

The 460BEC 3-way ball valve manifold features an adjustable bypass setting that maintains a constant system pressure regardless of the valve being in the ON or OFF position. This is particularly effective on sprayers equipped with positive displacement pumps. Available with E or EC series motors with cable or DIN electrical connections. See page 66 for more information on DirectoValve motors.

## **Features:**

- 22 RPM, 0.7 second shutoff fully open to close.
- Version C has VisiFlo® color-coded settings that can be used to match multiple tips.
- Version E has a single adjustment.
- With a choice of threaded, QC (Quick Connect) hose barbs or 50 series flange fitting outlet connections, the 460BEC manifold allows quick, simple plumbing for as many valves as needed for your sprayer.
- Stainless steel stem and ball.
- Flow rate: 25 GPM (94 l/min) at 5 PSI (0.34 bar) pressure drop, 35 GPM (132 l/min) at 10 PSI (0.69 bar) pressure drop.
- Maximum pressure rating of 300 PSI (20 bar).
- The 460BEC valve series is also available in 2-way and Flow Back versions. See page 92 for 460BEC 2-way version and page 96 for 460FB Flow Back version.





(front view)

## **Sample Valve Part Number:**

# (B)463BEC-3CF-CN15AB

# OUTLET THREADS PART CODE DESCRIPTION BLANK ALL THREADS TO BE NPT (IF EQUIPPED) ALL THREADS TO BE BSPT (IF EQUIPPED) MODEL SPECIFICATION

DESCRIPTION

460 MANIFOLD

PART CODE

46

5

MANIFOLD SIZES					
PART CODE DESCRIPTION					
1	1-VALVE MANIFOLD				
2	2-VALVE MANIFOLD				
3	3-VALVE MANIFOLD				
4	4-VALVE MANIFOLD				

MOTOR SPECIFICATIONS					
PART CODE	SWITCH	DESCRIPTION			
Е	DPDT	22 RPM, 0.7 SECOND			
EC	SPST	SHUTOFF VALVE			

See page 66 for more information

# VALVE TYPE PART CODE DESCRIPTION 3C 3-WAY VALVE See page 92 for 2-way valve.

# **END CAPS OR OUTLET FITTINGS**

DESCRIPTION

3	3/4" PIPE THREAD
4	1" PIPE THREAD
Q	QUICK CONNECT
F	50 SERIES FLANGE





See pages 102–104 for QC and flange fittings.

PART CODE

# on E and EC motors. INLET/OUTLET REQUIRED CONNECTIONS

THE INLET/OUTLET FITTINGS ARE ORDERED SEPARATELY

5-VALVE MANIFOLD

- 3, 4: When ordering ¾" (3) or 1" (4) NPT or BSPT threaded connections, the valve outlet connection will be completed during the ordering process. For the inlets to be threaded, the 50 series flange fittings are ordered separately. Two 50 series double clamps and four flange fittings are required per manifold assembly. See pages 102–103 for flange fitting options.
- **F**: For the flange fitting versions, one 50 series single clamp and flange fitting is required per valve. For the inlets, two 50 series double clamps and four flange fittings are required per manifold assembly. See pages 102–103 for flange fitting options.
- Q: When ordering QC (Quick Connect) hose barb type valve fittings. For the outlet, one 45529 QC hose barb connection is required per valve. 460 inlets are 50 series standard flanges. Any four 50 series fittings and two double clamps may be ordered. For the inlets to be QC, requires four each, CP46029-PP QC flange adapters, 45529 QC hose barb connections and two 50 series clamps per manifold assembly. See pages 102–104 for QC and flange options.

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

# WIRING CONNECTORS

SPECIFIC ELECTRICAL CONNECTOR STYLE AND PIN-OUTS. IF NO CONNECTOR IS NEEDED LEAVE BLANK.

See page 105 for electrical connectors and codes.

