396-2938Y1
Sentinel™ Flowmeter Module Mounting Bracket and Plumbing Kit Installation Instructions

SENTINEL
LIQUID ROW MONITOR
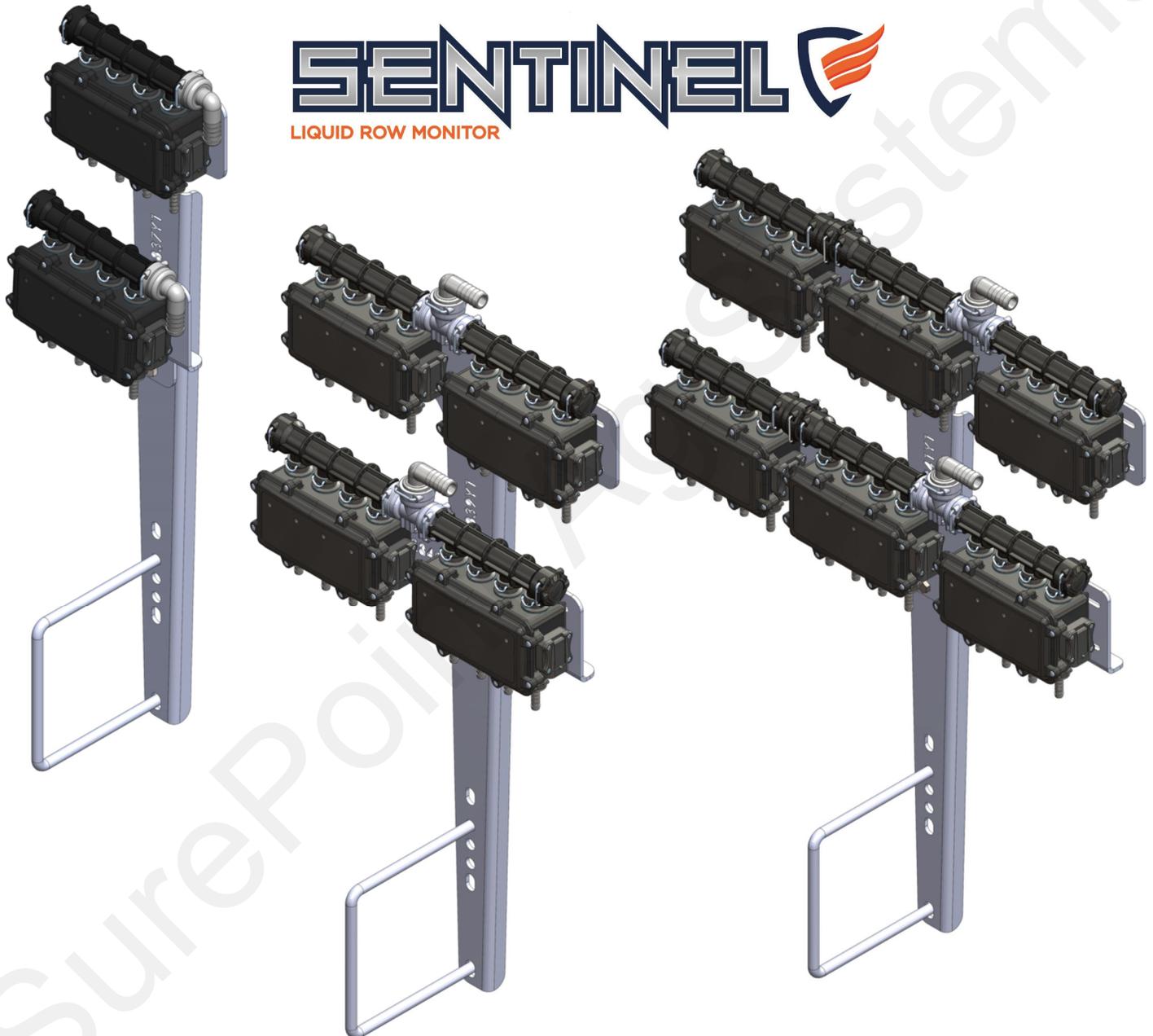
Kit Number:
515-02-100201: 4 Row Sentinel™ Flowmeter Mounting Bracket
515-02-100202: 8 Row Sentinel™ Flowmeter Mounting Bracket
515-02-100203: 12 Row Sentinel™ Flowmeter Mounting Bracket

(Plumbing fittings shown may vary)

Mounting Bracket Parts List

Standard Mounting Bracket Kits
Use with Add-On brackets (page 5) or Dual Check Valve Mounting Brackets

Kit Number: 515-02-100201
Kit Description: 4 Row Sentinel™ Flowmeter Module Mounting Bracket

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	400-4959Y1-BK	Sentinel™ Flowmeter Module Mounting Bracket - 4 Row	1
2	380-XXXX	Square Bend U-Bolt Kit	1

Kit Number: 515-02-100202
Kit Description: 8 Row Sentinel™ Flowmeter Module Mounting Bracket

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	400-5207Y1-BK	Sentinel™ Flowmeter Module Mounting Bracket - 8 Row	1
2	380-XXXX	Square Bend U-Bolt Kit	1

Kit Number: 515-02-100203
Kit Description: 12 Row Sentinel™ Flowmeter Module Mounting Bracket

