

396-4233Y1 QuickDraw Trailer Setup Manual





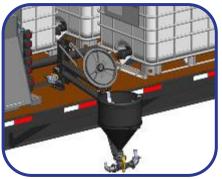


Page 1 © 2019-2022 SurePoint Ag Systems, Inc.

Table of Contents



QuickDraw Mounting (Page X)



QuickDraw Inductor Tanks (Page X)



Transfer/Boost Pump (Pages 6-10, 15)



Electric Motors (Pages 9-11, 15)



Hydraulic Motors (Pages 12-14, 15)



Bulk Container Hose Kits (Page x)



IBC Bulk Container (Page x)



Hose Reel (Page x)



Carrier Fill Plumbing (Page x)

Typical Trailer Configurations



Dual Water Carrier Tank

3" Ground Carrier Tank Fill Plumbing Kit (Electric or Manual Valve Control)
3" Sprayer Fill Hose Kit or 3" Hose Reel
3" Gas Engine Transfer Pump
Swing Down Manual Product Inductor Tank
4 or 6 Product QuickDraw^{MAX}



3" Ground Carrier Tank Fill Plumbing Kit (Electric or Manual Valve Control)
3" Hose Reel
3" Gas Engine Transfer Pump
30 Gallon Manual Product Inductor Tank
6 Product QuickDraw^{MAX}

Single Water Carrier Tank (Sprayer Hauler) Ground Fill Plumbing Kit

Ground Fill Plumbing Kit
3" Hose Reel Kit
3" Gas Engine Transfer Pump
Swing Down Manual Product Inductor Tank
4 Product QuickDraw^{MAX}

Customer Installation Examples



Single Water Carrier Tank (Sprayer Hauler)
Ground Fill Plumbing Kit
3" Sprayer Fill Hose Kit
3" Gas Engine Transfer Pump
Swing Down Manual Product Inductor Tank
6 Product QuickDraw^{MAX}



Single Water Carrier Tank (Rear Tank/Gooseneck) Ground Fill Plumbing Kit

3" Hose Reel Kit 3" Gas Engine Transfer Pump Swing Down Manual Product Inductor Tank 4 Product QuickDraw^{MAX}

Customer Installation Examples



Dual Water Carrier Tank

3" Ground Carrier Tank Fill Plumbing Kit (Electric or Manual Valve Control)

3" Hose Reel

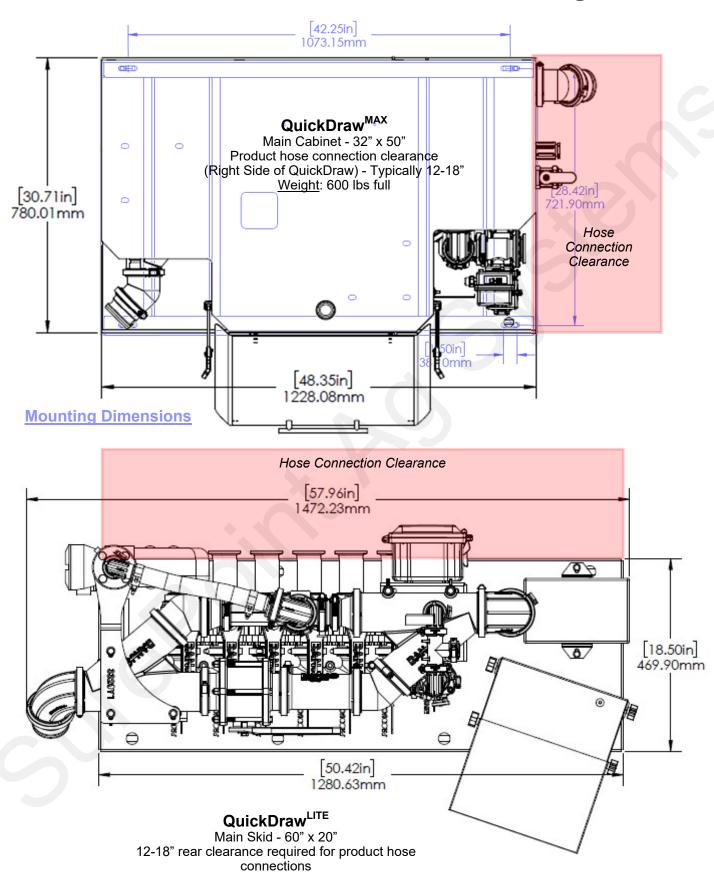
3" Gas Engine Transfer Pump

30 Gallon Manual Product Inductor Tank

6 Product QuickDraw

MAX

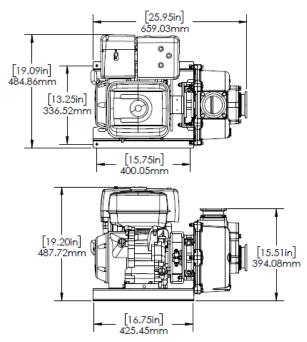
QuickDraw Dimensions and Weights



Revised: 5/24/2022

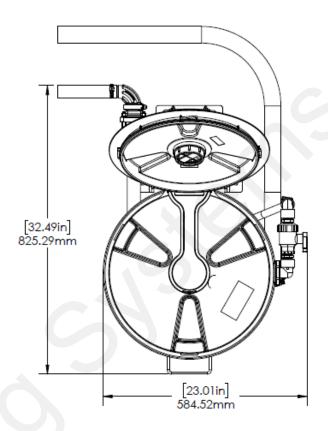
Weight: 200 lbs full

QuickDraw Accessory Dimensions and Weights

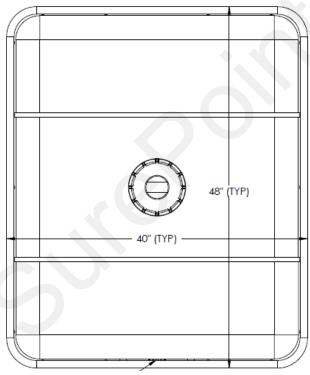


13HP John Blue Transfer Pump

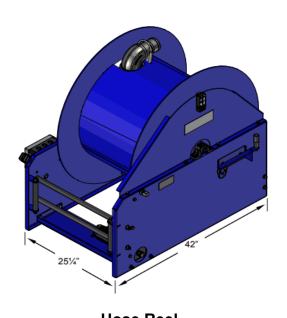
Overall Dimensions: 26" x 20" Bolt Pattern: 13-1/4" x 15-3/4" Weight: 200 lbs



Inductor Tanks See pages X-X



<u>Typical Bulk Storage Container</u> Standard 40" x 48" (Valve on 40" side) <u>Weight</u>: Varies by Product up to 3,500lbs



Hose Reel
EZPROHR300 Main Skid - 25-1/4"W x 42"L
HRE300SS Main Skid - 31"W x 41"L
(Requires 6-8" on left side for hose inlet plumbing)
Weight: 500 lbs with 75' of 3" hose full of water



Table of Contents Kits by Kit Number

KIT NUMBER	DESCRIPTION	Pgs
606-01-400200	QuickDraw 1-1/2" Standard Port Product Valve Shuttle Connection Kit with Rinse Manifold	3
606-01-400250	QuickDraw 2" Full Port Product Valve Shuttle Connection Kit with Rinse Manifold	4
606-01-400300	QuickDraw Product Hose Rinse Kit	5
606-02-100100	15 Gallon Swing-Down Eductor Tank Kit Without Chemblade	
606-02-100150	15 Gallon Swing-Down Eductor Tank Kit WITH Chemblade	
606-02-100400	QuickDraw 30 Gallon Chem-Blade ES Eductor Kit - NO 3" Bypass	
606-02-100500	QuickDraw 30 Gallon Chem-Blade ES Eductor Kit - w/ 3" Bypass	
606-04-100100	QuickDraw 3" Sprayer Fill Hose Kit	
606-04-100200	QuickDraw Trailer 3" Plumbing Kit - 2 Carrier Tanks	
606-04-100300	QuickDraw Trailer 3" Plumbing Kit - Single Carrier Tank	
606-04-100400	QuickDraw Trailer 3" Electric Valve Upgrade - 2 Carrier Tanks	
606-04-100500	QuickDraw Trailer 3" Electric Valve Upgrade - Single Carrier Tank	
606-06-100100	QuickDraw 5" Lift Kit	
606-06-100300	275 Gallon IBC Shuttle Tie Down Kit	
	Hydraulic Transfer/Boost Pump	





Hose Connection Kits

Connect the QuickDraw to bulk product containers with a water rinse manifold to clean out the valve before unhooking or changing products.