M	MOTOR CABLES					
PART CODE	DESCRIPTION					
C	POSITIVELY SWITCHED w/ 0.5-METER CABLE					
CN	NEGATIVELY SWITCHED w/ 0.5-METER CABLE					
* C03	POSITIVELY SWITCHED w/ 0.3-METER CABLE					
* CN03	NEGATIVELY SWITCHED w/ 0.3-METER CABLE					
* C15	POSITIVELY SWITCHED w/ 1.5-METER CABLE					
* CN15	NEGATIVELY SWITCHED w/ 1.5-METER CABLE					
* C60	POSITIVELY SWITCHED w/ 6.0-METER CABLE					
* CN60	NEGATIVELY SWITCHED w/ 6.0-METER CABLE					
D	POSITIVELY SWITCHED w/ DIN CONNECTOR					
DN	NEGATIVELY SWITCHED w/ DIN CONNECTOR					

Items marked with "\*" are non-stock items. Please contact your regional sales office for ordering and availability information.

**Note:** DIN cables must be ordered separately. See page 66 for DIN cables.

# **REPAIR KIT**

AB460-KIT

VALVES AND MANIFOLDS 95





**Note:** TeeJet Technologies recommends the use of sealed connectors to improve reliability and prolong component life.

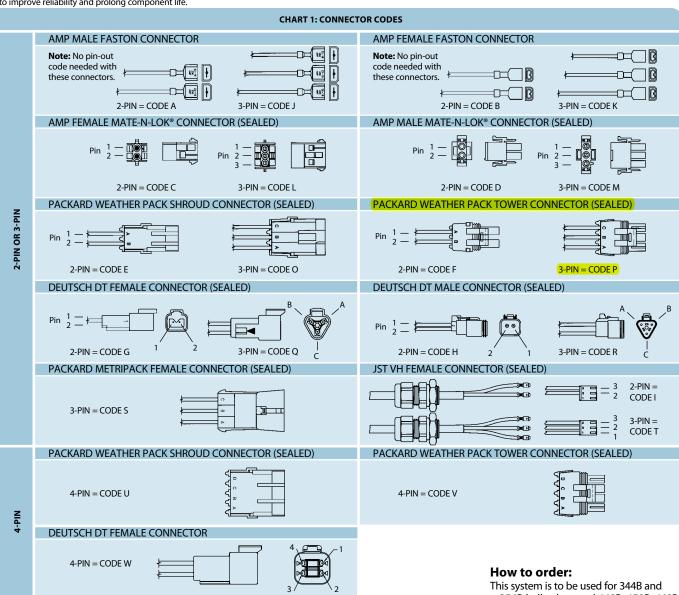


	CHART 2: PIN-OUT CODES								
CODE	CONNECTOR POSITION			CODE	CONNECTOR POSITION				
LETTER	A OR 1	B OR 2	C OR 3	D OR 4	LETTER	A OR 1	B OR 2	C OR 3	D OR 4
Α	R	W	Р	В	M	Р	R	W	В
B	R	W	В	P	N	Р	R	В	W
C	R	В	W	Р	0	Р	W	R	В
D	R	В	Р	W	P	Р	W	В	R
E	R	Р	W	В	Q	Р	В	R	W
F	R	Р	В	W	R	Р	В	W	R
G	W	R	В	Р	S	В	R	W	Р
Н	W	R	Р	В	T	В	R	Р	W
1	W	Р	R	В	U	В	W	R	Р
J	W	Р	В	R	V	В	W	Р	R
K	W	В	R	Р	W	В	Р	R	W
L	W	В	Р	R	X	В	Р	W	R

356B ball valves and 440B, 450B, 460B and 490B ball valve manifolds equipped with electrical connectors. Connector and pin-outs are to be specified in valve or manifold part number when ordering.

Note: On 2-pin connectors, only pin-out code C or S is used.

First: Specify code for connector desired (See Chart 1).

