

Motorized UPVC Ball Valve

2-Way Configuration | NPT Thread | 1/2" to 3/4"

A compact, threaded UPVC ball valve with integrated electric actuator, designed for automated flow control up to 185 psi.



Features

- Corrosion-free UPVC body construction for aggressive environments
- Electric motorized actuation
- Full port design
- High flow capacity
- Durable with long lifespan
- Anti-water hammer performance
- Compatible with corrosive media like salt water, acids, and mild chemical solutions
- Suitable for continuous duty applications
- IP67 (NEMA 4 equivalent) rated actuator enclosure
- Easy to install

Industrial Applications

- Process Water Control
- Chemical Transfer and Dosing Systems
- Water and Wastewater Treatment Facilities
- Aquaculture and Swimming Pool Systems
- Compressed Air Systems
- Food and Beverage Processing Equipment (Non-Sanitary Applications)
- Chemical Processing
- HVAC and Building Automation
- Water Distribution and Irrigation Networks

*These are not intended for use in medical life support, combustion, aviation, aerospace, automotive or similar applications.

Approvals

- CE compliant (EMC Directive 2014/30/EU)
- EMC compliant (EN 61000 series)

Valve Specification

Pipe Connection		Operating Pressure (psi)		Media Temperature (°F)		Compatible Actuators
Size (in)	Thread Connection	Min	Max	Min	Max	
1/2	NPT - Female	0	185	35	130	XR33
3/4	NPT - Female	0	185	35	130	XR33

Materials of Construction

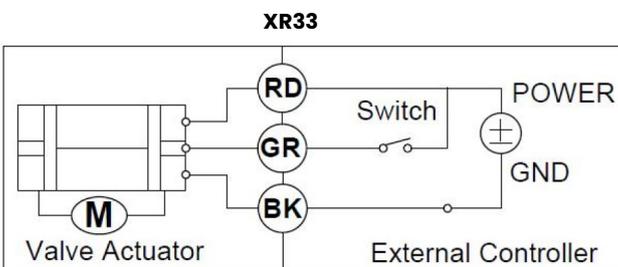
Valve Parts	Material
Body	UPVC
Components	UPVC
Ball Seat	PTFE
Seal	EPDM

*Consult a chemical compatibility expert for correct seal and valve body material choice.

Actuator Electrical Data

Actuator	Wiring Type	Actuation Method	Working Current	Supply Voltage	Actuator Connection
XR33	3-wire	Direct Motor-Driven	≤ 500 mA	9-24V AC/DC	Lead Wires

Actuator Wiring Diagram



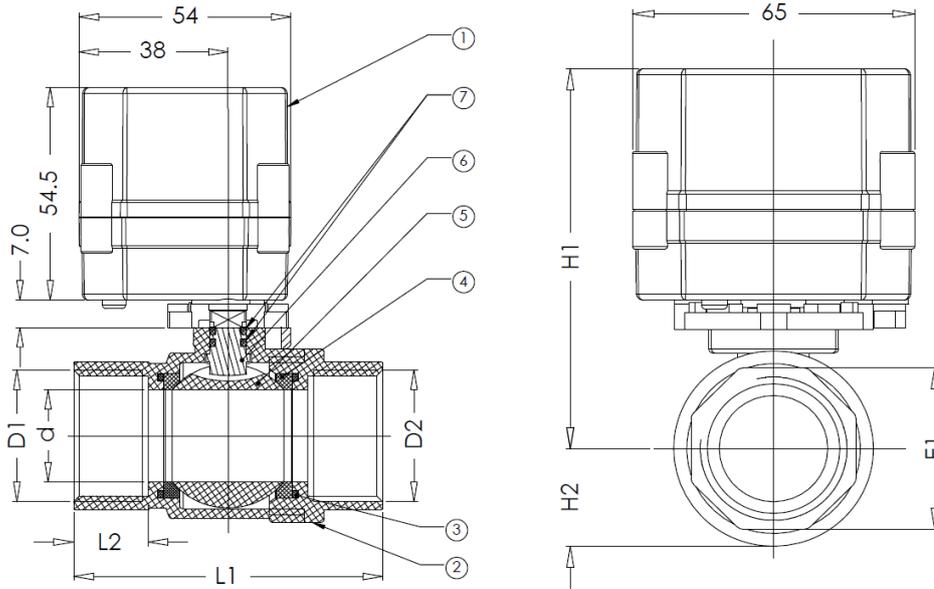
Actuator Operational Information

Actuator	Fail Position	Ambient Temperature (°F)	Max Torque (Nm)	Duty Rating ⁽¹⁾	Recommended Maximum Cycling Rate	Open / Close Time
XR33	Last Position	5 to 120	3	100% ED	≤ 3 cycles / min	≤ 8 sec