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	400-5208Y1-BK	Sentinel™ Flowmeter Module Mounting Bracket - 12 Row	1
2	380-XXXX	Square Bend U-Bolt Kit	1

Low-Profile Mounting Bracket Kits
Use when mounting individual check valve at the row
(Bracket has no additional mounting capability)

Kit Number: 515-02-200201
Kit Description: 4 Row Sentinel™ Flowmeter Low-Profile Mounting Bracket

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	400-3982Y1-BK	Low-Profile Sentinel™ Flowmeter Module Mounting	1
2	380-XXXX	Square Bend U-Bolt Kit	1

Kit Number: 515-02-200202
Kit Description: 8 Row Sentinel™ Flowmeter Low-Profile Mounting Bracket

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	400-3983Y1-BK	Low-Profile Sentinel™ Flowmeter Module Mounting	1
2	380-XXXX	Square Bend U-Bolt Kit	1

Kit Number: 515-02-200203
Kit Description: 12 Row Sentinel™ Flowmeter Low-Profile Mounting Bracket

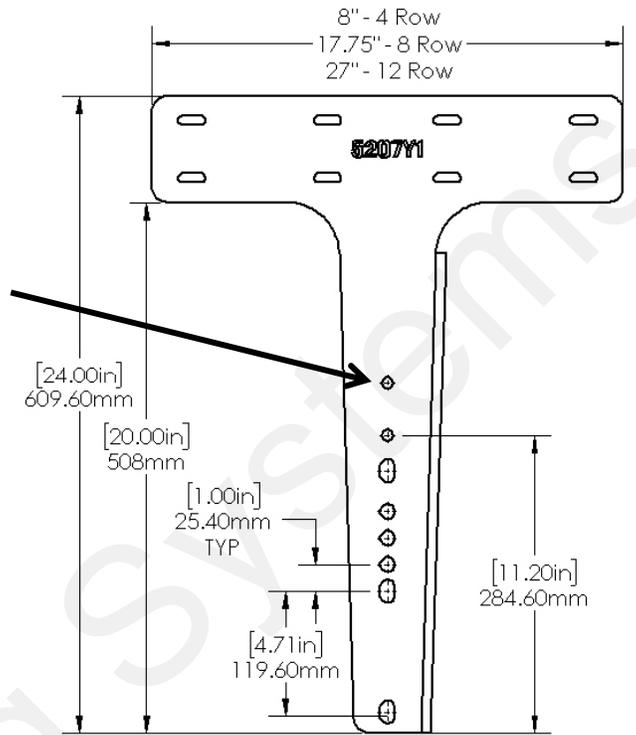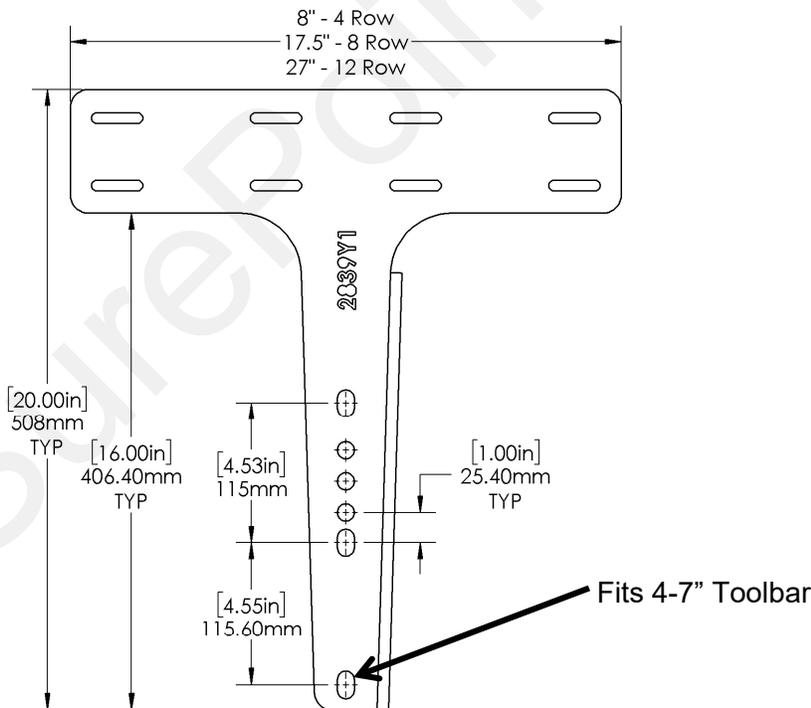| ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	400-3984Y1-BK	Low-Profile Sentinel™ Flowmeter Module Mounting Bracket - 12 Row	1
2	380-XXXX	Square Bend U-Bolt Kit	1

Mounting Bracket Dimensions

Standard Mounting Bracket Kits
Use with Add-On brackets (page 5) or Dual Check Valve Mounting Brackets

8" - 4 Row
17.75" - 8 Row
27" - 12 Row

5207Y1

Add-On brackets (page 5) or Dual Check
Valve Mounting Bracket holes

[24.00in]
609.60mm

[20.00in]
508mm

[1.00in]
25.40mm
TYP

[4.71in]
119.60mm

[11.20in]
284.60mm

Low-Profile Mounting Bracket Kits
Use when mounting individual check valve at the row
(Bracket has no additional mounting capability)

