

## Banjo Electric Ball Valves

### Electric On/Off Motors



PART#	DESCRIPTION	Size Valve
EV3305	3/4 Second, 3 Wire, 3pin Weather Pack	3/4" - 1 1/4"
EV4305	1 1/4 Second, 3 Wire, 3 pin Weather Pack	1 1/2" - 2"

### 2-Way Valve Bodies



EV100XR1



MEV100XR1

PART#	DESCRIPTION
EV100XR1	1" Threaded EV Sub-Assembly
MEV100XR1	M100 Flanged EV Sub-Assembly

### Electric On/Off Assemblies



PART#	DESCRIPTION
EV100FP	3/4 Second, 3 Wire, 1" Full Port Threaded Valve
MEV100FP	1 1/4 Second, 3 Wire, 1" Full Port Flange Valve
EV204FP	1 1/4 Second, 3 Wire, 2" Full Port Threaded Valve





# OVA Carries EXCLUSIVE 2 Year Warranty on KZ Valves

## Electric Valve Actuators

### EH2 Actuator

- Mid-size Motorized Valve Actuator
- Valve Sizes: 3/4" to 3"
- 12/24 VDC and 24 VAC Available
- 5 Cycle Time Options
- Max Break Away Torque: 300 in/lb.
- Max Operating Torque: 205 in/lb.
- NEMA 6P Actuator Housing



**EH2 On/Off Valve Actuators**  
**1.5 Sec. 12/24VDC Actuator**  
 Part # 100Y-P01  
**.5 Sec. 12 VDC Actuator**  
 Part # 100Z0-P01

MOTOR	12 VDC	24 VDC	24 VAC
U	7 Sec.	4 Sec.	4 Sec.
V	NA	.75 Sec.	.75 Sec.
W	3 Sec.	1.5 Sec.	1.5 Sec.
Y	1.5 Sec.	NA	NA
Z	.5 Sec.	NA	NA

OVA carries direct replacement regulating and shut off valves for:

- ◆ John Deere
- ◆ Spra-Coupe
- ◆ RoGator
- ◆ Willmar
- ◆ Hagie

& other manufacturers. Please contact OVA for details.

VALVE SERIES	WIRING OPTIONS		MOTOR	OPTION
000-Acuator Only	50K - 2 Wire DPDT	60A - 3 Wire on/off (+)	U - 7 Sec.	B - Blank Lid
	41 - 2 Wire DPDT	60B - 3 Wire on/off (-)	V - .75 Sec.	C - Normally Closed
	61 - 4 Wire Regulating	60 - 4 Wire on/off with Feedback	W - 3 Sec.	H - Less Valve Kit
	41S - SL Series Control	66 - 3 Wire on/off 24 VAC	Y - 1.5 Sec.	O - Normally Open
	60AE - 60A Dry Switch	55 - 4 Wire on/off 12VDC	Z - .5 Sec.	V - 180 Deg. Operation
	60F - SPST w/ 12V Out.			



### EH3 Actuator

- Compact Motorized Valve Actuator
- Valve Sizes: 1/4" to 1"
- 12/24 VDC and 24 VAC Available
- 5 Cycle Time Options
- 3 Position Capability Optional
- Max Break Away Torque: 110 in/lb.
- Max Operating Torque: 80 in/lb.
- NEMA 6P Actuator Housing

VALVE SERIES	WIRING OPTIONS		MOTOR	OPTION
000-Acuator Only	50K - 2 Wire DPDT	60A - 3 Wire on/off (+)	M - .8 Sec.	B - Blank Lid
	41 - 2 Wire DPDT	60B - 3 Wire on/off (-)	N - 1.5 Sec.	C - Normally Closed
	61 - 4 Wire Regulating	60 - 4 Wire on/off with Feedback	O - 12 Sec.	H - Less Valve Kit
	41S - SL Series Control	66 - 3 Wire on/off 24 VAC	P - 2.5 Sec.	O - Normally Open
	60AE - 60A Dry Switch	55 - 4 Wire on/off 12VDC	Q - 7 Sec.	V - 180 Deg. Operation
	60F - SPST w/ 12V Out.			



