

| Rows | Swath in Inches |      | NGP-6055 Application Range in GPA at 5 MPH |       |                 |       |
|------|-----------------|------|--|-------|-----------------|-------|
|      |                 |      | 30 Inch Spacing                            |       | 36 Inch Spacing |       |
|      | 30              | 36   | Min  | Max   | Min             | Max   |
| 4    | 120             | 144  | 9.2  | 207.9 | 7.7             | 173.3 |
| 8    | 240             | 288  | 4.6  | 104.0 | 3.9             | 86.6  |
| 12   | 360             | 432  | 3.1  | 69.3  | 2.6             | 57.8  |
| 16   | 480             | 576  | 2.3  | 52.0  | 1.9             | 43.3  |
| 24   | 720             | 864  | 1.5  | 34.7  | 1.3             | 28.9  |
| 36   | 1080            | 1296 | 1.0  | 23.1  | 0.9             | 19.3  |

All calculations based on ground speed of 5 MPH. Rated Flow Based on 12 lbs. per gallon fertilizer. 316 SS available on wet end casting.

# Piston Pumps (NGP)



## NGP-7050 SERIES\*

|                               |                          |
|-------------------------------|--------------------------|
| Single Piston - Double Acting | Rated Speed - 450 RPM    |
| Stroke - Variable             | Inlet - 1 1/2" FPT       |
| Rated Flow - 34.2 GPM         | Outlet - 1 1/2" FPT      |
| Rated Pressure - 120 PSI      | Clutch - Various Options |

\*Equivalent LM-4450 series

### MODELS AVAILABLE:

|                 |                          |
|-----------------|--------------------------|
| <b>NGP-7050</b> | Rope Control Clutch      |
| <b>NGP-7055</b> | Without Clutch           |
| <b>NGP-7058</b> | Electric Control Clutch  |
| <b>NGP-7059</b> | Hydraulic Control Clutch |

Additional model options, including flanges, on page 16



## NGP-7055-HY (HYDRAULIC DRIVE PISTON PUMP)

|  |  |
|--|--|
| Single Piston - Double Acting                      | Rated Speed - 550 RPM                                  |
| Stroke - Fixed                                     | Inlet/Outlet-1 1/2" inlet, 220 series flanges optional |
| Rated Flow - 34.2 GPM                              | Rated Pressure - 120 PSI                               |
| Accepts SAE A 2-bolt hydraulic motor with 1" shaft |  |

Use with a John Blue Hydraulic Motor/PWM Manifold Kit.

### MODELS AVAILABLE:

|                     |                 |
|---------------------|-----------------|
| <b>NGP-7055-HYF</b> | Includes flange |
|---------------------|-----------------|



### HYDRAULIC MOTOR/PWM MANIFOLD KITS:

- 116205-91:** Flow-thru style manifold (shown)
- 116205-91D:** **NEW** Dead-head style manifold

| Rows | Swath in Inches |      | NGP-7050 Application Range in GPA at 5 MPH |       |                 |       |
|------|-----------------|------|--|-------|-----------------|-------|
|      |                 |      | 30 Inch Spacing                            |       | 36 Inch Spacing |       |
|      | 30              | 36   | Min  | Max   | Min             | Max   |
| 4    | 120             | 144  | 15.0                                       | 338.6 | 12.5            | 282.2 |
| 8    | 240             | 288  | 7.5  | 169.3 | 6.3             | 141.1 |
| 12   | 360             | 432  | 5.0  | 112.9 | 4.2             | 94.1  |
| 16   | 480             | 576  | 3.8  | 84.6  | 3.1             | 70.5  |
| 24   | 720             | 864  | 2.5  | 56.4  | 2.1             | 47.0  |
| 36   | 1080            | 1296 | 1.7  | 37.6  | 1.4             | 31.4  |

All calculations based on ground speed of 5 MPH. Rated Flow Based on 12 lbs. per gallon fertilizer. 316 SS available on wet end casting.

# Piston Pumps (NGP)

 APPLICATION PUMPS  
AND ACCESSORIES

 CENTRIFUGAL  
PUMPS

 IRRIGATION  
INJECTION PUMPS

 DIAPHRAGM  
PUMPS

 ANHYDROUS  
AMMONIA

 SPECIALTY  
PUMPS

 MISC. ACCESSORIES  
AND SERVICE KITS


» Pump with independent dual inlet and outlet manifolds.

## NGP-8050 SERIES

|                               |                          |
|-------------------------------|--------------------------|
| Double Piston - Double Acting | Rated Speed - 450 RPM    |
| Stroke - Variable             | Inlet - 1 ½" FPT         |
| Rated Flow - 42 GPM           | Outlet - 1 ½" FPT        |
| Rated Pressure - 120 PSI      | Clutch - Various Options |

### MODELS AVAILABLE:

|                    |   |
|--------------------|---|
| <b>NGP-8050</b>    | Rope Control Clutch                                 |
| <b>NGP-8055</b>    | Without Clutch                                      |
| <b>NGP-8058</b>    | Electric Control Clutch                             |
| <b>NGP-8059</b>    | Hydraulic Control Clutch                            |
| <b>NGP-8055-DR</b> | Pump with independent dual inlet & outlet manifolds |

| Rows | Swath in Inches |      | NGP-8055 Application Range in GPA at 5 MPH |       |                 |       |
|------|-----------------|------|--|-------|-----------------|-------|
|      |                 |      | 30 Inch Spacing                            |       | 36 Inch Spacing |       |
|      |                 |      | 30   | 36    | Min             | Max   |
| 4    | 120             | 144  | 18.5                                       | 415.8 | 15.4            | 346.5 |
| 8    | 240             | 288  | 9.2  | 207.9 | 7.7             | 173.3 |
| 12   | 360             | 432  | 6.2  | 138.6 | 5.1             | 115.5 |
| 16   | 480             | 576  | 4.6  | 104.0 | 3.9             | 86.6  |
| 24   | 720             | 864  | 3.1  | 69.3  | 2.6             | 57.8  |
| 36   | 1080            | 1296 | 2.1  | 46.2  | 1.7             | 38.5  |

All calculations based on ground speed of 5 MPH. Rated Flow Based on 12 lbs. per gallon fertilizer. 316 SS available on wet end casting.



## NGP-8055-AR DUAL RATE PISTON PUMP

|                               |                       |                         |
|-------------------------------|-----------------------|-------------------------|
| Double Piston - Double Acting | Rated Speed - 450 RPM | Rated Pressure: 120 PSI |
| Stroke - Variable             | Inlet - 1 ½" FPT      |                         |
| Rated Flow - 42 GPM total     | Outlet - 1 ½" FPT     |                         |
| 21 GPM per side               | Clutch - No Clutch    |                         |

- » Apply two products at two rates with one pump
- » Max ratio 5 to 1

| Rows | Swath in Inches |      | NGP-8055 Application Range in GPA at 5 MPH |       |                 |       |
|------|-----------------|------|--|-------|-----------------|-------|
|      |                 |      | 30 Inch Spacing                            |       | 36 Inch Spacing |       |
|      |                 |      | 30   | 36    | Min             | Max   |
| 4    | 120             | 144  | 9.2  | 207.9 | 7.7             | 173.3 |
| 8    | 240             | 288  | 4.6  | 104.0 | 3.9             | 86.6  |
| 12   | 360             | 432  | 3.1  | 69.3  | 2.6             | 57.8  |
| 16   | 480             | 576  | 2.3  | 52.0  | 1.9             | 43.3  |
| 24   | 720             | 864  | 1.5  | 34.7  | 1.3             | 28.9  |
| 36   | 1080            | 1296 | 1.0  | 23.1  | 0.9             | 19.3  |

The chart above is for one side of the pump. Calculate first one side of the pump and then calculate the second side.

All calculations based on ground speed of 5 MPH. Rated Flow Based on 12 lbs. per gallon fertilizer. 316 SS available on wet end casting.

# Piston Pumps (NGP)



## NGP-9050 SERIES\*

|                               |                          |
|-------------------------------|--------------------------|
| Double Piston - Double Acting | Rated Speed - 450 RPM    |
| Stroke - Variable             | Inlet - 1 ½" FPT         |
| Rated Flow - 68.4 GPM         | Outlet - 1 ½" FPT        |
| Rated Pressure - 120 PSI      | Clutch - Various Options |

\*Equivalent LM-4950 series

### MODELS AVAILABLE:

|                    |   |
|--------------------|---|
| <b>NGP-9050</b>    | Rope Control Clutch                                   |
| <b>NGP-9055</b>    | Without Clutch  |
| <b>NGP-9058</b>    | Electric Control Clutch                               |
| <b>NGP-9059</b>    | Hydraulic Control Clutch                              |
| <b>NGP-9055-DR</b> | Pump with independent dual inlet and outlet manifolds |



## NGP-9055-HY (HYDRAULIC DRIVE PISTON PUMP)

|  |                          |
|--|--------------------------|
| Double Piston - Double Acting                      | Rated Speed - 550 RPM    |
| Stroke - Fixed                                     | Inlet/Outlet-1 ½"        |
| Rated Flow - 68.4 GPM                              | Rated Pressure - 120 PSI |
| Accepts SAE A 2-bolt hydraulic motor with 1" shaft |                          |

Use with a John Blue Hydraulic Motor/PWM Manifold Kit.



### HYDRAULIC MOTOR/PWM MANIFOLD KITS:

- 116205-91:** Flow-thru style manifold (shown)
- 116205-91D:** **NEW** Dead-head style manifold

| Rows | Swath in Inches |      | NGP-9055 Application Range in GPA at 5 MPH |       |                 |       |
|------|-----------------|------|--|-------|-----------------|-------|
|      |                 |      | 30 Inch Spacing                            |       | 36 Inch Spacing |       |
|      | 30              | 36   | Min  | Max   | Min             | Max   |
| 4    | 120             | 144  | 30.1                                       | 677.2 | 25.1            | 564.3 |
| 8    | 240             | 288  | 15.0                                       | 338.6 | 12.5            | 282.2 |
| 12   | 360             | 432  | 10.0                                       | 225.7 | 8.4             | 188.1 |
| 16   | 480             | 576  | 7.5  | 169.3 | 6.3             | 141.1 |
| 24   | 720             | 864  | 5.0  | 112.9 | 4.2             | 94.1  |
| 36   | 1080            | 1296 | 3.3  | 75.2  | 2.8             | 62.7  |

All calculations based on ground speed of 5 MPH. Rated Flow Based on 12 lbs. per gallon fertilizer. 316 SS available on wet end casting.

# Piston Pumps (NGP)

APPLICATION PUMPS AND ACCESSORIES

CENTRIFUGAL PUMPS

IRRIGATION INJECTION PUMPS

DIAPHRAGM PUMPS

ANHYDROUS AMMONIA

SPECIALTY PUMPS

MISC. ACCESSORIES AND SERVICE KITS



## NGP-9055-AR SERIES

|                               |                       |
|-------------------------------|-----------------------|
| Double Piston - Double Acting | Rated Speed - 450 RPM |
| Stroke - Variable             | Inlet - 1 1/2" FPT    |
| Rated Flow - 68.4 GPM total   | Outlet - 1 1/2" FPT   |
| 34.2 GPM per side             | Clutch - No Clutch    |
| Rated Pressure - 120 PSI      |                       |

- » Apply two products at two rates with one pump
- » Max ratio 5 to 1

| Rows | Swath in Inches |      | NGP-9055-AR Application Range in GPA at 5 MPH |       |                 |       |
|------|-----------------|------|---|-------|-----------------|-------|
|      | 30              | 36   | 30 Inch Spacing                               |       | 36 Inch Spacing |       |
|      |                 |      | Min   | Max   | Min             | Max   |
| 4    | 120             | 144  | 15.0  | 338.6 | 12.5            | 282.1 |
| 8    | 240             | 288  | 7.0   | 169.3 | 6.2             | 141.1 |
| 12   | 360             | 432  | 5.0   | 112.8 | 4.2             | 94.0  |
| 16   | 480             | 576  | 3.7   | 84.6  | 3.1             | 70.5  |
| 24   | 720             | 864  | 2.5   | 56.4  | 2.1             | 47.0  |
| 36   | 1080            | 1296 | 1.6   | 37.6  | 1.4             | 31.3  |

The chart above is for one side of the pump. Calculate first one side of the pump and then calculate the second side.  
All calculations based on ground speed of 5 MPH. Rated Flow Based on 12 lbs. per gallon fertilizer. 316 SS available on wet end casting.

### PWM CONTROLLED MANIFOLD KITS AND VARIABLE RATE HYDRAULIC DRIVE KITS MAKE PUMPS MORE VERSATILE!



#### DIRECT MOTOR /PWM MANIFOLD KITS:

- ◀ SHOWN: NGP-6055-HY with 116205-91 (Flow-thru style manifold)
- NEW** 116205-91D (Dead-head style manifold; no hydraulic oil flow through)
- Draw fluid from remotely-mounted tanks
- Lower-cost and more compact solution
- Quick adjustment to application rates
- Application rates won't change with temperature
- Incredible suction capability

#### VARIABLE RATE HYDRAULIC BAR MOUNT RETROFIT KITS:

- ◀ SHOWN: NGP-6055 with VRH-PWM-10
- You don't need to buy new equipment to benefit from Variable Rate Technology. A great feature of the John Blue Piston Pump, with the Variable Rate Hydraulic Drive Kit (VRH), is that you can use it on your current equipment - planters, drills, strip tills and liquid applicators - regardless of how old it is!

FIND MORE ON PAGES 19-21 »

# Piston Pumps (NGP)

## NGP Options and Product Compatibility Recommendations\*

| Part Number (suffix) | Description  |
|----------------------|--|
| -B                   | Buna wet end o-rings and rod packing, recommended for Aqua Ammonia   |
| -DR**                | Independent dual inlet and outlet.   |
| -F                   | Flanges- cast iron pumps have either 200 or 220 flanges with internal 1" or 1 1/2" ports depending on pump models. SS pumps have 220 flanges only. |
| -K                   | Pump less sprocket.  |
| -R                   | RC40 chain 18 tooth sprocket.  |
| -S                   | 316 SS wet-end casting, commonly used on liquid fertilizer pH less than 5  |
| -U                   | Viton® wet-end o-rings and rod packing, ideal for fumigants and herbicides compatible with Viton® and not compatible with Buna.                    |

| Additional Kit Models | Modifies Existing Pumps   |
|-----------------------|---|
| 115670                | Manual clutch add on - NGP universal  |
| 115671                | Hydraulic clutch add on - NGP universal   |
| 115672                | Electric clutch add on - NGP universal  |
| 115673                | Stainless wet-end conversion - NGP-6050 Series  |
| 115674                | Stainless wet-end conversion - NGP-7050 Series  |
| 115675                | Stainless wet-end conversion - NGP-8050 Series***   |
| 115676                | Stainless wet-end conversion - NGP-9055 Series***   |
| 116000-01S            | 1 1/2" NPT to 200 series flange adapter, stainless steel                                  |
| 116083-01S            | 1 1/2" NGP to 220 series flange adapter, stainless steel                                  |
| 116205-91             | Flow-thru Style Hydraulic Motor/PWM Manifold Kit for Direct Drive Piston Pumps            |
| 116205-91D            | <b>NEW</b> Dead-head Style Hydraulic Motor/PWM Manifold Kit for Direct Drive Piston Pumps |
| 116344-91             | Dampener Kit 1 1/2" NPT   |

\* Not available on all models

\*\* -DR only available on double piston pumps: NGP-8050 and NGP-9050.

\*\*\* -DR pumps may use 2 single piston stainless conversion kits.

| Repair Kit Models | Details                              |
|-------------------|--------------------------------------|
| 116134            | Gasket Repair Kit - For NGP-4055F    |
| 116135            | Gasket Repair Kit - For NGP-5055DRF  |
| 115788            | Gasket Repair Kit - For NGP-6050     |
| 115688            | Gasket Repair Kit - For NGP-7050     |
| 115789            | Gasket Repair Kit - For NGP-8050     |
| 115789-AR         | Gasket Repair Kit - For NGP-8055-AR  |
| 115789-DR         | Gasket Repair Kit - For NGP-8055-DR  |
| 116135-AR56       | Gasket Repair Kit - For NGP-5655-ARF |
| 115689            | Gasket Repair Kit - For NGP-9050     |
| 116457            | Gasket Repair Kit - For NGP-4055-HY  |
| 116458            | Gasket Repair Kit - For NGP-6055-HY  |
| 116459            | Gasket Repair Kit - For NGP-7055-HY  |
| 116460            | Gasket Repair Kit - For NGP-9055-HY  |

| Repair Kit Models | Details                           |
|-------------------|-----------------------------------|
| 115788-S          | Gasket Repair Kit-For NGP-6050-S  |
| 115788-U          | Gasket Repair Kit-For NGP-6050-U  |
| 115688-S          | Gasket Repair Kit-For NGP-7050-S  |
| 115688-U          | Gasket Repair Kit-For NGP-7050-U  |
| 115789-S          | Gasket Repair Kit-For NGP-8055-S  |
| 115789-U          | Gasket Repair Kit-For NGP-8055-U  |
| 115689-AR         | Gasket Repair Kit-For NGP-9055-AR |
| 115689-DR         | Gasket Repair Kit-For NGP-9055-DR |
| 115689-S          | Gasket Repair Kit-For NGP-9050-S  |
| 115689-U          | Gasket Repair Kit-For NGP-9050-U  |

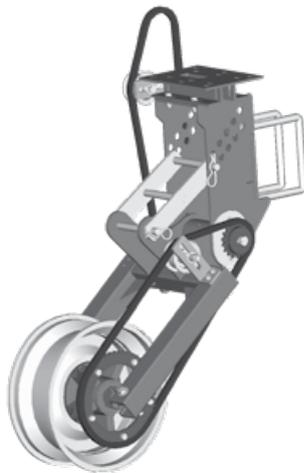
# Ground Drives (DRV)

## MAKE YOUR FERTILIZER AND CHEMICAL APPLICATIONS SIMPLE: JOHN BLUE COMPANY GROUND DRIVES (DRV)

The John Blue Family of Universal Drive Assemblies- DRV's make the installation of ground driven pumps on applicators and planters simple. Piston pumps have proven they are the most reliable and accurate method of applying liquid fertilizer without exception—bolt it up quickly and easily!

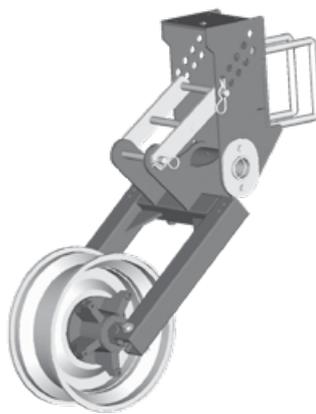
The John Blue Ground Drives (DRV's) make the installation of the best easier with standard sprockets and mountings that fit most applicators and planters to provide the application rates you require.

The piston-metering pump is the standard for accuracy due to the positive displacement ground driven design, which maintains a constant rate per acre as the ground speed varies.



### DRV-3000

- Ground Drive with pump mount
- Fixed-height adjustment mechanism (10 positions)
- Less tire and u-bolts



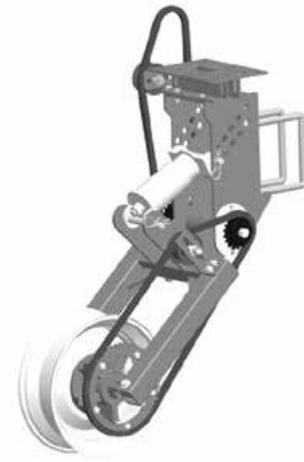
### DRV-3100

- Gauge Wheel only
- Fixed-height adjustment mechanism (10 positions)
- Less tire and u-bolts



### DRV-3200

- Universal Mount - Pump mount and jackshaft
- For planter hex shaft drive applications
- Less u-bolts



### DRV-3300

- Ground Drive with pump mount
- Spring-loaded adjustment mechanism
- Less tire and u-bolts

| Pump Drives |   |
|-------------|---|
| Part Number | Description   |
| DRV-3000    | Ground Drive with pump mount - fixed height adjustment mechanism (10 positions).                |
| DRV-3050    | Squeeze Pump Ground Drive - fixed height adjustment mechanism (10 positions).                   |
| DRV-3100    | Gauge Wheel only - fixed height adjustment mechanism (10 positions).                            |
| DRV-3200    | Universal Mount-Pump mount and jackshaft for planter hex shaft drive applications.              |
| DRV-3250    | Squeeze Pump Universal Mount includes split sprocket to drive off the planter shaft (no wheel). |
| DRV-3300    | Ground Drive with pump mount - spring loaded adjustment mechanism.                              |
| DRV-3350    | Squeeze Pump Ground Drive - spring loaded adjustment mechanism.                                 |
| DRV-SQZ     | Drive Adapter Kit for Squeeze Pump.   |

Add -S after any part number for stainless steel chain option.

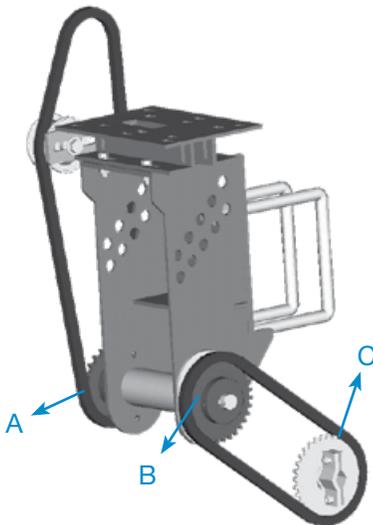
# Universal Planter Kit (DRV)

## DRV



- High and low range sprocket setup for a broader application range.
- Push or pull
- Fits all current John Blue Piston Pumps.
- Fits 7"x7", 6"x6", 6"x4" and 4"x4" bars.
- Universal adjustable idlers: push or pull
- Interchangeable jackshaft sprockets: RC50 24 and 18 Tooth for low and high ranges.
- Ground wheel sprocket: RC50 50 tooth.
- Pump mounting bolts, nuts and washers included.
- Adjustable to fit your bar height: bottom of bar to ground using 13.5" loaded radius tire - Minimum 17", Maximum 31".
- Wide pivot angle: bottom of bar to axle centerline – Minimum 3.5", Maximum 17.5".

## UNIVERSAL PLANTER KIT



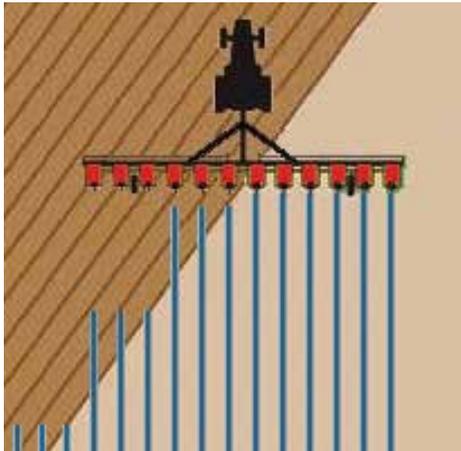
- Standard jackshaft with sprockets.
- Fits all current John Blue Piston Pumps.
- Fits 7"x7", 6"x6", 6"x4" and 4"x4" bars.
- U-bolts and washers standard sized. *(sold separately)*
- Standard sprockets – see drawing on left:
  - Pump Sprocket = NGP standard RC50-18 Tooth
  - Sprocket A = RC50-24 Tooth
  - Sprocket B = RC40-32 Tooth
  - Sprocket C = RC40-32 Tooth Split

## U-BOLTS FOR DRV UNITS

*(2 u-bolts required per drive):*

- 7" x 7" Bar part number: 115907-01A
- 4" x 4" Bar part number: 115907-01B
- 4" x 6" Bar part number: 115907-01C
- 6" x 6" Bar part number: 115907-01D

Sprockets available on page 82 »



SECTIONAL SHUT-OFF AND VARIABLE RATE ARE EASY WITH THE JOHN BLUE SYSTEM.



## VARIABLE RATE HYDRAULIC DRIVE KITS:

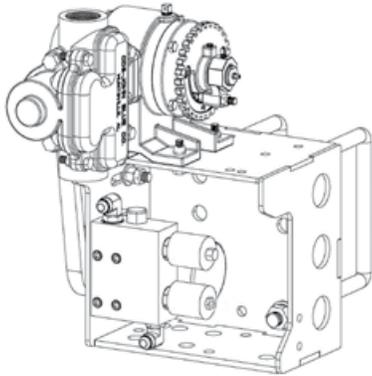
- Base Kit to add variable rate capacity to a Next Generation Piston Pump for your planter or applicator. Other required off-the-shelf components to complete the kit are detailed in the instructions.
- Existing pumps can be easily converted to variable rate and sectional shut-off.
- A piston pump allows for quick and stable adjustment to application rates within a fraction of a second using this technology.
- With a piston pump your application rates will not change with the temperature or lack of head pressure.
- Sturdy mounting bracket attaches to the side or top of the machine's bar.
- Two types of flow control valves (servo or PWM) are available based on the kit you select.
- Hydraulic 2-way bypass valve turns pump and liquid flow on and off (only on John Deere® kits).
- Hydraulic motor requires 10 GPM to run the piston pump at maximum RPM, but the system can be used at lower GPM as the specific application allows.
- The manual speed drive system allows you to mount your pump anywhere on the machine and set the pump at a constant speed.
- The manual speed drive can also be used with other brands of hydraulic flow control valves in order to interface with controllers that are not listed below.
- "Bracket only kits" allow the use of the 20/20 Precision Planting® motor, Dickey-john® motor and others.
- Pulsation Dampener for Smooth Flow Down to 40 RPM (Part# 116344-91)

## DIRECT HYDRAULIC DRIVE FOR PISTON PUMPS

- Lower cost and more compact solution for variable rate piston pump drives
- Users can supply their own SAE A 2-bolt motor or purchase a Hydraulic Motor/PWM Manifold Kit from John Blue: 116205-91 (Flow-thru style manifold) and 116205-91D (Dead-head style manifold).
- Available for the following piston pumps: NGP-4055-HYF, NGP-6055-HY, NGP-6055-HYF, NGP-7055-HY, NGP-7055-HYF, and NGP-9055-HY.