606-01-400200

QuickDraw 1-1/2" Standard Port Product Valve Shuttle Connection Kit with Rinse Manifold



Revised: 5/24/2022

Installation Instructions:

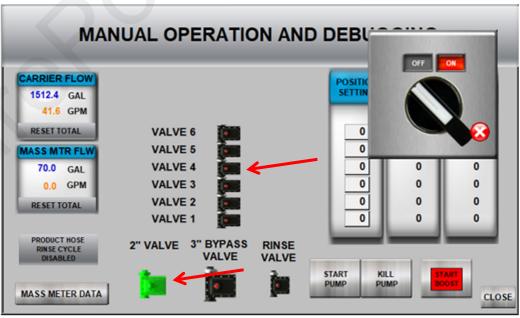
See the next two pages for hose kit assembly

Valve Rinse Operation Instructions:

606-01-400250

QuickDraw 2" Full Port Product Valve Shuttle Connection Kit with Rinse Manifold

- 1. Close valve on product hose (yellow handle).
- 2. Use the manual controls in the QuickDraw controller to open the 2" electric valve and associated product valve to be rinsed.
- 3. Open 3/8" quarter turn valve to rinse area between QuickDraw Product Valve and manual valve on the Product Hose. *Note: The product hose remains full of chemical and should be removed with bulk chemical tank.*





606-01-400200

QuickDraw 1-1/2" Standard Port Product Valve Shuttle Connection Kit with Rinse Manifold

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	101-200150	2" MPT x 1-1/2" HB	1
2	102-200VSFCF	200 Series Manifold x 2" Male Quick Coupler Std Port Valve	1
3	105-150G	1 1/2" EPDM Gasket	3
4	105-200150BRB	2" Manifold x 1-1/2" HB	1
5	105-200150BRB45	2" Manifold x 1-1/2" HB - 45 Degree	1
6	105-200CPG45	2" Manifold Coupling - 45 Degree	1
7	105-200MPT-025	2" Manifold x 2" MPT (Tapped)	1
8	105-FC200	2" Manifold Clamp	3
9	106-200D	2" Female Coupler x 2" FPT	1
10	106-200D90	2" Female Coupler x 2" FPT - 90°	1
11	113-16-038025-45	3/8"QC x 1/4" MPT (Nickel Plated Brass) - 45 Degree	1
12	113-21-038038038	3/8"QC x 3/8"QC x 3/8" Stem TEE	1
13	113-50-038038	Valve - 3/8" QC x 3/8" QC	1
14	280-200-ENF	2" Enforcer Fertilizer Solution Hose	1
15	281-02-038	Bulk 3/8" OD Poly Tubing - 6" Lengths	1
16	350-TC231	T-Bolt Hose Clamp - 2.31 - 2.62" Diameter (fits 2" Enforcer)	2

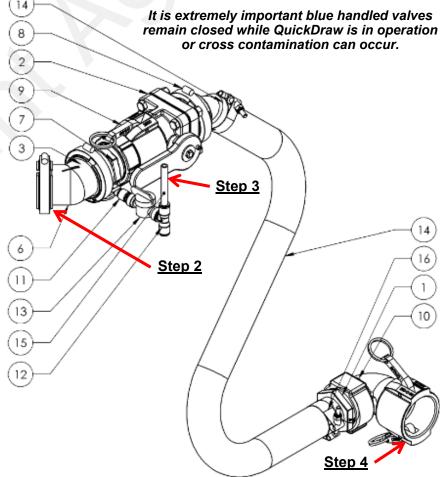
Installation Instructions

- Assemble kit as shown. Ensure orings and gaskets are in place prior to connecting fittings.
- Connect 2" 45 Degree manifold fitting to QuickDraw "Product 2-6" valve. Install gasket between the valve and coupling and tighten with manifold clamp.
- 3. Cut 3/8" tubing to length in order to connect each product valve rinse manifold kits together.

Note: The top product valve will use a stem elbow instead of the stem tee that are provided in the kit.

4. Connect cam-lever coupling to chemical/fertilizer shuttle or tank.

Note: The top product valve will use a stem elbow (113-12-038038, provided in the kit) instead of the stem tee.





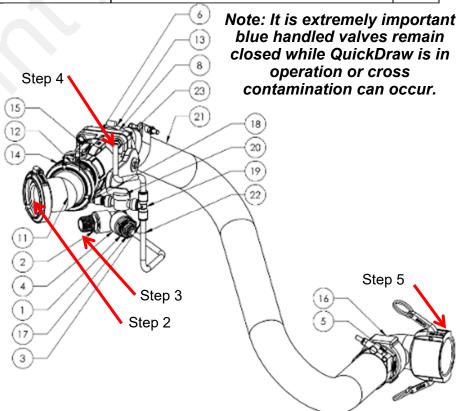
606-01-400250

QuickDraw 2" Full Port Product Valve Shuttle Connection Kit with Rinse Manifold

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	100-075050RB	3/4" MPT x 1/2" FPT Reducer Bushing	1
2	100-075NIP-SH	3/4" Short Poly Nipple	1
3	100-075PLUG	3/4" Pipe Plug	1
4	100-075TEE	3/4" Pipe Tee	1
5	101-200200	2" MPT x 2" HB	1
6	102-200VSFCF	200 Series Manifold x 2" Male Quick Coupler Std Port Valve	1
7	105-150G	1-1/2" EPDM Gasket	1
8	105-200BRB	2" Manifold x 2" HB	1
9	105-200BRB45	2" Manifold x 2" HB - 45 Degree	1
10	105-200G-H	2" EPDM Manifold Gasket for 220 Series Manifold Fittings	2
11	105-220CPG45	2" Full Port Manifold Coupling - 45 Degree	1
12	105-220MPT-025	2" Full Port Manifold x 2" MPT with 1/4" Tapped Hole	1
13	105-FC200	2" Manifold Clamp	1
14	105-FC220	2" Full Port Manifold Clamp	2
15	106-200D	2" Female Coupler x 2" FPT	1
16	106-200D90	2" Female Coupler x 2" FPT - 90°	1
17	113-06-038050-P	QC to MPT - 3/8" QC x 1/2" MPT	1
18	113-16-038025-45	3/8"QC x 1/4" MPT (Nickel Plated Brass) - 45 Degree	1
19	113-21-038038038	3/8"QC x 3/8"QC x 3/8" Stem TEE	1
20	113-50-038038	Valve - 3/8" QC x 3/8" QC	1
21	280-200-ENF	2" Enforcer Fertilizer Solution Hose - 15 ft	1
22	281-038	3/8" OD Tube - 24"	1
23	350-TC231	T-Bolt Hose Clamp - 2.31 - 2.62" Diameter	2

Installation Instructions

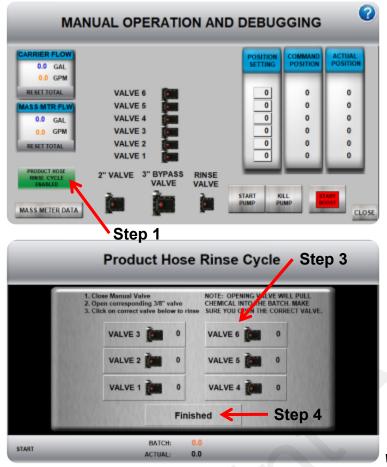
- 1. Assemble kit as shown on the previous pages. Ensure O-rings and gaskets are in place prior to connecting fittings.
- Connect 2" full port manifold fitting to QuickDraw "Product 1" valve. Install gasket between the valve and coupling and tighten with manifold clamp.
- 3. Thread 3/4" tee from 606-01-400150 kit into QuickDraw rinse valve. Cut provided tubing to length and connect 3/8" tubing from QuickDraw rinse valve to quick connect tee.
- 4. Cut 3/8" tubing to length in order to connect Product 1 rinse valve to Product 2, if applicable.
- Connect cam-lever coupling to chemical/fertilizer shuttle or tank.

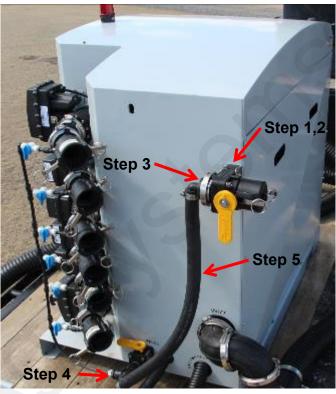


Page 11 © 2019-2022 SurePoint Ag Systems, Inc.



606-01-400300 QuickDraw Product Hose Rinse Kit





The QuickDraw Product Hose Rinse Cycle allows you to rinse the product connection or entire product hose from the tote. Beneficial when hooking up multiple products in a season.