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### 67 Series Stainless Steel Ammonia Valves

**Design Features:**

- Vented, 2-Way SS Ammonia Ball Valves
- Max PSI 2000
- Valve Body: CF8M SS
- Ball: 316 SS (Vented)
- Stem: 316 SS with EPDM O-Ring
- Seat: ME-PTFE
- Stem Packing: Adjustable ME-PTFE
- Direct replacement for Raven actuators



VALVE	SIZE	PORT TYPE	WEIGHT	CV	ACTUATOR
B	1/4"	Full	0.81	8.4	EH3
D	1/2"	Full	0.93	15	EH3
E	3/4"	Standard	1.76	30	EH2, EH3
F	1"	Standard	2.73	43	EH2
H	1 1/2"	Standard	5.68	84	EH2
I	2"	Standard	9.76	108	EH2

**Raven Conxall Plug**

MOTOR & VALVE ASSEMBLY	VALVE SIZE	MOTOR TYPE	PORT TYPE	ACTUATOR
67FKR-FC	1"	Regulating	Standard	EH2
67FKR-ONOFF	1"	On/Off	Standard	EH2
67GKR-FC	1 1/4"	Regulating	Standard	EH2

MOTOR & VALVE ASSEMBLY	VALVE SIZE	MOTOR TYPE	PORT TYPE	ACTUATOR
67F22-10DYO-P01	1"	On/Off	Standard	EH2
67F22-20DWO-P01	1"	Regulating	Standard	EH2
67G22-20DWO-P01	1 1/4"	Regulating	Standard	EH2
67HQ2-20DWO-P01	1 1/2"	Regulating	Standard	EH2

### TX2 1/2" Polypropylene Valve Manifold

**Design Features:**

- 2-way, 3-way, or metered bypass
- Full port w/ SS Ball & Valve Stem
- 150 PSI at 70°F
- .5 sec cycle time
- On/Off



MOTOR & VALVE ASSEMBLY	VALVE SIZE	# OF VALVES
21CA7-10DK0-P01	1/2"	1
22CA7-10DK0-P01	1/2"	2
23CA7-10DK0-P01	1/2"	3
24CA7-10DK0-P01	1/2"	4

### Actuator Retrofit Kits for Raven Systems

**Design Features:**

- NEMA 6P rated waterproof
- Solid-state components
- Conxall plug
- Direct replacement for Raven actuators



MOTOR	MOTOR TYPE	ACTUATOR
KR-ONOFF	On/Off	EH2
KR-FC	Regulating	EH2

Part # KR-KIT is available to attach KZ motors to Raven Jamesberry valves

### 73 Series Stainless Steel 3-Way Valves

**Design Features:**

- 3/8" to 2" 3-Way Ball Valves
- Max PSI 1000
- Manual Override Capabilities
- Ball: CF8M SS
- Stem: 316 SS
- Valve Body: CF8M SS
- Seat: ME-PTFE
- Stem Packing: ME-PTFE



VALVE	SIZE	PORT TYPE	STEM	WEIGHT	CV	ACTUATOR
C	3/8"	Standard	FO4	1.65	6	EH3
D	1/2"	Standard	FO4	1.65	12	EH3
E	3/4"	Standard	FO4	2.36	16	EH2, EH3
F	1"	Standard	FO5	3.70	20	EH2
H	1 1/2"	Standard	FO5/FO7	7.95	103	EH2
I	2"	Standard	FO5/FO7	12.80	143	EH5

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### 88 Series Stainless Steel 2-Way Valves

#### Design Features:

- 2-Way Ball Valves 1/4" to 2"
- Max PSI 2000 (1/4" to 1") at 70°F
- Max PSI 1500 (1/4" to 2") at 70°F
- Manual Override Capabilities
- Ball: 316 SS
- Stem: 316 SS
- Valve Body: CF8M SS
- Seat: ME-PTFE
- Stem Packing: Adjustable ME-PTFE



VALVE	SIZE	PORT TYPE	STEM	WEIGHT	CV	ACTUATOR
B	1/4"	Full ISO	FO3	0.81	8.4	EH3
C	3/8"	Full ISO	FO3	0.79	7.2	EH3
D	1/2"	Full ISO	FO3	0.93	15	EH3
E	3/4"	Standard ISO	FO3	1.76	30	EH2, EH3
F	1"	Standard ISO	FO3	2.73	43	EH2
H	1 1/2"	Standard ISO	FO4	5.68	84	EH2, EH5
I	2"	Standard ISO	FO4	9.76	108	EH2, EH5

### 89 Series Stainless Steel 3-Piece 2-Way Valves

#### Design Features:

- 3-Piece Swing Out Style Valve
- 2-Way Ball Valves 1/2" to 3"
- Max PSI 1000 at 70°F
- Manual Override Capabilities
- Ball & Stem: 316 SS
- Valve Body: CF8M SS
- Seat: Virgin PTFE
- Stem Packing: PTFE and VITON