# Bar Mount Kits

VRH-JD-10 AND VRH-JD-15



VRH-PWM-10



## VRH-JD-10

**VARIABLE RATE HYDRAULIC DRIVE KIT FOR JOHN DEERE® CANBUS PLANTERS USING GREENSTAR™ GS2 AND GS3.**

Kit includes: bar mounting bracket, chain, sprockets, hydraulic motor, PWM flow control manifold, custom adaptor harness and setup instructions with parts listing for obtaining off-the-shelf components to complete installation. Other applications may work, but CANbus wiring must be present.

## VRH-JD-15

**MULTI-SECTION VARIABLE RATE HYDRAULIC DRIVE KIT FOR JOHN DEERE® CANBUS PLANTERS USING GREENSTAR™ GS2 AND GS3.**

Same as above except for harness to control up to 7 section valves. Other applications may work, but CANbus wiring must be present.

## VRH-MAN-10

**MANUAL RATE/SPEED CONTROL DRIVE KIT FOR REMOTE MOUNTING OF DRIVE.**

Kit includes: bar mounting bracket, chain, sprockets, ½" FPT port motor, ½" FPT manually adjusted in-line flow control valve, optical tachometer (to set pump speed) and setup instructions.

## VRH-PWM-10

**VARIABLE RATE HYDRAULIC DRIVE KIT FOR RAVEN, AG LEADER®, TRIMBLE® AND OTHER SYSTEMS THAT CAN CONTROL A PWM VALVE.**

Motor has manifold with PWM valve and **Raven**-type plug. Kit includes: bar mounting bracket, chain, sprockets, hydraulic motor, PWM flow control manifold and setup instructions.

## 116133-91

**BRACKET-ONLY DRIVE KIT FOR USE WITH 20/20 PRECISION PLANTING, DICKEY-JOHN® AND MICRO-TRAK® DRIVE MOTORS.**

Kit includes: bar mounting bracket (no motor), chain, sprockets and setup instructions.

## 116045-91

**UNIVERSAL DRIVE KIT FOR USE WITH ANY HYDRAULIC FLOW CONTROL VALVE.**

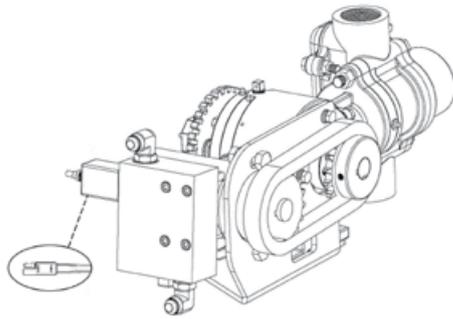
Motor has ½" female pipe ports for connection to your valve. Kit includes: bar mounting bracket, ½" FPT port motor (no-flow control valve), chain, sprockets and setup instructions.

## U-BOLTS FOR YOUR BAR SIZE

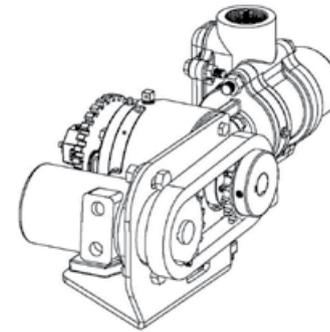
*(two each required per drive):*

- 7"x 7" Bar = 115907-01A
- 4"x 4" Bar = 115907-01B
- 4"x 6" Bar = 115907-01C
- 6"x 6" Bar = 115907-01D

# Direct Drive Kits



VRH-PWM-15 AND VRH-PWM-17



VRH-MAN-15 AND VRH-MAN-17

## VRH-PWM-15

**VARIABLE RATE HYDRAULIC DRIVE KIT FOR RAVEN, AG LEADER®, TRIMBLE® AND OTHER SYSTEMS THAT CAN CONTROL A PWM VALVE.**

Motor has manifold with PWM valve and Raven-type plug.  
Kit includes: mounting bracket for NGP-4055-F, 5055-DRF, 6055 and 8055 pumps, chain, sprockets, hydraulic motor, PWM flow control manifold and setup instructions.

## VRH-PWM-17

Same as above except with bracket to fit NGP-7055 and NGP-9055.

## 116131-91

**BRACKET-ONLY DRIVE KIT FOR USE WITH 20/20 PRECISION PLANTING, DICKEY-JOHN® AND MICRO-TRAK® DRIVE MOTORS.**

Kit includes: mounting bracket for NGP-4055-F, 5055-DRF, 6055 and 8055 pumps (no motor), chain, sprockets and setup instructions.

## 116132-91

Same as above except with bracket to fit NGP-7055 and NGP-9055.

## VRH-MAN-15

**MANUAL RATE/SPEED CONTROL DRIVE KIT FOR REMOTE MOUNTING OF DRIVE.**

Kit includes: mounting bracket for NGP-4055-F, 5055-DRF, 6055 and 8055 pumps, chain, sprockets, ½" FPT port motor, manually adjusted in-line flow control valve, optical tachometer (to set pump speed) and setup instructions.

## VRH-MAN-17

Same as above except with bracket to fit NGP-7055 and NGP-9055.

## 116123-91

**UNIVERSAL DRIVE KIT FOR USE WITH ANY HYDRAULIC FLOW CONTROL VALVE. MOTOR HAS ½" FEMALE PIPE PORTS FOR CONNECTION TO YOUR VALVE.**

Kit includes: mounting bracket for NGP-4055-F, 5055-DRF, 6055 and 8055 pumps, ½" FPT port motor (no-flow control valve), chain, sprockets and setup instructions.

## 116124-91

Same as above except with bracket to fit NGP-7055 and NGP-9055.

*Note: The 6055/8055 bracket will not fit NGP-5655-ARF and NGP-8055-AR. You must purchase a bar mount kit.*

# Flow Dividers

## FEATURES OF THE FLOW DIVIDER

302 SS balanced spring offers superior performance and corrosion resistance.

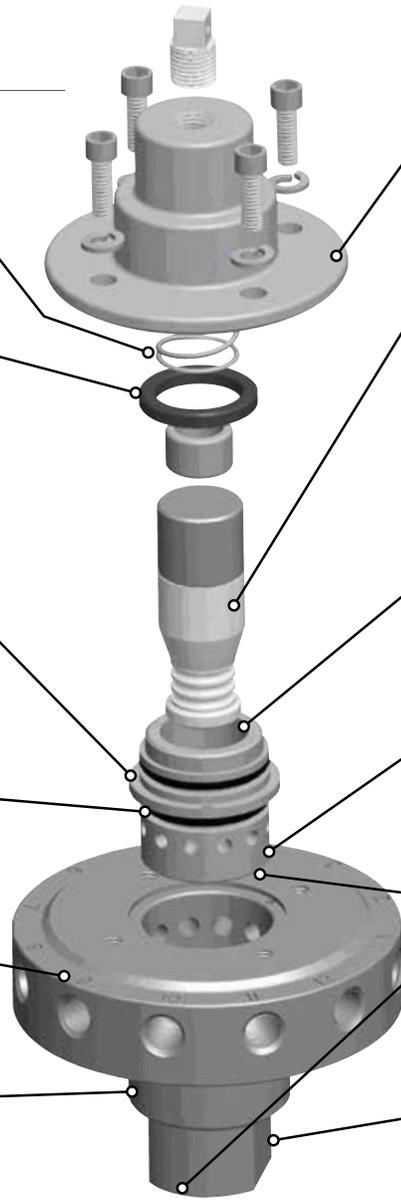
Exclusive Viton® lip seal is more stable and has a longer life than conventional diaphragms.

316 SS sleeve can be easily removed for cleaning in the field. Alignment pin ensures that the sleeve will be replaced in exactly the same position every time.

Viton® o-rings are used for positive sealing for even hard to handle products.

Numbered ports for ease of tracing lines.

Company name and phone number engraved in part for better in-field serviceability (not pictured)



Field repairable without removing distribution lines.

Upper portion of needle is 316 SS, which means longer seal life. The special glass-filled Teflon™ middle needle offers smooth operation with minimum friction. Spherical designed needle tip has better impact resistance.

Spherical tip allows needle to open easier increasing accuracy at lower application rates.

Shorter sleeve increases volume in chamber, reducing operating pressures.

Tapered inlets reduce turbulence resulting in smoother flow and improving accuracy.

Added wrench flats for ease of installation.  
US Pat No 6311716

### Flow Divider and Flow Divider Mount

| Part Number | Description                  | Outlets | Inlet  | Outlet | Maximum Flow Per Outlet |
|-------------|------------------------------|---------|--------|--------|-------------------------|
| FD-0610     | Stainless Steel Flow Divider | 6       | ¾" FPT | ¼" FPT | 2.25 GPM                |
| FD-1210     | Stainless Steel Flow Divider | 12      | ¾" FPT | ¼" FPT | 2.25 GPM                |
| FD-2010     | Stainless Steel Flow Divider | 20      | 1" FPT | ¼" FPT | 2.25 GPM                |
| 113989      | Manifold Mount               |         |        |        |                         |

# Spring Kits & Check Valves

## FLOW DIVIDER ADJUSTABLE SPRING KIT



### FEATURES:

- Adjustable spring kit will enable you to balance multiple flow dividers.
- Kit may be purchased separately or pre-installed on any size flow divider.
- When using multiple flow dividers the same size flow dividers must be used.
- With multiple flow dividers the number of plugged outlets should be identical and the plugs equally spaced. The maximum recommended differential between flow dividers is two plugged ports.

### Flow Divider Adjustable Spring Kits

| Part Number | Description   |
|-------------|---|
| FD-0610-ADJ | 6 Outlet Stainless Steel Flow Divider with Adjustable Spring Kit  |
| FD-1210-ADJ | 12 Outlet Stainless Steel Flow Divider with Adjustable Spring Kit |
| FD-2010-ADJ | 20 Outlet Stainless Steel Flow Divider with Adjustable Spring Kit |
| 116063*     | FD-0610 Retrofit Kit  |
| 116064*     | FD-1210 Retrofit Kit  |
| 116065*     | FD-2010 Retrofit Kit  |

\*Kit will include the adjustment bolt, nut, spring seat, and vented plug.

## DELIVERY LINE CHECK VALVES AND PUSH CONNECT FITTINGS

|                                |  |
|--------------------------------|--|
| Easy to Clean                  | Precision molded in glass-reinforced polypropylene |
| Repairable                     | 316 stainless steel ball and spring                |
| Easier to service in the field | All Viton® seals                                   |
| Available in 1, 3 and 10 PSI   | Max pressure: 125 PSI                              |

### Flow Rates vs Pressure

| Inlet Pressure | Flow     |
|----------------|----------|
| 5 PSI          | 1.25 GPM |
| 15 PSI         | 2.65 GPM |
| 29 PSI         | 4.00 GPM |

\*Test used anti-freeze and CV-1101 with 3/8" hose barbs at 70°F.



### Poly Applicator Check Valves

| Description   | 1 PSI Part Numbers | 3 PSI Part Numbers |
|---|--------------------|--------------------|
| Poly Check Valve, 1/4" NPT Female Inlet and Outlet    | CV-1101            | CV-1103            |
| Poly Check Valve, 1/4" Push Connect Inlet and Outlet  | CV-1101-P14        | CV-1103-P14        |
| Poly Check Valve, 5/16" Push Connect Inlet and Outlet | CV-1101-P56        | CV-1103-P56        |
| Poly Check Valve, 3/8" Push Connect Inlet and Outlet  | CV-1101-P38        | CV-1103-P38        |
| Poly Check Valve, 1/4" Hose Barbs Inlet and Outlet    | CV-1101-B14        | CV-1103-B14        |
| Poly Check Valve, 3/8" Hose Barbs Inlet and Outlet    | CV-1101-B38        | CV-1103-B38        |
| Poly Check Valve, 1/2" Hose Barbs Inlet and Outlet    | CV-1101-B12        | CV-1103-B12        |

\*Optional inlet/outlet configurations available.

# VisaGage II



## PROPER APPLICATION = INCREASED YIELDS

- With the John Blue VisaGage II you will know immediately if an outlet is plugged, thus causing possible variations in your application rates.
- So easy! See the balls in line and know your rate is uniform.
- When the ball is lower you know there is a restriction at the outlet, hose or opener supplied by that flow monitor.
- A ball higher than the others is an indication that hoses or fittings supplied by that specific flow monitor is broken or has a leak.
- Standard Liquid VisaGage Units are manufactured with chemical resistant polypropylene adapters, Viton® o-rings and clear PVC bodies with an additive for UV protection.
- The Fumigant VisaGage, ideal for Telone applications, is made from polymethylpentene (TPX®) chemical resistant bodies with UV protection.

## CUSTOMIZE YOUR VISUAL FLOW MONITOR SYSTEM

- Get the exact number of flow monitors for spraying or fertilizer applications by simply banking single columns or sets of 4 Flow Monitors or any combination you choose. Clasp them together with the stainless steel clips and Viton® O-rings and go.
- The VisaGage II allows the use of common stainless steel orifice plates.
- Ports are standard NPT. Use our barb or convenient push connect fittings for simple installation.
- Most parts are interchangeable with other brands.



SMPT-OSA4 with SMSS4

## VISAGAGE ORIFICE SELECTOR

- Turn your John Blue VisaGage II into a self-contained orifice changing system.
- This patented system is the first of its kind on the market today.
- Simply select from one of four orifice settings on each disc. Four discs provide for sixteen different options.
- No more getting wet from fertilizers or chemicals when changing orifices.
- Adjustment is quick, no need to travel to each row unit and work with plumbing near the ground.
- PATENT #9433144

| VisaGage Orifice Selector* |                                |
|----------------------------|--------------------------------|
| Part Number                | Description                    |
| SMPT-OSA1                  | Single orifice selector kit.   |
| SMPT-OSA4                  | Set of 4 orifice selector kit. |

\*VisaGage Orifice Selector will work on both standard and fumigant VisaGage units.

### For Use with Sprayers


**SMSS4**

**SMFD4**

**SMSS4 with SMPT-0053**

| Part Number* | Description  |
|--------------|--|
| SMSS1        | Single Flow Monitor Assembly - Spray Type includes single body, $\frac{3}{8}$ " NPT female inlet and outlet, (5) $\frac{1}{2}$ " diameter balls, end cap, Viton® O-rings and stainless steel retainer clips.                         |
| SMSS4        | Set of 4 Flow Monitor Assembly - Spray Type includes 4 bodies, $\frac{1}{2}$ " NPT female inlet, $\frac{3}{8}$ " NPT female outlet, (20) $\frac{1}{2}$ " diameter balls, end cap, Viton® O-rings and stainless steel retainer clips. |
| SMSS1-PE14   | Spray Single - $\frac{1}{4}$ " Elbow Push out, NPT in  |
| SMSS1-PE38   | Spray Single - $\frac{3}{8}$ " Elbow Push out, NPT in  |
| SMSS1-PE56   | Spray Single - $\frac{5}{16}$ " Elbow Push out, NPT in   |
| SMSS4-PE14   | Spray Set 4 - $\frac{1}{4}$ " Elbow Push out, NPT in   |
| SMSS4-PE38   | Spray Set 4 - $\frac{3}{8}$ " Elbow Push out, NPT in   |
| SMSS4-PE56   | Spray Set 4 - $\frac{5}{16}$ " Elbow Push out, NPT in  |

\*add -fum after part number for fumigant models.

### For Use with Flow Dividers or Squeeze Tube Pumps

| Part Number* | Description  |
|--------------|--|
| SMFD1        | Single Flow Monitor Assembly - Flow Divider Type includes single flow divider monitor body, $\frac{3}{8}$ " NPT female inlet and outlet, (5) $\frac{1}{2}$ " diameter balls, end cap, Viton® O-rings and stainless steel retainer clips. |
| SMFD4        | Set of 4 Flow Monitor Assembly - Flow Divider Type includes 4 bodies, $\frac{3}{8}$ " NPT female inlet and outlet, (20) $\frac{1}{2}$ " diameter balls, end cap, Viton® O-rings and stainless steel retainer clips.                      |
| SMFD1-PE14   | FD Single - Elbow $\frac{1}{4}$ " Push in/Out  |
| SMFD1-PE38   | FD Single - Elbow $\frac{3}{8}$ " Push in/Out  |
| SMFD1-PE56   | FD Single - Elbow $\frac{5}{16}$ " Push in/Out   |
| SMFD4-PE14   | FD Set of 4 - Elbow $\frac{1}{4}$ " Push in/Out  |
| SMFD4-PE38   | FD Set of 4 - Elbow $\frac{3}{8}$ " Push in/Out  |
| SMFD4-PE56   | FD Set of 4 - Elbow $\frac{5}{16}$ " Push In/Out   |

\*add -fum after part number for fumigant models.

### Miscellaneous Components

| Part Number | Description   |
|-------------|---|
| SMPT-0007   | O-ring  |
| SMPT-0009   | Ball storage unit - optional - holds up to 40 balls (use one per set of 8 bodies). Lid can be locked.   |
| SMPT-0014   | Tee - optional - for spray type use with typically 8 total bodies, 1" NPT female inlet port and $\frac{1}{4}$ " female NPT port for gauge.  |
| SMPT-0021   | $\frac{7}{16}$ " Stainless Steel Ball - optional - for use with extra high flow rates.  |
| SMPT-0034   | #112 Viton® O-ring - optional - used to seal orifice plates, install plate in recess of the $\frac{3}{8}$ " NPT port adapters and then install the O-ring to retain and seal orifice plate. |
| SMPT-0049   | Flanged Tee - optional - for spray type use with typically 8 total bodies, 100 series flange with o-rings and $\frac{1}{4}$ " female NPT port for gauge.                                    |
| SMPT-0050   | Yellow Ball - optional - 13% heavier than the blue plastic ball and lighter than the glass ball that comes standard with the VisaGage II.   |
| SMPT-0051   | $\frac{1}{4}$ " Tube Push Connect Elbow Adapter, use existing VisaGage o-ring.  |
| SMPT-0052   | $\frac{5}{16}$ " Tube Push Connect Elbow Adapter, use existing VisaGage o-ring.   |
| SMPT-0053   | $\frac{3}{8}$ " Tube Push Connect Elbow Adapter, use existing VisaGage o-ring.  |
| SMPT-0061   | $\frac{1}{2}$ " NPT End Cap Adapter   |

# Liquid Blockage Monitor System

## LIQUID BLOCKAGE MONITOR SYSTEM (LBMS)

DETECTS LOW-FLOW AND BLOCKED LINES FOR BOTH LIQUID FERTILIZER AND NH<sub>3</sub>.



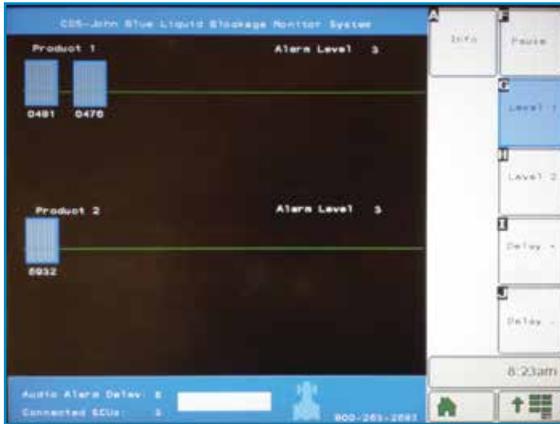
Now you can know your liquid and NH<sub>3</sub> application flow from the cab of your tractor.

### FEATURES OF LBMS:

- Magnetic sensing technology mounted behind Liquid or NH<sub>3</sub> VisaGage II Flow Monitors.
- Can be mounted to existing liquid VisaGage II units, new magnetic balls are supplied.
- Identifies where magnetic balls are floating in each row during application.
- Shows both low and no-flow, plus premium systems show high flow for broken lines.
- See a visual display and hear an audible alarm on the control panel from your tractor cab. Can be used with cloudy or dark liquids and NH<sub>3</sub>, LED is visible to the sides of the columns.
- Each row with a problem, will be highlighted by a flashing LED light at the row. No need to remember or search for the blocked row when you come to a stop.
- Alarm will reset automatically when the blockage has been corrected.
- Can “Pause” the system to capture problem rows for investigation later when you are able to stop.
- Our patented LBMS is available in five user-friendly options: standard wired control panel, iPad, Android or Amazon Kindle wireless system, and ISOBUS.
- LBMS app is free and available from Apple App Store, Google Play, and Amazon.
- Wireless apps and ISOBUS sections can be defined and rows can be numbered.

VISAGAGE II UNITS ARE AVAILABLE ON PAGE 24-25 FOR LIQUID AND PAGE 72 FOR NH<sub>3</sub>/ANHYDROUS AMMONIA.

# Liquid Blockage Monitor System



## ISOBUS Compatible LBMS\*

| Part Number                      | Description   |
|----------------------------------|---|
| BM-08ISO<br>(Universal Kit)      | ISOBUS 8 Row Kit Includes:<br>A. Main Computer Harness<br>B. Job Computer<br>C. Tap Harness -universal or brand-specific (i.e. John Deere®) |
| BM-08ISO-JD<br>(John Deere® Kit) | D. Tee harness<br>E. Two - 15 ft. Extension Harness<br>F. Two Standard Sensor Kits<br>G. Two Terminator Plugs                               |
| BMPT-001                         | 4 Row Sensor Expansion Kit for adding to BM-08ISO and BM-08ISO-JD - includes standard sensor, tee harness, 12 magnetic balls & hardware.    |
| BMPT-036                         | Universal ISOBUS for converting from BMi-08 to ISOBUS.  |
| BMPT-036-JD                      | John Deere® ISOBUS for converting from BMi-08 to ISOBUS.  |

NOTE: Liquid VisaGage II Flow Monitors are ordered separately: SMSS4 set of 4 Flow Monitor Spray Type and SMFD4 set of 4 Flow Monitor Divider Type, see page 24-25. NH<sub>3</sub> VisaGage II ordered separately: SMFD2-NH<sub>3</sub> (2 row) and SMFD4-NH<sub>3</sub> (4 row), see pg. 72.

## HOW TO ORDER:

1. Purchase an ISOBUS 8 Row Liquid Blockage Monitor Kit, #BM-08ISO(-xx):

### Components Included in BM-08ISO, BM-08ISO-JD, etc.:

- Main Computer Harness
- Job Computer
- Tap Harness (universal or brand-specific (i.e. Deere)
- Tee Harness
- 15ft Extension harness (qty = 2)
- Standard Sensor Kit (qty = 2)  
(includes standard sensor, tee harness, 12 magnet balls, & hardware)
- Terminator Plug (qty =2)

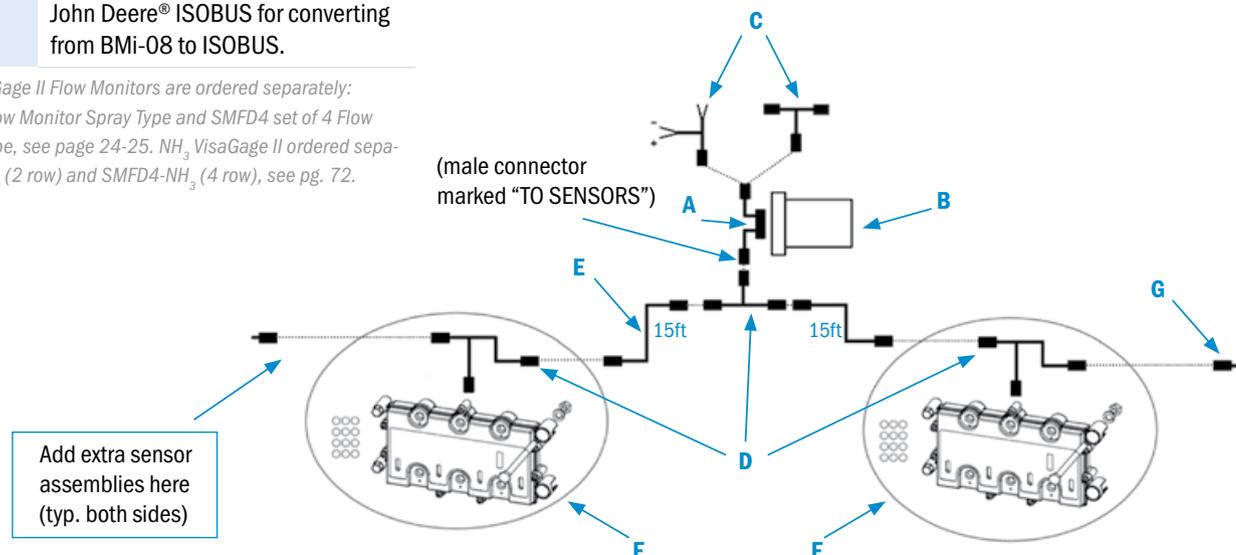
2. If the harness lengths supplied are not long enough for your machine measurements, you can order more of these harnesses and add them anywhere in the circuit:

- **BMPT-012:** 28FT Extension harness
- **BMPT-013:** 15FT Extension harness
- **BMPT-014:** 7FT Extension harness

3. Purchase the required number of 4-Row Sensor Expansion Kits (#BMPT-001) to cover the number of rows on your machine (extra rows are ok). The location of the individual sensors does not matter, and they do not have to be evenly split.