8" - 4 Row
17.5" - 8 Row
27" - 12 Row

2039Y1

[20.00in]
508mm
TYP

[16.00in]
406.40mm
TYP

[4.53in]
115mm

[1.00in]
25.40mm
TYP

[4.55in]
115.60mm

Fits 4-7" Toolbar

Step by Step Instructions

1. Attach T-Bracket to implement frame using included U-bolt and check for clearance.

2. Insert head of 5/16" bolts into flowmeter integrated holes as shown.

3. Attach Sentinel™ Flowmeter Module to T-Bracket and tighten flange nuts as shown. Do not to overtighten.

Note: 5/16" bolts and flange nuts are included with separate flowmeter kit.
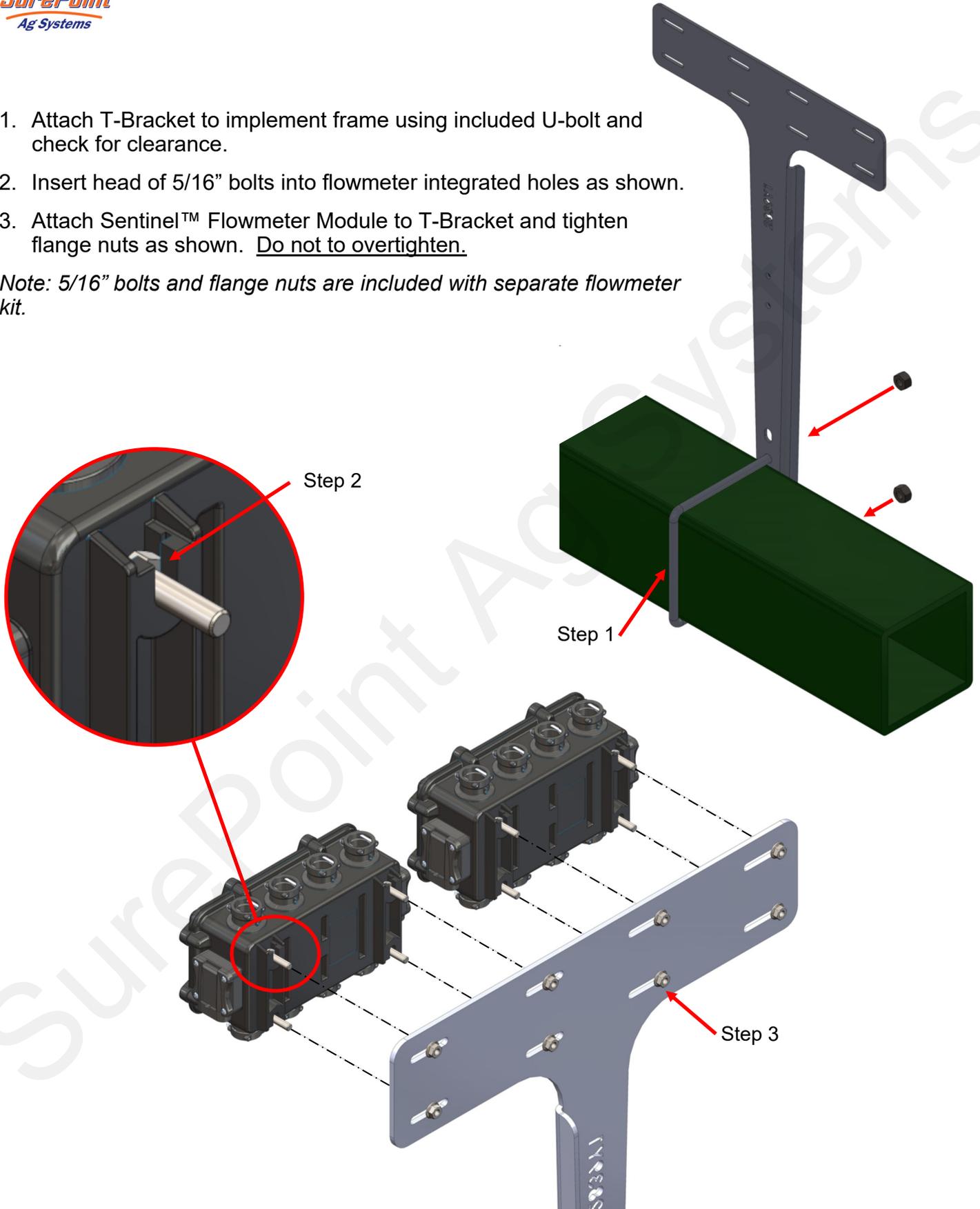
Step 2

Step 1

Step 3

Kit Description: Additional Flowmeter Mounting Bracket Kit - 4 Row
Kit Number: 515-02-100701

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	400-2838Y1	Additional Sentinel™ Flowmeter Module Mounting Bracket - 4 Row	1
2	300-060100-5	3/8" x 1" Hex Head Bolt - G5	2
3	323-06	3/8" Flange Nut	2

Kit Description: Additional Flowmeter Mounting Bracket Kit - 8 Row
Kit Number: 515-02-100702

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	400-2840Y1	Additional Sentinel™ Flowmeter Module Mounting Bracket - 8 Row	1
2	300-060100-5	3/8" x 1" Hex Head Bolt - G5	2
3	323-06	3/8" Flange Nut	2

Kit Description: Additional Flowmeter Mounting Bracket Kit - 12 Row
## Kit Number: 515-02-100703

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	400-2842Y1	Additional Sentinel™ Flowmeter Module Mounting Bracket - 12 Row	1
2	300-060100-5	3/8" x 1" Hex Head Bolt - G5	2
3	323-06	3/8" Flange Nut	2

Mounting Instructions:

These same instructions apply to all sizes/kits.