VALVE	SIZE	PORT TYPE	MOUNT	WEIGHT	CV	ACTUATOR
89D	1/2"	Full ISO	FO3	5.85	30	EH2, EH3
89E	3/4"	Full ISO	FO3	6.25	51	EH2, EH3
89F	1"	Full ISO	FO4	7.5	68	EH2
89G	1 1/4"	Full ISO	FO4	8.65	112	EH2
89H	1 1/2"	Full ISO	FO5	10.1	170	EH2
89I	2"	Full ISO	FO5	13.75	376	EH2, EH5
89J	2 1/2"	Full ISO	FO7	24.5	750	EH5
89K	3"	Full ISO	FO7	33	1300	EH5

### 99 Series 2-Way Poly Valves

#### Design Features:

- 2-Way Ball Valve 3" and 4", Full Port
- Max PSI 100 at 70°F
- Max PSI 75 at 150°F
- Ball: Polypropylene
- Stem: 316 SS
- Valve Body: Polypropylene
- Seat: Virgin PTFE
- Stem O-Ring: VITON



VALVE	SIZE	PORT TYPE	WEIGHT	CV	ACTUATOR
K	3"	Full	10.2	996	EH2
K	3"	Full	12.2	996	EH2, EH5
L	4"	Full	16.35	1500	EH5

### QC Series Stackable Manifold Valves

#### Design Features:

- Compact Valve in Manifold Design
- 3/4" Full Port Outlet by 1/2" Full Port Inlet
- Max Working Pressure: 300 psi at 70°F
- Adjustable Seat Buttress
- Ball: 316 SS
- Stem: 316 SS
- Valve Body: NYLON
- Seat: VIRGIN PTFE
- Stem Seal: Dual VITON O-Rings
- Body Seal: EPDM



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49

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# RAVEN

## Raven Valves



### 2" Flanged Poly On/Off Boom Valves

- High flow boom valves
- 40 GPM @ 5 PSI pressure drop per valve
- 175 PSI pressure rating
- M200 Banjo flange inlet
- 3/4" female NPT & M100 flange outlet
- 0.7 seconds on/off time
- Plunger-style valve for complete shut-off
- Optional user configuration from 1-section to 10-section banks

Single Manifold with 3 pin Weather Pack  
063-0171-926  
CNH High Flow Single Manifold with 3 pin  
Deutsch (M220/M200)  
063-0172-868



### 1" Flanged Poly Butterfly Control Valve

- Polypropylene housing
  - Butterfly material is Kynar
  - 175 PSI Working Pressure
  - 5 GPM at 60 PSI fully closed
  - 12 VDC Supply Voltage
  - 100 mA Typical Operating Current
- 2 pin 063-0172-125

### 1 1/2" Poly Butterfly Control Valve

- Polypropylene Body
  - Kynar Butterfly Material
  - 200 PSI Working Pressure
  - 26 CV
  - 8 GPM at 60 PSI Fully Closed
  - 12 VDC Supply Voltage
  - 100 mA Typical Operating Current
- 2 pin 063-0171-894  
2 pin Deutsch 063-0173-446



### PWM Hydraulic Control Valve

- 3000 PSI pressure rating
  - 60-115 Hz recommended pulse frequency
  - Available in 5, 10, 15 and 30 GPM models
  - PWM Control
- 30 GPM (2pin) 063-0171-846



### Fast Hydraulic Control Valve

- Available in 3, 8, 16, 25, and 40 GPM models
- 30 GPM (2 pin) 063-0173-164



Owensboro, KY  
270.684.4202

Russellville, KY  
270.725.8948

Greensburg, IN  
812.222.1220

Mt. Vernon, IL  
618.847.0283

## TeeJet Electric Valves



### 1" 2-Way Shutoff Ball Valve 32 GPM

Part # 344-BE-24-C



- 25 RPM, 0.6 second shutoff fully open to close
- Flexible inlet/outlets provide quick simple plumbing for a single valve
- 2-Way valves allow complete shutoff while 3-Way valves divert flow to a bypass line when boom controls are shut off



### 3/4" 3-Way Shutoff/Bypass Valve 24 GPM

Part # 344-BE-33-C

- Stainless steel stem with optional polypropylene or stainless steel ball
- Maximum pressure rating is 300 psi.
- 5 PSI Pressure Drop

## Electronic Bypass Control Valves

- The three-way solenoid-operated DirectoValve control valve bypasses boom flow to maintain constant spraying pressure when one or more boom sections are shut off
- For pressures to 65 PSI; 8 GPM flow at only 5 PSI pressure drop
- 2.5 amp current draw
- Encapsulated 12 VDC coil can be changed without removing valve from line
- Chemical Resistant Body and Internal Components



AA144A-1-3

## 100 PSI Electric Solenoid Valve

- For Pressures up to 100 PSI
- 10 GPM flow with only 5 PSI pressure drop
- 2.5 amp current draw
- Polypropylene body for chemical resistance
- Fabric reinforced diaphragms
- Also available as 2- or 3-unit assembly



AA144A-1

## Electric Butterfly Valve

The AA244C remote control electric regulation valve has been specifically designed to provide remote pressure control in agricultural applications using DirectoValve solenoid shutoff valves.