Revised: 5/24/2022

Installation Instructions (Pictured Right):

- 1. Use self tapping screws to mount 2" Mounting Bracket—90 Degree (P/N: 102-200VBR-90) to the QuickDraw cabinet.
- 2. Remove 2 nuts from the 2" Manifold x 2" Male Quick Coupler Poly Valve (P/N: 102-200VSFCF) and attach to the 90 Degree Mounting Bracket. The male quick coupler port should face the rear of the QuickDraw.
- 3. Attach the 2" Manifold x 1" HB—90 Degree (P/N: 105-200100-90) to the valve using the provided manifold clamp and gasket. (P/N: 105-FC200 and 105-150G-H)
- 4. Thread 3/4" MPT x 1"HB—90 Degree into the Aux Rinse valve or 3/4" tee fitting as shown. *Note: 3/4" Tee fitting provided as part of the 2" Full Port Product Valve Connection Kit (P/N: 606-01-400150)*
- 5. Route 1" hose as shown and tighten hose clamps.

Operation Instructions (Pictured Left):

- 1. Prior to starting the batch, go to "Manual Controls" page (button on bottom left hand corner of "Run" Screen) press the "Product Hose Rinse Cycle" button to enable. It will turn green when enabled. This enables the rinse cycle for one batch.
- 2. At the conclusion of the batch the Product Hose Rinse Cycle Control Screen will appear.

ATTENTION: Close valve on product tank or hose before pressing valve button on this screen. Pressing button without closing tank or hose valve will draw additional chemical into the batch.

- 3. Press the button of the product valve you would like to rinse. Press the button a second time to close the valve once rinse is complete.
- 4. Once rinse(s) is/are complete, press Finished. QuickDraw will complete the remainder of the batch.

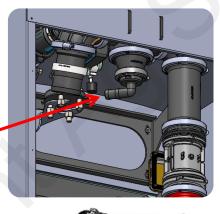


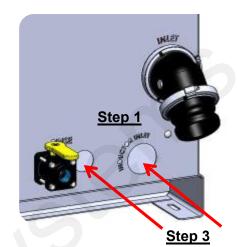
Manually Added Products Inductor Tanks or Slurry Tanks

SurePoint Ag Systems offers a lineup of various tank kits to manually add product to the sprayer batch fill process without being measured by the Mass Meter. All SurePoint provided tanks or customer supplied tanks connect to the QuickDraw in the same basic way.

QuickDraw^{MAX} Instructions:

- Route 1-1/2" tank outlet hose through hole in the side of the QuickDraw^{MAX} cabinet.
- 2. Remove cap and connect check valve to the 220 series Y fitting inside QuickDraw Note: Check valve arrow should be pointing towards the Y. A 45° fitting helps to clear the 3" carrier flowmeter and with general hose routing.
- 3. If using an eductor/venturi on the bottom of the tank to maximize efficiency, route a 1" supply hose through the hole in the side of the cabinet to the inlet of the eductor.
- 4. Remove QuickDraw manifold rinse (2" Manifold x 1" HB - 90°) from 3" reducer coupling inside the QuickDraw Cabinet.
- 5. Connect 2" Manifold x 1" HB to 2" tee and connect 2" tee to reducer coupling inside the QuickDraw Cabinet.
- 6. Reconnect rinse to side leg of tee.



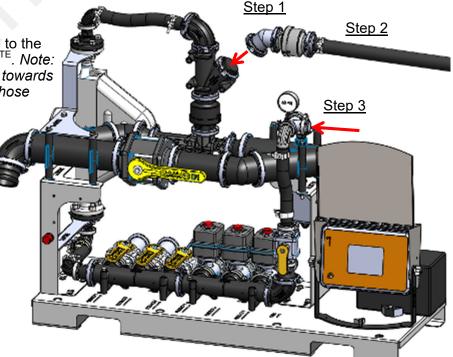






QuickDraw^{LITE} Instructions:

- 1. Remove cap and connect check valve to the 220 series Y fitting of the QuickDraw^{LITE}. Note: Check valve arrow should be pointing towards the Y. A 45° fitting helps with general hose routing.
- 2. Route 1-1/2" tank outlet hose and connect to the check valve.
- 3. If using an eductor on the bottom of the tank to maximize efficiency, route a 1" supply hose through the hole in the side of the cabinet to the inlet of the eductor.

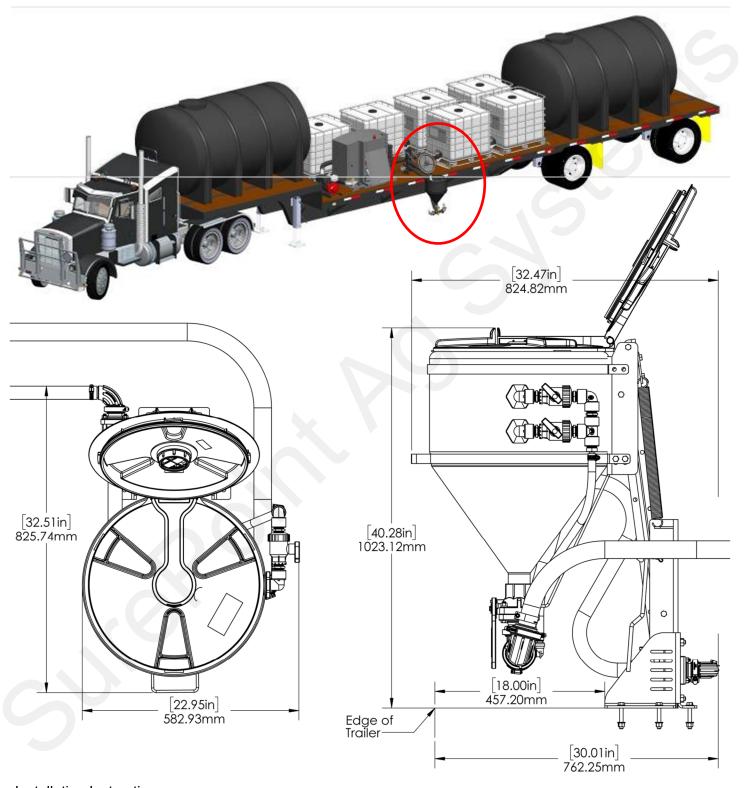


Page 13 © 2019-2022 SurePoint Ag Systems, Inc.



606-02-100100 / 606-02-100150

15 Gallon Swing-Down Eductor Tank Dimensions and Installation Instructions



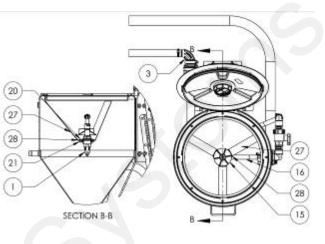
Installation Instructions:

1. Use the provided 396-4234Y1 - Trailer Mounting Template to drill hole pattern in trailer deck. Check swing clearance from the trailer edge and other obstructions.



15 Gallon Swing-Down Eductor Tank with Jug Rinse (Replacement Parts & Operation)

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	101-050050-90	1/2" MPT x 1/2" HB - 90 Degree	1
2	105-100BRB	1" Manifold x 1" HB	1
3	105-100BRBSWP90	1" Manifold x 1" HB - 90 Degree Sweep	1
4	105-100G-H	1" EPDM Manifold Gasket	1
5	105-150G-H	1-1/2" EPDM Manifold Gasket for 200 Series Manifold fittings	2
6	105-200G-H	(FOR FC220s) 2" EPDM Manifold Gasket for 220 Series Manifold Fittings	3
7	105-200TEE	2" Manifold Tee	1
8	105-200100BRB	2" Manifold x 1" HB	1
9	105-220150BRB	2" Full Port Manifold x 1-1/2" HB	1
10	105-220CPG45	2" Full Port Manifold Coupling - 45 Degree	1
11	105-220CV	2" Full Port Manifold Check Valve	1
12	105-FC100	1" Manifold Clamp	2
13	105-FC200	2" Manifold Clamp	3
14	105-FC220	2" Full Port Manifold Clamp	2
15	133-09-3400-0175	ProClean II Valve and Nozzle	1
16	280-050-AG200	1/2" AG200 Bulk	12 in
17	280-100-AG200	1" AG200 Bulk	15 ft
18	280-150-ENF	1-1/2" Enforcer Fertilizer Solution Hose	15 ft
19	300-060208-5	3/8" x 2-1/2" Hex Head Bolt - G5	6
20	304-040008-SS	Carriage Bolt - 1/4" x 1/2" SS	6
21	321-04-SS	1/4" Nylock Nut - SS	6
22	321-06	3/8" Nylock Nut	6
23	330-06	3/8" Flat Washer	12
24	350-0605	SS Hose Clamp - Size 6 - 7/8" Diameter (fits 3/8" and 1/2" AG200)	2
25	350-1608	SS Hose Clamp - Size 16 - 1-1/2" Diameter (fits 1" AG200)	2
26	350-TC181	Pressure Seal HD Clamp, Size 238 (fits 1 1/4" - 1 1/2" Enforcer, Wire Braided or AG200)	2
27	475-4180Y1-SS	Jug Rinse Arm Bracket for 16" Lid	3
28	475-4181Y1-SS	Jug Rinse Mounting Bracket for 16" Lid	1
29	476-4178Y1	QuickDraw 15 Gal Swing-Down Eductor BOM only	1
30	396-4234Y1	Swing Down Eductor Trailer Hole Template	1



Chemical Jug Operation:

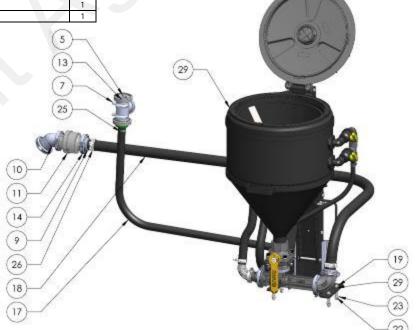
This process is typically executed during the "Manual Rinse Cycle" on QuickDraw^{MAX} or at any time during loading with QuickDraw^{LITE}.