1. Attach additional flowmeter mounting bracket to T-Bracket using 3/8" bolts, washers and nylock nuts as shown.

2. Attach Sentinel™ Flowmeter to additional bracket and tighten flange nuts. (Step 3, Page 3)

Note: 3/8" bolts and flange nuts are included with separate flowmeter kit.
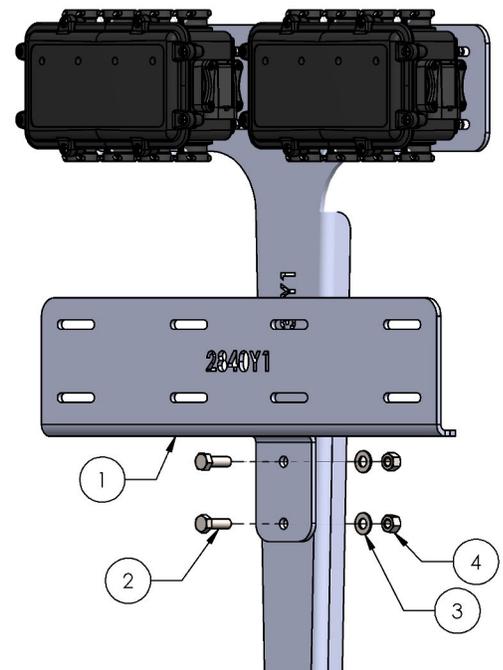
Plumbing Kit Parts List
Single Flowmeter Module

Kit Number: 515-00-010100
  Kit Description: Single Flowmeter - 1/4" QC Outlet
Kit Number: 515-00-010200
  Kit Description: Single Flowmeter - 3/8" QC Outlet
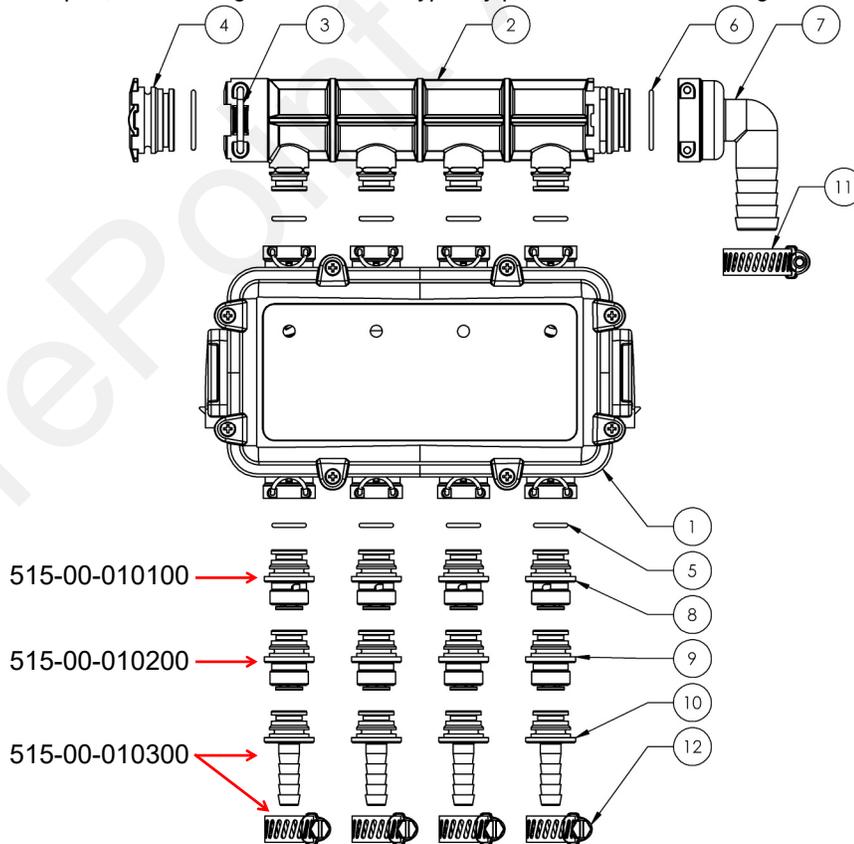**Kit Number: 515-00-010300**
  Kit Description: Single Flowmeter - 3/8" HB Outlet

Note: Kit numbers listed and parts list are for retrofit kits. New system kits will be almost identical, but will include all parts required for a full system installation.