4. Order the required number of Visagage II assemblies for your machine, and at installation you will replace the standard balls with the appropriate magnet ball for your specific row flow rate.

5. Verify that your virtual terminal has the correct software in order to run ISOBUS programs.

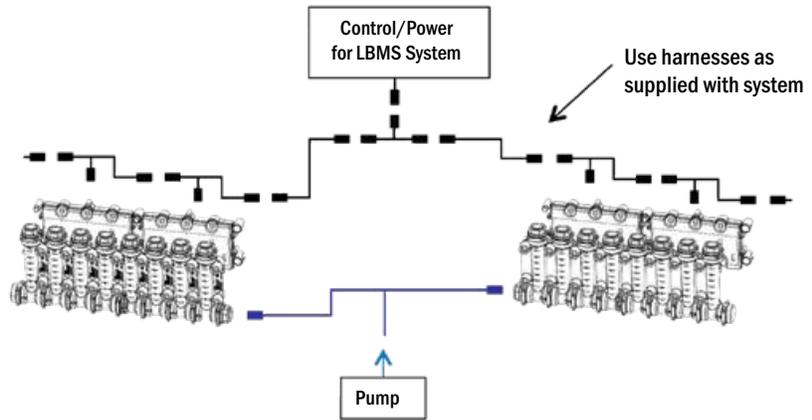


# Premium System: Wireless

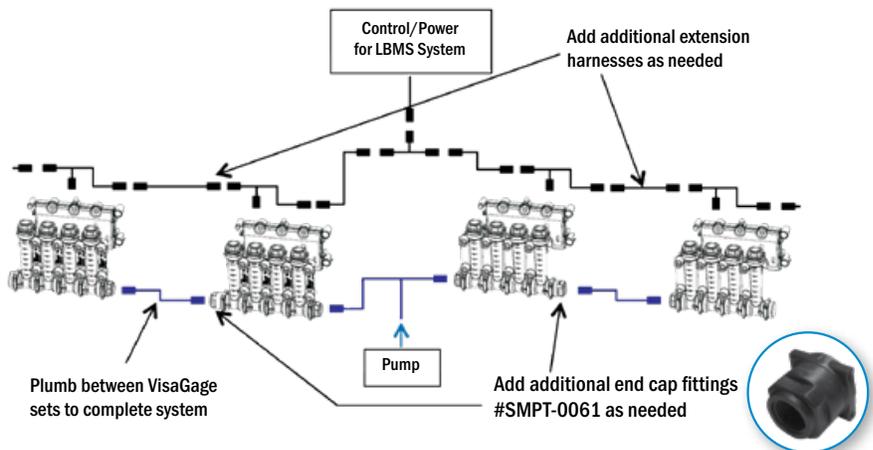


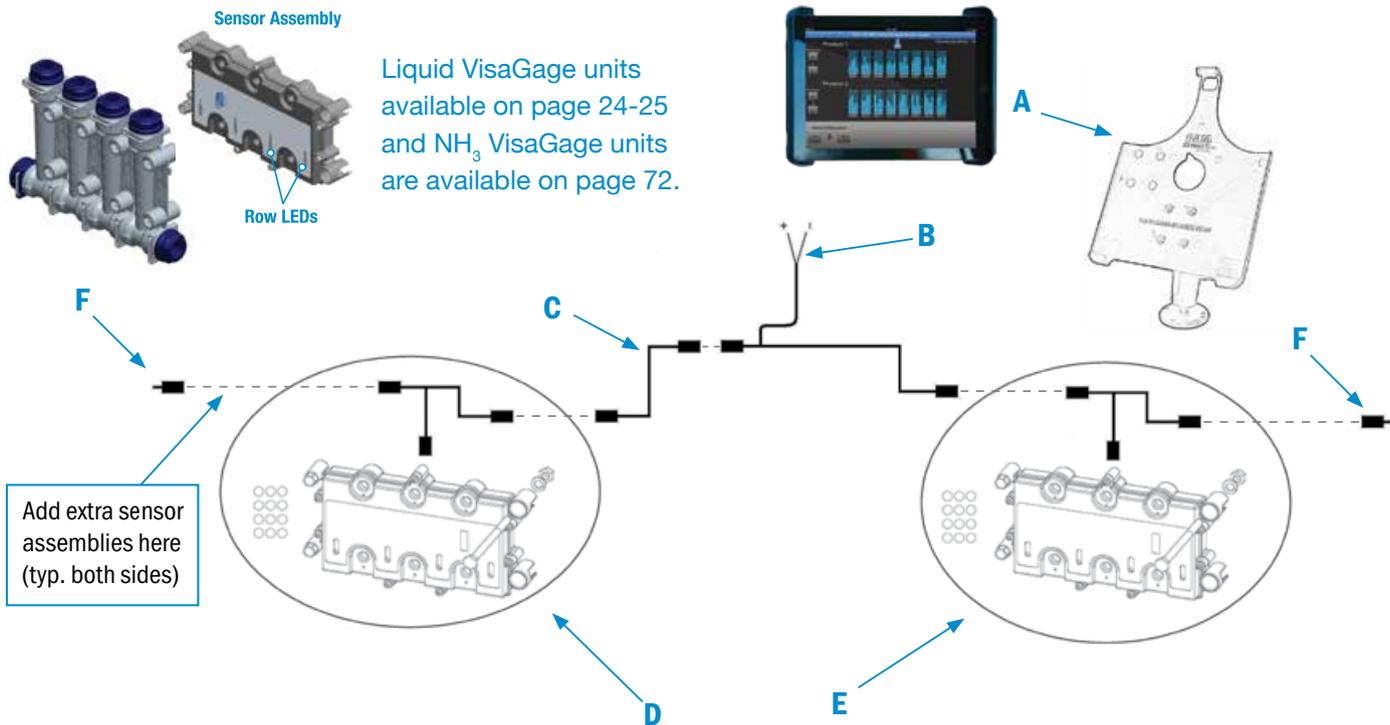
## INSTALLATION OPTIONS FOR SMSS STYLE VISAGAGE II FLOW MONITORS

EXAMPLE OF TRADITIONAL  
“GROUPED” VISAGAGES



EXAMPLE OF OPTIONAL  
“SPACED” SETS OF VISAGAGES:  
FOR USE WITH A LOG TYPE  
MANIFOLD SYSTEM OR WHEN A  
SHORTER LINE LENGTH TO EACH  
ROW IS DESIRED





The LBMS app is free and available from the Apple App store, Google Play, and Amazon.

## HOW TO ORDER:

1. Purchase a Premium 8 Row Blockage Monitor Kit, #BMI-08
2. If the harness lengths supplied are not long enough for your machine measurements, additional harnesses can be ordered and added anywhere in the circuit:
  - BMPT-012: 28FT Extension harness
  - BMPT-013: 15FT Extension harness
  - BMPT-014: 7FT Extension harness
3. Purchase the required number of 4-Row Sensor Expansion Kits (#BMPT-001, item E) to cover the number of rows on your machine (extra rows are ok). The location of the individual sensors does not matter and they do not have to be evenly split.
4. Order the required number of VisaGage II assemblies for your machine. At installation replace the standard balls with the appropriate magnet ball for your specific row flow rate for liquid only. NH<sub>3</sub> VisaGage units come standard with magnetic balls.
5. Purchase an iPad 2 or newer display running the latest iOS or a quality 7" or larger Android tablet running at least Android 4.0.

| Premium System* |   |
|-----------------|---|
| Part Number     | Description   |
| BMI-08          | Premium 8 Row Kit Includes:<br>A. iPad ram mounting bracket<br>B. Input harness<br>C. 28 ft. extension harness<br>D. Wireless sensor kit<br>E. Standard sensor kit<br>F. Two terminator plugs |
| BMPT-001        | 4 Row Sensor Expansion Kit for adding to BMI-08 Includes: standard sensor, tee harness, magnet balls and hardware.  |

\*Liquid VisaGage II Flow Monitors are ordered separately: SMSS4 set of 4 Flow Monitor Spray Type and SMFD4 set of 4 Flow Monitor Divider Type, see page 24-25. NH<sub>3</sub> VisaGage II ordered separately: SMFD2-NH<sub>3</sub> (2 row) and SMFD4-NH<sub>3</sub> (4 row), see page 72.

# Standard Control Panel: Wired\*

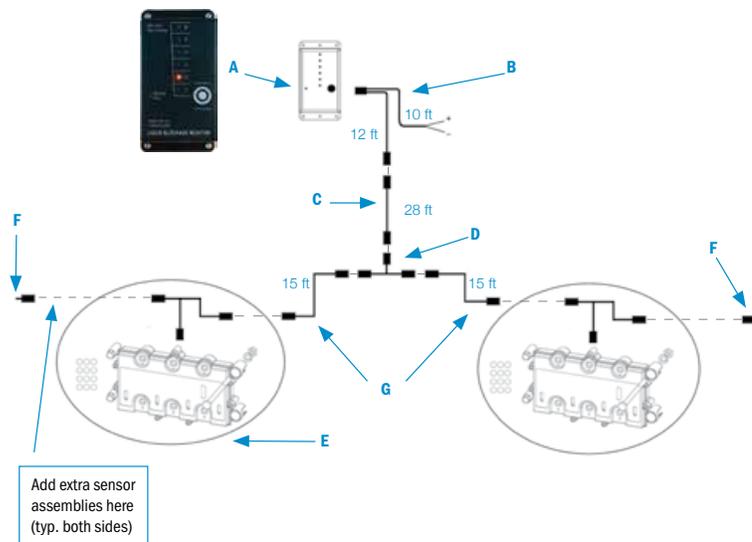
## STANDARD CONTROL PANEL (WIRED)\*



Alarm Setting Indicator

Selection Button

Blocked Row LED



### HOW TO ORDER:

1. Purchase one of the Standard 8 Row Blockage Monitor Kits, BM-08AP or BM-08PL, which differ by item(s) "G". See the following:
2. If the harness lengths supplied are not long enough for your machine measurements, additional harnesses can be ordered and added anywhere in the circuit:
  - **BMPT-012:** 28FT Extension harness
  - **BMPT-013:** 15FT Extension harness
  - **BMPT-014:** 7FT Extension harness
3. Purchase the required number of 4-Row Sensor Expansion Kits (#BMPT-001, item E) to cover the number of rows on your machine (extra rows are ok). The location of the individual sensors does not matter and they do not have to be evenly split.
4. Order the required number of VisaGage II assemblies for your machine. At installation replace the standard balls with the appropriate magnet ball for your specific row flow rate for liquid only. NH<sub>3</sub> VisaGage LMBS come standard with magnetic balls.

| Standard Control System * |  |
|---------------------------|--|
| Part Number               | Description  |
| BM-08AP                   | Applicator 8 Row Kit Includes:<br>A. Control panel with mount bracket<br>B. Input harness<br>C. 28 ft. extension harness<br>D. Tee harness<br>E. Two standard sensor kits<br>F. Two terminator plugs                                 |
| BM-08PL                   | Planter 8 Row Kit Includes:<br>A. Control panel mounting bracket<br>B. Input harness<br>C. 28 ft. extension harness<br>D. Tee harness<br>E. Two standard sensor kits<br>F. Two terminator plugs<br>G. Two 15 ft. extension harnesses |
| BMPT-001                  | 4-Row Sensor Expansion Kit for adding to BM-08AP and BM-08PL - includes: standard sensor, tee harness, magnet balls and hardware.  |

\*Liquid VisaGage II Flow Monitors are ordered separately: SMSS4 set of 4 Flow Monitor Spray Type and SMFD4 set of 4 Flow Monitor Divider Type, see page 25. NH<sub>3</sub> VisaGage II ordered separately: SMFD2-NH<sub>3</sub> (2 row) and SMFD4-NH<sub>3</sub> (4 row), see page 72.



Liquid VisaGage units are available on page 24-25 and NH<sub>3</sub> VisaGage units are available on page 72.

UPDATE YOUR JOHN DEERE® EQUIPMENT WITH THE LATEST TECHNOLOGY FROM JOHN BLUE COMPANY

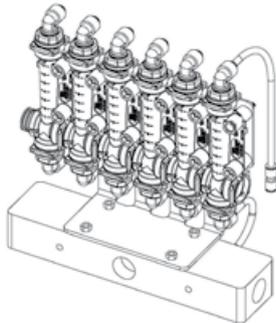
JOHN BLUE COMPANY HAS DEVELOPED THE FOLLOWING KITS TO MAKE IT EASIER TO USE JOHN BLUE PRODUCTS ON YOUR JOHN DEERE® PLANTER.



**Kits for converting the 1770NT John Deere® Port Manifold System to the John Blue Flow Divider (for planters built 2012 and after).**

| Part Number     | Description  |
|-----------------|--|
| 116098 (16 row) | Kit includes 16 outlet Flow Divider, (16) 1 PSI Check Valves and all necessary plumbing. |
| 116099 (12 row) | Kit includes 12 outlet Flow Divider, (12) 1 PSI Check Valves and all necessary plumbing. |

\*VisaGage II's are available, see pages 24-25.



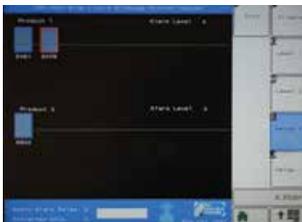
**VisaGage II Kits when just adding flow monitors to your 1770NT John Deere® Planter (planters built 2012 and after). Kits will bolt directly to your manifold.**

| Part Number     | Description   |
|-----------------|---|
| 116150 (24 row) | Kit includes (6) sets of 4 Flow Monitor Assemblies, backing plate, mounting bracket, tubing and all necessary plumbing.   |
| 116107 (16 row) | Kit includes (4) Sets of 4 Flow Monitor Assemblies, backing plates, mounting brackets, tubing and all necessary plumbing. |
| 116108 (12 row) | Kit includes (3) Sets of 4 Flow Monitor Assemblies, backing plates, mounting brackets, tubing and all necessary plumbing. |
| 116151 (8 row)  | Kit includes (2) sets of 4 Flow Monitor Assemblies, backing plate, mounting bracket, tubing and all necessary plumbing.   |



**Variable Rate Hydraulic (VRH) Drive Kits for John Deere® Planters**

| Part Number | Description   |
|-------------|---|
| VRH-JD-10   | VRH Kit for John Deere® CANbus Planters Using GreenStar™ GS2 and GS3. Kit includes: mounting bracket, chain, sprockets, hydraulic motor, PWM flow control manifold, custom adaptor harness and setup instructions with parts listing for obtaining off-the-shelf components to complete installation. Other applications may work, but CANbus wiring must be present. |
| VRH-JD-15   | Multi-Section VRH Drive Kit for John Deere® CANbus Planters using GreenStar™ GS2 and GS3. Kit includes same as above except for harness to control up to 7 section valves. Other applications may work, but CANbus wiring must be present.  |



**ISOBUS Compatible Liquid Blockage Monitor System (LBMS)**

| Part Number | Description   |
|-------------|---|
| BM-08ISO-JD | 8 row kit for John Deere® Planters with ISOBUS, splice harness supplied for quick connection. |
| BMPT-036-JD | John Deere® ISOBUS for converting from BMi-08 to ISOBUS.                                      |

IDEAL FOR ALL FERTILIZERS:

# Squeeze Tube Pumps



## OVAL-SHAPED TUBE WITH BUILT-IN BACKING PLATE SQUEEZE TUBE PUMP

**8B-1**

Sealed-for-life bearings require no lubrication.

Oval-shaped tubes with built-in backing plate insure accurate rates. The positive shut-off is due to the positive sealing tubes.

Rubber-coated rollers are easily replaced in the field, plus non-metallic roller surfaces reduce abrasion, resist corrosion and etching by fertilizers.

Heavy-duty PVC manifolds are ideal for all fertilizers including acid-based products.

Sturdy, all metal frame.

8-48 outlets are available. Outlets can be doubled for higher rates.

Pump shaft lets you drive the unit from either side.

Multiple-coned sprockets come standard allowing for seven different delivery rates.

## ROUND HOSE WITH PATENTED SPRING LOADED BACK PLATE SQUEEZE TUBE PUMP



**L-6-C**

Patented spring loaded back plate insures accurate rates.

Positive shut-off when pump stops.

6-16 outlets are available.

Fittings can be relubricated to flush out contamination.

Heavy cast iron frame.

Choice of optional individual sprockets or complete cluster sets.

# Squeeze Tube Pumps

APPLICATION PUMPS  
AND ACCESSORIES

CENTRIFUGAL  
PUMPS

IRRIGATION  
INJECTION PUMPS

DIAPHRAGM  
PUMPS

ANHYDROUS  
AMMONIA

SPECIALTY  
PUMPS

MISC. ACCESSORIES  
AND SERVICE KITS

## SQUEEZE PUMP SPECIFICATIONS

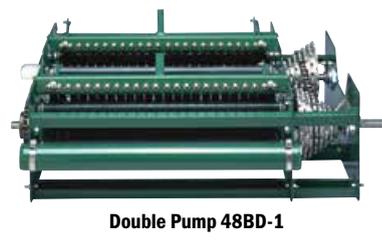
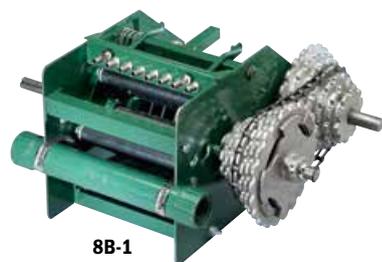
| Hose Size  | Maximum Output Per Hose | Maximum Speed | Maximum Pressure | Rate Range GPA |
|--|-------------------------|---------------|------------------|----------------|
| <b>Oval Shaped Tube With Built-in Backing Plate Squeeze Pump</b> |                         |               |                  |                |
| 3/8"   | .63 GPM                 | 100           | 6 PSI            | 1.5-25*        |
| 5/8"   | 1.26 GPM                | 100           | 6 PSI            | 3-50*          |
| <b>Round Hose Spring Loaded Back Plate Squeeze Pump</b>          |                         |               |                  |                |
| 5/16"  | .58 GPM                 | 125           | 6 PSI            | 3-23**         |
| 1/2"   | 1.4 GPM                 | 125           | 6 PSI            | 7-55**         |

\*Maximum GPA rating based on 5 MPH, 30 inch rows. Minimum is based on 24 pulses per minute.

\*\*Maximum rating based on 5 MPH, 30 inch rows. Minimum is based on 48 pulses per minute.

## MODELS AVAILABLE FOR OVAL-SHAPED SQUEEZE TUBE PUMP WITH BUILT-IN BACKING PLATE

| Part Number                    | Number of Rows | Metering Hose Size | GPA    | Discharge Hose Size | Suction Hose Port |
|--------------------------------|----------------|--------------------|--------|---------------------|-------------------|
| <b>Standard Models</b>         |                |                    |        |                     |                   |
| 8B-1                           | 8              | 3/8"               | 1.5-25 | 3/8"                | 1 1/4" FPT        |
| 8L                             | 8              | 5/8"               | 3-50   | 1/2"                | 1 1/4" FPT        |
| 12B-1                          | 12             | 3/8"               | 1.5-25 | 3/8"                | 1 1/4" FPT        |
| 12L                            | 12             | 5/8"               | 3-50   | 1/2"                | 1 1/4" FPT        |
| 16B-1                          | 16             | 3/8"               | 1.5-25 | 3/8"                | 1 1/4" FPT        |
| 16L                            | 16             | 5/8"               | 3-50   | 1/2"                | 1 1/4" FPT        |
| 24B-1                          | 24             | 3/8"               | 1.5-25 | 3/8"                | 1 1/4" FPT        |
| <b>Hydraulic Models</b>        |                |                    |        |                     |                   |
| 8B-IH                          | 8              | 3/8"               | 1.5-25 | 3/8"                | 1 1/4" FPT        |
| 8L-H                           | 8              | 5/8"               | 3-50   | 1/2"                | 1 1/4" FPT        |
| 12B-IH                         | 12             | 3/8"               | 1.5-25 | 3/8"                | 1 1/4" FPT        |
| 12L-H                          | 12             | 5/8"               | 3-50   | 1/2"                | 1 1/4" FPT        |
| 16B-IH                         | 16             | 3/8"               | 1.5-25 | 3/8"                | 1 1/4" FPT        |
| 16L-H                          | 16             | 5/8"               | 3-50   | 1/2"                | 1 1/4" FPT        |
| <b>Combination Pump Models</b> |                |                    |        |                     |                   |
| 8B-1/8L                        | 16             | 3/8" & 5/8"        | 1.5-50 | 3/8" & 1/2"         | 1 1/4" FPT        |
| 8L-H                           | 8              | 5/8"               | 3-50   | 1/2"                | 1 1/4" FPT        |
| <b>Double Pump Models</b>      |                |                    |        |                     |                   |
| 24LD                           | 24             | 5/8"               | 3-50   | 1/2"                | 1 1/4" FPT        |
| 32BD-1                         | 32             | 3/8"               | 1.5-25 | 3/8"                | 1 1/4" FPT        |
| 40BD-1                         | 40             | 3/8"               | 1.5-25 | 3/8"                | 1 1/4" FPT        |
| 48BD-1                         | 48             | 3/8"               | 1.5-25 | 3/8"                | 1 1/4" FPT        |



Note: B-1 Pumps have stainless steel fittings.

L Pumps have plastic fittings.

Combination Pumps have B-1 Pump at front (input drive end).

# Squeeze Tube Pumps



## ROUND HOSE SPRING LOADED BACK PLATE SQUEEZE TUBE PUMP

| Standard Models |                |                    |      |                     |                   |
|-----------------|----------------|--------------------|------|---------------------|-------------------|
| Part Number     | Number of Rows | Metering Hose Size | GPA  | Discharge Hose Size | Suction Hose Size |
| L-6-C           | 6              | ½"                 | 7-55 | ½"                  | 1"                |
| L-8-C           | 8              | 5/16"              | 3-23 | 3/8"                | 1"                |
| L-8-LC          | 8              | ½"                 | 7-55 | ½"                  | 1 ¼"              |
| L-12-SC         | 12             | 5/16"              | 3-23 | 3/8"                | 1 ¼"              |
| L-12-C          | 12             | ½"                 | 7-55 | ½"                  | 1 ¼"              |
| L-16-C          | 16             | 5/16"              | 3-23 | 3/8"                | 1 ¼"              |



L-6-C

## PUMP DRIVES AND OPTIONAL ACCESSORIES

| Standard Models |  |
|-----------------|--|
| Part Number     | Description  |
| L-4512          | Sprocket Package - Base: includes (2) L-1414 & (2) L-4414; 10T, 15T, 20T, 22T & 26T sprockets.               |
| L-4513          | Sprocket Package - Complete: includes L-1414 & L-4414; 8T, 9T, 10T, 15T, 22T, 23T, 26T, 30T & 31T sprockets. |
| 114272          | Sprocket Cluster for the round tube squeeze pump containing 10T, 15T, 20T, 22T, 26T sprockets.               |

| Miscellaneous Components |  |             |  |
|--------------------------|--|-------------|--|
| Part Number              | Description                                | Part Number | Description                                |
| 111698-01                | Hub Adaptor-4 Hole                         | L-1383      | 8 Tooth Sprocket                           |
| 111699-02                | Hub Adaptor-5 Hole                         | L-1384      | 9 Tooth Sprocket                           |
| 112612-01                | Hub Adaptor-6 Hole                         | L-1385      | 10 Tooth Sprocket                          |
| L-1414                   | Sprocket Adaptor - 7/8" Bore               | L-1386      | 15 Tooth Sprocket                          |
| L-1414-1                 | Sprocket Adaptor - 1" Bore                 | L-1381      | 20 Tooth Sprocket                          |
| L-1414-2                 | Sprocket Adaptor - ¾" Bore                 | L-1387      | 22 Tooth Sprocket                          |
| L-4414                   | Sprocket Retainer - 7/8" Bore              | L-1388      | 23 Tooth Sprocket                          |
| L-4414-1                 | Sprocket Retainer - 1" Bore                | L-1389      | 26 Tooth Sprocket                          |
| L-4414-2                 | Sprocket Retainer - ¾" Bore                | L-1390      | 30 Tooth Sprocket                          |
| 112838                   | Sprocket Retainer - 7/8" Hex               | L-1391      | 31 Tooth Sprocket                          |
| 112839                   | Sprocket Adaptor - 7/8" Hex                | L-1392      | 32 Tooth Sprocket                          |
| 114565-91                | 35 Tooth Split Sprocket for 7/8" Hex Shaft | 114936-91   | 32 Tooth Split Sprocket for 7/8" Hex Shaft |



SEE OUR COMPLETE LINE OF GROUND DRIVES ON PAGES 17-18.

REPAIR PARTS AVAILABLE ON PAGE 79-81.