- 1. Pour the desired amount of product into the inductor tank.
- 2. Upon depletion of the jug, press the jug down on the Jug Rinse Valve and water will flow through the rinse head and clean the jug. (The bottom valve on the side must be open)
- Open tank valve to pull product from the tank, through the venturi valve and into the QuickDraw.
- 4. Close Jug Rinse Valve, open Tank Rinse Valve to clean the tank. After tank is evacuated, close all valves.
- 5. Discard chemical jug properly and resume QuickDraw operation.

Dry Product Operation:

- 1. Open the top side valve to begin water flow to help create a slurry of dry product and water. Pour desired amount of dry material into the inductor tank.
- 2. Open 2" valve and tank valve to pull product from the tank, through the venturi valve and into the QuickDraw.
- 3. After tank is evacuated, close rinse valves and tank valves.

Note: All water used for rinsing and mixing is still being measured by the QuickDraw automated spray tender system.

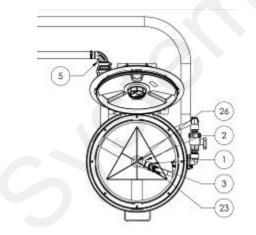




15 Gallon Swing-Down Eductor Tank With ChemBlade® (Replacement Parts & Operation)

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	100-075075SL-45	3/4" Street Elbow - 45 Degree	1
2	100-075EL-90	3/4" Pipe Elbow - 90 Degree	1
3	101-075050-H	3/4" MPT x 1/2" HB	1
4	105-100BRB	1" Manifold x 1" HB	1
5	105-100BRBSWP90	1" Manifold x 1" HB - 90 Degree Sweep	1
6	105-100G-H	1" EPDM Manifold Gasket	1
7	105-150G-H	1-1/2" EPDM Manifold Gasket for 200 Series Manifold fittings	2
8	105-200G-H	(FOR FC220s) 2" EPDM Manifold Gasket for 220 Series Manifold Fittings	3
9	105-200TEE	2" Manifold Tee	1
10	105-200100BRB	2" Manifold x 1" HB	1
11	105-220150BRB	2" Full Port Manifold x 1-1/2" HB	1
12	105-220CPG45	2" Full Port Manifold Coupling - 45 Degree	1
13	105-220CV	2" Full Port Manifold Check Valve	1
14	105-FC100	1" Manifold Clamp	1
15	105-FC200	2" Manifold Clamp	2
16	105-FC220	2" Full Port Manifold Clamp	3
17	280-050-AG200	1/2" AG200 Bulk	12 in
18	280-100-AG200	1" AG200 Bulk	15 ft
19	280-150-ENF	1-1/2" Enforcer Fertilizer Solution Hose	15 ft
20	300-060208-5	3/8" x 2-1/2" Hex Head Bolt - G5	6
21	321-06	3/8" Nylock Nut	6
22	330-06	3/8" Flat Washer	12
23	350-0605	SS Hose Clamp - Size 6 - 7/8" Diameter (fits 3/8" and 1/2" AG200)	2
24	350-1608	SS Hose Clamp - Size 16 - 1-1/2" Diameter (fits 1" AG200)	2
25	350-TC181	Pressure Seal HD Clamp, Size 238 (fits 1 1/4" - 1 1/2" Enforcer, Wire Braided or AG200)	2
26	399-CB0016	Chem-Blade for QuickDraw Induction System	1
27	476-4178Y1	QuickDraw 15 Gal Swing-Down Eductor BOM only	1
28	396-4234Y1	Swing Down Eductor Trailer Hole Template	1





Chemical Jug Operation:

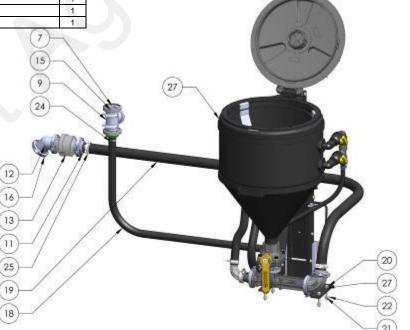
This process is typically executed during the "Manual Rinse Cycle" on QuickDraw^{MAX} or at any time during loading with QuickDraw^{LITE}.

- Carefully bring the chemical jug down onto the Chem-Blade ES, splitting the jug.
- 2. Close the lid and open the Jug Rinse Valve and water will flow through the rotary rinse head at the center of the blade to thoroughly rinse the inside of the iug
- 3. Open shutoff valve and tank valve to pull product from the tank, through the venturi valve and into the QuickDraw.
- 4. Close Jug Rinse Valve, open Tank Rinse Valve to clean the tank. After tank is evacuated, close all valves.
- 5. Discard chemical jug properly and resume QuickDraw operation.



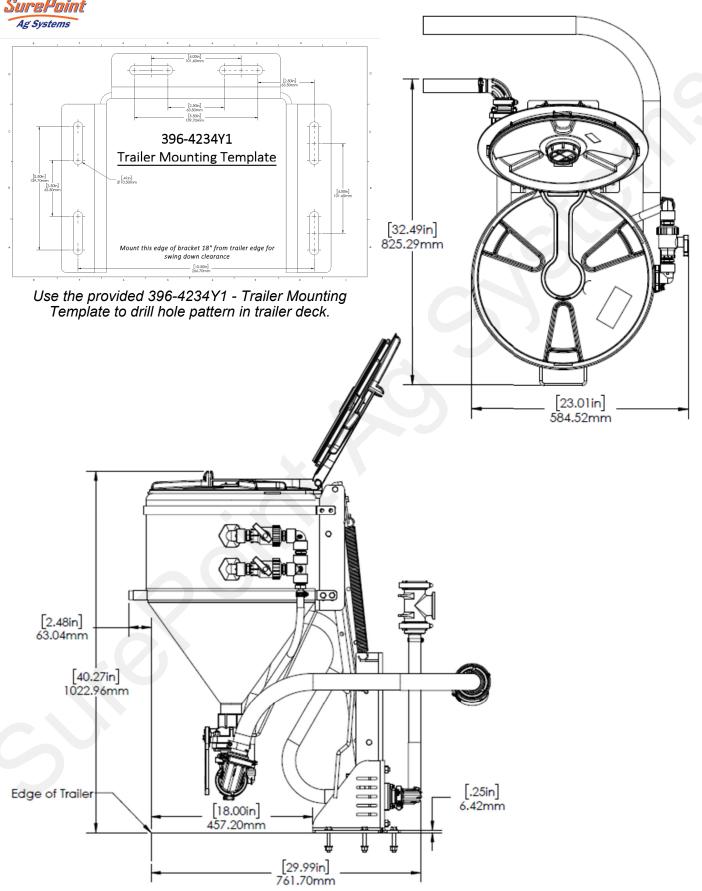
- 1. Unlike a chemical jug, a bag of dry product is not likely to need rinsed. Drop the bag(s) onto the Chem-Blade and shake remaining contents into the tank.
- 2. Close the tank lid and open Jug rinse and Tank Rinse valves to create a slurry of the dry product and water, to ease transport through the venturi valve.
- 3. Open 2" valve and tank valve to pull product from the tank, through the venturi valve and into the QuickDraw.
- 4. After tank is evacuated, close rinse valves and tank valves.

Note: All water used for rinsing and mixing is still being measured by the QuickDraw automated spray





15 Gallon Swing-Down Eductor Dimensions



396-4233Y1 - QuickDraw Trailer Setup Manual

Page 17 © 2019-2022 SurePoint Ag Systems, Inc.