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	204-01-4625AAGB1B1	Sentinel™ Flowmeter Module	1
2	120-T3MT3F-4XT1M	T3 Male/Female Manifold w/ (4)T1 Male Outlets	1
3*	124-02-010003	T3 Fork	2
4	120-T3MPLUG	T3 Male FC Plug	1
5*	124-01-G11056-V	Viton O-Ring for T1 fittings	8
6*	124-01-G11058-V	Viton O-Ring for T3 fittings	2
7	121-T3F075-90	T3 Female FC x 3/4" HB - 90 Degree	1
8	120-T1M025QC	T1 Male x 1/4" QC	4
9	120-T1M038QC	T1 Male x 3/8" QC	4
10	121-T1M038	T1 Male FC x 3/8" HB	4
11	350-1208	SS Hose Clamp - Size 12 - 1-1/4" Diameter	1
12	350-0605	SS Hose Clamp - Size 6 - 7/8" Diameter	4
13	384-1105	Hardware Kit - 5/16" x 1" Bolt & Flange Nuts	1

* Replacement part, Viton O-rings and forks are typically pre-installed on the fitting.

Plumbing Kit Parts List
Dual Flowmeter Module

Kit Number: 515-00-020100
    Kit Description: Dual Flowmeter - 1/4" QC Outlet
Kit Number: 515-00-020200
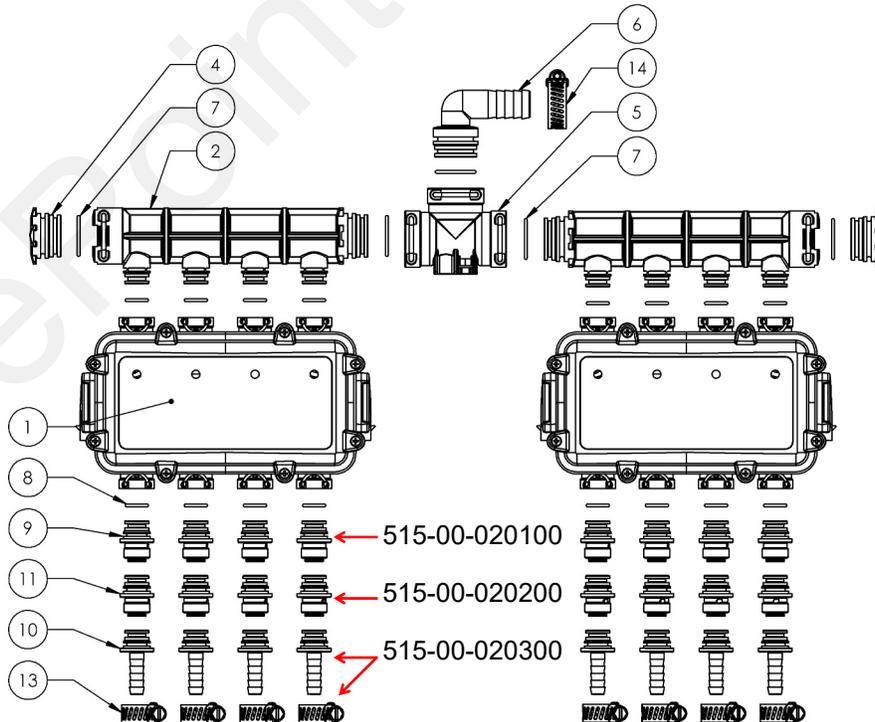   **Kit Description: Dual Flowmeter - 3/8" QC Outlet**
Kit Number: 515-00-020300
    Kit Description: Dual Flowmeter - 3/8" HB Outlet

Note: Kit numbers listed and parts list are for retrofit kits. New system kits will be almost identical, but will include all parts required for a full system installation.

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	204-01-4625AAGB1B1	Sentinel™ Flowmeter Module	2
2	120-T3MT3F-4XT1M	T3 Male/Female Manifold w/ (4)T1 Male Outlets	2
3*	124-02-010003	T3 Fork	5
4	120-T3MPLUG	T3 Male FC Plug	2
5	120-T3FTEE	T3 Tee	1
6	121-T3M075-90	T3 Male FC x 3/4" HB - 90 degree	1
7*	124-01-G11058-V	Viton O-Ring for T3 fittings	5
8*	124-01-G11056-V	Viton O-Ring for T1 fittings	16
9	120-T1M025QC	T1 Male x 1/4" QC	8
10	121-T1M038	T1 Male FC x 3/8" HB	8
11	120-T1M038QC	T1 Male x 3/8" QC	8
12	384-1105	Hardware Kit - 5/16" x 1" Bolt & Flange Nuts	2
13	350-0605	SS Hose Clamp - Size 6 - 7/8" Diameter	8
14	350-1208	SS Hose Clamp - Size 12 - 1-1/4" Diameter	1

* Replacement part, Viton O-rings and forks are typically pre-installed on the fitting.

