

Set-Up Instructions

for

EC-VM401

and

EC-TM401

Motorized Valves

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Spraying Devices, Inc.

P. O. Box 3107,

Visalia, CA. 93278-3107, USA

Tel: (559)734-5555, Fax: (559)734-5591

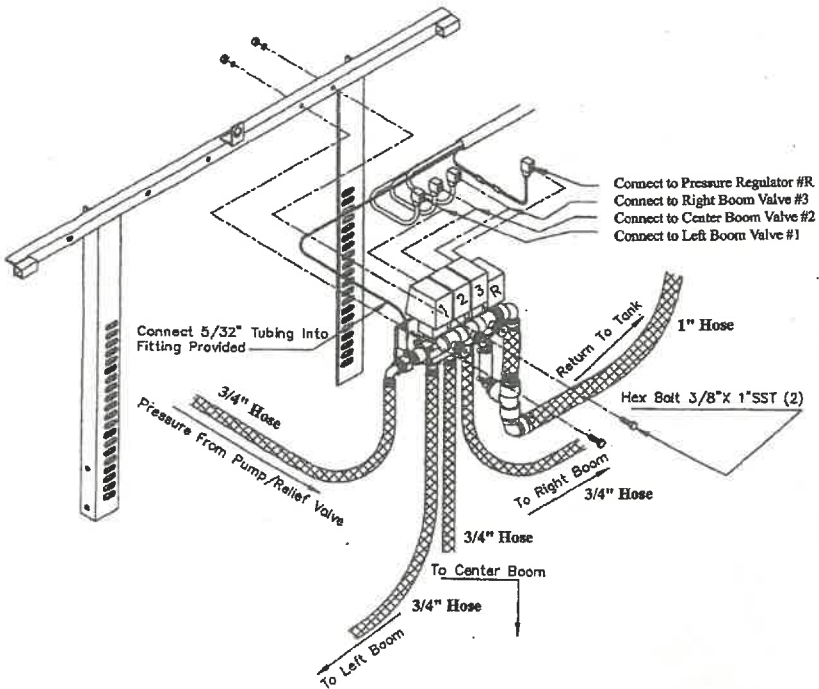
Email: sales@sprayingdevices.com

www.sprayingdevices.com



SDI Set-Up Diagram

Not Sure



SDI Set-Up Instructions

Step 1:

Bolt Valve Assembly, Part #18-300, onto cross member of boom using 3/8 x 1" bolts, lock washers and nuts (supplied).

Note: *If boom has adjustable channel cross angle, use 3/8" adjustable channel nuts (supplied).*

Step 2:

Install D.I.N. connectors from wiring loom using water resistant D.I.N. connector gasket and screws included in the #18-200 kit, to Motorized Valves and Pressure Regulator.

Note: *Using EC-VM401, use wiring harness included in the 18-300 Kit and route to desired control mounting location.*

Step 3:

Plug 5/32" tubing into tubing adapter located next to valve #1.

Step 4:

Install ball valve and 3/4" hose barb adapter elbow (included in #18-300 kit), to pump outlet. Run 3/4" hose (cut to desired length), from pump to inlet on the Motorized Valve.

Step 5:

Remove 1" plug from return fitting on tank. Install 1" hose barb elbow to return fitting.

Step 6:

Install bypass return hose from 1" hose barb elbow on Motorized Valves to 1" elbow on tank.

Step 7:

Cut 3/4" hose to length and install from valves to boom inlet adapters (allow extra length on outer wing sections to allow for breakaway capabilities).

Step 8:

Install Control Box to Control Mount.

