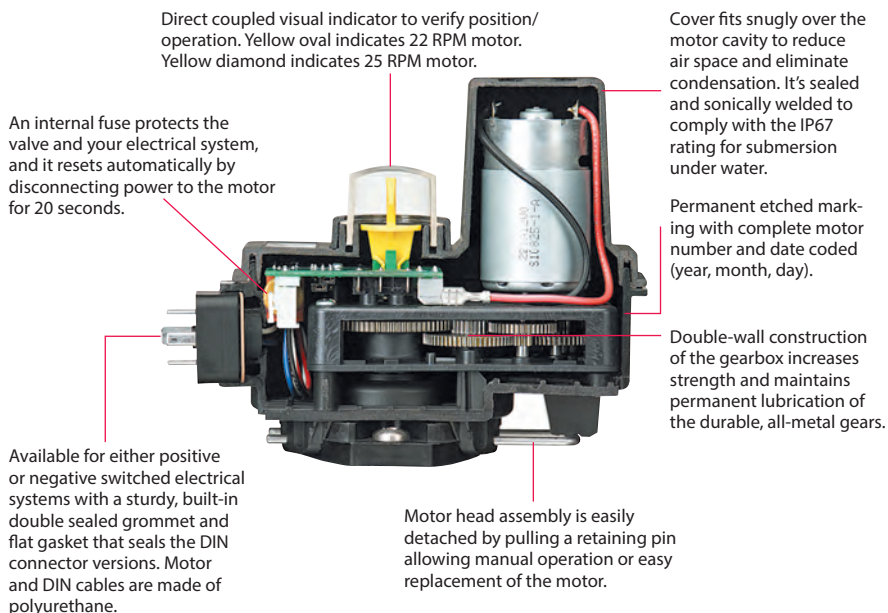


# DirectoValve® B STYLE ELECTRIC MOTORS & VALVES



## SHUTOFF/CONTROL MOTORS

Boom Control motors are 22 RPM for 344B series (0.7 second shutoff valves) and 25 RPM for 346B and 356 series (0.6 second shutoff valves) for 12 VDC systems. Available with E or EC series motors with DIN or CABLE versions. E type motors work with DPDT (double pole, double throw) switch. EC type motors work with simple SPST (single pole, single throw) on/off switch and are compatible with all sprayer controls.

Current draw less than 2 AMPS (1.7 AMPS at 40 in-lbs.).

Electrical connectors can be ordered with a standard number. See page 157 for more information.

**Note:** 2-way control motors can be rotated 180° to change the cable outlet direction on the valve. There is also an adapter to rotate motors 90°, contact your local representative for more information.

## REGULATING MOTORS

Choosing the proper regulating motor speed is important to maximizing the sprayer's performance. Three speeds are offered at this time: 1 RPM, 3 RPM and 6 RPM. The 1 RPM speed is used mostly in manual systems; it is too slow for automated rate control. The other two speeds are used in automated systems. The 3 RPM is the most popular and opens the valve to the maximum flow in about 6 seconds for the RL valve and about 10 seconds for the PR valves. The 6 RPM motor cuts those times in half.

## DIN AND CABLE ELECTRICAL CONNECTOR

Both DIN and motor cables are made of polyurethane and are pressure extruded creating a round cable for improved sealing. Polyurethane has twice the strength and three times the tear and abrasion resistance of PVC. Motor cables include over-molded plugs that seal off the ends of cables and wires to prevent seepage. Conductor insulation uses familiar color coding of red, white and black.

DIN cable connectors are constructed of a special over molded elastomeric material that does not require a flat gasket to be sealed. The center screw is made of stainless steel.

## HOW TO ORDER

38082-30, 10' DIN cable

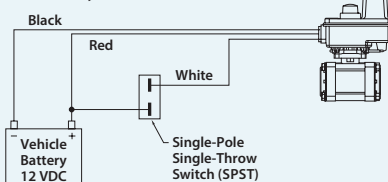


DIN CABLE	DIN CABLE (FT)
38082-05	1.5
38082-15	5
38082-30	10
38082-60	20

DIN cables are ordered separately.

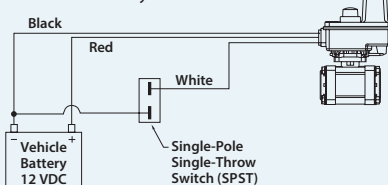
### Positively-Switched BEC Shutoff Motors

Positively-Switched Valves are standard



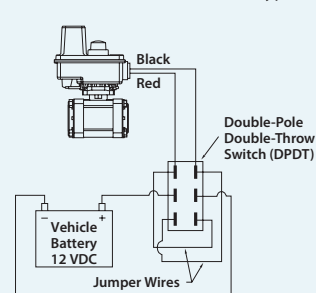
### Negatively-Switched BEC Shutoff Motors

Negatively-Switched Valves are special and are notated by an "N" in the Part Number