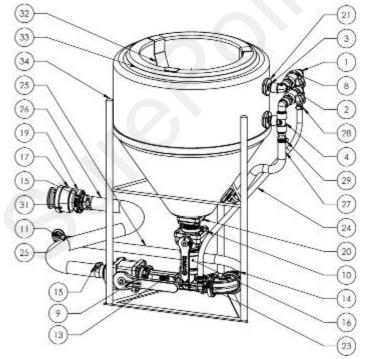
QuickDraw 30 Gallon Chem-Blade ES Eductor Kit No 3" Bypass

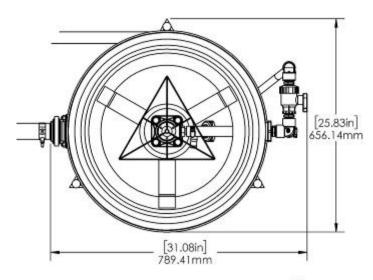
Replacement Parts

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	100-075075SL-90	3/4" Street Elbow - 90 Degree	2
2	100-075EL-90	3/4" Pipe Elbow - 90 Degree	2
3	100-075NIP-SH	3/4" Short Poly Nipple	6
4	100-075TEE	3/4" Poly Tee	2
5	101-075050	3/4" MPT x 1/2" HB	1
6	101-075075	3/4" MPT x 3/4" HB	2
7	101-075075-90	3/4" MPT x 3/4" HB - 90 degree	4
8	102-075SUBV	3/4" Union Valve 2 Way	2
9	102-220MVCF	2" Full Port Flange Ball Valve	1
10	102-220MVSMTFP	2" Manifold x 2" MPT Valve	1
11	105-100BRBSWP90	1" Flange X 90° Sweep Hose Barb	1
12	105-200G-H	2" EPDM Manifold Gasket for 220 Series Fittings	4
13	105-220-3371-0038R	2" Full Port Manifold Venturi, 11mm Nozzle, RH	1
14	105-220125BRB	2" Full Port Manifold x 1-1/4" HB	1
15	105-220150BRB	2" Full Port Manifold x 1 1/2" HB	2
16	105-220CPG	2" X 2" Full Port Flange X 2 31/32" Long	1
17	105-220CV	2" Manifold Check Valve	1
18	105-220SWP90	2" Full Port 90° Sweep	1
19	105-FC220	2" Full Port Manifold Clamp	7
20	108-BF200BD	2" Bolted Tank Flange Bottom Drain	1
21	108-TF075	3/4" Tank Bung	3
22	113-01-050050	1/2" Stem x 1/2" Hose Barb	1
23	113-12-050050	Stem Elbow - 1/2" Stem x 1/2" QC	1
24	280-050-AG200	3/4" AG200 Hose - Bulk	48
25	280-100-AG200	1" AG200 Hose - Bulk	15ft
26	280-150-ENF-0002	1-1/2" Enforcer Fertilizer Solution Hose	15ft
27	280-AG200-075	3/4" AG Hose - Bulk	36"
28	350-0605	SS Hose Clamp - Size 6 - 7/8" Diameter	2
29	350-1208	SS Hose Clamp - Size 12 - 1-1/4" Diameter	4
30	350-1608	1" Hose Clamp	2
31	350-TC181	T-Bolt Hose Clamp - 1.81 - 2.06" Diameter	2
32	399-CB0016	Chem-Blade for QuickDraw Induction System	1
33	727-05-IN0030-24	24" Inductor Tank - 30 Gallon (Norwesco)	1
34	727-29-INFD15ST	24 inch full drain inductor stand	1



Assembled Dimensions







396-4233Y1 - QuickDraw Trailer Setup Manual

Page 18 © 2019-2022 SurePoint Ag Systems, Inc.



QuickDraw 30 Gallon Chem-Blade ES Eductor Kit No 3" Bypass Operation Instructions

Chemical Jug Operation:

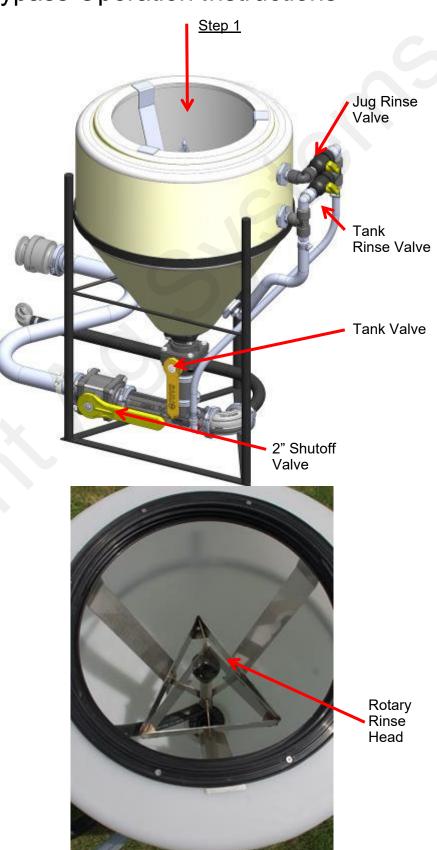
This process is typically executed during the "Manual Rinse Cycle" on QuickDraw^{MAX} or at any time during loading with QuickDraw^{LITE}.

- 1. Carefully bring the chemical jug down onto the Chem-Blade ES, splitting the jug.
- Close the lid and open the Jug Rinse Valve and water will flow through the rotary rinse head at the center of the blade to thoroughly rinse the inside of the jug.
- 3. Open shutoff valve and tank valve to pull product from the tank, through the venturi valve and into the QuickDraw.
- 4. Close Jug Rinse Valve, open Tank Rinse Valve to clean the tank. After tank is evacuated, close all valves.
- 5. Discard chemical jug properly and resume QuickDraw operation.

Dry Product Operation:

- Unlike a chemical jug, a bag of dry product is not likely to need rinsed.
 Drop the bag(s) onto the Chem-Blade and shake remaining contents into the tank.
- 2. Close the tank lid and open Jug rinse and Tank Rinse valves to create a slurry of the dry product and water, to ease transport through the venturi valve.
- 3. Open 2" valve and tank valve to pull product from the tank, through the venturi valve and into the QuickDraw.
- 4. After tank is evacuated, close rinse valves and tank valves.

Note: All water used for rinsing and mixing is still being measured by the QuickDraw automated spray tender system.





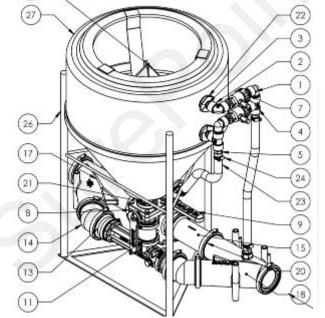
QuickDraw 30 Gallon Chem-Blade ES Eductor Kit - w/ 3" Bypass

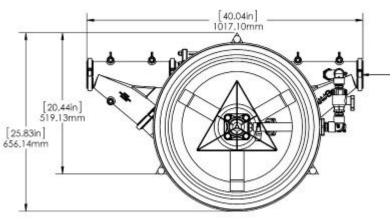
Replacement Parts

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1		3/4" Street Elbow - 90 Degree	2
2	100-075EL-90	3/4" Pipe Elbow - 90 Degree	2
3	100-075NIP-SH	3/4" Short Poly Nipple	6
4	100-075TEE	3/4" Poly Tee	2
5	101-075075	3/4" MPT x 3/4" HB	4
6	101-075075-90	3/4" MPT x 3/4" HB - 90 degree	4
7	102-075SUBV	3/4" Union Valve 2 Way	2
8	102-220MVSMTFP	2" Manifold x 2" MPT Valve	1
9	102-301MVCF	3" Manifold Full Port Poly Valve	1
10	105-200G-H	2" EPDM Manifold Gasket for 220 Series Manfiold Fittings	4
11	105-220CPG	2" x 2" Full Port Flange - 2-31/32" Long	1
12	105-220-3371- 0038R	2" Full Port Manifold Venturi, 11mm Nozzle, RH	1
13	105-300220CPG	3" x 2" Full Port Coupling	2
14	105-300CPG45	3" Full Port 45° Coupling	2
15	105-300CPG7	3" x 3" Full Port Flange Coupling, 7" Long	1
16	105-300G	3" EPDM Manifold Gasket	9
17	105-300Y45	3" Full Port 45° Y Flange	1
18	105-300YG45	3" Full Port 45° Y Flange w/ 3/4" Gauge Port	1
19	105-FC220	2" Full Port Manifold Clamp	4
20	105-FC300	3" Manifold Clamp	9
21	108-BF200BD	2" Bolted Tank Flange Bottom Drain	1
22	108-TF075	3/4" Tank Bung	3
23	280-AG200-075	3/4" AG200 Bulk - 60"	1
24	350-1208	SS Hose Clamp - Size 12 - 1-1/4" Diameter	6
25	399-CB0016	Chem-Blade for QuickDraw Induction System	1
26	727-29-INFD15ST	24 inch full drain inductor stand	1
27	727-05-IN0030-24	24" Inductor Tank - 30 Gallon	1



Assembled Dimensions







QuickDraw 30 Gallon Chem-Blade ES Eductor Kit - w/ 3" Bypass Operation Instructions

Chemical Jug Operation:

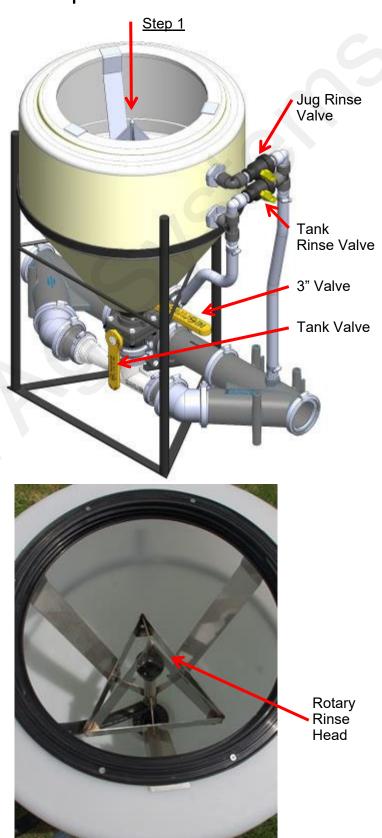
When setup in conjuction with QuickDraw, this process is typically executed during the "Manual Rinse Cycle" on QuickDraw^{MAX} or at anytime during loading with QuickDraw^{LITE}.