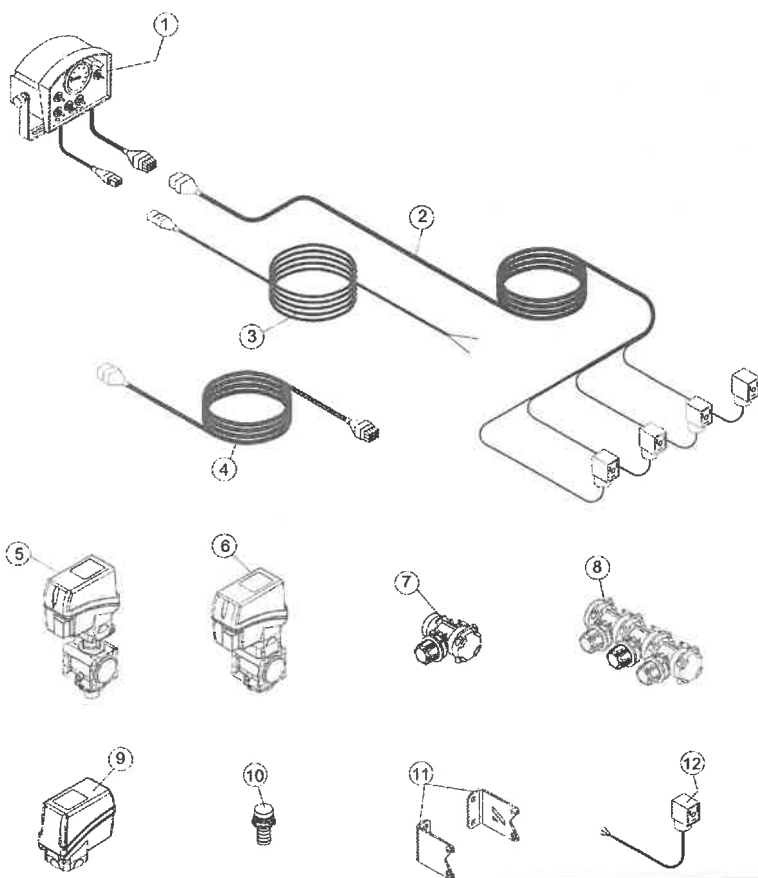
Using Control Box for 18-310, plug harness into back of Control Box, install power lead and connect to battery, brown wire (+) positive, blue wire (-) ground.

Step 9:

Install 5/32" tubing into adapter on Control Box.

SDI Control Box Accessories

<u>Item No.</u>	<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
1	56-5031	Control Box	1
2	56-5041	Control Harness 17 Ft.	1
3	61-645	Power Harness 8.5 Ft.	1
4	56-5081	Extension Harness 10 Ft.	1
5	56-801	Motorized Valve 2-3 Wire	1
6	56-802	Pressure Regulator Valve	1
7	56-4991	One Metered By Pass Valve	1
8	56-499	Three Metered By Pass Valves	1
9	56-814	Motorized Valve Head	1
10	56-105	Hose Barb Fitting 3/4 In x T4	1
11	56-505	Valve Mounting Brackets	2
12	56-536	D.I.N. Connector 2-3 Wire	1



Setting Pressure for Motorized Controls

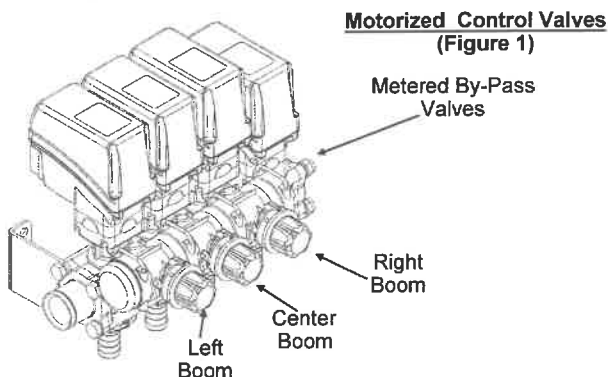
The following instructions are designed to assist you with the proper setting and testing of your Motorized Control Unit.

For models with a diaphragm pump:

1. Shut off ball valve to boom.
2. Set manual relief valve to 70-80 PSI (*this is used mainly as a safety valve and will not operate below that pressure*).
3. Open ball valve to booms.