Second: Specify appropriate wire pin-out arrangement (See Chart 2).

Example:

356BEC-CLB Pin-out Code Connector Code

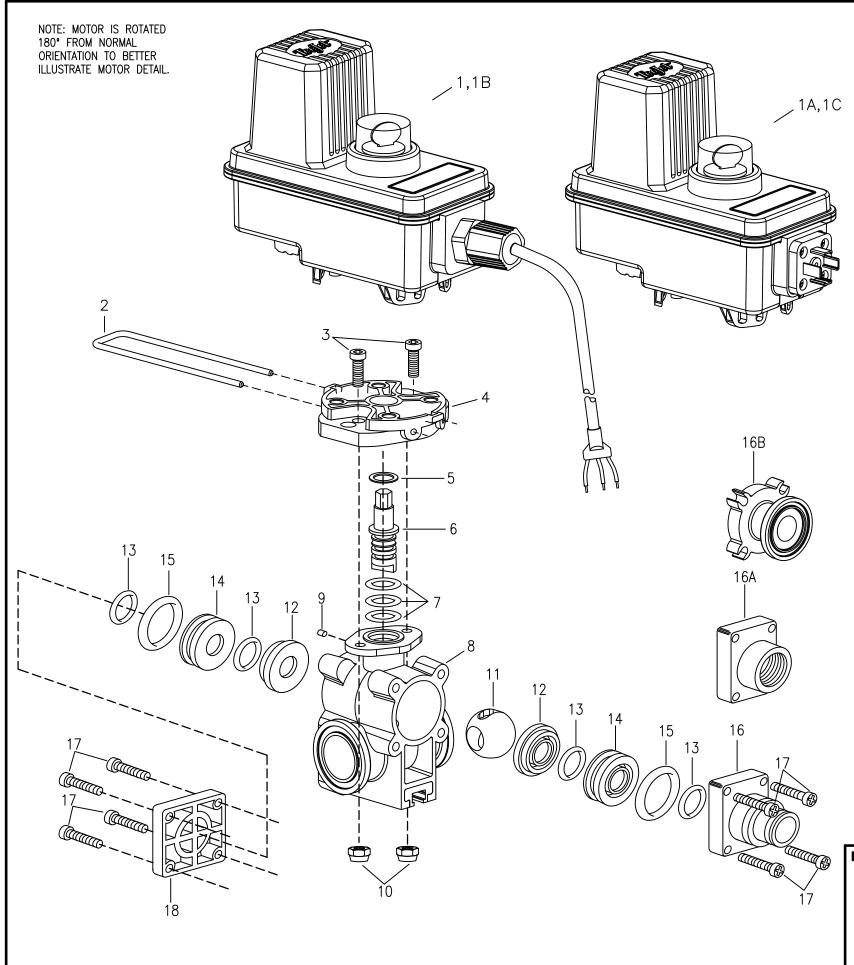
# **Wire Codes:**

 $\mathbf{R} = \text{Red}(+12V)$ 

**W** = White (Switched)

**P** = Plugged

**B** = Black (Ground)



ITE	М	SALES PART NO.	DESCRIPTION						
	50	0515-22CP03■	BEC MOTOR, 22-RPM (0.7-SEC), 0.3-METER CABLE, POSITIVELY SWITCHED						
,	50	)515-22CP05■	BEC MOTOR, 22-RPM (0.7-SEC), 0.5-METER CABLE, POSITIVELY SWITCHED						
1	50	)515-22CP15■	BEC MOTOR, 22-RPM (0.7-SEC), 1.5-METER CABLE, POSITIVELY SWITCHED						
	50	)515-22CP60 <b>■</b>	BEC MOTOR, 22-RPM (0.7-SEC), 6.0-METER CABLE, POSITIVELY SWITCHE						
1/	A 50	)515-22DP■	BEC MOTOR, 22-RPM (0.7-SEC), DIN CONNECTION, POSITIVELY SWITCHED						
	50	BE MOTOR, 22-RPM (0.7-SEC), 0.3-METER CABLE							
,	50	)533-22005	BE MOTOR, 22-RPM (0.7-SEC), 0.5-METER CABLE						
'	B 50	0533-22015	BE MOTOR, 22-RPM (0.7-SEC), 1.5-METER CABLE						
	50	0533-22C60	BE MOTOR, 22-RPM (0.7-SEC), 6.0-METER CABLE						
10	C 50	)533-22D	BE MOTOR, 22-RPM (0.7-SEC), DIN CONNECTION						
2	CP	P50517-SSPV	RETAINING CLIP, 304 STAINLESS STEEL						
3	CP	P26197-7/8-SS	SOCKET HEAD CAP SCREW, STAINLESS STEEL (2 REQ'D)						
4	- CP	P50514-PP	MOTOR ADAPTER, POLYPROPYLENE (BLACK)						
* 5	CF	P20125-TEF	THRUST WASHER, TEFLON						
6		P56614-SS	STEM, 303 STAINLESS STEEL						
* 7	CF	P7717-M12X2.5-VI	O-RING, VITON (3 REQ'D)						
8	CF	P45503-NYB	BODY, NYLON (INCLUDES MOUNTING RAIL)						