**113983**

**STAINLESS MANIFOLD FEATURES:**

- The John Blue manifold can be used with clear liquids for even distribution when used with proper size.
- Manifolds are constructed of domestic investment cast stainless steel, which will last for many years.
- Heavy duty, cast iron manifolds are also available.

| Manifolds and Mounts |   |                   |            |              |          |          |
|----------------------|---|-------------------|------------|--------------|----------|----------|
| Part Number          | Description                               | Number of Outlets | Rating PSI | Construction | Inlet    | Outlet   |
| 113983               | NH <sub>3</sub> Manifold w/ Flow Diffuser | 12                | 150        | 304 SS       | 1" FPT   | ¼" FPT   |
| 113934               | Liquid Manifold                           | 12                | 250        | 304 SS       | 1" FPT   | ¼" FPT   |
| 114015               | Liquid Manifold                           | 4                 | 250        | 304 SS       | 1 ½" FPT | ¾" FPT   |
| 114382               | Liquid Manifold                           | 16                | 250        | 304 SS       | 1" FPT   | ¼" FPT   |
| A-526-L              | Liquid Manifold                           | 8                 | N/A        | Cast Iron    | ¾" FPT   | ¼" FPT   |
| A-1402-L             | Liquid Manifold                           | 12                | N/A        | Cast Iron    | ¾" FPT   | ¼" FPT   |
| L-1730               | Liquid Manifold                           | 3                 | N/A        | Polyethylene | ¾" FPT   | 3/8" FPT |
| 114106               | Manifold Mount for 114015                 | N/A               | N/A        | N/A          | N/A      | N/A      |



**113934**



**114015**



**114382**

# Check Valves

## CHECK VALVES AND HOSE BARBS:

Check Valves prevent backflow, siphoning and bleed through of product. John Blue offers check valves in both poly and 316 stainless steel. Regardless if you are using an orifice system or the proven flow divider technology, John Blue has an inline check valve that's right for you.

### Check Valves - Used with Flow Dividers and Manifolds (More information on pages 22-23)

| Description  | Part Number |
|--|-------------|
| Stainless steel - ¼" FPT with nozzle cap                 | NS-3030     |
| Stainless Steel - 1 1/16" Female threads with nozzle cap | NS-3032     |
| Nylon, in-line - 3/8" hose x 3/8" hose                   | NS-3035     |
| Nylon, in-line ½" hose x ½" hose                         | 113827      |

| Description*  | 1 PSI Part Numbers | 3 PSI Part Numbers |
|---|--------------------|--------------------|
| Poly Check Valve, ¼" NPT Female Inlet and Outlet      | CV-1101            | CV-1103            |
| Poly Check Valve, ¼" Push Connect Inlet and Outlet    | CV-1101-P14        | CV-1103-P14        |
| Poly Check Valve, 5/16" Push Connect Inlet and Outlet | CV-1101-P56        | CV-1103-P56        |
| Poly Check Valve, 3/8" Push Connect Inlet and Outlet  | CV-1101-P38        | CV-1103-P38        |
| Poly Check Valve, ¼" Hose Barbs Inlet and Outlet      | CV-1101-B14        | CV-1103-B14        |
| Poly Check Valve, 3/8" Hose Barbs Inlet and Outlet    | CV-1101-B38        | CV-1103-B38        |
| Poly Check Valve, ½" Hose Barbs Inlet and Outlet      | CV-1101-B12        | CV-1103-B12        |

\*Optional inlet/outlet configurations available.

### Hose Barbs - Used with Flow Dividers and Manifolds

| Part Number | Description                    | MPT Size | Hose Size |
|-------------|--------------------------------|----------|-----------|
| A-94        | Hose coupling, steel           | ¼"       | ¼"        |
| A-94-A      | Hose coupling                  | ¼"       | 3/8"      |
| A-94-AS     | Hose coupling, stainless steel | ¼"       | 3/8"      |
| A-94-S      | Hose couple                    | 1/8"     | ¼"        |
| A-7786      | Hose coupling, steel           | ¼"       | ½"        |
| S-2927      | Hose coupling, nylon           | ¼"       | 3/8"      |
| T-2207      | Hose insert, nylon             | ¼"       | ½"        |



POLYPROPYLENE AND CAST IRON

# Centrifugal Pumps



John Blue Centrifugal transfer pumps are second to none when it comes to moving your hard to handle products quickly and efficiently. Not only are they built to last, but they are built to forgive as well—running them dry will not harm the seal, which allows the user a piece of mind unsurpassed by other centrifugal pump manufacturers. Often imitated but never duplicated, John Blue cast iron Centrifugal pumps are backed by a two-year, unconditional warranty - no other transfer pump can match its superior transfer rates, durability, or reliability.

For over 40 years, our Centrifugal Transfer pumps have been the industry standard for transferring liquid products, and with their track record of dependability, they will continue to be the flagship other transfer pumps can only follow.

APPLICATION PUMPS  
AND ACCESSORIES

CENTRIFUGAL  
PUMPS

IRRIGATION  
INJECTION PUMPS

DIAPHRAGM  
PUMPS

ANHYDROUS  
AMMONIA

SPECIALTY  
PUMPS

MISC. ACCESSORIES  
AND SERVICE KITS

POLYPROPYLENE AND CAST IRON  
**Centrifugal Pumps**

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# Polypropylene (PSP)



**PSP-3240**

**PATENT-PENDING  
2" SELF-PRIMING POLY-CENTRIFUGAL PUMPS**



|                           |                              |
|---------------------------|------------------------------|
| 200 GPM Max Flow          | Vac-U-Seal Impeller          |
| 45 PSI Max Pressure       | Close-coupled Shaft          |
| 112 GPM @ 25 PSI          | Fits 3/4" Diameter Shaft     |
| Max Speed 3600            | Double Wet Seal Assembly     |
| Required Horsepower: 5 HP | Chemical Resistant Materials |
| 2" Inlet & Outlet FPT     | 3" Models - COMING SOON      |

**PRODUCT FEATURES**

- Fully-assembled from the factory—ready to be attached to power source immediately.
- Double Wet Seal Assembly—pump can be run dry without causing seal failure. The seal is antifreeze cooled. (Antifreeze is pre-filled from the factory.)
- Closed Impeller Technology—pump efficiency improves over time as the impeller wears.
- Polypropylene Body, FKM and Viton® Seals, 316SS Impeller Shaft for excellent chemical resistance.
- Pump can be removed, or engine can be replaced without having to disassemble the pump.
- 1" FPT pressure access & 1/2" FPT drain port

**PSP - Poly-Centrifugal Models**

| Part Number       | Pump Type   | Part Number | Accessories                          |
|-------------------|---|-------------|--------------------------------------|
| PSP-3240          | Engine mount, 2" FPT Ports  | 116287-01   | Optional Screw-in 220 Flange Adapter |
| PSP-3240-FLG      | Engine mount, 2" FPT Ports, Flanged Fittings                                  | 116395-91   | Base Rail Kit - 2" Poly Pump         |
| PSP-3240-E        | Electric Motor Mount, 2" FPT Ports  | 116476-91   | 2" PSP Electric Front Mount Kit      |
| PSP-3240-EFLG     | Electric Motor Mount, 2" FPT Ports, Flanged Fittings                          |             |                                      |
| PSP-3240-G5H      | 2" FPT Ports with Honda GX160 Motor   |             |                                      |
| PSP-3240-G5HFLG   | 2" FPT Ports with Honda GX160 Motor, Flanged Fittings                         |             |                                      |
| PSP-3240-G6H      | 2" FPT Ports with Honda GX200 Motor   |             |                                      |
| PSP-3240-G6HFLG   | 2" FPT Ports with Honda GX200 Motor, Flanged Fittings                         |             |                                      |
| PSP-3240-E5D1B    | Poly Centrifugal Pump, 2" FPT Ports, 5 HP Electric Drip Proof, 1 Phase        |             |                                      |
| PSP-3240-E5D1BFLG | Poly Centrifugal Pump, 220 Flange Adapters, 5 HP Electric Drip Proof, 1 Phase |             |                                      |
| PSP-3240-E5D3B    | Poly Centrifugal Pump, 2" FPT Ports, 5 HP Electric Drip Proof, 3 Phase        |             |                                      |
| PSP-3240-E5D3BFLG | Poly Centrifugal Pump, 220 Flange Adapters, 5 HP Electric Drip Proof, 3 Phase |             |                                      |
| PSP-3240-E5T1B    | Poly Centrifugal Pump, 2" FPT Ports, 5 HP Electric TEFC, 1 Phase              |             |                                      |
| PSP-3240-E5T1BFLG | Poly Centrifugal Pump, 220 Flange Adapters, 5 HP Electric TEFC, 1 Phase       |             |                                      |
| PSP-3240-E5T3B    | Poly Centrifugal Pump, 2" FPT Ports, 5 HP Electric TEFC, 3 Phase              |             |                                      |
| PSP-3240-E5T3BFLG | Poly Centrifugal Pump, 220 Flange Adapters, 5 HP Electric TEFC, 3 Phase       |             |                                      |



**PSP-3240-E5T3B**



**PSP-3240-G5H**

# Cast-Iron Pumps

## NEXT GENERATION 2", 3", AND 4" SELF-PRIMING CENTRIFUGAL PUMPS



### 2-YEAR UNCONDITIONAL WARRANTY ON CAST-IRON PUMPS!\*

All John Blue Centrifugal Pumps can run dry without damaging the seal. This, combined with a two-year factory-backed UNCONDITIONAL WARRANTY on cast-iron models, makes the John Blue Centrifugal Pumps second to no other pump manufacturer on the market today—all at an affordable price. Available with Gas, Electric, or Hydraulic Power Sources.

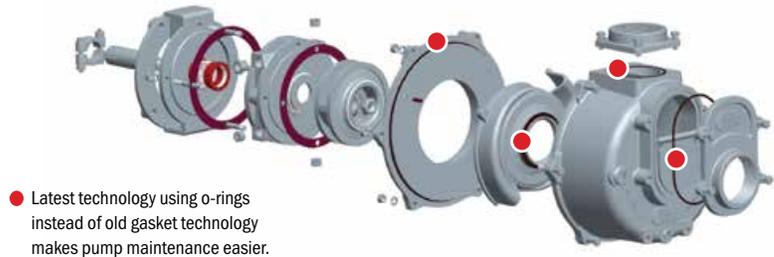
### 2-IN-1 INLET DESIGN ON SELF-PRIMING PUMPS:

- Growers can select from 2 inlet locations on 1 Pump.
- The standard lower inlet with the backflow valve, yields maximum pump flow.
- The higher inlet allows the outlet lines to drain after shutoff while retaining self-priming capability on start-up.
- Patent-pending



### FEATURES:

- Patented Vac-U-Seal impeller design creates a vacuum between the impeller and mechanical seal. Lack of pressure on the seal face minimizes seal wear and results in a longer seal life.
- Double wet seal design provides for continuous lubrication of the seal faces. This wet seal design allows the pump to be run dry for extended periods with no damage to the mechanical seal faces.
- Closed impeller design minimizes thrust loading on the drive motor extending the life of the drive motor. Impeller wear increases performance, our pumps get better with use!



• Latest technology using o-rings instead of old gasket technology makes pump maintenance easier.



\*2-year unconditional warranty is for cast-iron centrifugal pumps only.

# Pumps and Gas Engines



**SP-3350**  
3" Self-Priming HF,  
up to 400 GPM



**SP-3240-G5H**  
2" NPT Self-Priming,  
5 HP Honda, w/Base,  
up to 200 GPM



**SP-3350-G13HFLG**  
3" NPT Self-Priming,  
13 HP Honda, Elec. Start,  
w/Base, up to 400 GPM

| Part Number   | Pump Type*                       | Max Capacity GPM | Capacity @ 25 PSI | Max Pressure PSI | Max Speed RPM | Required HP | Inlet & Outlet FPT |
|---|----------------------------------|------------------|-------------------|------------------|---------------|-------------|--------------------|
| <b>Pumps For Gasoline Engines - Note: A Base Mounting for Engine Required</b> |                                  |                  |                   |                  |               |             |                    |
| S-3220  | 2" Straight, 3/4" Shaft          | 197              | 140               | 39               | 3600          | 5           | 2"                 |
| S-3320  | 3" Straight, 1 1/8" Shaft        | 365              | 310               | 60               | 3600          | 10          | 3"                 |
| SP-3240   | 2" Self-Priming, 3/4" Shaft      | 200              | 112               | 42               | 3600          | 5           | 2"                 |
| SP-3340   | 3" Self-Priming, 1 1/8" Shaft    | 340              | 265               | 64               | 3600          | 10          | 3"                 |
| SP-3350   | 3" Self-Priming HF, 1 1/8" Shaft | 400              | 365               | 64               | 3600          | 13          | 3"                 |
| SP-3350-BS  | 3" Self-Priming HF, 1" Shaft     | 400              | 365               | 64               | 3600          | 13          | 3"                 |
| SP-3450   | 2nd Gen HF 4"x3" SP Cent-Gas     | 560              | 470               | 64               | 3600          | 20          | 4" x 3"            |

- Keyed shaft clamp standard on 3" -BS gasoline engine pumps.

| <b>Pumps Coupled To Gasoline Engines</b> |  |     |     |    |      |    |    |
|--|--|-----|-----|----|------|----|----|
| S-3220-G5H                               | 2" Straight, 5 HP Honda Engine with Base                           | 197 | 140 | 39 | 3600 | 5  | 2" |
| SP-3240-G5H                              | 2" Self-Priming, 5 HP Honda Engine With Base                       | 200 | 112 | 42 | 3600 | 5  | 2" |
| SP-3350-G13H                             | 3" Self-Priming HF, 13 HP Honda, Electric Start, Engine with Base  | 400 | 365 | 64 | 3600 | 13 | 3" |
| SP-3350-G14K                             | 3" Self-Priming HP, 14 HP Kohler, Electric Start, Engine with Base | 400 | 365 | 64 | 3600 | 14 | 3" |

\* Pump size given in inches refers to inlet and outlet sizes.

- Silicon-Carbide seals available on 2" and 3" pumps, add -C after part number.

- Flange option available on 2" and 3" pumps, add -FLG after part number.

# Pumps & Electric Motors



**S-3220-E**  
2" Straight,  
up to 197 GPM



**SP-3240-E**  
2" Self-Priming,  
up to 200 GPM



**SP-3350-E**  
3" Self-Priming,  
up to 400 GPM



**SP-3350-E15TB:**  
3" NPT Self-Priming,  
15 HP, 3 Phase, TEFC,  
with Base, up to 400 GPM



**SP-3450-E20TB:**  
4"x3" NPT Self-Priming  
20 HP, 3 Phase,  
TEFC w/Base,  
up to 560 GPM

| Part Number                             | Pump Type*  | Max Capacity GPM | Capacity @ 25 PSI | Max Pressure PSI | Max Speed RPM | Required HP | Inlet & Outlet FPT |
|---|---|------------------|-------------------|------------------|---------------|-------------|--------------------|
| <b>Pumps for Electric Motors</b>        |   |                  |                   |                  |               |             |                    |
| S-3220-E                                | 2" Straight, 3/4" Shaft                                     | 197              | 140               | 39               | 3600          | 5           | 2"                 |
| S-3320-E                                | 3" Straight, 1 1/8" Shaft                                   | 365              | 310               | 60               | 3600          | 10          | 3"                 |
| SP-3240-E                               | 2" Self-Priming, 3/4" Shaft                                 | 200              | 112               | 42               | 3600          | 5           | 2"                 |
| SP-3340-E                               | 3" Self-Priming, 1 1/8" Shaft                               | 340              | 265               | 64               | 3600          | 10          | 3"                 |
| SP-3350-E                               | 3" Self-Priming HF, 1 1/8" Shaft                            | 400              | 365               | 64               | 3600          | 15          | 3"                 |
| SP-3450-E                               | 2nd Gen HF 4"x3"SP Cent Elect                               | 560              | 470               | 64               | 3600          | 19          | 4"x3"              |
| <b>Pumps Coupled to Electric Motors</b> |   |                  |                   |                  |               |             |                    |
| S-3220-E5D3                             | 2" Straight, 5 HP 3 Phase                                   | 197              | 140               | 39               | 3600          | 5           | 2"                 |
| S-3320-E10T                             | 3" Straight, 10 HP Electric TEFC, 3 Phase                   | 365              | 310               | 60               | 3600          | 10          | 3"                 |
| S-3320-E15T                             | 3" Straight, 15 HP Electric TEFC, 3 Phase                   | 365              | 310               | 60               | 3600          | 15          | 3"                 |
| SP-3240-E5D3B                           | 2" Self-Priming 5 HP Electric Drip Proof, 3 Phase with Base | 200              | 112               | 42               | 3600          | 5           | 2"                 |
| SP-3240-E5T3B                           | 2" Self-Priming 5 HP Electric TEFC, 3 Phase with Base       | 200              | 112               | 42               | 3600          | 5           | 2"                 |
| SP-3340-E10TB                           | 3" Self-Priming, 10 HP Electric TEFC, 3 Phase               | 340              | 265               | 64               | 3600          | 10          | 3"                 |
| SP-3340-E10TB-1                         | 3" Self-Priming, 10 HP Electric TEFC, 1 Phase               | 340              | 265               | 64               | 3600          | 10          | 3"                 |
| SP-3350-E15TB                           | 3" Self-Priming HF, 15 HP Electric TEFC, 3 Phase with Base  | 400              | 365               | 64               | 3600          | 15          | 3"                 |
| SP-3450-E20TB                           | 2nd Gen HF 4"x3" SP Cent with 20 HP Electric Motor w/ Base  | 560              | 470               | 64               | 3600          | 20          | 4"x3"              |

\*Pump size given in inches refers to inlet and outlet sizes.

\*\*Power based on electric motor with full voltage and pumping water..

# Pedestals & Hydraulic Motors



**SP-3240-PH**  
2" Self-priming HY Drive,  
up to 200 GPM

**SP-3350-BSFLG**  
3" Self-Priming HF,  
up to 400 GPM



| Part Number   | Pump Type*                                 | Max Capacity GPM | Capacity @ 25 PSI | Max Pressure PSI | Max Speed RPM | Required HP | Inlet & Outlet FPT |
|---|--|------------------|-------------------|------------------|---------------|-------------|--------------------|
| <b>Pumps With Pedestal Mount</b>                                    |  |                  |                   |                  |               |             |                    |
| S-3220-P  | 2" Straight, 3/4" Shaft                    | 197              | 140               | 39               | 3600          | 5           | 2"                 |
| S-3320-P  | 3" Straight, 1 1/8" Shaft                  | 365              | 310               | 60               | 3600          | 10          | 3"                 |
| S-3325-P  | 3" Straight Truck Pump, 1 1/8" Shaft       | 463              | 430               | 99               | 4500          | 16.5        | 3"                 |
| SP-3240-P   | 2" Self-Priming, 3/4" Shaft                | 200              | 112               | 42               | 3600          | 5           | 2"                 |
| SP-3340-P   | 3" Self-Priming, 1 1/8" Shaft              | 340              | 265               | 64               | 3600          | 10          | 3"                 |
| SP-3345-P   | 3" Self-Priming Truck Pump 1 1/8"          | 340              | 265               | 64               | 3600          | 10          | 3"                 |
| <b>Pumps Coupled To Hydraulic Motors (includes hydraulic motor)</b> |  |                  |                   |                  |               |             |                    |
| S-3220-PH   | 2" Straight Hydraulic Drive                | 197              | 140               | 39               | 3600          | 10          | 2"                 |
| S-3325-PH   | 3" Straight Truck Pump Hydraulic Drive     | 365              | 310               | 60               | 3600          | 10          | 3"                 |
| SP-3240-PH  | 2" Self-Priming Hydraulic Drive            | 200              | 112               | 42               | 3600          | 5           | 2"                 |
| SP-3345-PH  | 3" Self-Priming Truck Pump Hydraulic Drive | 340              | 265               | 64               | 3600          | 10          | 3"                 |

\*Pump size given in inches refers to inlet and outlet sizes.

- Low-flow hydraulic motors are available on Hydraulic Truck Pumps Straight 3" (S-3325-PHL) and Self-priming 3" Hydraulic Truck Pump (SP-3345-PHL).

- Standard motors require 25 GPM for full pump flow and low-flow motors require 14 GPM.

## Miscellaneous Centrifugal Components and Kits

|            |  |
|------------|--|
| -FLG       | Flanges available on all centrifugal pumps; Add -FLG after part number.  |
| 116001-01  | Flange Adapters Ductile Iron, 2" NPT to 220 Series   |
| 116002-01  | Flange Adapters Ductile Iron, 3" NPT to 300 Series   |
| 116228-01  | Bulk quantity baseplates (20 Min. Qty.) for customer supplied SP-3320-BS and SP-3350-BS w/ 13 HP Honda, hardware not included. |
| 116230-91  | Baseplate Kits for customer supplied SP-3320-BS and SP-3350-BS with 13 HP Honda Engine, includes baseplate and hardware.       |
| 116251-01  | Bulk quantity baseplates (20 Min. Qty.) for 2" Straight and Self-Priming Pumps, hardware not included                          |
| 116252-91  | Baseplate Kits for 2" Straight and Self-Priming Pumps, includes baseplate and hardware.  |
| 102036-01A | <b>NEW</b> Optional Single Outlet Volute for SP-3340/SP-3350   |

# De-icing Capabilities

**IF YOU NEED A PUMP THAT'S PORTABLE, DURABLE, AND AFFORDABLE, OUR NEW LIGHTWEIGHT POLY-PUMP IS JUST WHAT YOU NEED.**

In addition to being an excellent choice for most agriculture and industrial uses, John Blue Polypropylene and Cast-Iron Centrifugal Transfer Pumps are an excellent choice for transferring liquid deicing product, to keep your surfaces free of ice and snow.

Specifically, our PSP-3240 pumps come fully-assembled from our factory, and are made entirely out of Polypropylene, FKM, Viton, and 316 Stainless Steel — they can handle even

the harshest liquid de-icing products on the market! Dry salt products can cause concrete damage and leave behind a dusty, messy residue, but liquid salt products can give faster results, work in lower temperatures, and dry to a fine consistency that simply blows away (less mess!). John Blue Poly-Centrifugal pumps are the most dependable and affordable choice for your de-icing applications.



## PUMPS FOR Irrigation Injection



John Blue irrigation injection pumps have a long and rich history in the fertigation industry. Whether using one of our robust “Large-Range” units or the proven and timeless E-Z Meter Injection Series you’re “guaranteed to do the job”.

All of our irrigation pumps have been designed with the end user in mind. The Large Range irrigation models use our proven piston pump technology and are simply the most robust, durable, and reliable injection pumps on the fertigation market today. The light weight, yet dependable E-Z Meter—with its easy to read setting system make them the perfect choice for moving your injection pump between pivots.

Whichever series you choose, you can be sure you are getting the industry leader, backed by a company with over 130 years of experience serving Agricultural Professionals.

# PUMPS FOR Irrigation Injection



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# Full Range Injection Units

 APPLICATION PUMPS  
AND ACCESSORIES

 CENTRIFUGAL  
PUMPS

 IRRIGATION  
INJECTION PUMPS

 DIAPHRAGM  
PUMPS

 ANHYDROUS  
AMMONIA

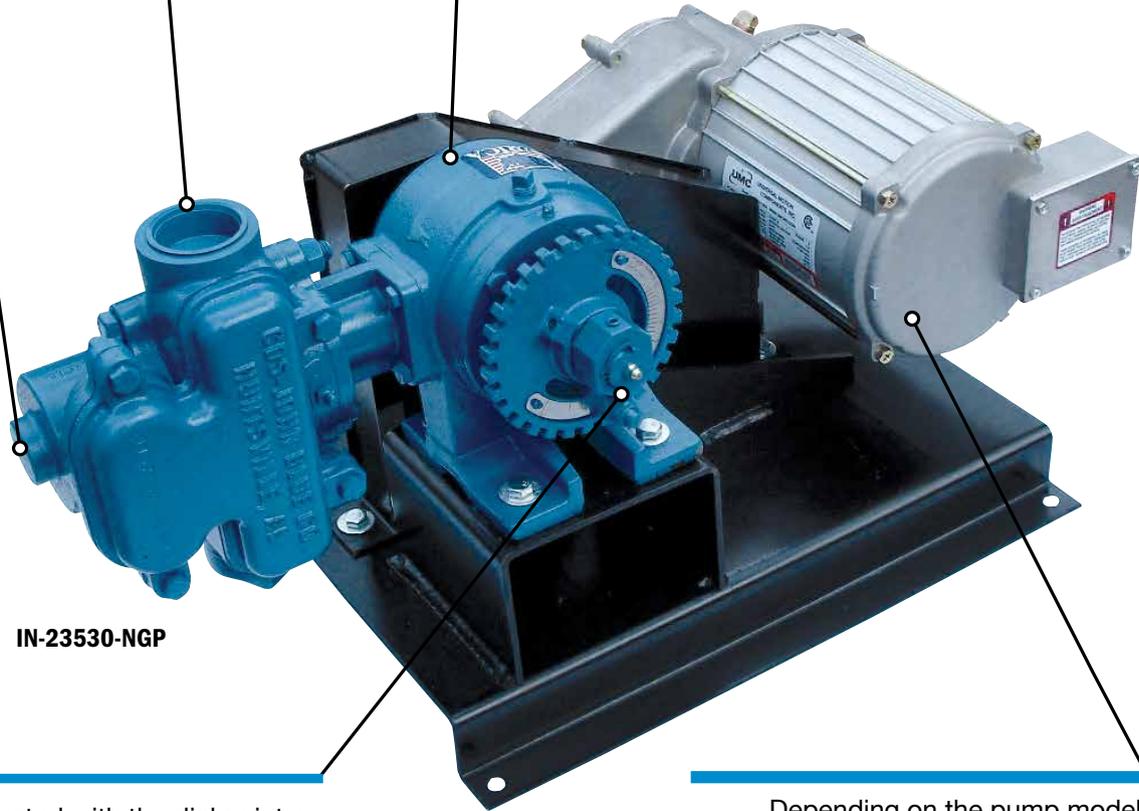
 SPECIALTY  
PUMPS

 MISC. ACCESSORIES  
AND SERVICE KITS

Pump models have a range of application from 1.6 to 114 GPH or all the way up to 6 to 470 GPH.