For all models (*for centrifugal pump models, the first three steps are not required*):

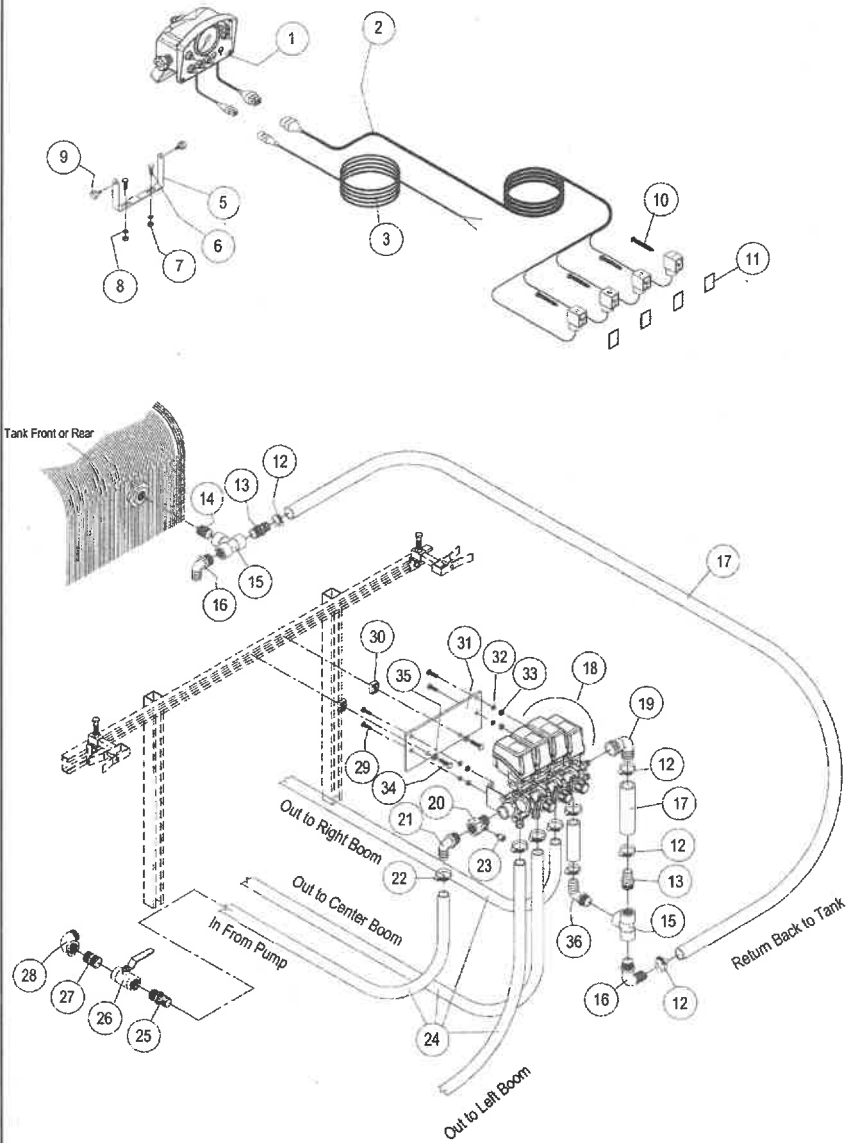
4. Close all three (3) **Metered Bypass Valves** (red knobs), by turning knobs in a clockwise direction as far as they will go (Figure 1).
5. Open all three (3) sections of the boom from the **Control Panel**. Set desired operating pressure using electric **Control Switch** on the **Control Panel**. To set the **Metered Bypass Valve**, close one (1) boom section at a time. Then open the **Metered Bypass Valve** for that boom section until the desired operating pressure is achieved.



Example: Desired pressure is 40 PSI—To set **Metered Bypass Valve**:

- A. Shut left boom section off on the Control Panel.
 - B. Pressure will read more than 40 PSI.
 - C. Using left Metered Bypass Valve, open valve until operating pressure returns to 40 PSI.
6. **Repeat** the above procedure for the **center and right boom sections**, making sure the other two (2) boom sections are open.

