

# Motorized Brass Ball Valve

3-Way L-Port | NPT Thread | 1/2" to 1"

A compact 3-Way L-Port Brass Electric Ball Valve Rated to 185 psi for Automated Flow Diversion.



## Features

- Electric motorized actuation
- 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
- 3-Way L-Port design for directional flow diversion
- Easy to install

## Industrial Applications

- Process Water Control and Flow Diversion
- Compressed Air Systems
- General Chemical Handling (Non-Aggressive Media)
- HVAC and Building Automation Changeover Systems
- Industrial Water Distribution and Line Switching
- Filtration Systems with Bypass Routing
- Equipment Bypass and Maintenance Isolation Loops
- Tank Fill and Discharge Routing Systems
- Dual Supply Changeover (Primary and Backup Line Switching)
- Utility Skids and Automated Washdown Systems
- Cooling or Heating Loop Changeover Control

\*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)

## 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.

## Valve Specification

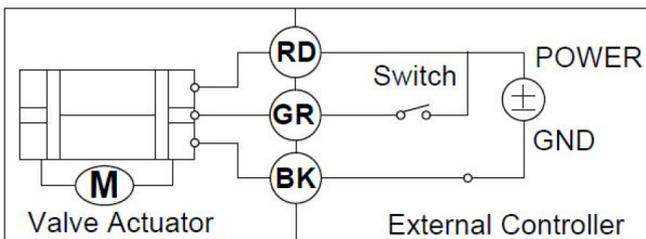
Pipe Connection		Operating Pressure (psi)		Media Temperature (°F)		Compatible Actuators
Size (in)	Thread Connection	Min	Max	Min	Max	
1/2	NPT - Female	0	185	35	200	XR33
3/4	NPT - Female	0	185	35	200	XR33
1	NPT - Female	0	185	35	200	XR33