* 9	) CF	P20126-FELT	DUST PLUG, FELT						
10	O CF	P38435-1/4-SSNY	ELASTIC LOCKNUT, STAINLESS STEEL (2 REQ'D)						
1	1 CF	P45510-1-SS	BALL, 303 STAINLESS STEEL						
* 12	2 CF	P20103-TEF	SEAL, TEFLON (2 REQ'D)						
* 1.		P7717-2-213-VI	O-RING, VITON (4 REQ'D)						
1.		P45502-NYB	BALL SEAL SPACER, NYLON (BLACK) (2 REQ'D)						
* 1		P7717-2-322-VI	O-RING, VITON (2 REQ'D)						
1		P45514-NYB	ENDCAP, NYLON (BLACK) (QUICK CONNECT)						
		P20104-3/4-NYB	ENDCAP, NYLON (BLACK) (3/4" NPT THREAD)						
16	3∧ ∟	PB20104-3/4-NYB	ENDCAP, NYLON (BLACK) (3/4" BSPT THREAD)						
'	Ci	P20104-1-NYB	ENDCAP, NYLON (BLACK) (1" NPT THREAD)						
	CF	PB20104-1-NYB	ENDCAP, NYLON (BLACK) (1" BSPT THREAD)						
16	6B Cf	P45253-NYB	ENDCAP, NYLON (BLACK) (50—SERIES FLANGED)						
1	7 CF	P45517-1-1/8-SS	PAN HEAD SCREW, STAINLESS STEEL (8 REQ'D)						
1	8 CF	P45518-NYB	REAR COVER, NYLON (BLACK)						
	56	6611-2	VALVE BODY SUB-ASS'Y, SPECIFY OUTLET SIZE & BALL MATERIAL (3-19)						
AB4	AB460B-KIT, SPARE PARTS KIT (INCLUDES ALL ITEMS MARKED WITH *)								

NOTE: (B) IN PART NUMBER INDICATES B.S.P.T INLET AND OUTLET CONNECTIONS

NOTE: FOR NEGATIVELY SWITCHED MOTORS SPECIFY "N" RATHER THAN "P" IN MOTOR PART NUMBER. EXAMPLE: 50515-22CN05

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# **DESCRIPTION:**

460BEC 2-WAY
DIRECTOVALVE®
ELECTRIC SHUT-OFF
BALL VALVE MANIFOLD



# Spraying Systems Co.®

Spray Nozzles and Accessories P.O. Box 7900 - Wheaton, II. 60189-7900

Rev. No. 2

PARTS LIST PL460BEC SHEET OF