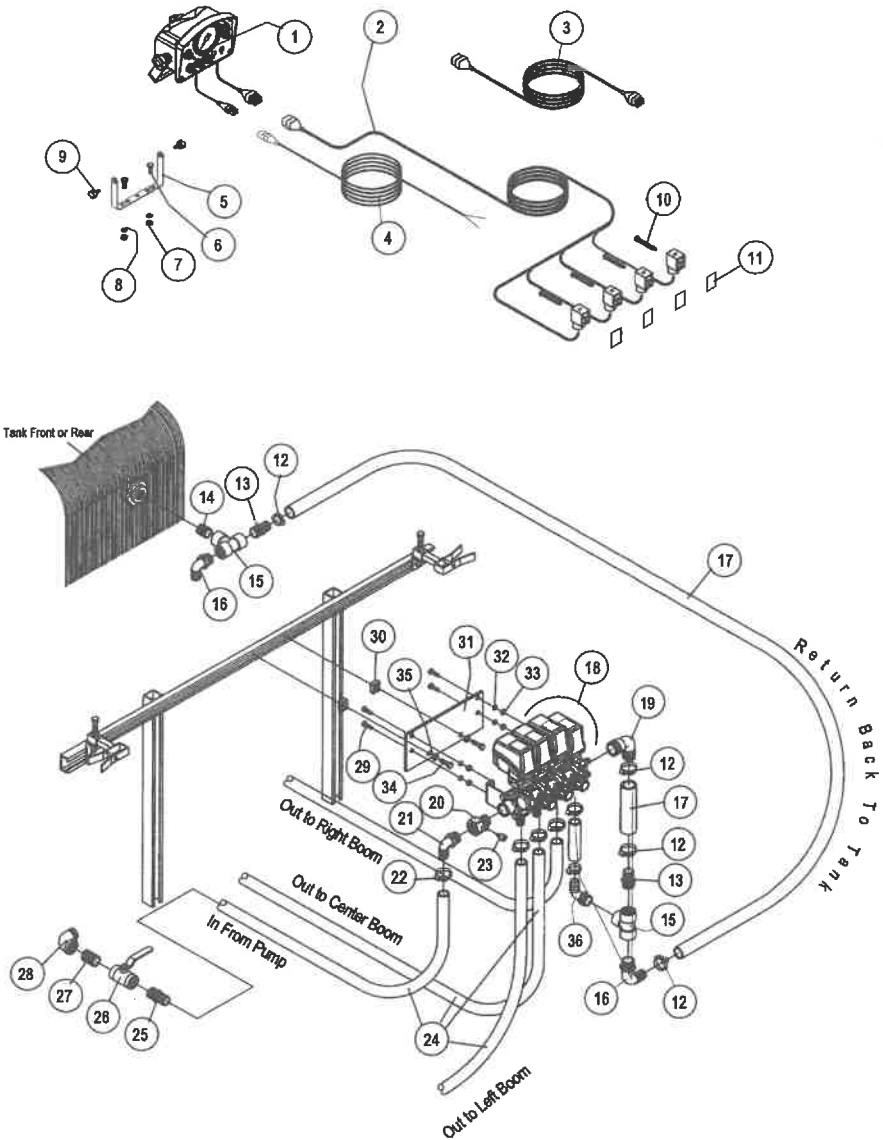
EC-VM401



SDI Motorized Boom Valve Controls/EC-VM401

<u>Item No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Qty</u>
1	56-5031	Control Box	1
2	56-5041	Control Box Harness 17 Ft.	1
3	61-645	Power Harness 8.5 Ft.	1
5	61-713	Control Box Mounting Bracket	1
6	31-101SS	Hex Bolt 1/4 x 1 In. SS	2
7	41-101SS	Hex Nut 1/4 In. SS	2
8	43-101SS	Lock Washer 1/4 In. SS	2
9	61-711	Nob Kit (consists of 2 nob's)	1
10	56-491	D.I.N. Connector Screw	4
11	56-490	D.I.N. Connector Gasket	4
12	24-116SS	Hose Clamp 1 In. SS	4
13	53-435	Adapter 1 MPT x 1 In. HB Poly	3
14	53-912	Close Nipple 1 In. PVC	1
15	53-826	Tee FPT 1 x 1 x 1 In. Poly	2
16	52-120	Elbow Adapter 1 MPT x 1 In. HB Poly	2
17	21-938	Hose 1 In. ID 200 PSI Per Ft.	4'
18	56-800	Three Motorized Valves, three Wire, 1 Regulator 1 Metered ByPass	1