- 1. *Carefully* bring the chemical jug down onto the Chem-Blade ES, splitting the jug.
- 2. Close the lid and open the Jug Rinse Valve and water will flow through the rotary rinse head at the center of the blade to thoroughly rinse the inside of the jug.
- 3. Close 3" valve and open tank valve to pull product from the tank, through the venturi valve and onto the sprayer.
- 4. Close Jug Rinse Valve, open Tank Rinse Valve to clean the tank. After tank is evacuated, close rinse valves and tank valve. Open 3" valve to continue with full water flow.
- 5. Discard chemical jug properly.

Dry Product Operation:

- Unlike a chemical jug, a bag of dry product is not likely to need rinsed. Drop the bag(s) onto the Chem-Blade and shake remaining contents into the tank.
- Close the tank lid and open Jug rinse and Tank Rinse valves to create a slurry of the dry product and water, to ease with the transport through the venturi valve.
- 3. Open 2" valve and tank valve to pull product from the tank, through the venturi valve and into the QuickDraw.
- 4. After tank is evacuated, close rinse valves and tank valves.

Note: All water used for rinsing and mixing is still being measured by the QuickDraw automated spray tender system.





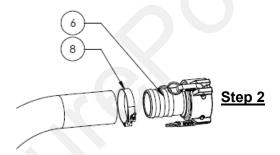
606-04-100100 QuickDraw 3" Sprayer Fill Hose Kit



Installation Instructions:

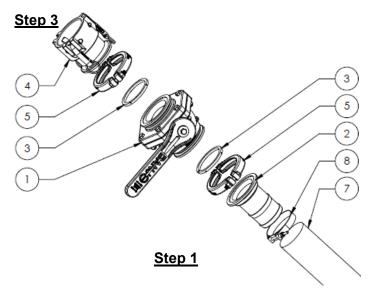
- 1. Assemble manifold parts as shown, be sure to properly align gaskets prior to tightening manifold clamps.
- 2. Connect 3" female coupler end to QuickDraw outlet.
- 3. Connect 3" female coupler with valve end to Sprayer fill fitting.

Note: If the sprayer fill coupling is mounted horizontal, use a 3" 45° elbow coupling between the female coupler and valve to alleviate the weight of the hose on the sprayer coupling.



Replacement Parts

ITEM NO.	PART NUMBER	DESCRIPTION	QTY ·
1	102-300MVSCFFP	3" Full Port Manifold Stubby Valve (3" thru ball)	1
2	105-300BRB	3" Manifold x 3" Hose Barb	1
3	105-300G-H	3" EPDM Manifold Gasket	1
4	105-303D	3" Flange x 3" Female coupler w/ 3 arms	1
5	105-FC300B	3" Bolted Flange Clamp	1
6	106-303C	3" Female Coupler w/ 3 Arms x 3" Hose Shank	1
7	280-300-ENF	3" Enforcer Fertlizer Solution Hose	25ft
8	350-TC343	Pressure Seal HD Clamp, Size 400 - 3.12 - 3.75" Diameter (fits 3" Enforcer)	2





606-04-XXXXXX Hose Reel Connection Kit

Do we need to create a plumbing/ harnessing kit for this?

Hose Reel Installation Instructions:

- 1. Typical dimensions for hose reel are 32" W x 42"L. Loaded weight (75' hose) is 500 lbs. Use manufacturer recommended bolts to fasten hose reel to trailer deck.
- 2. Connect 105-300BRBSWP90 (3" hose barb sweep) to the 3' flange inlet of the hose reel. Make sure gasket is aligned and tighten with manifold clamp.
- 3. Route 3" hose to the outlet of the QuickDraw.

4. Typically the hose reel is supplied with 50-75' of 3" enforcer hose. If customer is to supply the hose, slide the outlet hose onto the outlet hose reel barb fitting. Use a non-petroleum based lubricant to ease in installation.

5. Follow wiring instructions in 396-4238Y1 QuickDraw Master Wiring Instruction manual.

6. Follow manufacturers Owner's Manual for operation and maintenance instructions.



HRE300SS 3" Electric Hose Reel

Main Skid - 25-1/4"W x 42"L Use (4) 5/16"Ø Mounting Bolts (Requires 6-8" on left side for hose inlet plumbing) Weight: 500 lbs with 75' of 3" hose full of water

Revised: 5/24/2022

EZPROHR300 3" Electric Hose Reel

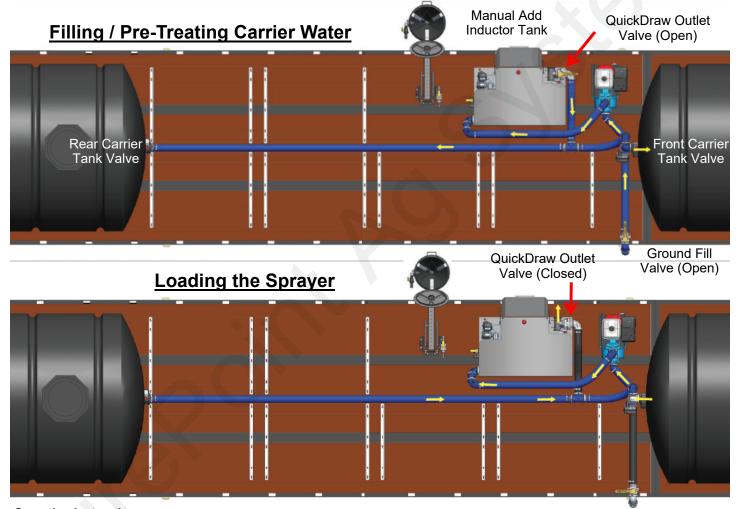
Main Skid - 25-1/4"W x 42"L Use (4) 5/16"Ø Mounting Bolts (Requires 6-8" on left side for hose inlet plumbing) Weight: 500 lbs with 75' of 3" hose full of water



QuickDraw Trailer 3" Plumbing Kit - 2 Carrier Tanks

Advantages:

- Use QuickDraw to load and measure water from ground storage into trailer tanks.
- Set total amount desired, and the QuickDraw will automatically stop the pump and close valves which means the tanks won't run
 over.
- Pre-treat water with AMS or other water conditioner when loading
 - Eliminate the need to haul AMS bags to the field
 - Minimize sprayer load time with pre-treated water
 - Mixing with pretreated water maximizes efficacy of spray solution
- With electric valves installed, the operator never needs to crawl up onto the trailer



Operation Instructions:

- 1. Connect water supply hose connection to the ground fill valve and open the valve.
- Open the valve on the outlet of the QuickDraw and also one or both tank valves to be filled.
- This plumbing allows the QuickDraw to create a water fill batch with either a manual addition of water treatment product through the inductor tank or out of a bulk storage container through a product valve. Set the desired gallons of water in and the QuickDraw will automatically load the water and shut off (with pump kill option) when the setpoint is achieved. For manually added water treatment product the QuickDraw will close the 3" transfer valve and open the 2" eductor valve to allow for the addition of product through the inductor tank and resume full 3" flow when finished. Note: Carrier tanks will likely not fill at the same rate from elevation head pressure. The user could create two separate batches or manually open/close valves as necessary to load.
- 4. When the carrier tanks are full, close the ground fill valve and open the desired carrier tank valve.
- 5. Then close the QuickDraw outlet valve so flow is directed to the sprayer. At this point the QuickDraw is ready to load a sprayer batch using whichever carrier water tank the operator has chosen.