### BE Shutoff and BR Regulating Motors

Includes: BE, BR, BRL & BPR Valve Types





344BEC-24-P  
2-Way Valve



346BEC-35-P  
3-Way Valve



356BEC-D  
Valve

REGULATING VALVES	MOTOR SPEED (RPM)	INLET/OUTLET	FLOW RATE (GPM)*		MAX. PRESSURE (PSI)
344B, 2-Way	1, 3, or 6	¾" or 1", 50 Series Flange, QC	32 (R Valve)	27 (RL)	300
			12 (PR)	1.5 (LPR)	
344B, 3-Way	1, 3, or 6	¾" or 1", 50 Series Flange, QC	32 (R Valve)	27 (RL)	300
			12 (PR)	1.5 (LPR)	
346B, 2-Way	1, 3, or 6	1½", or 1¼", 50 Series Flange, 75 Series Flange	100		150
346B, 3-Way	1, 3, or 6	1½", or 1¼", 50 Series Flange, 75 Series Flange	64		150
SHUT OFF VALVES	MOTOR SPEED (RPM)	INLET/OUTLET	FLOW RATE (GPM)*		MAX. PRESSURE (PSI)
344B, 2-Way	22	¾" or 1", QC, 50 Series Flange	32		300
344B, 3-Way	22	¾" or 1", QC, 50 Series Flange	24		300
346B, 2-Way	25	1¼" or 1½", 50 Series Flange, 75 Series Flange	100		150
346B, 3-Way	25	1¼" or 1½", 50 Series Flange, 75 Series Flange	64		150
356B, 2-Way	25	50 Series Flange	100		150

**Note:** Flow rates are given for a single valve @ 5 PSI pressure drop and will vary based on the number of valves and inlet sizes.



# (B)344BEC-2FS-C15AB

## OUTLET THREADS

<b>BLANK</b>	All Threads to be NPT (If Equipped)
<b>(B)</b>	All Threads to be BSPT (If Equipped)

## MODEL SPECIFICATIONS

<b>344B/346B</b>	Shutoff Valve
<b>356B</b>	Shutoff Valve with Mounting Foot

## MOTOR SPECIFICATIONS

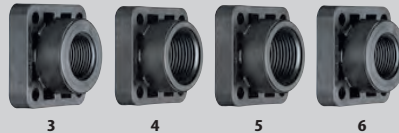
<b>E</b>	<b>DPDT</b>	22 RPM, 0.7 SEC Cycle (for 344B/364B)
<b>EC</b>	<b>SPST</b>	25 RPM, 0.6 SEC Cycle (for 346B/366B)

## VALVE TYPE

<b>2</b>	2-Way Valve
<b>3</b>	3-Way Valve

## END CAPS OR OUTLET FITTINGS

<b>3</b>	¾" Pipe Thread (344B/364B Only)
<b>4</b>	1" Pipe Thread (344B/364B Only)
<b>5</b>	1¼" Pipe Thread (346B/366B Only)
<b>6</b>	1½" Pipe Thread (346B/366B Only)
<b>Q</b>	Quick Connect (344B/364B Only)
<b>F</b>	50 Series Flange
<b>F75</b>	75 Series Flange (346B/366B Only)
<b>LQ</b>	Large Quick Connect (364B/366B Only)



## BALL MATERIAL SPECIFICATIONS

<b>BLANK</b>	Polypropylene Ball
<b>S</b>	Stainless Steel Ball

## MOTOR CABLES

<b>C</b>	Positively Switched with 0.5-m Cable
<b>C03*</b>	Positively Switched with 0.3-m Cable
<b>C15*</b>	Positively Switched with 1.5-m Cable
<b>C60*</b>	Positively Switched with 6.0-m Cable
<b>D</b>	Positively Switched with DIN Connector
<b>P</b>	Positively Switched with Metri-Pack Connector
<b>Q</b>	Positively Switched with Deutsch Connector

Items marked with "\*" are non-stock items. Contact your regional sales office for ordering and availability information. CN (Negatively Switched) motors also available upon request.

**Note:** DIN cables must be ordered separately. See page 144 for DIN cables.

## INLET/OUTLET REQUIRED CONNECTIONS (THE INLET/OUTLET FITTINGS ARE ORDERED SEPARATELY)

- 3, 4:** When ordering ¾" (3) or 1" (4) threaded NPT or BSPT inlet/outlet type valve connections, the inlets and outlets will be completed during the ordering process.
- F:** When ordering F (flange) type valve connections, the inlet/outlet fittings are ordered separately. Two 50 series clamps and flange fittings are required for 2-way valves and three each for 3-way valves. See page 158 for flange fitting options.
- Q:** When ordering QC (Quick Connect) hose barb type valve fittings, the inlet/outlet connections are ordered separately. Two 45529 QC fittings are required for 2-way valves and three each for 3-way valves. See page 159 for QC options.

**Note:** Many valve configurations are possible by mixing and matching flange fittings.

## WIRING CONNECTORS

Specify electrical connector style and pin-outs. If no connector is needed leave blank. See page 157 for electrical connectors and codes.

## REPAIR KITS

AB344AE-KIT for 344A&B Valves  
AB346B-KIT for 346B Valves