Plumbing Kit Parts List
Triple Flowmeter Module

Kit Number: 515-00-030100
Kit Description: Triple Flowmeter - 1/4" QC Outlet
Kit Number: 515-00-030200
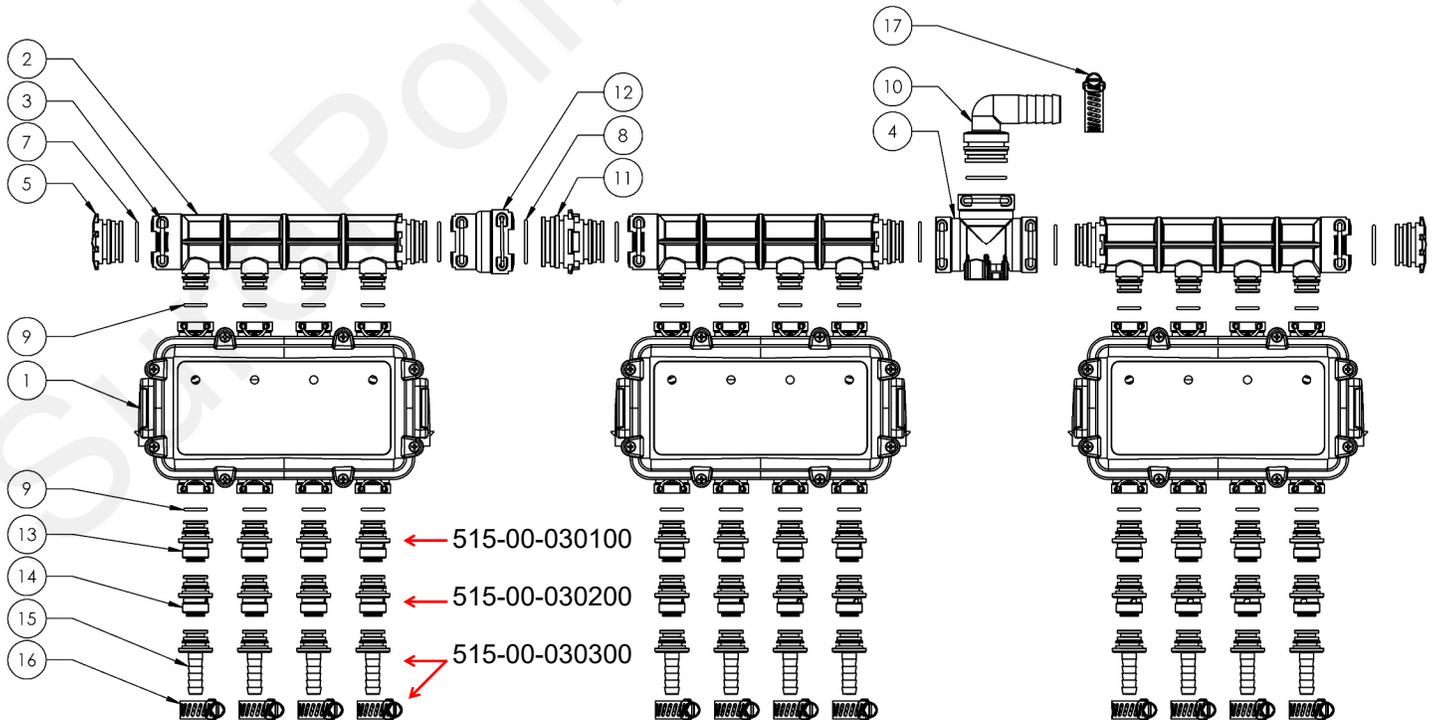**Kit Description: Triple Flowmeter - 3/8" QC Outlet**
Kit Number: 515-00-030300
Kit Description: Triple Flowmeter - 3/8" HB Outlet

Note: Kit numbers listed and parts list are for retrofit kits. New system kits will be almost identical, but will include all parts required for a full system installation.

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	204-01-4625AAGB1B1	Sentinel™ Flowmeter Module	3
2	120-T3MT3F-4XT1M	T3 Male/Female Manifold w/ (4)T1 Male Outlets	3
3*	124-02-010003	T3 Fork	7
4	120-T3FTEE	T3 Tee	1
5	120-T3MPLUG	T3 Male FC Plug	2
6*	124-02-010004	T4 Fork	1
7*	124-01-G11058-V	Viton O-Ring for T3 fittings	7
8*	124-01-G11054-V	Viton O-Ring for T4 fittings	1
9*	124-01-G11056-V	Viton O-Ring for T1 fittings	24
10	121-T3M075-90	T3 Male FC x 3/4" HB - 90 degree	1
11	120-T4MT3MRN	T4 Male x T3 Male FC Reducer Nipple	1
12	120-T4FT3FRC	T4 Female x T3 Female FC Reducer Coupling	1
13	120-T1M025QC	T1 Male x 1/4" QC	12
14	120-T1M038QC	T1 Male x 3/8" QC	12
15	121-T1M038	T1 Male FC x 3/8" HB	12
16	350-0605	SS Hose Clamp - Size 6 - 7/8" Diameter	12
17	350-1208	SS Hose Clamp - Size 12 - 1-1/4" Diameter	1
18	1384-1105	Hardware Kit - 5/16" x 1" Bolt & Flange Nuts	3

* Replacement part, Viton O-rings and forks are typically pre-installed on the fitting.