Ground Fill

Valve (Closed)



QuickDraw Trailer 3" Plumbing Kit - 2 Carrier Tanks

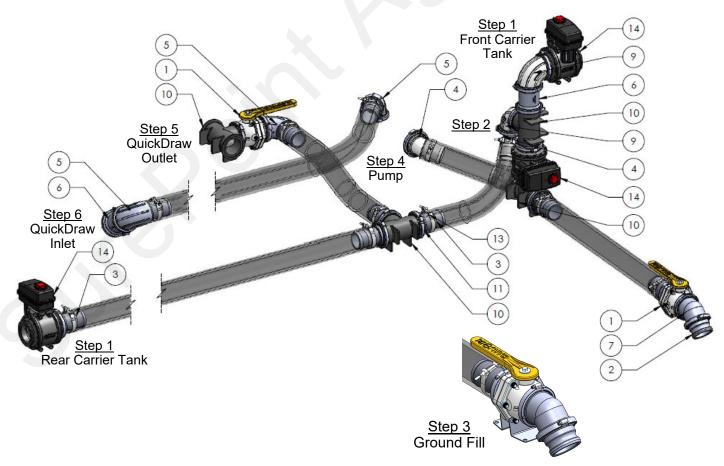
				-
ITEM NO.	PART NUMBER	DESCRIPTION	QTY	
1	102-300MVSCF	3" Manifold Stubby Valve (2 1/2" thru ball)	2*	
2	105-300A	3" Manifold x 3" Male Adapter	1	
3	105-300BRB	3" Manifold x 3" HB	8	,
4	105-300BRB45	3" Manifold x 3" HB - 45 Degree	3	9
5	105-300BRBSWP90	3" Manifold x 3" HB - 90 Degree Sweep	3	1
6	105-300CPG	3" Manifold Coupling	2	
7	105-300CPG45	3" Full Port 45° Coupling	2	
8	105-300CPG7	3" x 3" Full Port Flange Coupling, 7" Long	1	
9	105-300G	3" EPDM Manifold Gasket	30	2
10	105-300SWP90	3" Manifold Sweep - 90 Degree	3	
11	105-300TEE	3" Manifold Tee	3	
12	105-FC300	3" Manifold Clamp	30	3
13	280-300-ENF	3" Enforcer Fertlizer Solution Hose	75ft	
14	350-TC343	Pressure Seal HD Clamp, Size 400 - 3.12 - 3.75" Diameter (fits 3" Enforcer)	12	4
15	103-2417Y1	QuickDraw Valve, 300 Flange, 3" Thru Ball, WP Shroud	3*	5
16	102-200VBR-90	2" Mounting Bracket - 90 Degree	2	ا ا
17	105-300CPG7	3" x 3" Full Port Flange Coupling, 7" Long	2	
18	105-300MPT	3" Manifold x 3" MPT	2	؍ ا

^{*}The same function can be achieved with manual valves or electric valves. Electric valves are controlled with toggle switches and wired to the QuickDraw. Use add-on kit 606-04-100400 for electric valves and harness.

This parts list is meant to be a guide and starting point plumbing package for filling carrier tanks through the QuickDraw which provides a means to pre-treat the water. Not all fittings will be used

QuickDraw MAX Installation Instructions:

- Connect 3" manual or electric valve to the front and rear carrier tanks. In some cases, a new bung or 3" MPT x 3" manifold fitting will need to be installed. Make sure to properly align gaskets before tightening manifold clamps.
- Assemble front valve stack as shown. A combination or omission of fittings shown are provided to accommodate various deck height differences.
- Remove bolts from the 3" valve and use (2) 90° valve mounting brackets to secure the ground fill valve to the trailer deck
- Connect the hose barb fittings to the 3" manifold of the transfer pump.
- Connect the tee fitting to the QuickDraw outlet. Remove and re-locate the male manifold fitting normally provided on the QuickDraw outlet.
- Connect 90° sweep elbow fittings and coupler as required to route the hose behind the QuickDraw to the outlet of the pump.
- 7. Measure and cut provided 3" hose to length and connect all fittings as shown. Note: Pushing 3" hose onto hose barb fittings is very difficult. Use a non-petroleum based lubricant or soften the hose with hot water to ease with installation.

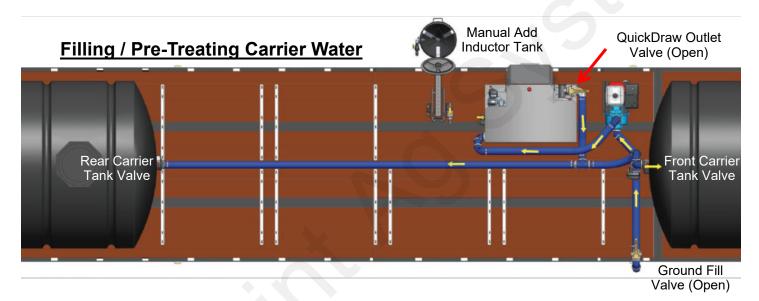




QuickDraw Trailer 3" Plumbing Kit - Single Carrier Tank

Operation Instructions:

- 1. Connect water supply hose connection to the ground fill valve and open the valve.
- 2. Open the valve on the outlet of the QuickDraw and also one or both tank valves to be filled.
- 3. This plumbing allows the QuickDraw to create a water fill batch with either a manual addition of water treatment product through the inductor tank or out of a bulk storage container through a product valve. Set the desired gallons of water in and the QuickDraw will automatically load the water and shut off (with pump kill option) when the setpoint is achieved. For manually added water treatment product the QuickDraw will close the 3" transfer valve and open the 2" eductor valve to allow for the addition of product through the inductor tank and resume full 3" flow when finished. Note: Carrier tanks will likely not fill at the same rate from elevation head pressure. The user could create two separate batches or manually open/close valves as necessary to load.
- 4. When the carrier tanks are full, close the ground fill valve and open the desired carrier tank valve.
- 5. Then close the QuickDraw outlet valve so flow is directed to the sprayer. At this point the QuickDraw is ready to load a sprayer batch using whichever carrier water tank the operator has chosen.





Page 26 © 2019-2022 SurePoint Ag Systems, Inc.



QuickDraw Trailer 3" Electric Valve Upgrade - 2 Carrier Tanks

QuickDraw^{LITE} Instructions:

- 1. With swing-down eductor in the lowered position, route 1-1/2" eductor outlet hose from the 1-1/2" venturi outlet to the QuickDraw^{LITE}. Remove cap and connect check valve to the tee. *Note: Check valve arrow should be pointing towards the tee*.
- 2. Route 1" eductor inlet hose from the rinse manifold of the QuickDraw^{LITE} and connect to swing-down eductor 1" valve.

С

Ν

С



QuickDraw Trailer 3" Electric Valve Upgrade - Single Carrier Tank

QuickDrawLITE Instructions:

- 1. With swing-down eductor in the lowered position, route 1-1/2" eductor outlet hose from the 1-1/2" venturi outlet to the QuickDraw^{LITE}. Remove cap and connect check valve to the tee. *Note: Check valve arrow should be pointing towards the tee*.
- 2. Route 1" eductor inlet hose from the rinse manifold of the QuickDraw^{LITE} and connect to swing-down eductor 1" valve.

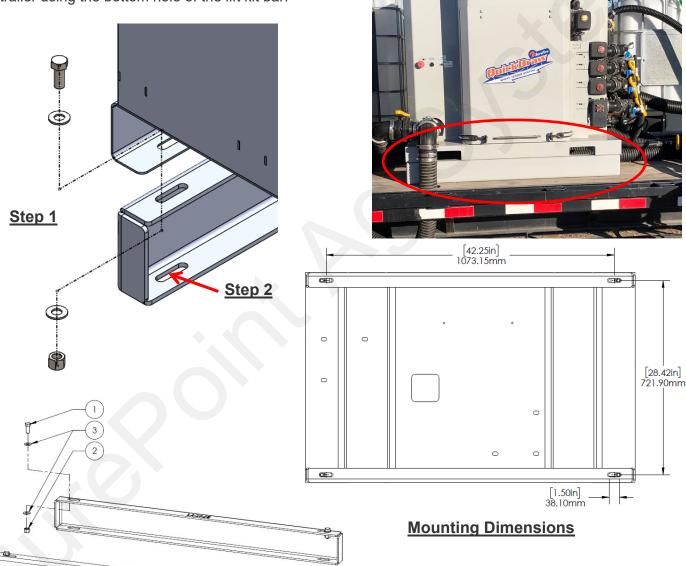


606-06-100100QuickDraw 5" Lift Kit

This kit is recommended on trailer decks less than 40" tall to achieve comfortable clearance to stand upright under the QuickDraw cabinet door. Without the 5" lift kit, QuickDraw mounted on a 40" tall deck will have open cabinet door clearance of 6'4".

Installation Instructions:

- 1. Use 1/2" bolts, washers, and nylock nuts to attach 5" lift kit bars to the QuickDraw as shown.
- 2. Position the QuickDraw on the trailer and bolt to the trailer using the bottom hole of the lift kit bar.



