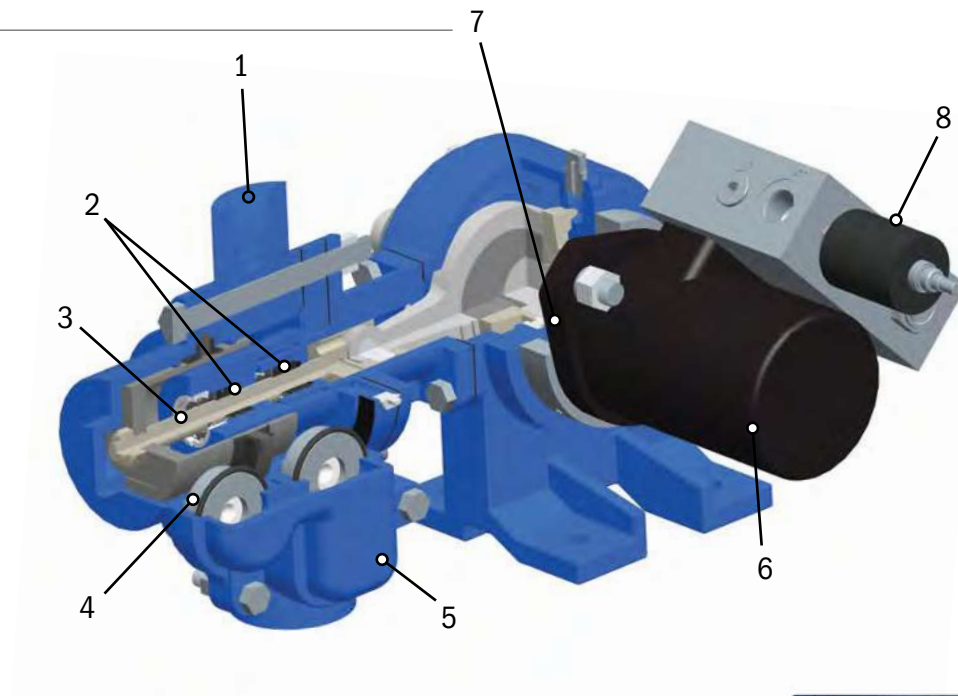


NGP PISTON PUMPS

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®.



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



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:	Dead-head style manifold

Rows	Swath in Inches		NGP-4055-F Application Range in GPA at 5 MPH			
			30 Inch Spacing		36 Inch Spacing	
			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	
			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.



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 ½" FPT 220 series flanges	

- » 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.



NGP-6050 SERIES

Single Piston - Double Acting	Rated Speed - 450 RPM
Stroke - Variable	Inlet - 1 ½" FPT
Rated Flow - 21.0 GPM	Outlet - 1 ½" FPT
Rated Pressure - 120 PSI	Clutch - Various Options

MODELS AVAILABLE:

NGP-6050	Rope Control Clutch
NGP-6055	Without Clutch
NGP-6058	Electric Control Clutch
NGP-6059	Hydraulic Control Clutch



NGP-6055-HYF (HYDRAULIC DRIVE PISTON PUMP)

Single Piston - Double Acting	Rated Speed - 550 RPM
Stroke - Fixed	Inlet/Outlet-1 ½" 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:

NGP-6055-HYF	Includes flange
NGP-6055-HY	Without flange

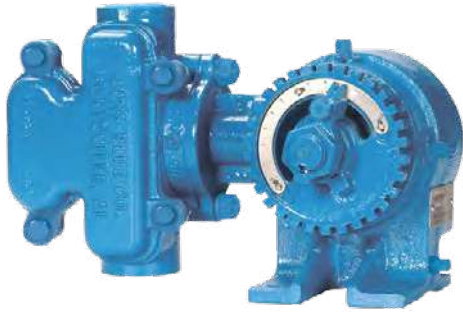


HYDRAULIC MOTOR/PWM MANIFOLD KITS:

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

Rows	Swath in Inches		NGP-6055 Application Range in GPA at 5 MPH			
			30 Inch Spacing		36 Inch Spacing	
			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.



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

MODELS AVAILABLE:

NGP-7050	Rope Control Clutch
NGP-7055	Without Clutch
NGP-7058	Electric Control Clutch
NGP-7059	Hydraulic Control Clutch

Additional model options, including flanges, on page 18



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:

NGP-7055-HYF	Includes flange
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HYDRAULIC MOTOR/PWM MANIFOLD KITS:

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

Rows	Swath in Inches		NGP-7050 Application Range in GPA at 5 MPH			
			30 Inch Spacing		36 Inch Spacing	
			Min	Max	Min	Max
	30	36				
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.



NGP-8050 SERIES

Double Piston - Double Acting	Rated Speed - 450 RPM
Stroke - Variable	Inlet - 1 1/2" FPT
Rated Flow - 42 GPM	Outlet - 1 1/2" FPT
Rated Pressure - 120 PSI	Clutch - Various Options

MODELS AVAILABLE:

NGP-8050	Rope Control Clutch
NGP-8055	Without Clutch
NGP-8058	Electric Control Clutch
NGP-8059	Hydraulic Control Clutch
NGP-8055-DR	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	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 1/2" FPT	
Rated Flow - 42 GPM total	Outlet - 1 1/2" 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	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.



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

MODELS AVAILABLE:

NGP-9050	Rope Control Clutch
NGP-9055	Without Clutch
NGP-9058	Electric Control Clutch
NGP-9059	Hydraulic Control Clutch
NGP-9055-DR	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:** 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.



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 34.2 GPM per side	Outlet - 1 1/2" FPT
Rated Pressure - 120 PSI	Clutch - No Clutch

- » 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 Inch Spacing		36 Inch Spacing	
	30	36	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)
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 21-23 »

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 ½" 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 ½" NPT to 200 series flange adapter, stainless steel
116083-01S	1 ½" NPT to 220 series flange adapter, stainless steel
116123-91	NGP-6055/8055 Direct Drive ASM-Manual Control
116124-91	NGP-7055/9055 Direct Drive ASM-Manual Control
116205-91	Flow-thru Style Hydraulic Motor/PWM Manifold Kit for Direct Drive Piston Pumps
116205-91D	Dead-head Style Hydraulic Motor/PWM Manifold Kit for Direct Drive Piston Pumps
116344-91	Dampener Kit 1 ½" NPT

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

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

* 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.