

# DirectoValve® 300 SERIES



344BEC-24-P  
2-Way Valve



346BEC-35-P  
3-Way Valve



356BEC-D  
Valve

## B STYLE SHUTOFF MOTOR NUMBERS

344B, 440B, 450B, 460B SERIES			CURRENT DRAW (AMPS)**	346B, 356 AND 490 SERIES			CURRENT DRAW (AMPS)**		CABLE LENGTH
BEC POSITIVE SWITCH MOTOR	*BEC NEGATIVE SWITCH MOTOR	BE SWITCH MOTOR	344B, 440B, 450B, 460B	BEC POSITIVE SWITCH MOTOR	*BEC NEGATIVE SWITCH MOTOR	BE SWITCH MOTOR	346B	356, 490	
50515-22P	50515-22N	50533-22	1.1	50515-25P	50515-25N	50533-25	1.75	2.2	No Cable, Metri-Pack Connector
50515-22CP05	50515-22CN05*	50533-22C05	1.1	50515-25CP05	50515-25CN05*	50533-25C05	1.75	2.2	1.5' Cable
50515-22CP15	50515-22CN15*	50533-22C15*	1.1	50515-25CP15	50515-25CN15*	50533-25C15*	1.75	2.2	5' Cable
50515-22CP60	50515-22CN60*	50533-22C60*	1.1	50515-25CP60	50515-25CN60*	50533-25C60*	1.75	2.2	20' Cable
50515-22DP	50515-22DN*	50533-22D*	1.1	50515-25DP	50515-25DN*	50533-25D*	1.75	2.2	DIN Electrical Connector
50515-22QP	50515-22QN*	50533-22Q*	1.1	50515-25QP	50515-25QN*	50533-25Q*	1.75	2.2	Deutsch Electrical Connector

Items marked with "\*" are non-stock items. \*\* Current draw is a nominal rating @ 13.8 VDC and will vary dependent upon valve usage and chemicals used.

**Note:** DIN cables are ordered separately.

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

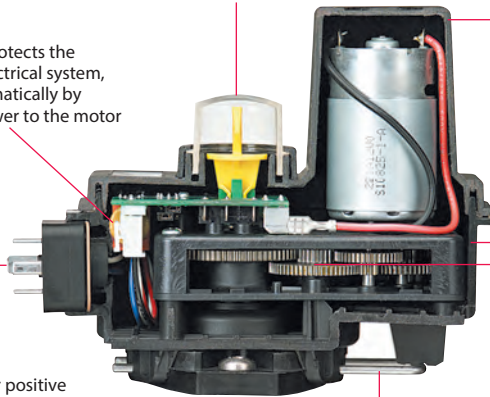
**Note:** Flow rates are given for a single valve @ 5 PSI pressure drop and will vary based on the number of valves and inlet sizes.



Direct coupled visual indicator to verify position/operation. Yellow oval indicates 22 RPM motor. Yellow diamond indicates 25 RPM motor.

An internal fuse protects the valve and your electrical system, and it resets automatically by disconnecting power to the motor for 20 seconds.

Available for either positive or negative switched electrical systems with a sturdy, built-in double sealed grommet and flat gasket that seals the DIN connector versions. Motor and DIN cables are made of polyurethane.



Cover fits snugly over the motor cavity to reduce air space and eliminate condensation. It's sealed and sonically welded to comply with the IP67 rating for submersion under water.

Permanent etched marking with complete motor number and date coded (year, month, day).

Double-wall construction of the gearbox increases strength and maintains permanent lubrication of the durable, all-metal gears.

Motor head assembly is easily detached by pulling a retaining pin allowing manual operation or easy replacement of the motor.

## 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.

VALVES & MANIFOLDS



## HOW TO ORDER

38082-30, 10' DIN cable

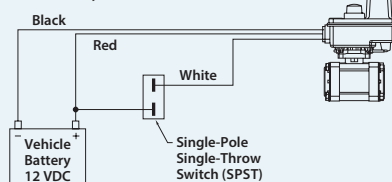


DIN CABLE	DIN CABLE (FT)
38082-05	1.5
38082-15	5
38082-30	10
38082-60	20

DIN cables are ordered separately.

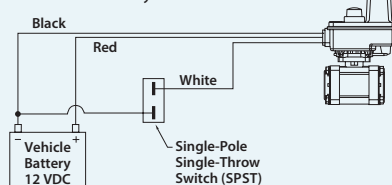
### Positively-Switched BEC Shutoff Motors

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