515-00-030100
515-00-030200
515-00-030300

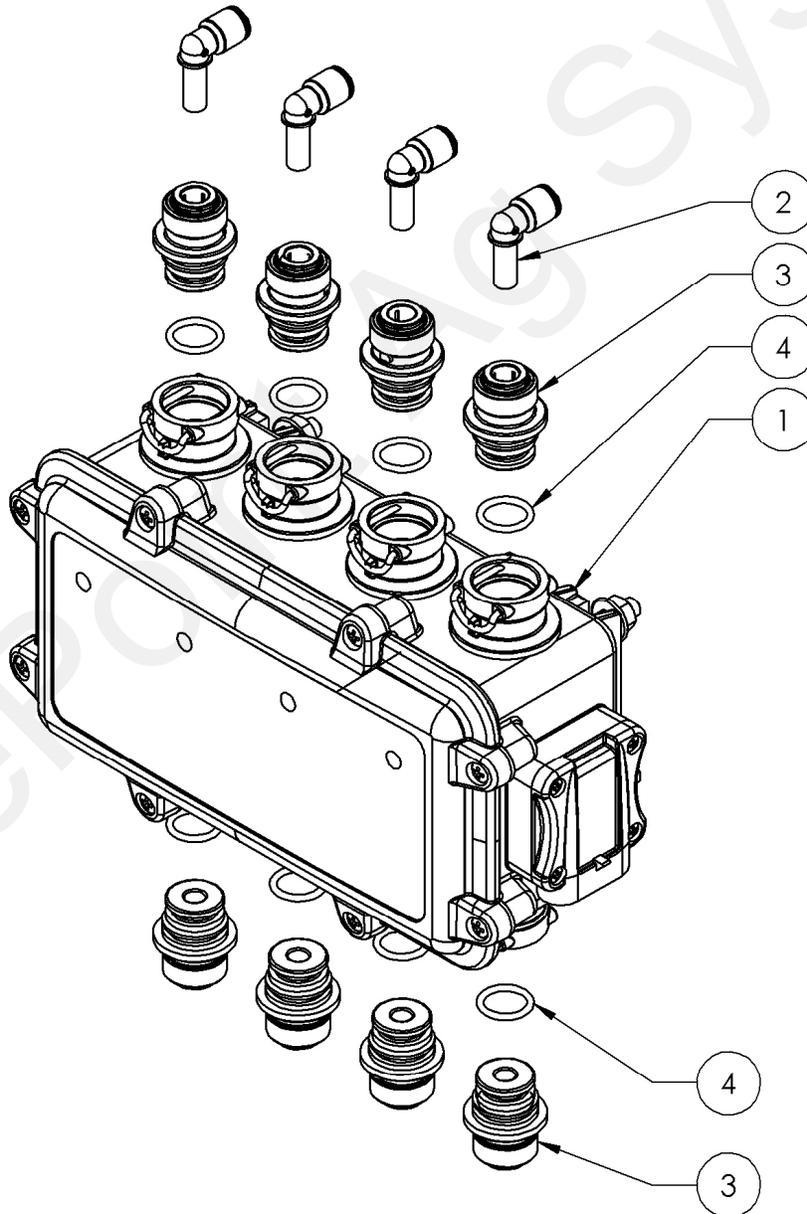# *Plumbing Kit Parts List*
Single Row Kits

Kit Number: 515-00-100100

Kit Description: Sentinel Flowmeter Kit with 1/4" QC Inlet and Outlet

Note: Kit numbers listed and parts list are for retrofit kits. New system kits will be almost identical, but will include all parts required for a full system installation.

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	204-01-4625AAGB1B1	Sentinel™ Flowmeter Module	1
2	113-02-025025	Stem Elbow - 1/4" Stem x 1/4" QC	4
3	120-T1M025QC	T1 Male x 1/4" QC	8
4*	124-01-G11056-V	Viton O-Ring for T1 fittings	16*
5	384-1105	Hardware Kit - 5/16" x 1" Bolt & Flange Nuts	2

* Replacement part, Viton O-rings and forks are typically pre-installed on the fitting.
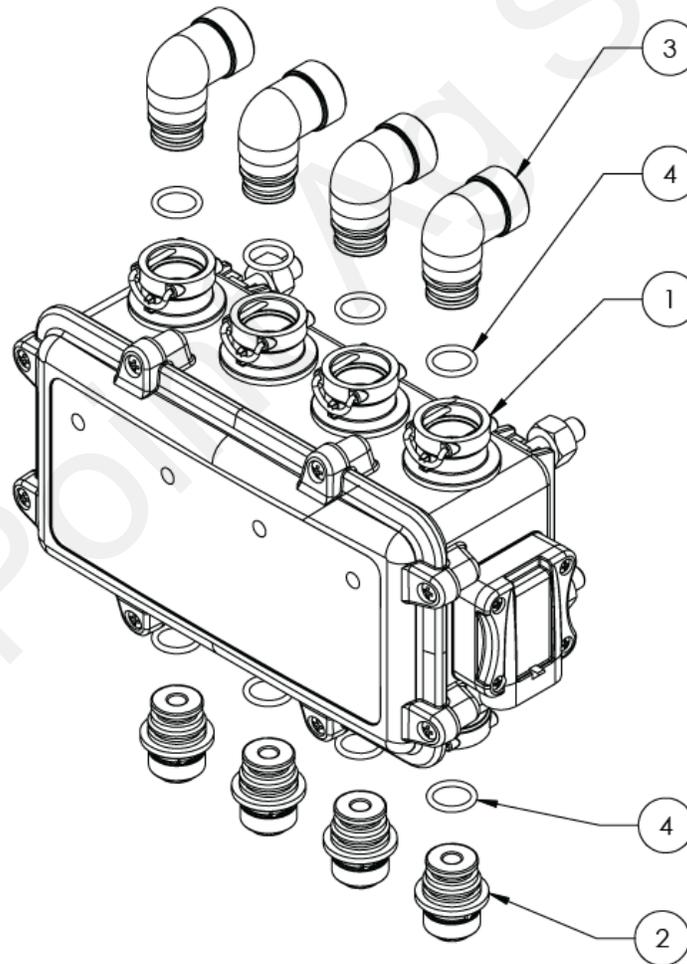
Plumbing Kit Parts List
Single Row Kits

Kit Number: 515-00-100200
Kit Description: Sentinel Flowmeter Kit with 3/8" QC Inlet and Outlet
Note: Kit numbers listed and parts list are for retrofit kits. New system kits will be almost identical, but will include all parts required for a full system installation.