19	56-599	Elbow 1 In. HB for 56-4991 with locking pin	1
20	56-2152	Adapter 3/4 MPT x 3/4 In. FPT with 1/8 In. Port Poly	1
21	52-112	Elbow Adapter 3/4 MPT x 3/4 In. HB Poly	1
22	24-112SS	Hose Clamp 3/4 In SS	10
23	56-510	Tube Fitting 1/8 MPT x 5/32 In.	1
24	21-930	Hose 3/4 In. ID 250 PSI, Per Ft.	Specify
25	53-134	Adapter 3/4 MPT x 3/4 In. HB Poly	1
26	60-324	Ball Valve 3/4 In. HD Full Port Brass	1
27	51-501SS	Close Nipple 3/4 In. SSW	1
28	50-510SS	Street Elbow 3/4 In. x 90° SS	1
29	31-503	Hex Bolt 5/16 x 1 In. SS	4
30	41-106	Channel Nut 3/6 In. W/O Spring	2
31	11-639	Bracket Motorized Valves	1
32	43-502	Lock Washer 5/16 In. SS	4
33	41-502	Hex Nut 5/16 In. NC SS	4
34	32-102SS	Hex Bolt 3/8 NC x 3/4 In. SS	2
35	42-503	Flat Washer 3/8 In SS	2
36	52-119	Elbow Adapter 1 MPT x 3/4 In. HB	1
	56-598	(Not Shown) O-ring for 56-599	1

