

Motorized Brass Ball Valve

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

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



Features

- Electric motorized actuation
- Full port design
- High flow capacity
- Durable with long lifespan
- Anti-water hammer performance
- Power required during actuation only
- Suitable for continuous duty applications
- IP67 (NEMA 4 equivalent) rated actuator enclosure
- Easy to install

Industrial Applications

- Process Water Control
- Compressed Air Systems
- Chemical Processing
- HVAC and Building Automation
- Water Distribution Lines
- Filtration Systems

*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	200	XR22, XR33
3/4	NPT - Female	0	185	35	200	XR22, XR33
1	NPT - Female	0	185	35	200	XR22, XR33

Materials of Construction

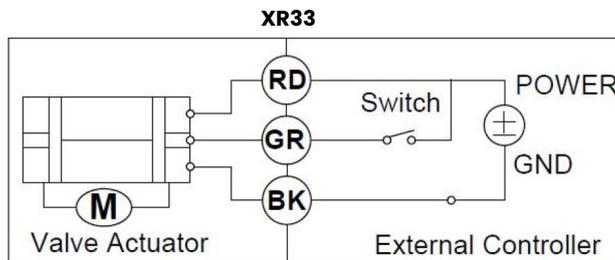
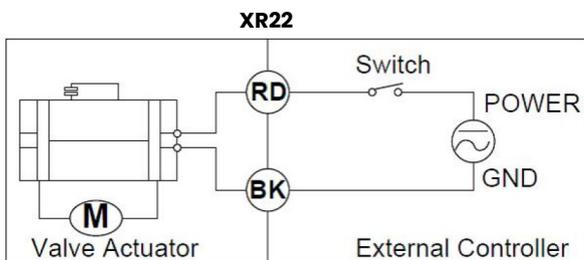
Valve Parts	Material
Body	Brass
Components	Stainless Steel
Ball Seat	PTFE
Seal	FKM (Viton® equivalent)

*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
XR22	2-Wire	Capacitor-Assisted	≤500 mA	9-24V AC/DC, 110-230V AC	Lead Wires
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⁾	Min. Energized Time (s)	Recommended Maximum Cycling Rate	Open / Close Time (s)
XR22	Fail Close	5 to 120	3	100% ED	60	≤ 50 cycles/hour	≤ 5 sec
XR33	Last Position	5 to 120	3	100% ED	-	≤ 3 cycles / min	≤ 5 sec

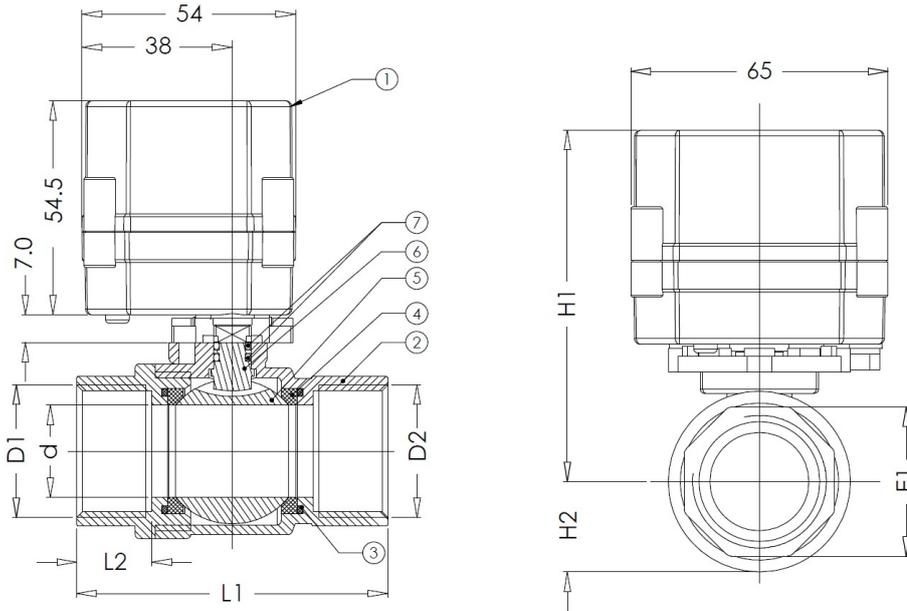
(1) Duty rating is at ambient temperature