## 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, 110-230V AC	Lead Wires

## Actuator Wiring Diagram

XR33



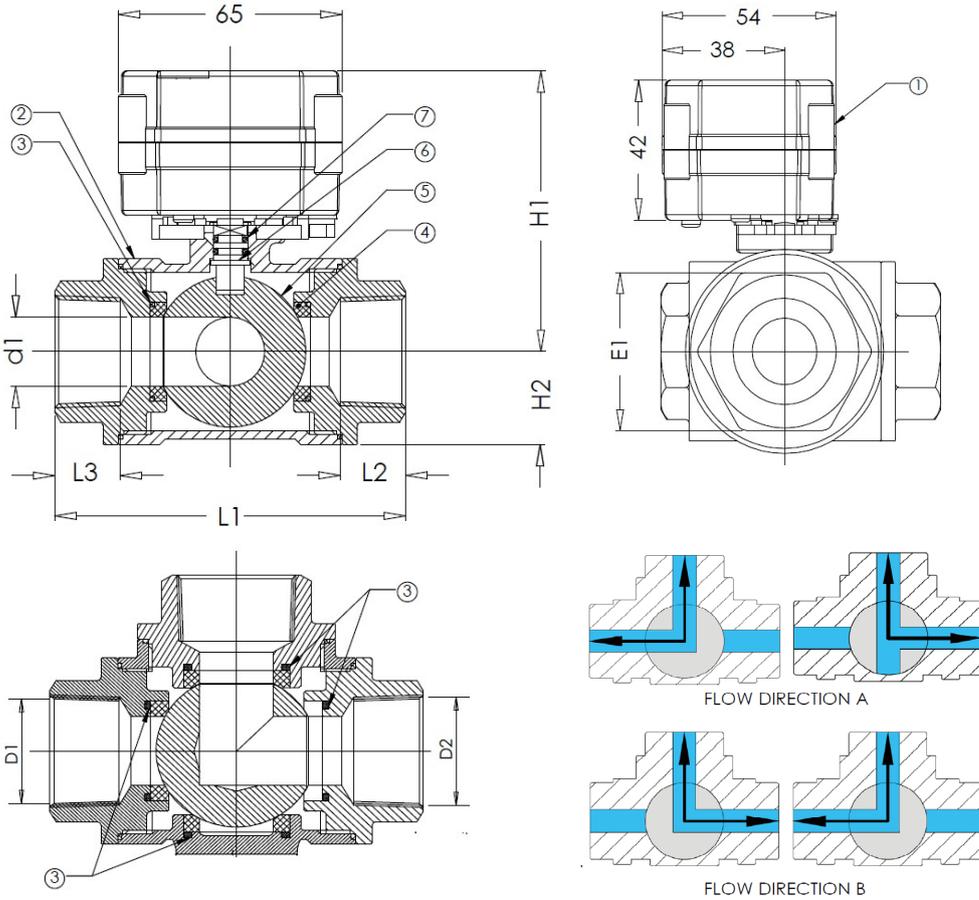
## Actuator Operational Information

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

(1) Duty rating is at ambient temperature

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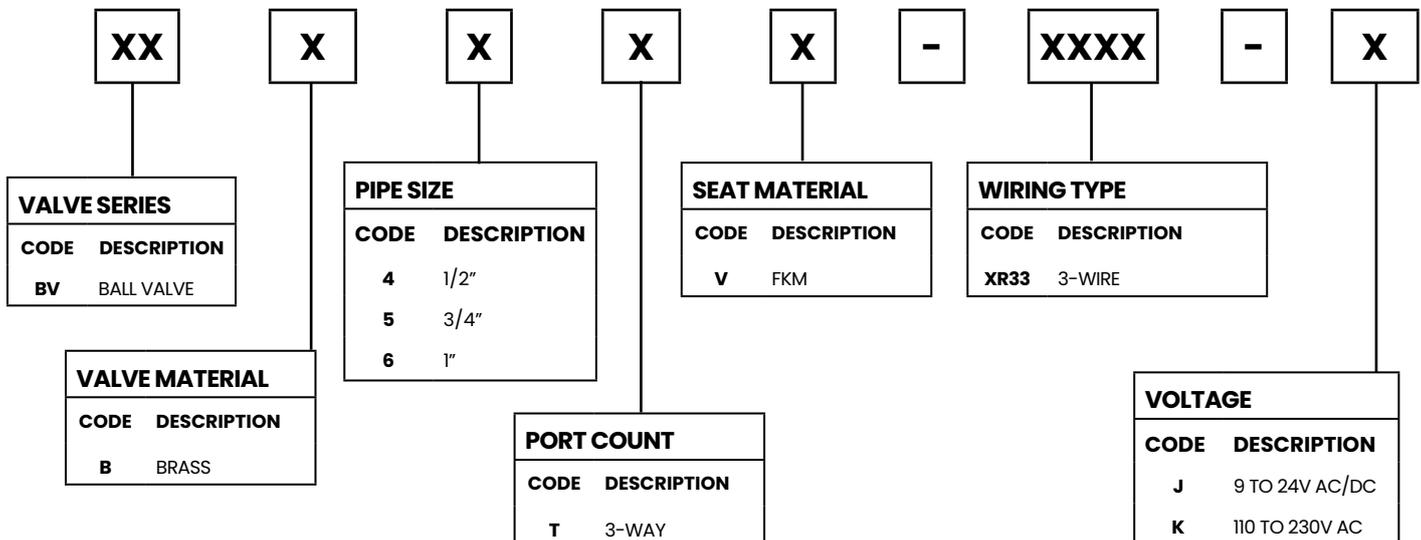
## Parts List

No.	Valve Parts	Material	Qty
1	Actuator	PPO	1
2	Valve Body	Brass	1
3	O-Ring	FKM	4
4	Seat	PTFE	1
5	Ball	SS304	1
6	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"	12	70	17.5	27	72.5	17
3/4	3/4"	15	75	17	31	76	20.5
1	1"	18	85	17.8	38	78	22.5

## Product Ordering Code



### EXAMPLE:

**BV6TV-XR33-J** - Indicates a brass ball valve, 3-way, 1" port size, FKM seal, XR33 actuator, 9 to 24 VAC/DC