All internal wetted parts are constructed with corrosion resistant stainless steel to ensure optimum performance over many years of service.

All working parts are totally enclosed for maintenance free service.



**IN-23530-NGP**

Rates are easily adjusted with the dial pointer located on the side of the pump, which changes the length of the stroke.

Depending on the pump model, units are available with ¾ or 1 ½ HP motor and gearbox.

## Piston Pump Injection Pumps

| Model Number | Phase  | Model Type | Low Range GPH | High Range GPH | Max PSI | Motor Size | GPH Range |
|--------------|--------|------------|---------------|----------------|---------|------------|-----------|
| IN-11610-NGP | Single | Simplex    | 2.6-26.2      | 5.9-59         | 120     | 1 ½        | 2.6-117   |
|              |        | Duplex     | 5.2-52.4      | 11.7-117.4     | 120     | 1 ½        |           |
| IN-11630-NGP | Three  | Simplex    | 1.6-15.5      | 5.7-57         | 120     | ¾          | 1.6-114   |
|              |        | Duplex     | 3.1-31        | 11.4-114       | 120     | ¾          |           |
| IN-23510-NGP | Single | Simplex    | 5.5-55        | 12-122         | 120     | 1 ½        | 5.5-242   |
|              |        | Duplex     | 11-108        | 24-242         | 120     | 1 ½        |           |
| IN-23530-NGP | Three  | Simplex    | 3-32          | 12-119         | 120     | ¾          | 3-235     |
|              |        | Duplex     | 6-64          | 24-235         | 120     | ¾          |           |
| IN-47010-NGP | Single | Simplex    | 8.2-81.9      | 18.4-183.8     | 120     | 1 ½        | 8.2-363   |
|              |        | Duplex     | 16.2-162      | 36.3-363       | 120     | 1 ½        |           |
| IN-47030-NGP | Three  | Simplex    | 6-64.8        | 24-238         | 120     | 1 ½        | 6-470     |
|              |        | Duplex     | 12-128        | 48-470.2       | 120     | 1 ½        |           |

\*316 stainless steel available on any IN-235 or IN-470 models. Add -S after the part number.

# E-Z Meter Injection Pumps

## FEATURES:

- Available in simplex and duplex models with numerous power sources.
- All parts exposed to agricultural products are made from 316 stainless steel, chemical resistant polypropylene and the highest quality seals available today.
- Accurate injection rates, maximum dependability and long-term reliability.



The upgraded seals are more forgiving when the pump is run dry between supply tank refills. The John Blue piston cup shape provides a positive seal without the need for future adjustments. Piston cups can be changed in the field with standard tools.

# E-Z Meter Injection Pumps



02633

## E-Z METER INJECTION PUMPS\*

Maximum Pressure 150 PSI

316 Stainless Steel Cylinder Models

| E-Z Meter Injection Pumps |          |            |                  |                    |                      |
|---------------------------|----------|------------|------------------|--------------------|----------------------|
| Power Source              | 5-30 GPH | 10-100 GPH | 5-30<br>5-30 GPH | 5-30<br>10-100 GPH | 10-100<br>10-100 GPH |
| 110-220 1ph               | 10620    | 11630      | 10622            | 10623              | 10633                |
| 220-440 3ph               | 20620    | 21630      | 20622            | 20623              | 20633                |
| Belt Drive                | 01620    | 01630      | 01622            | 01623              | 01633                |
| Honda Engine              | 02620    | 02630      | 02622            | 02623              | 02633                |
| 12V DC Motors             | 30620    | 30630      | 30622            | 30623              | 30633                |

\*-1 after the part number indicates pumps with Teflon™ cylinders, ideal for acid applications. For stainless steel check valves contact the factory.

| E-Z Meter Field Conversion Parts and Options |   |
|--|---|
| Model Number                                 | Description   |
| 50520  | Duplex Field Conversion 5-30 GPH E-Z Meter Pump   |
| 50530  | Duplex Field Conversion 10-100 GPH E-Z Meter Pump   |
| 115026-HS                                    | ¼" FNPT inlet x ¼" MNPT outlet (with tube) 316 SS Backflow Check Valve for Irrigation Line              |
| 115030                                       | ¼" MNPT inlet x ¼" FNPT outlet Backflow Check Valve for Irrigation Line                                 |
| CV-1310                                      | ¼" FNPT inlet x ½" MNPT outlet (with tube) Poly Check Valve for Irrigation Line                         |
| CV-1310-BL                                   | ¼" FNPT inlet x ½" MNPT outlet (with tube) Poly Check Valve for Irrigation Line with PVC bleeder valve. |

\*Pumps produced prior to 2005 can only be duplexed if originally supplied with a dual output shaft gearbox used on 10-100 units, gasoline or belt drive pumps.

### E-Z Meter Power Sources: 5-30, 10-100 and 10-200 GPH Pumps

#### 115/208-230V SINGLE PHASE, 60 HZ.

½ HP, 1725 RPM, 115/208-220V, FLA 8.8/4.4, 56C Frame, HZ 60 single phase, SFA 9.4/4.7, service factor, 1.15 ball bearings. (50 HZ motors available upon request).

#### 208-230/440V THREE PHASE, 60 HZ.

½ HP, 1725 RPM, 208-230/440V, FLA is 2.1-2.0/1.0, 56C Frame, HZ 60, three phase, SFA 2.5-2.4/1.2, service factor, 1.25 ball bearings. (50 HZ motors available upon request).

#### HONDA GASOLINE ENGINE DRIVEN (GED)

4 cycle, 7.2 CID with 4 HP at 3600 RPM, fuel capacity .66 US gallons.

#### 12 VOLT

½ HP, 1800 full load RPM, 12 Volts DC F.L. AMPS 40, 24 Volts DC 20 F.L. AMPS, Class F insulation, linear speed/torque, NEMA 56C frame, ball bearings. Manufacturer reserves the right to make changes to specifications.



E-Z Meter Pumps with the double ball, built-in check valves provide better performance by virtually eliminating air locking. Available in 316 stainless steel or Teflon™ cylinders.

# Injection Check Valves



CV-1310-BL



115026-HS



CV-1310

## INJECTION CHECK VALVE FEATURES

200 GPH maximum capacity continuous flow (duplex pump - 2 strokes per revolution)

100 GPH maximum capacity (simplex - 1 stroke per revolution)

More uniform distribution of products

Prevents backflow, siphoning and bleed through of product

Easy to install and maintain

All Viton® seals

316 stainless steel spring, ball and injection tube

10 PSI spring

- ◀ Bodies available in either polypropylene (CV-1310) or 316 stainless steel (115026-HS)
- ◀ CV-1310-BL - Polypropylene check valve with PVC bleeder valve



# AGRICULTURAL AND INDUSTRIAL Diaphragm Pumps



John Blue Diaphragm pumps are the industry leader for all your chemical spraying needs. Whether it's a turf or lawn pump, a pump for spraying trees and orchards, a pump for spraying chemical across many acres, or even a pump that can be used for starter fertilizer applications, John Blue has a diaphragm pump that is right for you.

Our unique poly pump line can handle low pH chemicals as well as many other corrosive items that other pumps simply can't. Our medium pressure pumps are perfect for the pest control or lawn and turf spraying applications. The John Blue high pressure, high volume diaphragm pumps are industry leaders when it comes to cleaning and sanitizing poultry and swine houses. No matter the spray application, John Blue has a diaphragm pump that will meet and exceed expectations.

APPLICATION PUMPS  
AND ACCESSORIES

CENTRIFUGAL  
PUMPS

IRRIGATION  
INJECTION PUMPS

DIAPHRAGM  
PUMPS

ANHYDROUS  
AMMONIA

SPECIALTY  
PUMPS

MISC. ACCESSORIES  
AND SERVICE KITS

# AGRICULTURAL AND INDUSTRIAL Diaphragm Pumps

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# Low Pressure Poly Pumps

## LOW PRESSURE POLY DIAPHRAGM PUMP FEATURES:

- All fluid end components are polypropylene and 316 stainless steel, offering amazing reliability and service for even the most aggressive chemicals including acid and highly corrosive products.
- John Blue self-lubricating cast iron piston sleeves provide a unique “oil-thrust-pad” design.
- Bronze connecting rods and diaphragms constructed from resistant elastomers provide economical and trouble free service.
- The heads are designed with a new patented technology that includes an aluminum die-cast core inside a polypropylene structure offering superior strength.
- Pre-deformed diaphragms in a specially formulated chemical resistant material, 316 stainless steel washer and diaphragm bolt offer strength and resistance to chemical attack.
- Pre-deformed diaphragm allows for reduced deflection and longer life.
- Two, three, four, five and six piston semi-hydraulic Diaphragm Pumps assure a smooth and quiet operation even with high volume flow.
- Reduced piston stroke decreases diaphragm deflection providing long life operation.
- Other benefits of Poly Pumps include low maintenance costs and interchangeability of heads, diaphragms and associated components across most of the Poly Pump line.
- Convenient visual oil-level indicator.
- Pumps can be run dry.
- Individual suction and pressure manifolds for smoother flow through the pump.

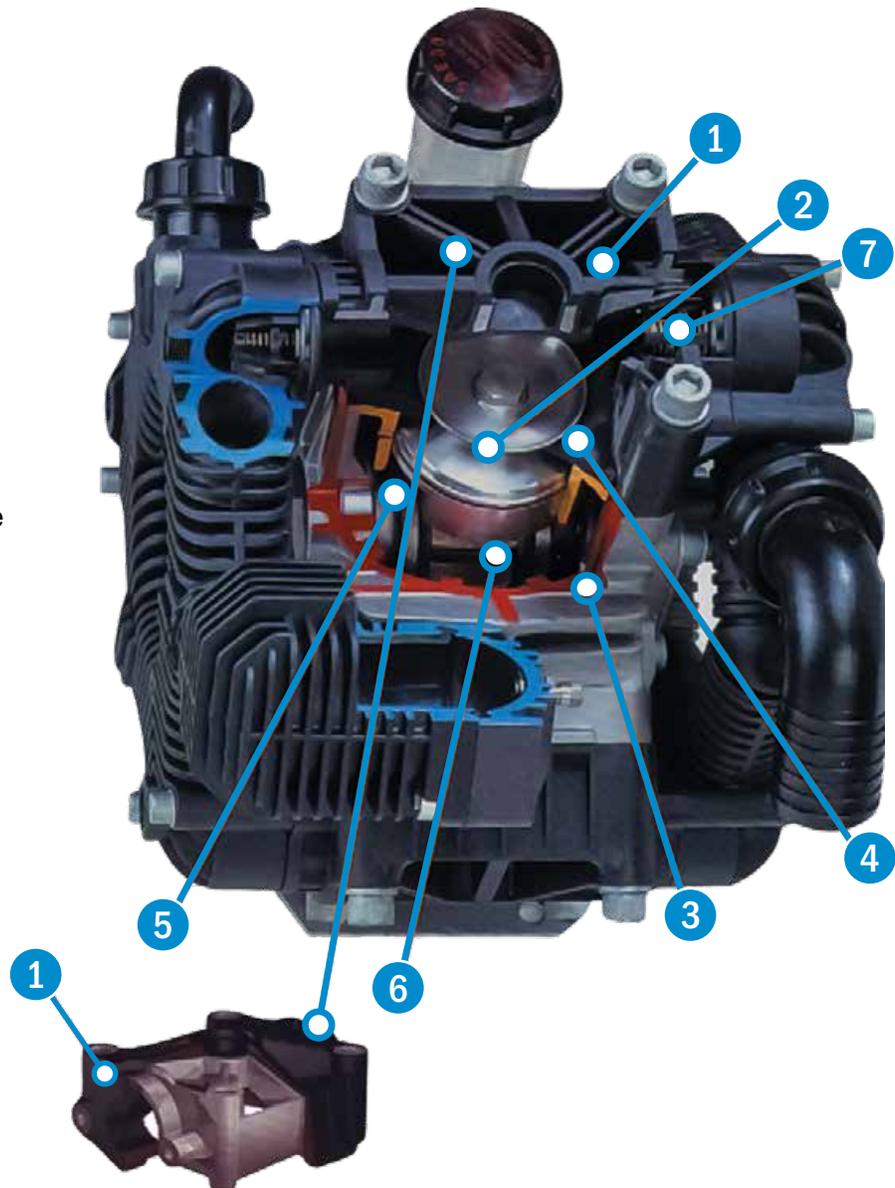


# Low Pressure Poly Pumps

## LOW-PRESSURE POLY DIAPHRAM PUMPS

### EXCLUSIVE, PATENTED TECHNOLOGY:

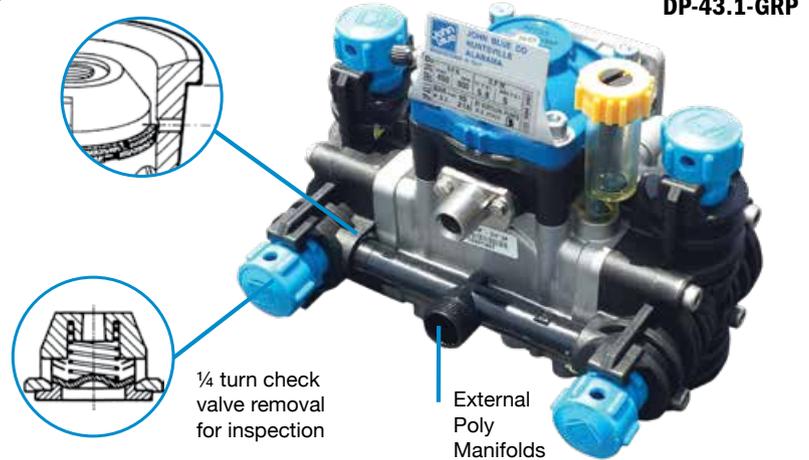
- Pumps come standard with internal pressure dampener.
  - Standard, interchangeable parts for reduced inventory and best service.
  - Full range: 2,3,4,5,6 diaphragms available.
1. The heads are designed with a patented technology that includes an aluminum die-cast core inside a polypropylene structure offering superior strength.
  2. Washers and diaphragm bolts in 316 stainless steel, an exclusive feature.
  3. Die cast crankcase incorporating a new cooling system.
  4. New chemically resistant diaphragm material pre-deformed to reduce the amount of deflection, increasing diaphragm life. The diaphragm material is compatible with most of the corrosive chemicals on the market today.
  5. A short crankshaft stroke means the longest life possible.
  6. New connecting rods in special bronze alloy offer economical and trouble free service.
  7. 316 stainless steel and polypropylene inlet and outlet check valves.



# Low Pressure Poly Pumps

## ADVANTAGES OF LOW PRESSURE POLY DIAPHRAGM PUMPS

- » Low Pressure Diaphragm Pumps operate to 4.3 GPM with pressure ratings to 290 PSI
- » Cast iron piston sleeves for longer wear
- » Convenient visual oil-level indicator
- » Stainless steel check valve design ensures perfect sealing performance due to its unique spherical shaped poppet and conical seat
- » Three bearings on the crankshaft
- » Pumps can be run dry



### DP-43-FP

|  |
|--|
| Maximum Flow: 4.3 GPM @ 550 RPM and 290 PSI          |
| Maximum Pressure: 290 PSI                            |
| Maximum Speed: 650 RPM                               |
| Maximum Power: 1.0 HP @ 550 RPM and 290 PSI          |
| Weight: 13 lbs                                       |
| Diaphragms: 2  |
| Suction Hose Diameter: 3/4" Hose                     |
| Discharge Hose Diameter: 1/2" NPT                    |
| Max Temperature: 140°F                               |
| Lubricating Oil Type: 30 SAE                         |
| Can be PTO, gasoline engine or electric motor driven |

#### Recommended Accessories:

- Pressure Regulator: SC-1066-2.
- Gearbox for 3.5 and 5 HP engines: DP-321009.
- Pump equipped with crankshaft flange, must order shaft separately: DP-318793 (3/4") solid shaft or DP-318590 (1") solid shaft.

#### Optional Accessories:

|                    |                               |
|--------------------|-------------------------------|
| <b>DP-310088</b>   | Female 1 3/8" shaft kit       |
| <b>DP-310049</b>   | Male 1 3/8" shaft kit         |
| <b>DP-31874897</b> | Hydraulic adaptor kit SAE "B" |

#### DP-43 Performance - RPM

| Pressure | 500  |     | 550  |      | 600  |      | 650  |      |
|----------|------|-----|------|------|------|------|------|------|
|          | GPM  | HP  | GPM  | HP   | GPM  | HP   | GPM  | HP   |
| 29       | 4.38 | .09 | 4.8  | 0.10 | 5.28 | 1.1  | 5.73 | 0.13 |
| 145      | 4.0  | .48 | 4.38 | 0.52 | 4.78 | 0.57 | 5.1  | 0.60 |
| 218      | 3.96 | .71 | 4.3  | 0.78 | 4.73 | 0.85 | 5.07 | 0.90 |
| 290      | 3.93 | .94 | 4.3  | 1.0  | 4.7  | 1.13 | 5.0  | 1.2  |

#### Optional Models:

**DP- 43.1-GRIP**

**DP-43.1-GRIP2.2**

**DP-43-P**

**DP-43.1-GRP**

#### All Available in Poly

Poly Pump includes gearbox for 3.5 and 5 HP engines and regulator with (2) outlets and shut-off valve.

Poly Pump includes gearbox for 2.2 HP Honda engine with and regulator with (2) outlets and shut-off valve.

Mini Poly Pump - total chemical resistance to harsh chemicals and fertilizers. Has 3/4" solid shaft.

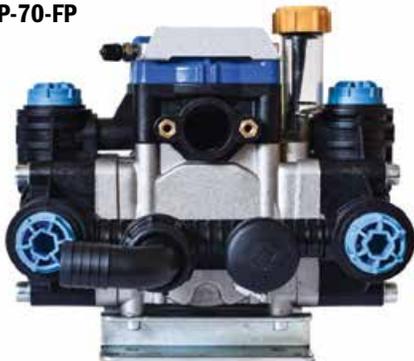
Mini Poly Pump includes gearbox for 3.5 and 5 HP engines, does not include a regulator. Poly Pump guarantees total chemical resistance to harsh chemicals and fertilizers.



Mini Poly Pumps have total chemical resistance to harsh chemicals and fertilizers.

# Low Pressure Poly Pumps

DP-70-FP



## DP-70-FP

Maximum Flow: 6.0 GPM @ 550 RPM and 290 PSI

Maximum Pressure: 290 PSI

Maximum Speed: 650 RPM

Maximum Power: 1.4 HP @ 550 RPM and 290 PSI

Weight: 13 lbs

Diaphragms: 2

Suction Hose Diameter: 1" hose

Discharge Hose Diameter: 3/4" npt

Max Temperature: 140° F

Lubricating Oil Type: 30 SAE

Can be PTO, gasoline engine or electric motor driven

### Recommended Accessories:

- Pressure Regulator: SC-1132-2.
- Gearbox for 5 HP engines: DP-321009.
- DP-318793 (3/4") or DP-318590 (1") solid shaft.



SC-1132-2

### Optional Accessories:

- DP-310088** Female 1 3/8" shaft kit
- DP-310049** Male 1 3/8" shaft kit
- DP-31874897** Hydraulic adaptor kit SAE "B"
- DP-94994297** Repair Kit
- DP-94994497** Valve Kit

### Optional Models:

#### All Available in Poly

- DP- 70.1-GRIP** Poly Pump includes gearbox for 3.5 and 5 HP engines and regulator with (2) outlets and shut-off valve.
- DP-70-P** Total chemical resistance to harsh chemicals and fertilizers. Has 3/4" solid shaft.
- DP-70.1-GRP** Poly Pump includes gearbox for 3.5 and 5 HP engines, does not include a regulator.

DP-70.1-GRP



### DP-70 Performance - RPM

| Pressure | 500 |     | 550 |     | 600 |     | 650 |     |
|----------|-----|-----|-----|-----|-----|-----|-----|-----|
|          | GPM | HP  | GPM | HP  | GPM | HP  | GPM | HP  |
| 29       | 6.3 | 0.1 | 6.9 | 0.2 | 7.6 | 0.2 | 8.2 | 0.2 |
| 145      | 5.9 | 0.7 | 6.5 | 0.7 | 7.1 | 0.8 | 7.7 | 0.9 |
| 218      | 5.7 | 1.0 | 6.3 | 1.1 | 6.8 | 1.2 | 7.4 | 1.2 |
| 290      | 5.5 | 1.2 | 6.0 | 1.4 | 6.6 | 1.5 | 7.1 | 1.6 |

# Low Pressure Poly Pumps



## DP-193-PP

Maximum Flow: 19.8 GPM  
 Maximum Pressure: 218 PSI  
 Maximum Speed: 550 RPM  
 Maximum Power: 2.8 HP  
 Diaphragms: 3  
 Negative Pressure – Max: 4.9 ft.,  
 Intermittent: 9.8 ft.

Weight: 25 lbs.  
 Suction Hose Diameter: 1 1/2" Hose  
 Discharge Hose Diameter: 1" NPT  
 Max Temperature: 140°F  
 Lubricating Oil Type: 30 SAE  
 Drive Shaft: 1" diameter (one side only)

### Optional Models:

### All Available in Poly

#### DP-193-GRP

Includes gearbox for 3.5 and 5 HP engines

#### DP-193-GRIP

Includes gearbox for 3.5 and 5 HP engines and SC-2420-3 regulator.

### Recommended Accessories:

- Control Units: SC-2420-3, SC-2660-3
- Gearbox for 5 HP gasoline engine with 3/4" shaft: DP-321003
- Hydraulic Adapter (SAE "B"): DP-31874997
- Hydraulic Adapter (SAE "A"): DP-31922897

| DP-193-PP Performance - RPM |      |     |      |     |      |     |      |     |
|-----------------------------|------|-----|------|-----|------|-----|------|-----|
| Pressure                    | 400  |     | 450  |     | 500  |     | 550  |     |
|                             | GPM  | HP  | GPM  | HP  | GPM  | HP  | GPM  | HP  |
| 29                          | 14.4 | 0.3 | 16.2 | 0.3 | 18.0 | 0.4 | 19.8 | 0.4 |
| 73                          | 14.2 | 2.7 | 16.0 | 0.8 | 17.8 | 0.9 | 19.6 | 1.0 |
| 145                         | 13.8 | 1.4 | 15.6 | 1.5 | 17.3 | 1.7 | 19.0 | 1.9 |
| 218                         | 13.5 | 2.0 | 15.1 | 2.3 | 16.8 | 2.5 | 18.5 | 2.8 |



## DP-282-P

Maximum Flow: 28.2 GPM  
 Maximum Pressure: 218 PSI  
 Maximum Speed: 550 RPM  
 Maximum Power: 4.1 HP  
 Diaphragms: 3  
 Negative Pressure – Max: 4.9 ft.,  
 Intermittent: 9.8 ft.

Weight: 42 lbs.  
 Suction Hose Diameter: 1 1/2" Hose  
 Discharge Hose Diameter: 1" NPT  
 Max Temperature: 140°F  
 Lubricating Oil Type: 30 SAE  
 Through input shaft: 1" diameter one end,  
 1 3/8" 6-spline opposite end.

### Recommended Accessories:

- Control Units: SC-2420-3, SC-2660-3
- Gearbox for 5 HP gasoline engine with 3/4" shaft: DP-321003 must use DP-31155907 spacer and (4) bolts DP-86357500.
- Hydraulic Adapter (SAE "B"): DP-31874997 must use (1) DP-31155907 spacer and (4) bolts DP-86357500.

| DP-282-P Performance - RPM |      |     |      |     |      |     |      |     |
|----------------------------|------|-----|------|-----|------|-----|------|-----|
| Pressure                   | 400  |     | 450  |     | 500  |     | 550  |     |
|                            | GPM  | HP  | GPM  | HP  | GPM  | HP  | GPM  | HP  |
| 29                         | 20.6 | 0.4 | 23.1 | 0.5 | 25.7 | 0.5 | 28.3 | 0.6 |
| 73                         | 20.4 | 1.0 | 22.9 | 1.1 | 25.5 | 1.3 | 28.0 | 1.4 |
| 145                        | 20.2 | 2.0 | 22.5 | 2.3 | 25.2 | 2.5 | 27.7 | 2.8 |
| 218                        | 20.0 | 3.0 | 15.1 | 3.3 | 25.0 | 3.7 | 27.5 | 4.1 |

# Low Pressure Poly Pumps



## DP-332-P

Maximum Flow: 33.3 GPM

Maximum Pressure: 218 PSI

Maximum Speed: 550 RPM

Maximum Power: 4.8 HP

Weight: 42 lbs.

Diaphragms: 3

Negative Pressure - Max: 4.9 ft.

Intermittent: 9.8 ft.

Suction Hose Diameter: 1 1/2" Hose

Discharge Hose Diameter: 1" NPT

Max Temperature: 140°F

Lubricating Oil Type: 30 SAE

Through input shaft: 1" diameter one end,  
1 3/8" 6-spline opposite end.

### Recommended Accessories:

- Control Units: SC-2420-3, SC-2660-3
- Gearbox for 5 HP gasoline engine with 3/4" shaft: DP-321003 and requires the DP-31155907 spacer and (4) DP-86357500 bolts.
- Hydraulic Adapter (SAE "B"): DP-31874997 must use (1) DP-31155907 spacer and (4) bolts DP-86357500.