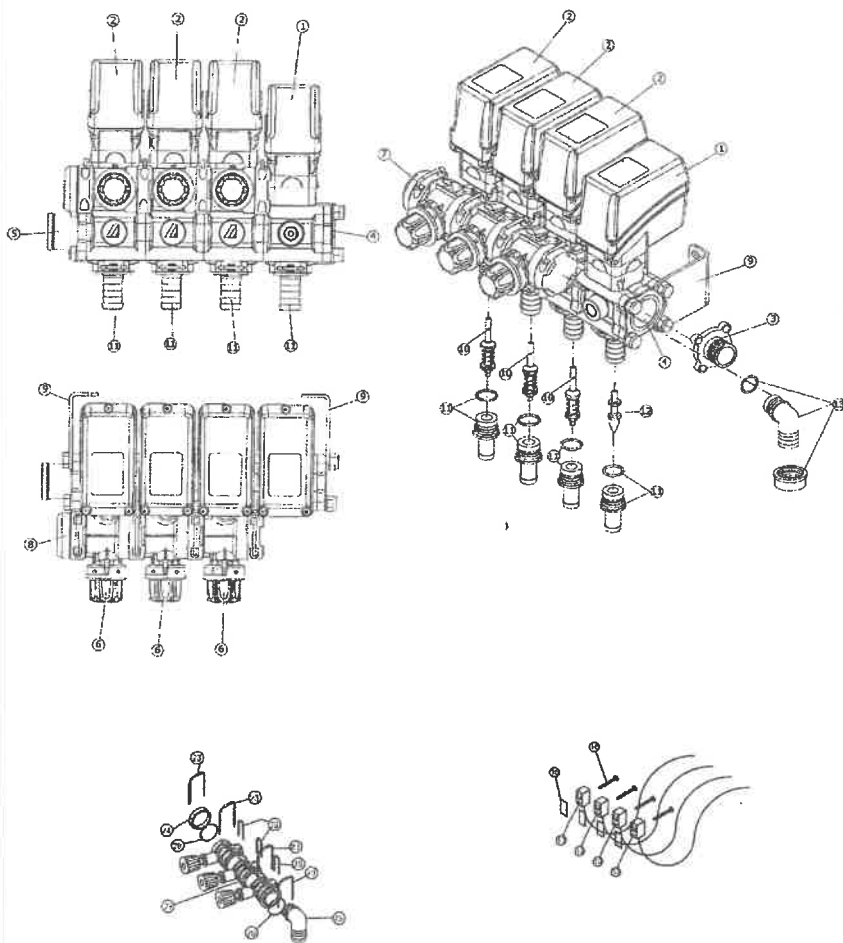
EC-TM401



SDI Motorized Boom Valve Controls/EC-TM401

<u>Item No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Qty</u>
1	56-5031	Control Box	1
2	56-5041	Control Box Harness 17 Ft.	1
3	56-5081	Control Harness Extension 10 Ft.	1
4	61-645	Power Harness 8.5 Ft.	1
5	61-713	Control Box Mounting Bracket	1
6	31-101SS	Hex Bolt 1/4 x 1 In. SS	2
7	41-101SS	Hex Nut 1/4 In. SS	2
8	43-101SS	Lock Washer 1/4 In. SS	2
9	61-711	Nob Kit (consists of 2 nobs)	1
10	56-491	D.I.N. Connector Screw	4
11	56-490	D.I.N. Connector Gasket	4
12	24-116SS	Hose Clamp 1 In. SS	4
13	53-435	Adapter 1 MPT x 1 In. HB Poly	3
14	53-912	Close Nipple 1 In. PVC	1
15	53-826	Tee FPT 1 x 1 x 1 In. Poly	2
16	52-120	Elbow Adapter 1 MPT x 1 In. HB Poly	2
17	21-938	Hose 1 In. OD 200 PSI Per Ft.	4'
18	56-800	Three Motorized Valves, three Wire, 1 Regulator 1 Metered ByPass	1
19	56-599	Elbow 1 In. HB for 56-4991 with locking pin	1
20	56-2152	Adapter 3/4 MPT x 3/4 In. FPT with 1/8 In. Port Poly	1
21	52-112	Elbow Adapter 3/4 MPT x 3/4 In. HB Poly	1
22	24-112SS	Hose Clamp 3/4 In SS	10
23	56-510	Tube Fitting 1/8 MPT x 5/32 In.	1
24	21-930	Hose 3/4 In. ID 250 PSI, Per Ft.	Specify
25	53-134	Adapter 3/4 MPT x 3/4 In. HB Poly	1
26	60-324	Ball Valve 3/4 In. HD Full Port Brass	1
27	51-501SS	Close Nipple 3/4 In. SSW	1
28	50-510SS	Street Elbow 3/4 In. x 90° SS	1
29	31-503	Hex Bolt 5/16 x 1 In. SS	4
30	41-106	Channel Nut 3/6 In. W/O Spring	2
31	11-639	Bracket Motorized Valves	1
32	43-502	Lock Washer 5/16 In. SS	4
33	41-502	Hex Nut 5/16 In. NC SS	4
34	32-102SS	Hex Bolt 3/8 NC x 3/4 In. SS	2
35	42-503	Flat Washer 3/8 In SS	2
36	52-119	Elbow Adapter 1 MPT x 3/4 In. HB	1
	56-598	(Not Shown) O-ring for 56-599	1