ITEM	PART NUMBER	DESCRIPTION	QTY
1	300-080108-5	1/2" x 1-1/4" Hex Head Bolt - G5	4
2	321-08	1/2" Nylock Nut	4
3	330-08	1/2" Flat Washer	8
4	475-3760Y1-GY	QuickDraw 5" Lift Bar	2



606-06-100300275 Gallon IBC Shuttle Tie Down Kit

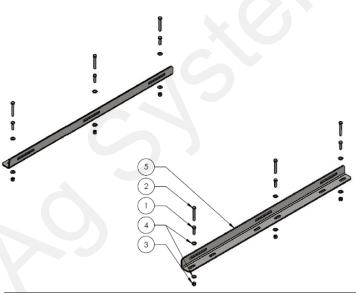
This kit is recommended to be able to strap/tie down 275 Gallon IBC tanks to the trailer deck.

Drilling in the trailer deck is required.

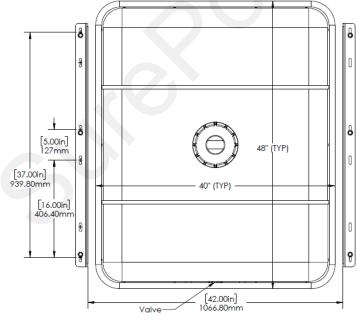
Installation Instructions:

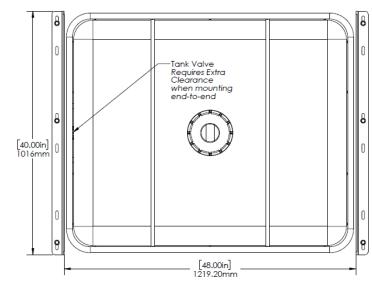
- 1. Lay out brackets and spacing for desired IBC Tank locations. Take location of trailer support beams, valve position and plumbing into consideration when laying out the trailer.
- 2. Fasten brackets to trailer deck using the provided hardware. Two lengths of bolts are provided for flexibility. In some cases, where support beams interfere, self drilling screws may need to be used in lieu of provided hardware.





ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	300-060104-5	3/8" x 1-1/4" Hex Head Bolt - G5	6
2	300-060208-5	3/8" x 2-1/2" Hex Head Bolt - G5	6
3	321-06	3/8" Nylock Nut	6
4	330-06	3/8" Flat Washer	12
5	475-3745Y1-BK	275 Gallon IBC Tank Tie Down Bracket	2



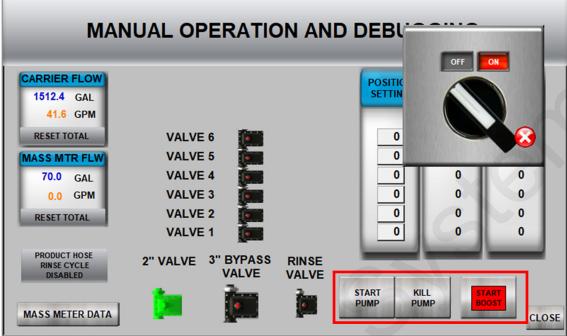


396-4233Y1 - QuickDraw Trailer Setup Manual

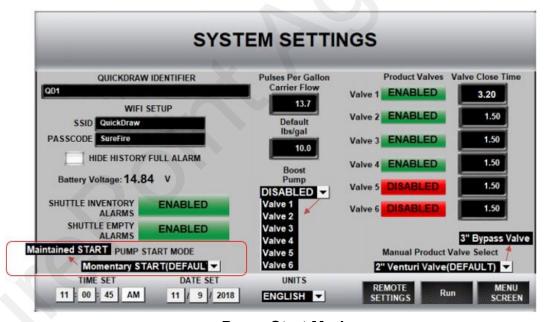
Page 30 © 2019-2022 SurePoint Ag Systems, Inc.



Controller Setup for Pumps



The Manual Controls Screen allows the user to start/kill the transfer pump or start/kill the boost pump when outside of running a batch.



Pump Start Mode:

Momentary - The output is enabled for 3 seconds when the batch start is pressed Maintained - The output is constant for the duration of the batch

For Hydraulic pumps, the pump start mode should be set to **Maintained START**. For electric motors, depending on the electrical wiring and customer provided motor control center, either option may be selected. When using a start-stop push-button setup, **Momentary START** should be selected.

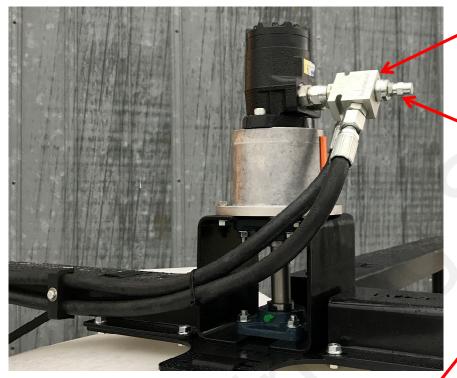
Boost Pump:

Choose **DISABLED** if no boost pump is present, or select the product valve the boost pump is connected to. Typically the 2" full ported Valve 1 is used for boost pump applications.



QuickDraw Hydraulic Agitator Motor

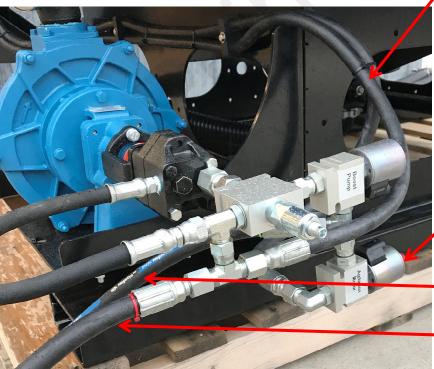
Eaton T-Series 158-1537-001 4CID Hydraulic Motor



P/N: 166-7024280 Hydraulic Valve Housing, Basic 2 Port Line Body

P/N: 166-NV10-22C-O-N H/F NV10-22C-O-N Needle valve for hydraulic PWM motor (Allen wrench adjustment for impeller RPM control)

Hydraulic Pressure/Tank hoses routed to agitation motor on top of



Agitation Motor Solenoid (Controlled by On/Off Toggle Switch in QuickDraw Cabinet)

Pressure (Female Pioneer Cou-Tank/Return Line, (Male Pioneer Coupler)

396-4233Y1 - QuickDraw Trailer Setup Manual

Page 32 © 2019-2022 SurePoint Ag Systems, Inc.



QuickDraw Hydraulic Drive 3" Transfer Pump

CDS-John Blue - SP-3345-PHL

3" Self-Priming Pump w/ Low Flow 14GPM,1500psi Hydraulic Motor



Hydraulic Pressure

Spin Down Circuit P/N: 136-01-C600SS 3/8" FPT SS Check Valve w/ Nitrile (NBR) Seal - 5 PSI Cracking - 5000 **PSI Max**

Hydraulic Return/Tank



Revised: 5/24/2022

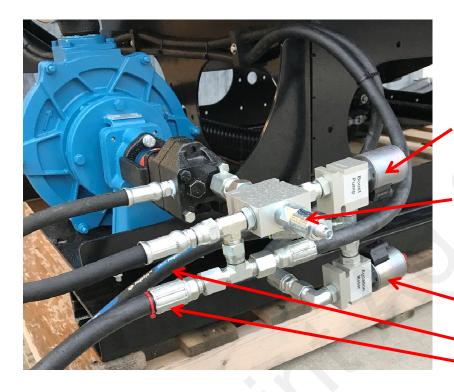
Transfer Pump Solenoid Valve Assembly

This pump is equipped with a case drain that must be connected prior to operation.



QuickDraw Hydraulic Boost Pump

CDS-John Blue - SP-3240-PH
2" Self-Priming Pump w/ 6gpm, 1000psi Hydraulic Motor



2" Boost Pump Motor Solenoid

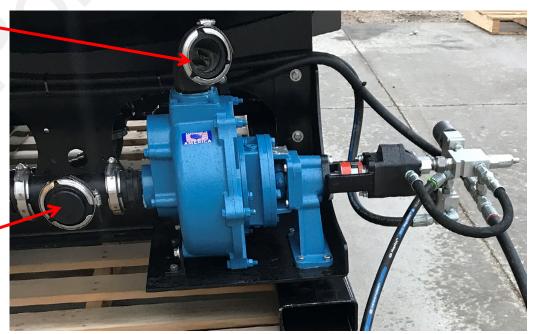
Pressure Reducing/Relief Valve, set to 1000psi

PRV: P/N PR10-36A-0-N-30 3 Way Body: P/N 7024380

Agitation Motor Solenoid

Pressure (Female Pioneer Coupler) Tank/Return Line, (Male Pioneer Coupler)

Pump outlet, connect 2" hose to Product 1 of **OuickDraw**



Port for tank water fill, connection.

396-4233Y1 - QuickDraw Trailer Setup Manual

Page 34 © 2019-2022 SurePoint Ag Systems, Inc.