### DP-332-P Performance - RPM

| Pressure | 400  |     | 450  |     | 500  |     | 550  |     |
|----------|------|-----|------|-----|------|-----|------|-----|
|          | GPM  | HP  | GPM  | HP  | GPM  | HP  | GPM  | HP  |
| 29       | 24.2 | 0.5 | 27.2 | 0.5 | 30.3 | 0.6 | 33.3 | 0.7 |
| 73       | 24.0 | 1.2 | 27.0 | 1.3 | 30.0 | 1.5 | 33.0 | 1.6 |
| 145      | 23.8 | 2.4 | 26.8 | 2.7 | 29.8 | 3.0 | 32.8 | 3.3 |
| 218      | 23.4 | 3.5 | 26.4 | 3.9 | 29.3 | 4.4 | 32.2 | 4.8 |



## DP-448-P

Maximum Flow: 44.9 GPM

Maximum Pressure: 218 PSI

Maximum Speed: 550 RPM

Maximum Power: 6.5 HP

Weight: 58 lbs.

Diaphragms: 4

Negative Pressure - Max: 4.9 ft.

Intermittent: 9.8 ft.

Suction Hose Diameter: 2" Hose

Discharge Hose Diameter: 1" NPT

Max Temperature: 140°F

Lubricating Oil Type: 30 SAE

Through shaft: 1 3/8" 6-spline both ends

### DP-448-P Performance - RPM

| Pressure | 400  |     | 450  |     | 500  |     | 550  |     |
|----------|------|-----|------|-----|------|-----|------|-----|
|          | GPM  | HP  | GPM  | HP  | GPM  | HP  | GPM  | HP  |
| 29       | 32.7 | 0.6 | 36.7 | 0.7 | 40.8 | 0.8 | 44.9 | 0.9 |
| 73       | 32.5 | 1.6 | 36.5 | 1.8 | 40.6 | 2.0 | 44.6 | 2.2 |
| 145      | 32.1 | 3.2 | 36.1 | 3.6 | 40.1 | 4.0 | 44.1 | 4.4 |
| 218      | 31.7 | 4.7 | 35.7 | 5.3 | 39.6 | 5.9 | 43.6 | 6.5 |

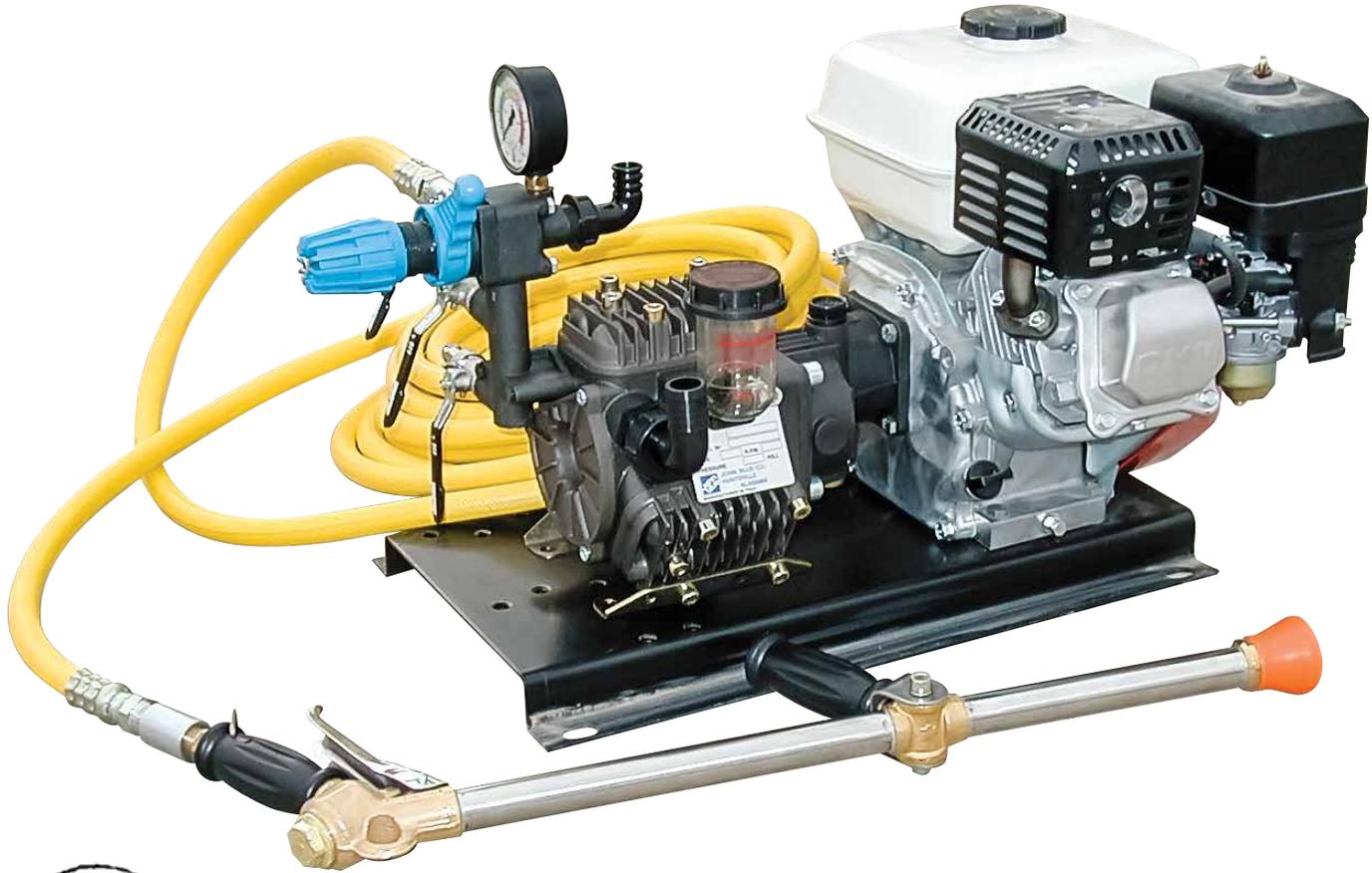
### Recommended control unit:

- SC-2660-3



# Medium Pressure

## MEDIUM PRESSURE DIAPHRAGM PUMP FEATURES:

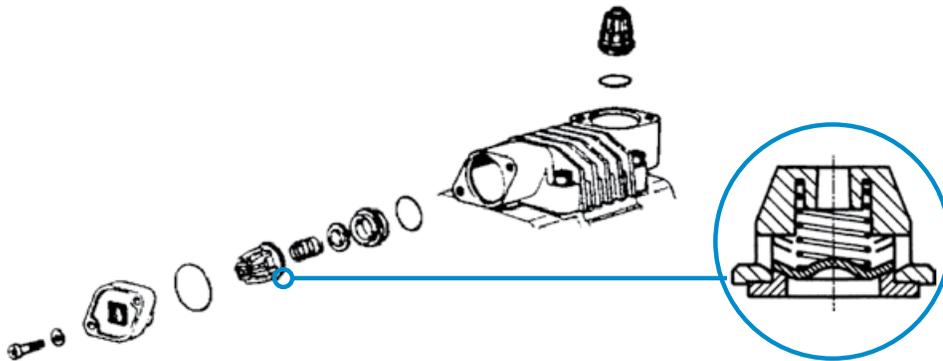


Each piston has two piston rings for improved piston seal to keep a film of oil between the piston and diaphragm.

**BENEFITS:**

- Ball bearings on the crankshaft for increased life.
- Features a uniquely shaped piston to reduce wear against the diaphragm.

- Medium Pressure Diaphragm Pumps perform from 7.4 to 18.5 GPM with pressure ratings from 0 to 580 PSI.
- The pump's design delivers high volumetric efficiencies and more pumping capacity.
- Three-piston semi-hydraulic diaphragm pumps ensure a smoother, quieter operation.
- Convenient visual oil-level indicator.
- Pumps can be run dry.



Exclusive stainless steel check valve design ensures perfect sealing performance due to its unique spherical shaped poppet and conical seat.

# Medium Pressure



## DP-74.1

Maximum Flow: 7.4 GPM  
Maximum Pressure: 580 PSI  
Maximum Speed: 550 RPM  
Maximum Power: 2.5 HP  
Weight: 16 lbs.  
Diaphragms: 3

Suction Hose Diameter: 1" Hose  
Discharge Hose Diameter: ½" NPT  
Max Temperature: 140°F  
Lubricating Oil Type: 30 SAE  
Can be PTO mounted, gasoline engine,  
hydraulic motor or electric motor driven

### Optional Models:

**DP-74.1-GRI** Includes gearbox for 3.5 and 5 HP engines and SC-1132-2 regulator.

### Recommended Accessories:

- Pressure regulator: SC-1132-2 or SC-1240-3.
- Gearbox for 3.5 and 5 HP engines: DP-321009.
- Pump equipped with crankshaft flange, must order shaft separately: DP-318793 (¾") solid shaft or DP-318590 (1") solid shaft.

### Optional Accessories:

**DP-318343** Female 1 3/8" shaft kit  
**DP-310049** Male 1 3/8" shaft kit  
**DP-31874897** Hydraulic adaptor kit SAE "B"

| DP-74.1 Performance - RPM |      |      |      |      |      |      |      |      |
|---------------------------|------|------|------|------|------|------|------|------|
| Pressure                  | 500  |      | 550  |      | 600  |      | 650  |      |
|                           | GPM  | HP   | GPM  | HP   | GPM  | HP   | GPM  | HP   |
| 29                        | 6.70 | 0.14 | 7.40 | 0.16 | 8.00 | 0.17 | 8.70 | 0.18 |
| 145                       | 6.50 | 0.70 | 7.10 | 0.77 | 7.66 | 0.80 | 8.20 | 0.88 |
| 290                       | 6.30 | 1.37 | 7.00 | 1.5  | 7.50 | 1.60 | 8.10 | 1.75 |
| 580                       | 6.20 | 2.0  | 6.90 | 2.2  | 7.40 | 2.4  | 7.90 | 2.5  |

## DP-90.1

Maximum Flow: 9 GPM @ 550 RPM,  
10.6 GPM @ 650 RPM  
Maximum Pressure: 580 PSI  
Maximum Speed: 650 RPM  
Maximum Power: 4.0 HP  
Weight: 17 lbs.  
Diaphragms: 3

Suction Hose Diameter: 1" Hose  
Discharge Hose Diameter: ½" NPT  
Max Temperature: 140°F  
Lubricating Oil Type: 30 SAE  
Can be PTO mounted, gasoline engine,  
hydraulic motor or electric motor driven.

### Optional Models:

**DP-90.1-GRI** Includes gearbox for 3.5 and 5 HP engines and SC-1132-2 regulator.



### Recommended Accessories:

- Pressure regulator: SC-1132-2 or SC-1240-3.
- Gearbox for 3.5 and 5 HP engines: DP-321009.
- Pump equipped with crankshaft flange, must order shaft separately: DP-318793 (¾") solid shaft or DP-318590 (1") solid shaft.

### Optional Accessories:

**DP-318343** Female 1 3/8" shaft kit  
**DP-310049** Male 1 3/8" shaft kit  
**DP-31874897** Hydraulic adaptor kit SAE "B"

| DP-90.1 Performance - RPM |     |      |     |      |     |      |      |      |
|---------------------------|-----|------|-----|------|-----|------|------|------|
| Pressure                  | 500 |      | 550 |      | 600 |      | 650  |      |
|                           | GPM | HP   | GPM | HP   | GPM | HP   | GPM  | HP   |
| 29                        | 8.2 | 0.12 | 9.0 | 0.14 | 9.8 | 0.15 | 10.6 | 0.15 |
| 290                       | 7.7 | 1.2  | 8.5 | 1.3  | 9.2 | 1.4  | 9.8  | 1.5  |
| 435                       | 7.5 | 1.7  | 8.3 | 1.9  | 9.1 | 2.1  | 9.6  | 2.2  |
| 580                       | 7.4 | 2.4  | 8.2 | 2.5  | 9.0 | 2.8  | 9.5  | 2.9  |

# Medium Pressure



## DP-139

Maximum Flow: 13.9 GPM @ 550  
and 145 PSI

Maximum Pressure: 580 PSI

Maximum Speed: 550 RPM

Maximum Power: 5.6 HP

Weight: 31 lbs.

Diaphragms: 3

Suction Hose Diameter: 1 ¼" Hose

Discharge Hose Diameter: ½" NPT

Max Temperature: 140°F

Lubricating Oil Type: 30 SAE

**Optional Models:**

**DP-139-GRI**

Includes gearbox to fit 3.5 and 5 HP engines and SC-1132-2 regulator

**Optional Accessories:**

**DP-31874897**

Hydraulic adaptor kit SAE "B"

| DP-139 Performance - RPM |       |      |       |      |       |      |       |      |
|--------------------------|-------|------|-------|------|-------|------|-------|------|
| Pressure                 | 400   |      | 450   |      | 500   |      | 550   |      |
|                          | GPM   | HP   | GPM   | HP   | GPM   | HP   | GPM   | HP   |
| 145                      | 10.04 | 1.05 | 11.30 | 1.19 | 12.55 | 1.32 | 13.90 | 1.46 |
| 290                      | 10.04 | 2.11 | 11.30 | 2.38 | 12.55 | 2.64 | 13.70 | 2.89 |
| 435                      | 9.93  | 3.13 | 11.17 | 3.53 | 12.40 | 3.92 | 13.60 | 4.30 |
| 580                      | 9.80  | 4.13 | 11.04 | 4.64 | 12.28 | 5.17 | 13.50 | 5.60 |

**Recommended Accessories:**

- Pressure regulator: SC-1241-2 or SC-1240-3.
- Gearbox for 3.5 and 5 HP engines: DP-321009 and DP-321006 for 8 and 11 HP engines.
- Pump has crankshaft flange on one side, 1 ⅜" spline shaft opposite side, must order solid shaft separately: DP-318793 (¾") solid shaft or DP-318590 (1") solid shaft.

## DP-185.1

Maximum Flow: 18.5 GPM @ 145 PSI

Maximum Pressure: 580 PSI

Maximum Speed: 550 RPM

Maximum Power: 7.4 HP

Weight: 33 lbs.

Diaphragms: 3

Suction Hose Diameter: 1 ¼" Hose

Discharge Hose Diameter: ¾" NPT

Max Temperature: 140°F

Lubricating Oil Type: 30 SAE

**Optional Models:**

**DP-185.1-GRI**

Includes gearbox to fit 8 and 11 HP engines and SC-1240-3 regulator

**Optional Accessories:**

**DP-31874897**

Hydraulic adaptor kit SAE "B"

| DP-185.1 Performance - RPM |       |     |       |      |       |     |       |     |
|----------------------------|-------|-----|-------|------|-------|-----|-------|-----|
| Pressure                   | 400   |     | 450   |      | 500   |     | 550   |     |
|                            | GPM   | HP  | GPM   | HP   | GPM   | HP  | GPM   | HP  |
| 145                        | 13.79 | 1.4 | 15.30 | 1.6  | 16.90 | 1.7 | 18.50 | 1.9 |
| 290                        | 13.47 | 2.8 | 15.00 | 3.16 | 16.60 | 3.5 | 18.20 | 3.8 |
| 435                        | 13.20 | 4.1 | 14.80 | 4.6  | 16.40 | 5.1 | 17.90 | 5.6 |
| 580                        | 12.90 | 5.4 | 14.50 | 6.1  | 16.10 | 6.7 | 17.70 | 7.4 |



**Recommended Accessories:**

- Pressure regulator: SC-1240-3.
- Gearbox DP-321006 for 8 and 11 HP engines.
- Pump has crankshaft flange on one side, 1 3/8" spline shaft opposite side, must order solid shaft separately: DP-318793 (¾") solid shaft or DP-318590 (1") solid shaft.

# HIGH PRESSURE DIAPHRAGM PUMPS: Versatile and Reliable



APPLICATION PUMPS  
AND ACCESSORIES

CENTRIFUGAL  
PUMPS

IRRIGATION  
INJECTION PUMPS

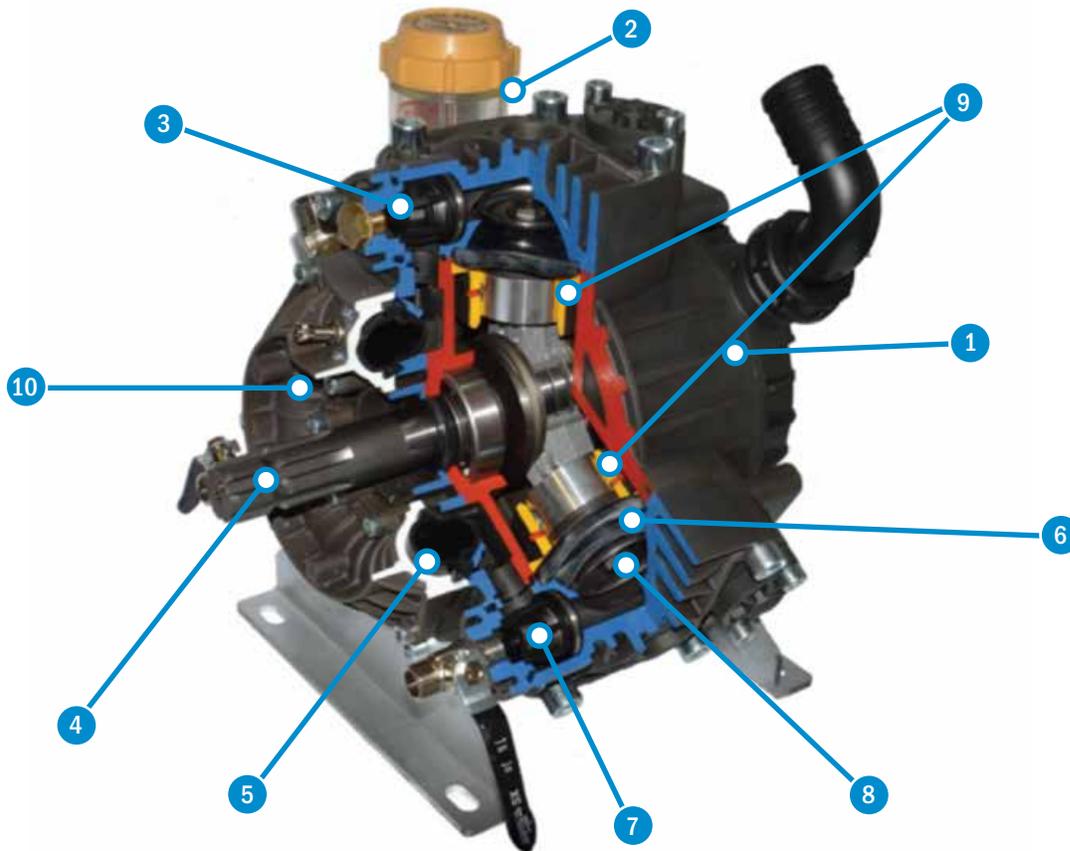
DIAPHRAGM  
PUMPS

ANHYDROUS  
AMMONIA

SPECIALTY  
PUMPS

MISC. ACCESSORIES  
AND SERVICE KITS

## HIGH PRESSURE DIAPHRAGM PUMP FEATURES



1. Oversized, separate suction and pressure circuits create a smooth flow of the liquid product with no pressure loss.
2. Convenient visual oil tank fitted with matched diaphragm to ensure correct oil level.
3. Check valves can be serviced easily, minimum maintenance.
4. Crankshaft stroke reduced, which increases diaphragm life because diaphragms are not stressed.
5. Unique pulsation damper system provides dampening on 32 circuits instead of one, which reduces vibrations and allows for smoother operation.
6. Four diaphragm material options are available, contact factory.
7. Special check valve design: unique spherical shaped poppet and conical seat made of 316 stainless steel, delivering high volumetric efficiencies.
8. Pre-set diaphragm bolt and diaphragm washer are made from 316 stainless steel. This exclusive feature ensures chemical resistance and longer life of the pump.
9. Two piston rings for each piston, this exclusive design increases diaphragm efficiency.
10. Parts in contact with chemical products are constructed with die-cast aluminum, covered with special corrosion proof treatment.



## DP-291.1 (REPLACES DP-291)

Maximum Flow: 29.1 GPM @ 29 PSI  
 Maximum Pressure: 725 PSI  
 Maximum Speed: 550 RPM  
 Maximum Power: 14  
 Weight: 56 lbs.  
 Diaphragms: 3

Suction Hose Diameter: 1 1/2" Hose  
 Discharge Hose Diameter: 3/4" NPT  
 Max Temperature: 140°F  
 Lubricating Oil Type: 30 SAE  
 Through shaft with 1 3/8" spline both ends.

### Recommended Accessories:

- Pressure regulator: SC-1480-3

### Optional Models:

**DP-291.1-GRI** Includes gearbox for 1" shaft engines and SC-1480-3 regulator

| DP-291.1 Performance - RPM |      |      |      |      |      |      |      |      |
|----------------------------|------|------|------|------|------|------|------|------|
| Pressure                   | 400  |      | 450  |      | 500  |      | 550  |      |
|                            | GPM  | HP   | GPM  | HP   | GPM  | HP   | GPM  | HP   |
| 29                         | 21.1 | 0.4  | 23.8 | 0.5  | 26.4 | 0.5  | 29.1 | 0.6  |
| 290                        | 20.9 | 4.1  | 23.5 | 4.7  | 26.1 | 5.2  | 28.7 | 5.7  |
| 580                        | 20.6 | 8.2  | 23.2 | 9.2  | 25.7 | 10.2 | 28.3 | 11.2 |
| 725                        | 20.4 | 10.1 | 22.9 | 11.4 | 25.5 | 12.6 | 28   | 13.9 |



## DP-407.2

Maximum Flow: 40.7 GPM  
 Maximum Pressure: 725 PSI  
 Maximum Speed: 550 RPM  
 Maximum Power: 20.1 HP  
 Weight: 79 lbs.  
 Diaphragms: 4

Suction Hose Diameter: 1 1/2" Hose  
 Discharge Hose Diameter: 3/4" NPT  
 Max Temperature: 140°F  
 Lubricating Oil Type: 30 SAE  
 Through shaft with 1 3/8" spline both ends.

### Recommended Accessories:

- Pressure regulators: SC-1480-3 and SC-1580-1

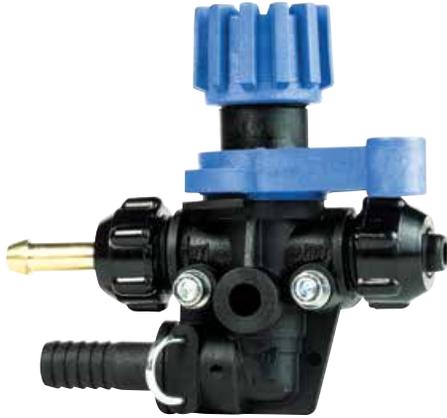
### Optional Models:

**DP-407.2-GRI** Includes gearbox for 1" shaft engines and SC-1580-1 regulator

**DP-407.2-VP** Has 35mm input shaft for use with DP-321054 gearbox reduction kit

| DP-407.2 Performance - RPM |      |      |      |      |      |      |      |      |
|----------------------------|------|------|------|------|------|------|------|------|
| Pressure                   | 400  |      | 450  |      | 500  |      | 550  |      |
|                            | GPM  | HP   | GPM  | HP   | GPM  | HP   | GPM  | HP   |
| 29                         | 29.6 | 0.6  | 33.3 | 0.7  | 37.0 | 0.7  | 40.7 | 0.8  |
| 290                        | 28.8 | 5.7  | 32.4 | 6.4  | 36.0 | 7.2  | 39.6 | 7.9  |
| 580                        | 28.4 | 11.3 | 32.0 | 12.7 | 35.5 | 14.1 | 39.1 | 15.5 |
| 725                        | 28.2 | 14.0 | 31.8 | 15.8 | 35.3 | 17.5 | 38.8 | 19.3 |

# Spray Control Valves



#### Recommended Accessories:

- DP-318784: Remote Mounting Kit

## SC-1066-2 SERIES

|                            |  |
|----------------------------|--|
| Flow Rate - 6.6 GPM        | By-Pass Hose Diameter - 1/2" Hose            |
| Maximum Pressure - 290 PSI | Discharge Pressure Hose Diameter - 3/8" Hose |
| Unit Weight - 4 lbs        |  |

The Pressure Regulator model SC-1066-2 can be mounted directly to DP-43 Series Low Pressure Diaphragm Pumps. The SC-1066-2 is designed to adjust to the liquid flow from the pump. Maximum operating pressure is 290 PSI. It is constructed from polypropylene for excellent corrosion resistance. The valve, with double seals improves liquid velocity. This manual regulator is equipped with a main shut off/bypass lever, it is fitted for a port for a pressure gauge (optional) and has 1/2" NPT inlet and (2) 3/8" outlet barbs.



#### Recommended Accessories:

- DP-318911: Remote Mounting Kit

## SC-1132-2 SERIES

|                            |  |
|----------------------------|--|
| Flow Rate - 13.2 GPM       | By-Pass Hose Diameter - 3/4" Hose            |
| Maximum Pressure - 600 PSI | Discharge Pressure Hose Diameter - 3/8" Hose |
| Unit Weight - 2 lbs        |  |

Pressure Regulator model SC-1132-2 can be fitted directly to the pump or remote mounted. Used with DP-70 Poly Series and DP-74.1 Series Medium pressure pumps. It is designed to provide gradual and smooth regulation of pressure up to 600 PSI. The body is manufactured from reinforced plastic material with extra large valve passages to minimize pressure loss. A diaphragm seals off operating parts from contact with chemicals, which provides vibration resistance. Modular regulation, the glycerine filled pressure gauge is included. The remote control kit (available separately) is equipped with an inlet threaded connector 1/2" gas, straight or 90° to fit hositails from 10 to 19 mm. The manual bypass shut off lever is included. Available with two adjustable discharge ball valves on/off 1/2" gas threads.