SDI Motorized Valve Bank 2-Wire #56-800



SDI Motorized Valve Bank 2-Wire #56-800

<u>Item No.</u>	<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
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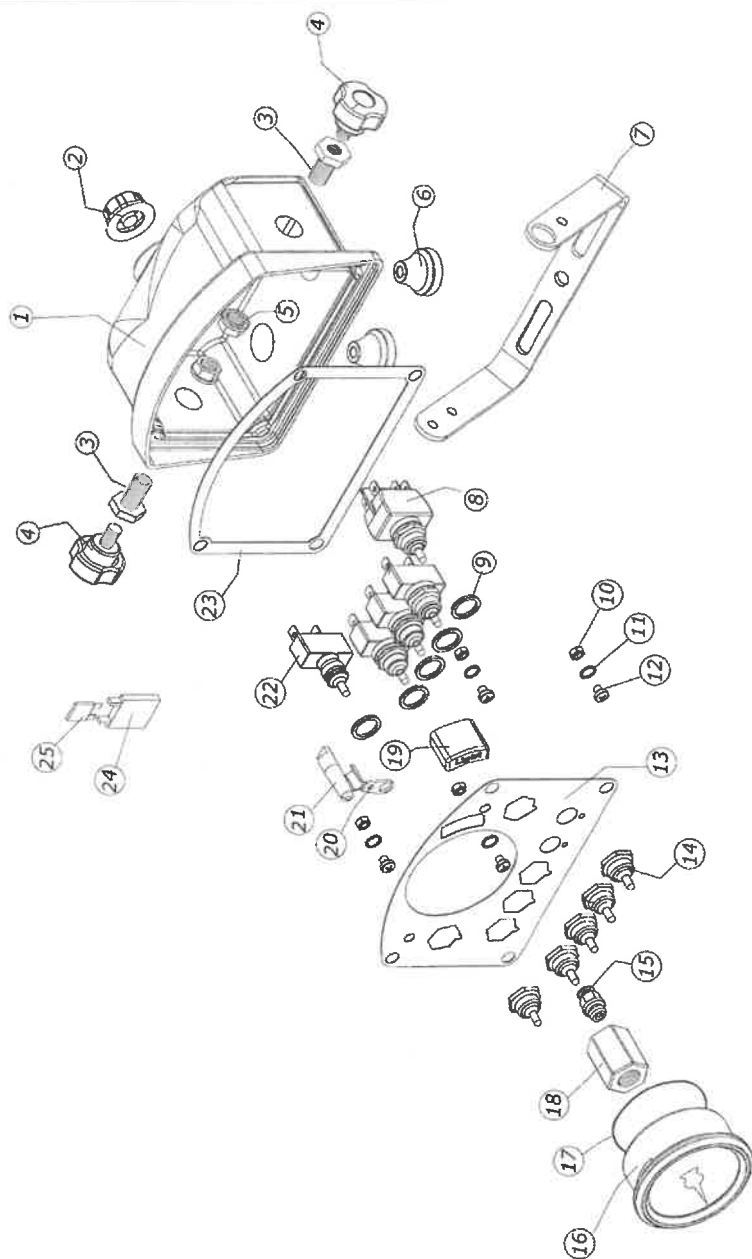
Note: 56-800 consists of 3 Part #56-801 Single Motorized Valves, 1 Part #56-802 Pressure Regulator Valve and 1 Part #56-499 Metered Bypass Valve

1	56-802	Pressure Regulator	1
2	56-801	Three Wire Motorized Valve	3
3	56-514	3/4 In. Outlet Adapter	4
4	56-597	Blank End Plate	1
5	56-513	Inlet Adapter 3/4 In. FPT	1
6	56-4991	Metered By-Pass Valve (1)	3
7	56-499	Metered By-Pass Valve (3)	1
8	56-600	End Cap	1
9	56-505	Mounting Plate	2
10	56-538	Plunger Kit for 56-801 (3)	1
11	56-105	Slip Hose Barb and O-ring	4
12	56-203	Stem for 56-802	1
13	56-511	Elbow 1 In	1

Repair Kits:

31	56-539	Seal Kit	1
32	56-540	Seal Kit for Regulator Valve	1

SDI Complete Box Assembly #56-5031



SDI Complete Box Assembly #56-5031

<u>Item No.</u>	<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
1		Control Box Shell	1
2	61-527	Nut Reducer	1
3	61-710	Nut, Double Threaded	2
4	61-711	Nob Kit—contains two nobs	1
5	61-714	Nob Nut	2
6	61-612	Grommet	2
7	61-713	Mounting Bracket	1
8	61-515	Pressure Switch	1
9	61-270	Spacer for Switch	5
10	61-715	Nut	4
11	61-716	Washer	4
12	61-717	Screw	4
13		Face Plate	1
14	61-516	Switch Boot	5
15	61-528	Tubing Connector	1
16	56-509	Pressure Gauge 0-100 PSI	1
17	61-721	Pressure Gauge O-ring	1
18	61-535	Pressure Gauge Adapter	1
19		Face Light	1
20	61-718	Light Holder	1
21	61-620	On-Off Light	1
22	61-619	On-Off Switch	4
23	61-722	Face Gasket	1
24	61-723	Spade Fuse Holder	1
25	61-724	Spade Fuse 10 AMPS	1

SDI Motorized Valve #56-801