(1) Duty rating is at ambient temperature

Motorized UPVC Ball Valve

2-Way Configuration | NPT Thread | 1/2" to 3/4"



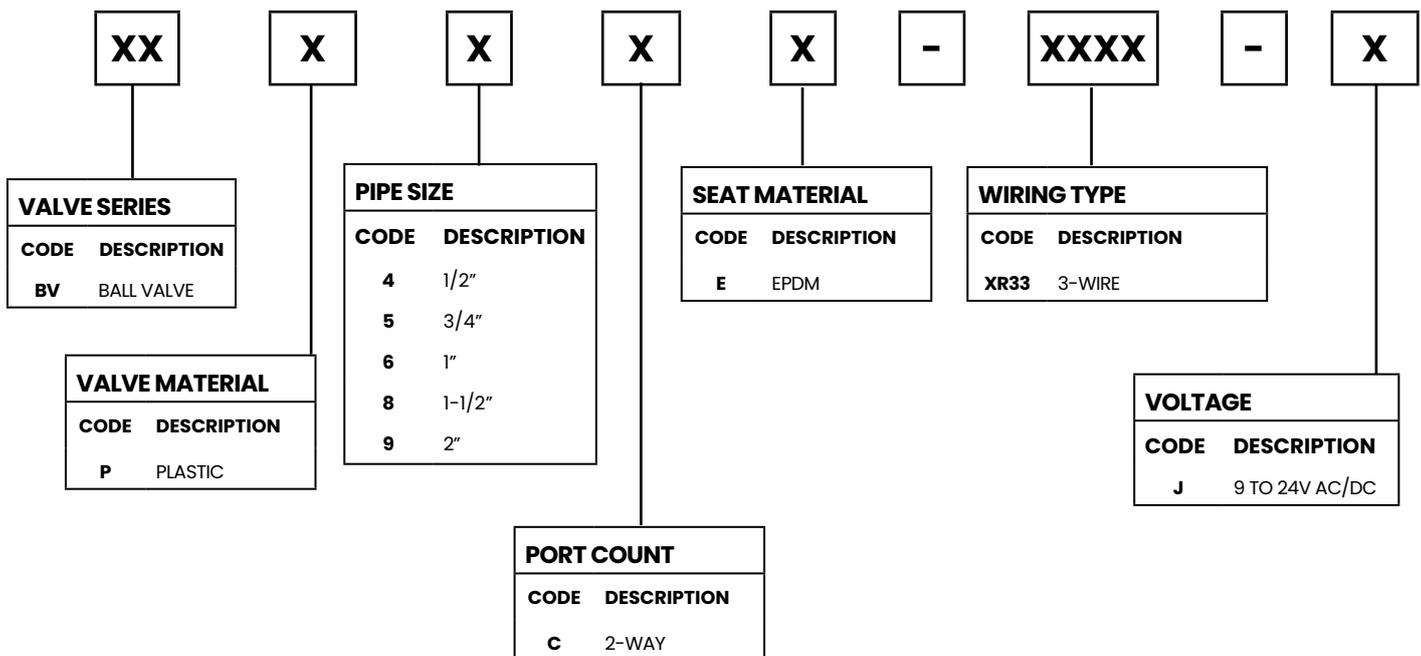
Parts List

No.	Valve Parts	Material	Qty
1	Actuator	PPO	1
2	Valve Body	UPVC	1
3	O-Ring	EPDM	2
4	Seat	PTFE	1
5	Ball	UPVC	1
4	Valve Stem	UPVC + SS304	1
7	O-Ring	FKM	2

Dimension - Metric

Pipe Size (in)	Dimension (mm)						
	D1/D2	d ±0.3	L1 ±1.0	L2 ±1.0	E1 ±0.5	H1 ±1.0	H2
1/2	1/2"	14	60	12	29.5	88.8	19.5
3/4	3/4"	17	73	17	37	90.5	22

Product Ordering Code



EXAMPLE:

BVP4CE-XR33-J - Indicates a Plastic Ball Valve, 2 way, 1/2" port size, EPDM seal, XR33 actuator 3-wire, 9 to 24 VAC/DC