#### Recommended Accessories:

- DP-318785: Remote mounting kit, 1/2" NPT inlet
- DP-318786: Remote mounting kit, 3/4" NPT inlet
- DP-318788: Remote mounting kit, 1/2" NPT 90°
- DP-318921: Remote mounting kit, 3/4" NPT inlet

## SC-1240-3 SERIES

|                            |   |
|----------------------------|---|
| Flow Rate - 24.0 GPM       | Suction Hose Diameter - 3/4" NPT            |
| Maximum Pressure - 725 PSI | Discharge Pressure Hose Diameter - 1/2" NPT |
| Unit Weight - 5 lbs        |   |

The Pressure Regulator model SC-1240-3 can be mounted directly or remote mounted to pumps DP-74.1, DP-139, and DP-185.1. The SC-1240-3 is designed to provide gradual and smooth regulation of pressures up to 725 PSI. The inlet body is constructed of aluminum with extra large passages, which helps to keep to a minimum pressure loss. The Buna-N diaphragm prevents the operating parts from coming into contact with the chemicals being applied, improving vibration resistance. The SC-1240-3 is equipped with a complete quick by-pass lever, pressure gauge, 3/4" NPT inlet and (3) 1/2" outlets.



#### Recommended Accessories:

- DP-318911: Remote Mounting kit

## SC-1241-2 SERIES

|                            |  |
|----------------------------|--|
| Flow Rate - 24.0 GPM       | By-Pass Hose Diameter - 3/4" NPT             |
| Maximum Pressure - 580 PSI | Discharge Pressure Hose Diameter - 3/8" Hose |
| Unit Weight - 4 lbs        |  |

The Sting Pressure Regulator model SC-1241-2 can be mounted directly or remotely to DP-74.1, DP-90.1 and DP-139. The Sting valve has an ergonomic adjusting knob resulting in gradual and smooth regulation of pressures up to 580 PSI. The manual by-pass/shut off lever is designed to shut off pressure and for immediate start-up. The valve body is constructed of heavy-duty polyamide. The valve seat and poppet are made of ceramic that helps to ensure a long life, even with aggressive chemicals. The SC-1241-2 is equipped with a pressure gauge and (2) 3/8" hose barbs.

# Spray Control Valves



## SC-1480-3 SERIES

|                            |   |
|----------------------------|---|
| Flow Rate - 48.0 GPM       | Suction Hose Diameter - 3/4" NPT            |
| Maximum Pressure - 725 PSI | Discharge Pressure Hose Diameter - 1/2" NPT |
| Unit Weight - 5 lbs        |   |

Pressure Regulator model SC-1480-3 can be mounted directly to the DP-407.2 or DP-291-B or remote mounted to pumps with large flow rates up to 48 GPM. The SC-1480-3 is designed to provide gradual and smooth regulation of pressures up to 725 PSI. The inlet body is constructed of aluminum with extra large passages, which helps to keep to a minimum pressure loss and to handle large volumes. The SC-1480-3 is equipped with a complete quick by-pass lever, pressure gauge, 3/4" NPT inlet and (3) 1/2" hose barb outlets.

### Recommended Accessories:

- DP-318788: Remote mounting kit, 1/2" NPT 90°
- DP-318921: Remote mounting kit, 3/4" NPT inlet



## SC-1580-1 SERIES (REPLACES THE SC-1480-1)

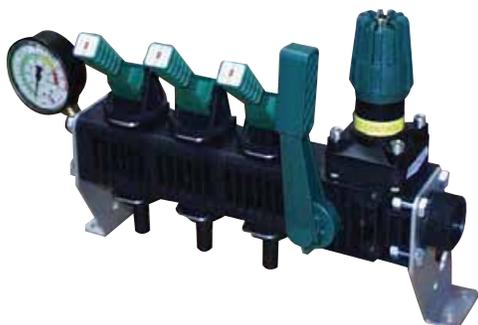
|                             |  |
|-----------------------------|--|
| Flow Rate - 58.0 GPM        | Suction Hose Diameter - 3/4" NPT             |
| Maximum Pressure - 1015 PSI | Discharge Pressure Hose Diameter - 3/4" Hose |
| Unit Weight - 5 lbs         |  |

The SC-1580-1 has a brass alloy body, parts in contact with spray materials are stainless steel and the poppet is ceramic, which offers a high resistance against chemical attack. The SC-1580-1 can be used with the DP-407.2.

## SC-2420-3 SERIES

|                            |   |
|----------------------------|---|
| Flow Rate - 42.0 GPM       | Suction Hose Diameter - 1" Hose             |
| Maximum Pressure - 290 PSI | Discharge Pressure Hose Diameter - 3/4" NPT |
| Unit Weight - 8 lbs        |   |

The remote control poly spray valve model SC-2420-3 is recommended for all pumps with flow rates less than 40 GPM (see pressure restrictions). The SC-2420-3 includes (3) 3/4" outlets with individual shut-off and a ball valve main shut-off. A pressure relief valve is included. Three outlets come standard on the SC-2420-3, extra modular outlets are available separately through seven sections.



# Spray Control Valves



- » Volumetric Control
- » Exclusive Anti-Drip Feature

## SC-2660-3 SERIES

Flow Rate - 66.0 GPM

Suction Hose Diameter - 1" Hose

Maximum Pressure - 145 PSI

Discharge Pressure Hose Diameter - 1/2" NPT

Unit Weight - 18 lbs

The SC-2660-3 is a poly remote control valve with a **volumetric control**, which maintains the spray rate per acre at varying ground speeds when using a ground speed controlled positive displacement pump. The volume per acre is constant; pressure will vary as ground speed varies.

Each boom section has a metered bypass system to allow an individual boom section to be closed without adjusting the **volumetric control valve**. This control valve has a ball valve main shut-off, which provides a positive shut-off. The SC-2660-3 control valve has an **exclusive anti-drip** system that prevents the nozzles from dripping when the main shut-off is closed. There is no need for nozzle check valves.

## SPRAY GUNS

The SC-0400 spray gun has two possible spray adjustments. By operating the handle it controls the spray angle from cone spray to a straight stream.



The SC-1300 is a stainless steel washing spray gun.



# Miscellaneous Kits

## Miscellaneous Kits

| Model Number | Description  |
|--------------|--|
| DP-318911    | Remote Mount Kit for SC-1132-2, ½" NPT Inlet   |
| DP-318784    | Remote Mount Kit for SC-1066-2   |
| DP-318785    | Remote Mount Kit for SC-1240-3, ½" NPT inlet   |
| DP-318786    | Remote Mount Kit for SC-1240-3 and SC-1480-3, ¾" NPT inlet   |
| DP-318788    | Remote Mount Kit for SC-1240-3, 90°, ½" NPT inlet  |
| DP-318921    | Remote Mount Kit for SC-1240-3 and SC-1480-3, 90°, ¾" 80NPT inlet  |
| DP-321003    | Gearbox for DP-193-PP and DP-280-PP, use with 1" pump shaft and ¾" engine shaft. Must use (1) DP-31155907 spacer and (4) DP-86357500 bolts when using DP-282-P and DP-332-P. |
| DP-321006    | 6:1 Gearbox Reduction Kit for DP-139, DP-185.1, fits 8 and 11 HP gasoline engines  |
| DP-321009    | 6:1 Gearbox Reduction Kit for DP-43, DP-70, DP-74.1, DP-139, and DP-185.1, fits 3.5 and 5 HP gasoline engines  |
| DP-321054    | 6:1 Gearbox reduction kit for DP-407.2-VP, fits 20+ HP engines with 1" shaft   |
| DP-318343    | 1 3/8" Female Shaft Kit for DP-43-FP, DP-74.1, and DP-124  |
| DP-310049    | 1 3/8" Male PTO Shaft Kit for DP-74.1 and DP-124   |
| DP-318793    | ¾" Solid Shaft Kit for DP-43, DP-70, and DP-74.1   |
| DP-318590    | 1" Solid Shaft Kit   |
| DP-31874897  | Hydraulic Adapter for DP-43, DP-70, DP-74.1, DP-124, and DP-139  |
| DP-31874997  | SAE "B" Hydraulic Adapter for DP-280-1, DP-280-PP, DP-193-PP, DP-282-P, and DP-332-P   |
| DP-31922897  | <b>NEW</b> SAE "A" Hydraulic Adapter for DP-193-PP   |
| DP-318086    | PTO Kit for Diaphragm Pump   |

| Model Number   | Repair Kit   | Valve Kit    |
|--|--------------|--------------|
| DP-43.1-GRIP, DP-43.1-GRIP2.2, DP-43-FP, DP-43.1-GRP | DP-94991297  | DP-94991697  |
| DP-70-P, DP-70-FP, DP-70.1-GRIP, DP-70.1-GRP         | DP-94994297  | DP-94994497  |
| DP-193-PP, DP-193-GRP, DP-193-GRIP                   | DP-63988197  | DP-639872973 |
| DP-282-P, DP-332-P                                   | DP-62981097  | DP-62980597  |
| DP-448-P   | DP-28989397  | DP-28988597  |
| DP-555-P   | DP-55980997  | DP-55980397  |
| DP-687-P   | DP-14988997  | DP-14987697  |
| DP-74.1, DP-74.1-GRI                                 | DP-03987497  | DP-03987597  |
| DP-90.1, DP-90.1-GRI                                 | DP-03987497  | DP-03987597  |
| DP-139, DP-139-GRI                                   | DP-23989097  | DP-23989197  |
| DP-185.1, DP-185.1-GRI                               | DP-23989297  | DP-23989197  |
| DP-291.1, DP-291.1-GRI                               | DP-35988297A | DP-35987097  |
| DP-407.2, DP-407.2-GRI, DP-407.2-VP                  | DP-41990597A | DP-41987097  |
| DP-605.2-P   | DP-14989397  | DP-14987697  |
| DP-230.1   | DP-35988097  | DP-35987097  |

## Diaphragm Pump Conversion Kits for DP-43-GRP and DP-193-PP

| Model Number | Description   |
|--------------|---|
| 115559-91    | Electric Motor Conversion Kit for pumps with a gearbox. For use with DP-43.1-GRP, DP-43.1-GRP, DP-70-GRI, and DP-74.1-GRI only. |
| 116235-91    | *DP conversion kit with motor, 3450 RPM, 1 ph   |
| 116236-91    | *DP conversion kit with motor, 1725 RPM, 1 ph   |
| 116237-91    | *DP conversion kit with motor, 3450 RPM, 3 ph   |
| 116238-91    | *DP conversion kit with motor, 1725 RPM, 3 ph   |
| 116231-01    | Motor only, 1 HP, 3450 RPM, 1 ph  |
| 116232-01    | Motor only, 1 HP, 1725 RPM, 1 ph  |
| 116233-01    | Motor only, 1 HP, 3450 RPM, 3 ph  |
| 116234-01    | Motor only, 1 HP, 1725 RPM, 3 ph  |

## Optional Diaphragm Pump Adapters

| Model Number | Description   |
|--------------|---|
| 116447-91    | ¾" npt ss outlet adapter kit (fits all pumps that mention the SC-1132-2 & SC-1240-3 regulators) |
| 116444-01    | ¾"G. male to ¾" npt male adapter - Stainless Steel  |
| 116445-01    | ¾"G. male to male adapter - Stainless Steel   |
| 116446-01    | ¾"G. fem. coupling - Stainless Steel  |

\*Conversion kit includes motor (with ¾" shaft, 56C, TEFC, 60 HZ), flange adapter, 3/18-16 SHCS, 5/16-18 x 3/4 SHCS, 5/16 lock washer, 3/8 lock washer.



# Pumps for every application



## PRODUCTS FOR APPLYING & MONITORING Anhydrous Ammonia



The Impellicone® Anhydrous Ammonia Flow Dividers were researched by Iowa State University and collaboratively developed with and licensed to the John Blue Company. After extensive testing, field trials, and a lengthy approval process, John Blue is proud to offer this pioneering and patented technology in three models, the IP-0600 (6-port), the IP-1300 (13-port), and IP-1800 (18-port).

John Blue also offers precision Impellicone® “Splitters”, which should be used when 3 or more dividers are plumbed in parallel. The Impellicone® Splitters incorporate the same technology of the individual dividers which insures the liquid and gas are split evenly across all sections.

PRODUCTS FOR APPLYING & MONITORING

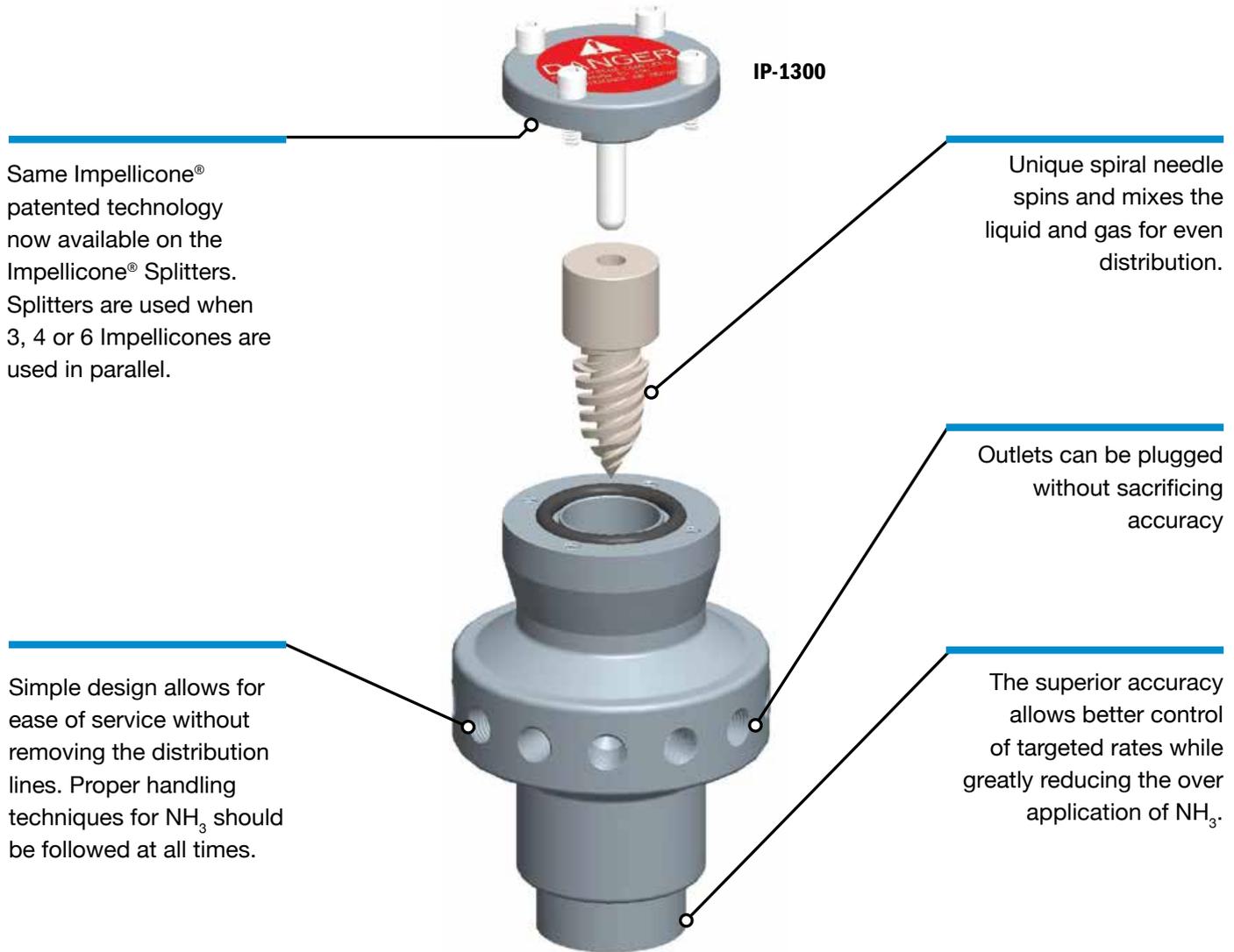
# Anhydrous Ammonia

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# Impellicone® Flow Divider

IMPELLICONE® DISTRIBUTES NH<sub>3</sub> TO MULTIPLE ROWS WHILE GREATLY REDUCING THE OVER APPLICATION OF NH<sub>3</sub>



Impellicone® Flow Dividers, Splitters, and Manifolds

| Part Number | Description                                 | Number of Outlets | Inlet Size | Outlet Size |
|-------------|---|-------------------|------------|-------------|
| IP-0600     | 6 Outlet NH <sub>3</sub> Flow Divider       | 6                 | 1" NPT     | ¼" NPT      |
| IP-1300     | 13 Outlet NH <sub>3</sub> Flow Divider      | 13                | 1" NPT     | ¼" NPT      |
| IP-1800     | 18 Outlet NH <sub>3</sub> Flow Divider      | 18                | 1" NPT     | ¼" NPT      |
| IPS2-4      | 4 Port Impellicone® Splitter                | 4                 | 1 ¼" FPT   | 1" NPT      |
| IPS2-6      | 6 Port Impellicone® Splitter                | 6                 | 1 ¼" FPT   | 1" NPT      |
| 113989      | Manifold Mount                              |                   |            |             |
| 113983      | Plain Manifold, Inlet Flow Diffuser, 304 SS | 12                | 1" FPT     | ¼" FPT      |

# NH<sub>3</sub> VisaGage II with LBMS

## FEATURES OF NH<sub>3</sub> VISAGAGE II WITH LIQUID BLOCKAGE MONITOR SYSTEM (LBMS)

- Monitor NH<sub>3</sub> or N-Serve flow rates from the tractor cab.
- The NH<sub>3</sub> VisaGage is manufactured from polymethylpentene (TPX®) chemical resistant bodies with UV protection, polypropylene balls and ball screen, Buna-N o-rings and aluminum manifolds.
- Maximum allowed pressure in the monitor is 100 PSI.
- NH<sub>3</sub> VisaGage available in 2 and 4 row units.
- Mount the NH<sub>3</sub> VisaGage to a sensor, which identifies where the magnetic balls are floating in each row during application.
- Shows low and no-flow, plus the premium wireless systems show high flow.
- Each row with a problem will be highlighted by a flashing LED light at the row. No need to remember or search for the blocked row when you come to a stop.
- See a visual display and hear an audible alarm on the control panel in the tractor cab when there is a problem row.
- Alarm will reset automatically when the blockage has been corrected.
- Correct problems immediately or pause to capture the row for investigation later.
- Our patented LBMS is available in five user-friendly options: standard wired control panel, iPad, Android or Amazon Kindle wireless system, and ISOBUS.



### NH<sub>3</sub> VisaGage with Liquid Blockage Monitor System (LBMS)

| Part Number  | Description   |
|--|---|
| SMFD2-NH <sub>3</sub>                                | 2 Row NH <sub>3</sub> VisaGage  |
| SMFD4-NH <sub>3</sub>                                | 4 Row NH <sub>3</sub> VisaGage  |
| BMi-08*  | Premium 8 Row Wireless Liquid Blockage Monitor System for NH <sub>3</sub> , includes ram mounting bracket, input harness, 28 ft. extension harness, wireless sensor kit, standard sensor kit and two terminator plugs.  |
| BM-08AP*   | Wired Standard Control Panel 8 Row Liquid Blockage Monitor System for NH <sub>3</sub> , includes control panel with mount bracket, input harness, 28 ft. extension harness, tee harness, two standard sensor kits and two terminator plugs.                                 |
| BM-08PL*   | Wired Standard Control Panel 8 Row Liquid Blockage Monitor System for NH <sub>3</sub> , includes control panel with mount bracket, input harness, 28 ft. extension harness, tee harness, two standard sensor kits, two terminator plugs and two 15 ft. extension harnesses. |
| BM-08ISO (Universal Kit) / BM-08ISO-JD (John Deere®) | ISOBUS 8 row Liquid Blockage Monitor System for NH <sub>3</sub> , includes main computer harness, job computer, tap harness (universal or brand specific), tee harness, two 15 ft. extension harnesses, two standard sensor kits and two terminator plugs.                  |

\* See pages 25-29 for more Liquid Blockage Monitor System details.

# NH<sub>3</sub> VisaGage II with LBMS

APPLICATION PUMPS  
AND ACCESSORIES

CENTRIFUGAL  
PUMPS

IRRIGATION  
INJECTION PUMPS

DIAPHRAGM  
PUMPS

ANHYDROUS  
AMMONIA

SPECIALTY  
PUMPS

MISC. ACCESSORIES  
AND SERVICE KITS



# Knives



**A-720C-4S**



**A-460 BC**



**R-481**

## A-SERIES STAINLESS STEEL TUBES ON HEAVY DUTY KNIVES

- Heat-treated after coating to assure strength and wearability.
- High carbon 1080 steel makes the knife strong and tough.
- Plain tube or 304 stainless steel tube.
- Available with extremely hard boride coating for long wear life.
- Largest toe section on any knife in the industry.

| NH <sub>3</sub> Liquid Blades |             |                 |                 |                                |        |                |
|-------------------------------|-------------|-----------------|-----------------|--------------------------------|--------|----------------|
| Part Number                   | Blade Type  | Number of Tubes | Tube Material   | Tube Size                      | Sealer | Boride Coating |
| A-460BC-3                     | Back Swept  | Single          | Stainless Steel | 3/8"                           | No     | Yes            |
| A-460BC-3S                    | Back Swept  | Single          | Stainless Steel | 3/8"                           | Yes    | Yes            |
| A-460BC-3SP                   | Back Swept  | Single          | Plain           | 3/8"                           | Yes    | Yes            |
| A-460BC-4                     | Back Swept  | Single          | Stainless Steel | 1/2"                           | No     | Yes            |
| A-460BC-4P                    | Back Swept  | Single          | Plain           | 1/2"                           | No     | Yes            |
| A-720-3                       | Front Swept | Single          | Stainless Steel | 3/8"                           | No     | Yes            |
| A-720-3P                      | Front Swept | Single          | Plain           | 3/8"                           | No     | No             |
| A-720-3S                      | Front Swept | Single          | Stainless Steel | 3/8"                           | Yes    | No             |
| A-720-3SP                     | Front Swept | Single          | Plain           | 3/8"                           | Yes    | No             |
| A-720-4                       | Front Swept | Single          | Stainless Steel | 1/2"                           | No     | No             |
| A-720-4P                      | Front Swept | Single          | Plain           | 1/2"                           | No     | No             |
| A-720-4S                      | Front Swept | Single          | Stainless Steel | 1/2"                           | Yes    | No             |
| A-720-4SP                     | Front Swept | Single          | Plain           | 1/2"                           | Yes    | No             |
| A-720C-3                      | Front Swept | Single          | Stainless Steel | 3/8"                           | No     | Yes            |
| A-720C-3P                     | Front Swept | Single          | Plain           | 3/8"                           | No     | Yes            |
| A-720C-3S                     | Front Swept | Single          | Stainless Steel | 3/8"                           | Yes    | Yes            |
| A-720C-3SP                    | Front Swept | Single          | Plain           | 3/8"                           | Yes    | Yes            |
| A-720C-4                      | Front Swept | Single          | Stainless Steel | 1/2"                           | No     | Yes            |
| A-720C-4P                     | Front Swept | Single          | Plain           | 1/2"                           | No     | Yes            |
| A-720C-4S                     | Front Swept | Single          | Stainless Steel | 1/2"                           | Yes    | Yes            |
| A-720C-4SP                    | Front Swept | Single          | Plain           | 1/2"                           | Yes    | Yes            |
| AD-720C                       | Front Swept | Dual            | Stainless Steel | (1) 3/8" front & (1) 1/2" rear | No     | Yes            |
| AD-720C-3                     | Front Swept | Dual            | Stainless Steel | 3/8"                           | No     | Yes            |
| AD-720C-4                     | Front Swept | Dual            | Stainless Steel | 1/2"                           | No     | Yes            |

## R-SERIES REPLACEMENT KNIVES:

- High strength ductile knife.
- Easy to replace (R-483) tube.
- Hard facing to protect the tube.
- Easy replacement - only one pin is needed to replace (R-482) toe, no cutting or welding is required.

| Replaceable Knife and Components |             |  |
|----------------------------------|-------------|--|
| Part Number                      | Blade Type  | Description  |
| R-481                            | Front Swept | Heavy Duty Blade - Super Ductile Iron With Replaceable Toe & Tube    |
| R-482                            | Front Swept | Replaceable Toe - Ductile Iron, Replacement for R-473 & R-481 Blades |
| R-483                            | Front Swept | Replaceable Tube - 1/8" Steel, Replacement for R-481 & R-484 Blades  |



# Specialty Pumps

BRASS GEAR PUMPS & FOAM MARKERS



John Blue Company carries many specialty pumps and foam markers that are “guaranteed to do the job”. Our brass gear pumps are perfect for feed mill applications where hard to handle, high viscous materials are employed. Simple in design, compact in size, but big on performance, our brass gear pumps will handle many of the products used today in the Agricultural Industry.

John Blue Foam Markers are perfect as either a primary or secondary guidance system. Our markers generate foam at the nozzle bodies leading to a longer lasting foam ball in the field. With multiple tank capacities, various plumbing configurations, and construction from premium materials, there is a John Blue Foam Marker right for any golf, turf, or agricultural spraying application.

The John Blue 12-Volt Pump is the most dependable metering piston pump, and is the only 12-Volt pump on the market today totally protected against weather, dust and overspray!