- Unrestricted flow when wide open
- 5 psi pressure loss for 28.4 gpm flow
- Bypass flow rate: 2 gpm at 10 psi
- Maximum operating pressure of 100 psi
- Two-wire lead for use in 12 VDC system
- 3/4" (F) NPT or BSPT connections
- Good corrosion resistance
- 20 second response time



Part # 21773-244C-3/4

## 2-Way 3-Valve Shutoff Manifold

- 25 RPM, 0.6 second shutoff fully open to close
- Flexible inlet/outlet connections
- Stainless steel stem
- Maximum pressure rating of 200 psi
- Flow rate of 32 gpm with 5 psi pressure drop



Part # 453BEC-2F-C

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51

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# RAVEN

## Raven Flow Meters

Raven RFM flow meters are compatible with most chemicals and liquids. A turn down ratio of 50:1 makes any flow meter in the RFM series an ideal choice for most agricultural and industrial applications. With a wide variety of flow capacities and housing, turbine, shaft and bearing materials, we're sure to have a flow meter to match your application needs.

For monitoring liquid and manure applications, our Magmeter Series is specially designed without turbines so you won't miss a beat. Both RFM and Magmeter flow meters are programmed to run flawlessly with all Raven consoles, field computers, and control area network (CAN) systems.



Part #	Flow Meter	Flow Rate	Material	Fittings	Pinning
063-0173-448	RFM 5	0.1-5 GPM	Stainless Steel	1/4" NPT	3 Pin Conxall
063-0172-040	RFM 15	0.3-15 GPM	Poly	M200 Flanged/ 1-1/2" NPT	3 Pin Conxall
063-0171-793	RFM 60P	1-60 GPM	Poly	M200 Flanged/ 1-1/2" NPT	3 Pin Conxall
063-0172-457	RFM 60P High Pulse	1.5-60 GPM	Poly	M200 Flanged/ 1-1/2" NPT	3 pin Deutsch
063-0171-666	RFM 60S (NH3)	1-60 GPM	Stainless Steel	1-1/2" NPT	3 Pin Conxall
063-0173-578	RFM 100	5-100 GPM	Poly	M220 Flanged/ 2" NPT	3 Pin Conxall
063-0173-578	RFM 100P	3-100 GPM	Poly	M200 Flanged	3 Pin Conxall
063-0173-579	RFM 200P	15-200 GPM	Poly	M300 Flanged/ 3" NPT	3 Pin Conxall
063-0173-148	Magmeter-3"	22-995 GPM	Stainless Steel/ Teflon	ANSI B16.5	3 Pin Conxall
063-0173-149	Magmeter-4"	35-1493 GPM	Stainless Steel/ Teflon	ANSI B16.5	3 Pin Conxall
063-0173-150	Magmeter-6"	70-3000 GPM	Stainless Steel/ Teflon	ANSI B16.5	3 Pin Conxall



## Sensors



Granular Encoders

Part #	Description
063-0171-071	180 CPR, 50 RPM Max
063-0171-114	36 CPR
063-0171-443	180 CPR, 25'
063-0171-786	360 CPR, 3 Pin WP
46436150051	180 CPR, 18"



Spinner Encoders

Part #	Description
117-0159-575	Sensor w/ Mount, 3 pin WP
063-0171-277	Sensor, 3 pin WP
16-05000	Sensor Only, 3 pin MetroPak
45-05114	20' Cable, 3 pin MetroPak to 3 pin WP
16-05004	Sensor & Cable, 3 pin WP



Pressure Transducers

Part #	Description
422-0000-090	1/4" SS MPT 0-250 psi
TD6828	1/4" SS MPT 0-250 psi

\*Same connection, wired differently



Gear Sensors

Part #	Description
063-0172-443	Gear Tooth Speed Sensor
063-0159-881	DJ Shaft Sensor Adapter (Amp)
063-0159-997	DJ Shaft Sensor Adapter (WP)
063-0159-981	Rawson Gear Tooth Sensor (Conxall)

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53

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