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	204-01-4625AAGB1B1	Sentinel™ Flowmeter Module	1
2	120-T1M038QC	T1 Male x 3/8" QC	4
3	120-T1M038QC-90	T1 Male x 3/8" QC - 90 Degree	4
4*	124-01-G11056-V	Viton O-Ring for T1 fittings	16
5	384-1105	Hardware Kit - 5/16" x 1" Bolt & Flange Nuts	2

* Replacement part, Viton O-rings and forks are typically pre-installed on the fitting.
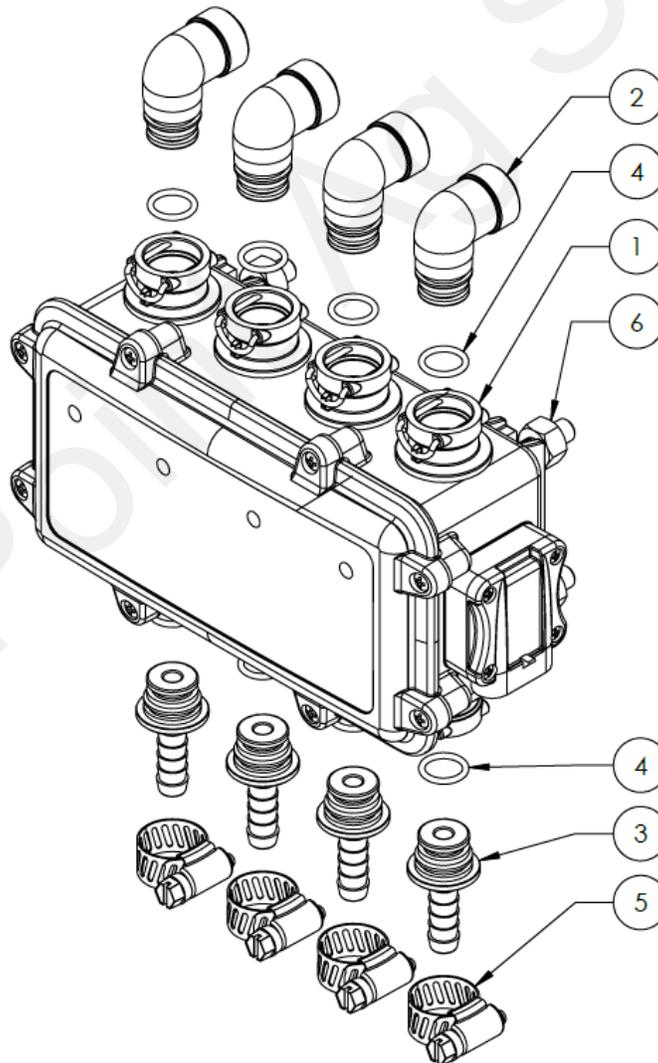
Plumbing Kit Parts List
Single Row Kits

Kit Number: 515-00-100250

Kit Description: Sentinel Flowmeter Kit with 3/8" QC Inlet and 3/8" HB Outlet

Note: Kit numbers listed and parts list are for retrofit kits. New system kits will be almost identical, but will include all parts required for a full system installation.

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	204-01-4625AAGB1B1	Sentinel™ Flowmeter Module	1
2	120-T1M038QC-90	T1 Male x 3/8" QC - 90 Degree	4
3	121-T1M038	T1 Male FC x 3/8" HB	4
4*	124-01-G11056-V	Viton O-Ring for T1 fittings	8
5	350-0605	SS Hose Clamp - Size 6 - 7/8" Diameter	4
6	384-1105	Hardware Kit - 5/16" x 1" Bolt & Flange Nuts	1

* Replacement part, Viton O-rings and forks are typically pre-installed on the fitting.

Plumbing Kit Parts List
Single Row Kits

Kit Number: 515-00-100300
Kit Description: Sentinel Flowmeter Kit with 3/8" HB Inlet and Outlet
Note: Kit numbers listed and parts list are for retrofit kits. New system kits will be almost identical, but will include all parts required for a full system installation.

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	204-01-4625AAGB1B1	Sentinel™ Flowmeter Module	1
2	113-01-038038	3/8" Stem x 3/8" HB	4
3	120-T1M038QC-90	T1 Male x 3/8" QC - 90 Degree	4
4	121-T1M038	T1 Male FC x 3/8" HB	4
5*	124-01-G11056-V	Viton O-Ring for T1 fittings	8
6	350-0605	SS Hose Clamp - Size 6 - 7/8" Diameter	4
7	384-1105	Hardware Kit - 5/16" x 1" Bolt & Flange Nuts	1

* Replacement part, Viton O-rings and forks are typically pre-installed on the fitting.