# Specialty Pumps

BRASS GEAR PUMPS & FOAM MARKERS

## SECTION CONTENTS

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| 12-Volt Speed Controllers .....    | 76    |

# Brass Gear Pump

APPLICATION PUMPS AND ACCESSORIES

CENTRIFUGAL PUMPS

IRRIGATION INJECTION PUMPS

DIAPHRAGM PUMPS

ANHYDROUS AMMONIA

SPECIALTY PUMPS

MISC. ACCESSORIES AND SERVICE KITS



## BRASS GEAR PUMP

This positive displacement brass gear pump with the shear pin design and stainless steel shaft is ideal for sprayer applications. The John Blue Brass Gear Pump maintains even pressure and is designed to be run at 540-600 RPM.

Shear Pin Design

Inlet - 1 1/4"

Solid Brass Pump Case

Outlet - 1 1/4"

Solid Brass Cover Plate

Maximum Pressure - 250 PSI

Maximum Capacity - 18 GPM

Maximum Speed - 600 RPM

### Brass Gear Pump

| Part Number | Description     |
|-------------|-----------------|
| 113778      | Brass Gear Pump |



# Foam Markers

## FOAM MARKERS

### FEATURES:

- Visually mark the edge of your sprayed area through deposits of foam balls.
- Avoid double coverage or lack of coverage during fertilizer or chemical applications.
- Easy to install and operate.
- Mixing water with foaming concentrate liquid in a 1.5 to 3 percent solution creates the foam.
- Foam is environmentally friendly.
- Foam is generated at the end of the boom, which eliminates the foam from breaking down in the boom and the waiting period for the foam to travel to end of the boom.
- All kits include 12-volt compressor, solution tank, control box and necessary parts for installation.

| Foam Markers |                       |               |           |                       |          |                    |          |                        |
|--------------|-----------------------|---------------|-----------|-----------------------|----------|--------------------|----------|------------------------|
| Part Number  | Applicator Sprayer    | Boom Size     | Tank Size | Refill Time (Approx.) |          | Output (Balls/min) |          | Foam Nozzles           |
|              |                       |               |           | Max Rate              | Min Rate | Max Rate           | Min Rate |                        |
| FM-150       | Ag Sprayer            | Up to 100 ft. | 15 gal    | 4 hrs                 | 7.5 hrs  | 23                 | 17       | 2 Horizontal Switching |
| FM-64        | Ag Sprayer            | Up to 65 ft.  | 6.4 gal   | 2 hrs                 | 2.5 hrs  | 31                 | 18       | 2 Vertical Switching   |
| FM-40        | Golf/Turf             | Up to 40 ft.  | 4 gal     | 2 hrs                 | 3 hrs    | 25                 | 18       | 2 Horizontal Switching |
| FM-40-1      | Golf/Turf             |               | 4 gal     | 2 hrs                 | 3 hrs    | 25                 | 18       | 2 Vertical Switching   |
| FM-10        | ATV Sprayer           | Up to 12 ft.  | 1 gal     | 1 hrs                 | 3 hrs    | 22                 | 12       | 2 Vertical Switching   |
| FM-10-WB     | Walk behind spreaders |               | 1 gal     | 1 hrs                 | 3 hrs    | 22                 | 12       | 1 Vertical             |

# Foam Marker Kits



## FM-150 INCLUDES:

Factory mounted compressor on the tank

118 ft. of liquid and air tubing

Air tube:  $\frac{5}{16}$ " diameter

Liquid tube:  $\frac{1}{4}$ " diameter

15 ft. of cable to connect the remote switch to the compressor

6 ft. of power cable to connect remote switch to power supply

### Optional Kits:

- Foam nozzle extension used to generate small foam stripes
- 150 ft. of air and liquid tubing for booms larger than 100 ft.



## FM-64 INCLUDES:

Compressor is mounted separately from the tank.

82 ft. of liquid and air tubing.

Air tube:  $\frac{1}{4}$ " diameter.

Liquid tube:  $\frac{1}{4}$ " diameter.

15 ft. of cable to connect the remote switch to the compressor.

6 ft. of power cable to connect remote switch to power supply.



## FM-40 AND FM-40.1 GOLF/TURF FOAM MARKERS

FM-40 has 52 ft. of liquid and air tubing (for end of boom discharge)

FM-40-1 has 15 ft. of liquid and air tubing (for center discharge)

Air tube:  $\frac{1}{4}$ " diameter

Liquid tube:  $\frac{1}{4}$ " diameter

15 ft. of cable to connect the remote switch to the compressor

### Optional Kit:

- Switch Box Kit: Allows foam to be discharged from both ends at the same time
- 6 ft. of power cable to connect remote switch to power supply

# Foam Marker Kits



## FM-10 ATV FOAM MARKER

2 x 10 ft. of liquid & air tubing

Air tube: ¼" diameter

Liquid tube: ¼" diameter

10 ft. of cable to connect the remote switch to the tank

6 ft. of power cable connecting remote switch to power supply



## FM-10-WB

7 ft. of liquid & air tubing

Air tube: ¼" diameter

Liquid tube: ¼" diameter

Rechargeable battery and charger included (approximately 2 ½ hours per charge)





## 12-VOLT PUMPS

- » The John Blue 12-Volt Pump is the only 12-Volt pump on the market today totally protected against weather, dust and overspray – it’s weatherproof tested.
- » Three models are available with capacities of 2.2, 3.6 and 4.8 GPM.

- Weatherproof tested—the only 12-Volt Pump to be totally protected against weather, dust and overspray
- Four piston diaphragm for a smoother flow
- Available quick connect ports system means it’s faster to install, requires fewer parts and connections while reducing the number of potential leak points.
- Integral pressure switch is fully sealed
- Low current draw results in a longer battery life
- Maximum operating pressure – 45 PSI
- Automatic demand
- Chemical resistant construction suitable for most fertilizers and chemicals
- Santoprene® diaphragms and valves.
- Viton® seals
- Glass-filled polypropylene housing
- Strainer is made from polycarbonate, 316 stainless steel 50 mesh screen.
- 1-year warranty

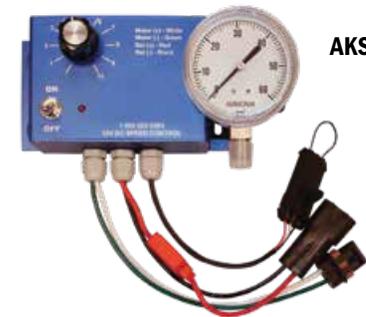
| 12-Volt Pumps and Accessories |  |
|-------------------------------|--|
| Part Number                   | Description  |
| AP0819W                       | 2.2 GPM, max amp draw 7 amps, weight 5.3 lbs., inlet/outlet ports ½” NPT male, min wire size 14 AWG.   |
| AP1219W                       | 3.6 GPM, max amp draw 12 amps, weight 5.3 lbs., inlet/outlet ports ½” NPT male, min wire size 12 AWG.  |
| AP1816W                       | 4.8 GPM, max amp draw 13 amps, weight 6.4 lbs., inlet/outlet ports 15 mm quick connect ports including clear sight glass strainer, 5 hose barb quick connect fittings, min wire size 12 AWG. |
| AP1819W                       | 4.8 GPM, max amp draw 13 amps, weight 6.4 lbs., inlet/outlet ports ½” NPT male, min wire size 12 AWG.  |
| AK1317W                       | Universal Microswitch kit  |
| AK1322W                       | Universal pump head  |
| AK1323W                       | Universal inlet strainer 90 degrees  |
| AK1584W                       | Quick connect ½” barb  |
| AK1591W                       | Quick connect ½” barb elbow  |
| AK1592W                       | Quick connect ¾” barb elbow  |
| AK765-109W                    | Front Cover, ½” NPT  |
| AK765-91W                     | Front Cover, 15mm Quick Connect  |

# 12-Volt Speed Controllers

## 12-VOLT SPEED CONTROLLERS



**AKSC35-202**



**AKSC35-206**

- Rheostat manual speed controller for 12-volt pumps.
- Available in 15 and 35 amp models.
- Accurate and smooth control over a wide range of RPM's
- Smoother adjustment of pump flow/pressure, which results in reduced sensitivity at the top of the adjustment scale.
- 6" wiring pigtails for power input and output for motor standard
- Robust sealed wiring connectors
- Reversed polarity protection
- Heavy-duty OEM style stainless steel pressure sensor for positive liquid control
- In-line automotive style fuse
- Optional stainless steel ammonia gauge can be mounted either outside of the cab or onto the control box with the provided bracket.
- Available easy-to-read digital display, no chemicals in the cab
- Standard run/hold on 35 amp units
- On/off control switch with power indicator lamp
- 1-year warranty

### 12-Volt Controller and Accessories

| Part Number | Description  |
|-------------|--|
| AKSC15-200  | 15 amp control, no gauge with wiring kit   |
| AKSC15-201  | 15 amp control, with ss gauge, tube and wiring kit   |
| AKSC15-205  | 15 amp control, no gauge or wiring kit   |
| AKSC15-206  | 15 amp control with ss gauge only  |
| AKSC35-200  | 35 amp control, no gauge with wiring kit   |
| AKSC35-201  | 35 amp control, with ss gauge, tube and wiring kit   |
| AKSC35-205  | 35 amp control, no gauge or wiring kit   |
| AKSC35-206  | 35 amp control with ss gauge only  |
| AKSC35-202  | 35 amp control digital gauge with wiring kit   |
| AKSC35-207  | 35 amp control digital gauge, no wiring kit  |
| AKSCP-021   | 15 ft. digital pressure sensor extension cable   |
| AKSCP-023   | 60 PSI ss ammonia gauge kit - 1/4" male npt inlet, includes: AKSCP-005 gauge, AKSCP-022 bracket, 90505 screws              |
| AKSCP-029   | Input/output cable set, includes: 10 ft. red/black power in, 20 ft. white/black motor out                                  |
| AKSCP-030   | Replacement digital pressure sensor assembly   |
| AKSCP-031   | 20 ft. motor output extension cable  |
| AKSCP-032   | Replacement 20 ft. digital pressure sensor cable   |
| AKSCP-033   | Gauge, tube and fittings kit, includes: 20 ft. 1/4" poly tube, union, 1/4" npt male & female adapters, AKSCP-023 gauge kit |
| AKSCP-034   | Mounting screw set, includes: 4 each #10-24x1" screws and ext. tooth washer locknuts                                       |

# Miscellaneous

## ACCESSORIES AND SERVICE KITS



John Blue carries a full line of pump accessories and service kits to make any job easier. From nuts and bolts to gasket kits, each of our products are design with one thing in mind—simplicity. But when a job requires a little more knowledge, please don't hesitate to contact the service pros at the Huntsville, Alabama Factory—they are always available and ready to help.

Give us a call at 1-800-253-2583 and talk to a John Blue technician.

# Miscellaneous

## ACCESSORIES AND SERVICE KITS

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| Part Number  | Description   |
|--|---|
| <b>Miscellaneous Drive Components - (For Pump Drives see pages 17-18)</b>                            |   |
| LA-1341-HA   | Hub Sprocket Adaptor - 4 Bolt   |
| 106190-01  | Hub Sprocket Adaptor - 5 Bolt   |
| A-1341-HA  | Hub Sprocket Adaptor - 6 Bolt   |
| A-1342-BP  | 50 Tooth Roller Chain Sprocket (50)   |
| A-1342-AP  | 60 Tooth Roller Chain Sprocket (50)   |
| A-1502-P   | 80 Tooth Roller Chain Sprocket (50)   |
| 114565-91  | 35 tooth split sprocket for 7/8" hex shaft, for piston and squeeze pumps.                       |
| 114936-91  | 32 tooth split sprocket for 7/8" hex shaft, for piston and squeeze pumps.                       |
| <b>Seal &amp; Gasket Repair Kits for Centrifugal Pumps - (For Centrifugal Pumps see pages 37-40)</b> |   |
| 103274   | Seal & Gasket Repair Kit - 1 1/2" and 2" Straight Centrifugal, Double Seal Viton®               |
| 103276   | Seal & Gasket Repair Kit - 2" Self-Priming Centrifugal Pump, Double Seal Viton®                 |
| 103277   | Seal & Gasket Repair Kit - 3" Straight Centrifugal, Double Seal Viton®                          |
| 103278   | Seal & Gasket Repair Kit - 3" Self-Priming Centrifugal, Double Seal Viton®                      |
| 110128   | Seal & Gasket Kit - S-3325 and S-3325-DS (Ceramic)  |
| 116248   | Seal & Gasket Repair Kit - 2nd Generation, 3" Self-Priming Centrifugal Pump, Double Seal Viton® |
| 116249   | 2" 2nd Gen SP Centrifugal Gasket Kit  |
| 116403-91  | PSP-3240 Seal and O-ring Kit  |
| <b>Seal Kits for Centrifugal Pumps - (For Centrifugal Pumps see pages 37-40)</b>                     |   |
| S-3756   | Seal Kit - 1 1/2" and 2" Straight and Self-Priming Centrifugal, Double Seal Viton®              |
| S-3757   | Seal Kit - 3" Straight and Self-Priming Centrifugal, Double Seal Viton®                         |
| 103839-91  | Seal Kit - S-3680 and S-3681 Hydraulic Motor  |
| 110127   | Seal Kit - S-3325, S-3325-DS and SP-3325 Truck Pump   |
| 110129   | Seal Kit - S-3350 and S-3330-DS Truck Pump  |
| <b>Repair Kits for Pumps and Fittings - (Continued on next page)</b>                                 |   |
| F-592  | Gasket Repair Kit - For Acid Pumps FA-500 and FA-501  |
| F-592-U  | Gasket Repair Kit - For Fumigant Pumps FA-500-U, FA-500 and FAC-500-U                           |
| 109414   | Gasket Repair Kit - For Acid Pumps FA-550 and FA-551  |
| 109415   | Gasket Repair Kit - For Fumigant Pumps FU-550 and FU-551  |
| 104120   | Gasket Repair Kit - For A-1610 N-Serve Pump   |
| 113604   | Gasket Repair Kit - For A-1610-A Pump   |
| L-1095-B   | Gasket Repair Kit - For L-1094 Pump (for SN Above 2100) and L-905 Pump                          |
| L-3090   | Gasket Repair Kit - For L-3000-SS, L-4900, L-4905 and L-4910 Pumps                              |
| L-4090   | Gasket Repair Kit - For L-4000-SS, L-4400, and L-4409 Pumps                                     |
| L-4090-U   | Gasket Repair Kit - For L-4400 Fumigant Pump  |
| 106029   | Gasket Repair Kit - For L-5100 Pump   |
| 115036   | Gasket Repair Kit - For LM-1255 Pump  |

# Miscellaneous

| Part Number                               | Description   |
|---|---|
| <b>Repair Kits for Pumps and Fittings</b> |   |
| 113717                                    | Gasket Repair Kit - For LM-2450 Pump                          |
| 111953                                    | Gasket Repair Kit - For LM-4450 and L-4400-HS Pumps           |
| 111947                                    | Gasket Repair Kit - For LM-4950 and L-4900-HS Pumps           |
| 116134                                    | Gasket Repair Kit - For NGP-4055-F                            |
| 116135                                    | Gasket Repair Kit - For NGP-5055-DRF                          |
| 115788                                    | Gasket Repair Kit - For NGP-6050                              |
| 115688                                    | Gasket Repair Kit - For NGP-7050                              |
| 115789                                    | Gasket Repair Kit - For NGP-8050                              |
| 115789-AR                                 | Gasket Repair Kit - For NGP-8055-AR                           |
| 115789-DR                                 | Gasket Repair Kit - For NGP-8055-DR                           |
| 116135-AR56                               | Gasket Repair Kit - For NGP-5655-ARF                          |
| 115689                                    | Gasket Repair Kit - For NGP-9050                              |
| 116457                                    | Gasket Repair Kit - For NGP-4055-HY                           |
| 116458                                    | Gasket Repair Kit - For NGP-6055-HY                           |
| 116459                                    | Gasket Repair Kit - For NGP-7055-HY                           |
| 116460                                    | Gasket Repair Kit - For NGP-9055-HY                           |
| 115788-S                                  | Gasket Repair Kit-For NGP-6050-S                              |
| 115788-U                                  | Gasket Repair Kit-For NGP-6050-U                              |
| 115688-S                                  | Gasket Repair Kit-For NGP-7050-S                              |
| 115688-U                                  | Gasket Repair Kit-For NGP-7050-U                              |
| 115789-S                                  | Gasket Repair Kit-For NGP-8055-S                              |
| 115789-U                                  | Gasket Repair Kit-For NGP-8055-U                              |
| 115689-AR                                 | Gasket Repair Kit-For NGP-9055-AR                             |
| 115689-DR                                 | Gasket Repair Kit-For NGP-9055-DR                             |
| 115689-S                                  | Gasket Repair Kit-For NGP-9050-S                              |
| 115689-U                                  | Gasket Repair Kit-For NGP-9050-U                              |
| 113842                                    | Fumigant Kit - For LM-2450 Pump                               |
| 114638                                    | Fumigant Kit - For LM-4450 and L-4400-HS Pumps                |
| 114899                                    | Fumigant Kit - For LM-4950 and L-4900-HS Pumps                |
| 113016                                    | Repair Kit - For L-4600 Pump                                  |
| 115041                                    | Repair Kit - For Low Volume Irrigation Injection Unit         |
| 115404                                    | Repair Kit - IN-1716-SA/SF, IN-1000-SA/SF                     |
| 115283-91                                 | Repair Kit - Pumping End Only - IN-1716-SA/SF, IN-1000-SA/SF0 |
| 106531                                    | Repair Kit - For 105429 Hydraulic Control                     |

\*Gasket Repair Kit includes all gaskets and rubber seals; o-rings, piston seals, rod seals and crankshaft seals

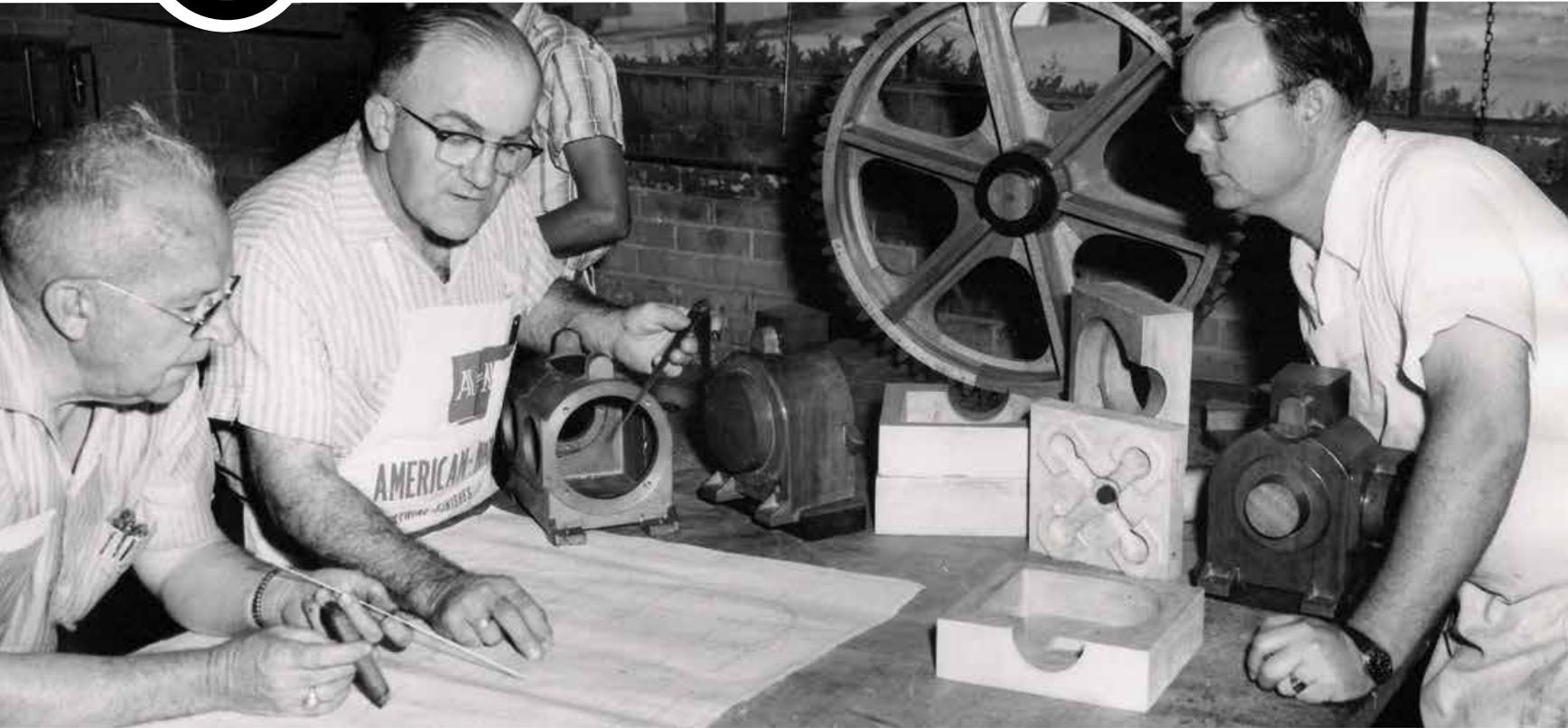
| Part Number  | Description                                    |
|--|--|
| <b>Squeeze Pump Hoses and Miscellaneous Parts - (Squeeze Pumps are on pages 32-34)</b> |  |
| L-1265   | Squeeze Pump Hose Kit - 6 Hose Set, 1/2" Hose  |
| LA-1265  | Squeeze Pump Hose Kit - 8 Hose Set, 5/16" Hose |
| 87249  | Squeeze Pump Hose - 1 Hose, 1/2" Hose          |
| 87250  | Squeeze Pump Hose - 1 Hose, 5/16" Hose         |
| A-3127-G   | Gasket for Fill Valve                          |
| 08-0010  | 3/8" Diameter Squeeze Tube for "B" Model Pump  |
| 08-0020  | 5/8" Diameter Squeeze Tube for "L" Model Pump  |
| 08-0015  | Inlet Fitting Stainless Steel "B" Pump         |
| 08-0013  | Outlet Fitting Stainless Steel "L" Pump        |
| 08-0021  | Inlet Fitting Stainless Steel "L" Pump         |
| 08-0022  | Outlet Fitting Plastic "L" Pump                |
| <b>Operator Kits - (Includes Manuals and Slide Rules)</b>                              |  |
| 115390   | Operators Kit - LM 1255 Piston Pump            |
| 115391   | Operators Kit - LM 2450 Series Piston Pump     |
| 115392   | Operators Kit - L-4400 Series Piston Pump      |
| 115393   | Operators Kit - LM-4450 Series Piston Pump     |
| 115394   | Operators Kit - LM-4950 Series Piston Pump     |
| 115280-91  | Mounting Kit for LM and L Series Piston Pumps  |
| 115787   | Operators Kit - NGP Series Piston Pump         |

# Miscellaneous

| Part Number                               | Description  |
|---|--|
| <b>Conversion Kits</b>                    |  |
| 105429                                    | Hydraulic Throwout Conversion Kit - For L-4400, LM-4450 and LM-4950 Series Pumps |
| 113647                                    | Hydraulic Throwout Conversion Kit - For LM-2450 Series Pumps                     |
| 115670                                    | Manual Clutch Add On - NGP Universal   |
| 115671                                    | Hydraulic Clutch Add On - NGP Universal  |
| 115672                                    | Electric Clutch Add On - NGP Universal   |
| 115406-A                                  | Needle and Seal Kit - FD-0610, FD-1200 & FD-1210                                 |
| 115433-A                                  | Needle and Seal Kit-FD-2000 & FD-2010  |
| 116063                                    | FD-0610 Spring Adjustment Kit  |
| 116064                                    | FD-1210 Spring Adjustment Kit  |
| 116065                                    | FD-2010 Spring Adjustment Kit  |
| <b>Sprockets for Pumps without Clutch</b> |  |
| 114516-01                                 | 12 Tooth Sprocket - RC 40, 1" Bore   |
| 113905-01                                 | 18 Tooth Sprocket - RC 40, 1" Bore   |
| 115156-01                                 | 18 Tooth Sprocket - RC 40, 7/8" Hex  |
| 114517-01                                 | 23 Tooth Sprocket - RC 40, 1" Bore   |
| 114932-01                                 | 32 Tooth Sprocket - RC 40, 1" Bore   |
| 114936-91                                 | 32 Tooth Sprocket - RC 40 Split for 7/8" Hex                                     |
| 114565-91                                 | 35 Tooth Sprocket - RC 40 Split for 7/8" Hex                                     |
| 113611-01                                 | 11 Tooth Sprocket - RC 50, 1" Bore   |
| 114677-01                                 | 14 Tooth Sprocket - RC 50, 1" Bore   |
| 113685-01                                 | 16 Tooth Sprocket - RC 50, 1" Bore   |
| 106532-01                                 | 18 Tooth Sprocket - RC 50, 1" Bore   |
| 115157-01                                 | 18 Tooth Sprocket - RC 50, 7/8" Hex  |
| 112773                                    | 24 Tooth Sprocket - RC 50, 1" Bore   |
| 105482-01                                 | 32 Tooth Sprocket - RC 50, 1" Bore   |
| 112774                                    | 36 Tooth Sprocket - RC 50, 1" Bore   |
| <b>Pulsation Dampener</b>                 |  |
| 116344-91                                 | Pulsation Dampener for all John Bue Piston Pumps                                 |



Reference the John Blue Product Catalog from your devices.



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