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Parts List

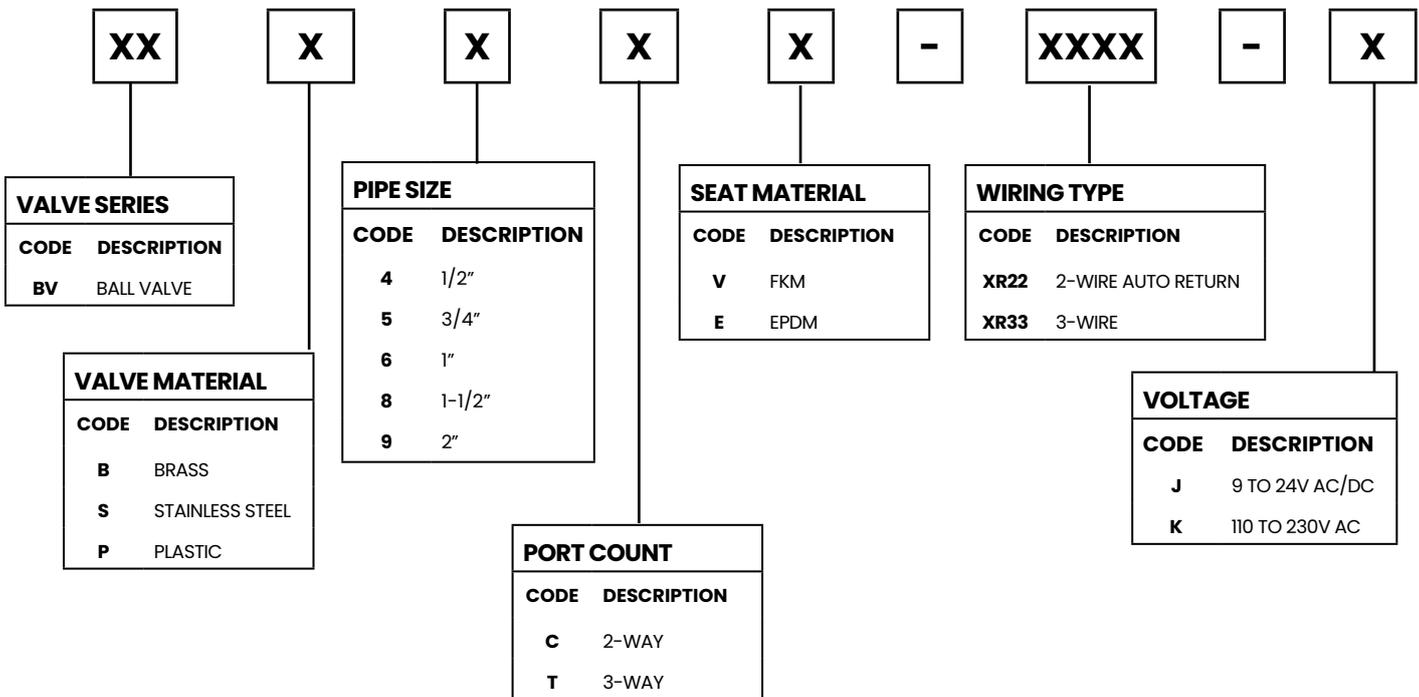
No.	Valve Parts	Material	Qty
1	Actuator	PPO	1
2	Valve Body	Brass	1
3	O-Ring	EPDM	2
4	Seat	PTFE	1
5	Ball	SS304	1
4	Valve Stem	Brass	1
7	O-Ring	FKM	2



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"	15	57	12	25	83.5	16
3/4	3/4"	20	65.5	15	31	88.5	19
1	1"	23.5	71.5	16	38	89	22

Product Ordering Code



EXAMPLE:

BV6CV-XR22-J - Indicates a brass ball valve, 2 way, 1" port size, FKM seal, XR22 actuator 2 wire auto return, 9 to 24 VAC/DC