

# 2-PIECE NPT BRASS BALL VALVES

Full Port, Vented Ball, Electric or Pneumatic Actuators



WE08-EHD00



WE08-EDA02



WE08-ETD01-A



WE08-ETI02-A



The **Series WE08 2-Piece NPT Brass Ball Valves** incorporate a full port 2-piece brass ball valve for great flow rates with minimal pressure drop. The valve features a blowout proof stem for added safety, reinforced PTFE seats and seals for longer life, and a brass ball for better performance. Actuators are direct mounted creating a compact assembly for tight spaces.

The Series WE08 can be configured with either an electric or pneumatic actuator. Electric actuators are available in weatherproof or explosion-proof, a variety of supply voltages, and two-position or modulating control. Two-position actuators use the supply voltage to drive the valve open or closed, while the modulating actuator accepts a 4-20 mA input for valve positioning. Actuators feature thermal overload protection and permanently lubricated gear train.

The pneumatic double acting actuator uses an air supply to drive the valve open and closed. The actuator has two supply ports, with one driving the valve open and the other driving the valve closed. Spring return pneumatic actuators use the air supply to open the valve and internally loaded springs return the valve to the closed position. Also, between the air supply ports for opening and closing the valve, actuators are constructed of anodized and epoxy coated aluminum for years of corrosion free service.

## BENEFITS/FEATURES

- Capable of being configured to fit any application
- Limit switches can be mounted to manual valves for remote monitoring
- Vented ball to reduce operating torque
- Weatherproof or explosion-proof electric actuators
- Double acting or spring return anodized aluminum pneumatic actuators
- Full port design reduces the pressure drop across the valve

## APPLICATIONS

- Gas or liquid flow control
- Ideal for quick bubble tight shut-off

## SPECIFICATIONS

### VALVE

**Service:** Compatible liquids and gases.

**Body:** 2-piece.

**Line Sizes:** 1/2 to 2".

**End Connections:** Female NPT.

**Pressure Limits:** 600 psi (41 bar) WOG.

**Wetted Materials:** Body, ball, and stem: Brass; Seat, seal, and packing: PTFE.

**Temperature Limits:** -20 to 425°F (-30 to 220°C).

**Other Materials:** O-ring: NBR; Handle, stem nut, ferrule: SS; Handle sleeve: Vinyl; Body and cap: Nickel plated.

**Agency Approvals:** Meets the technical requirements of EU Directive 2011/65/ EU (RoHS II).

### ACTUATORS

#### Pneumatic "DA" and "SR" Series

**Type:** DA series is a double acting and SR series is a spring return (rack and pinion).

**Normal Supply Pressure:** DA: 40 to 115 psi (2.7 to 7.9 bar); SR: 80 psi (5.5 bar).

**Maximum Supply Pressure:** 120 psi (8.6 bar).

**Air Connections:** DA02 to DA03: 1/4" female NPT; SR02 to SR04: 1/4" female NPT.

**Housing Material:** Anodized aluminum body and epoxy coated aluminum end caps.

**Temperature Limits:** -40 to 176°F (-40 to 80°C).

**Accessory Mounting:** NAMUR standard.

#### Electric "TD" and "MD" Series

**Power Requirements:** 110 VAC, 220 VAC, 24 VAC, or 24 VDC (MD models not available in 24 VDC).

**Power Consumption:** See instruction manual.

**Cycle Time (per 90°):** TD01 4 s; MD01: 10 s; TD02: 20 s).

**Duty Rating:** 85%.

**Enclosure Rating:** NEMA 4X (IP67).

**Housing Material:** Powder coated aluminum.

**Temperature Limits:** -22 to 140°F (-30 to 60°C).

**Electrical Connection:** 1/2" female NPT.

**Modulating Input:** 4-20 mA.

**Standard Features:** Manual override, position indicator, and TD models come with two limit switches.

#### Electric "TI" and "MI" Series

**Power Requirements:** 110 VAC, 220 VAC, 24 VAC, 24 VDC.

**Power Consumption:** See instruction manual.

**Cycle Time (per 90°):** See instruction manual.

**Duty Rating:** See instruction manual.

**Enclosure Rating:** NEMA 7, designed to meet hazardous locations: Class I, Group C & D; Class II, Group E, F & G; Division I & II.

**Housing Material:** Powder coated aluminum.

**Temperature Limits:** -40 to 140°F (-40 to 60°C).

**Electrical Connection:** 1/2" female NPT.

**Modulating Input:** 4-20 mA.

**Standard Features:** Position indicator and two limit switches.

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MODEL CHART						
Size	Cv (gal/min)	Popular Hand Operated Model	Popular Double Acting Pneumatic Model	Popular Spring Return Pneumatic Model	Popular NEMA 4X Two Position Electric (110 VAC) Model	Popular NEMA 4X Modulating Electric (110 VAC) Model
1/2"	16	WE08-CHD00	WE08-CDA02	WE08-CSR02	WE08-CTD01-A	WE08-CMD01-A
3/4"	40	WE08-DHD00	WE08-DDA02	WE08-DSR03	WE08-DTD01-A	WE08-DMD01-A
1"	65	WE08-EHD00	WE08-EDA02	WE08-ESR03	WE08-ETD01-A	WE08-EMD01-A
1-1/4"	90	WE08-FHD00	WE08-FDA03	WE08-FSR03	WE08-FTD01-A	WE08-FMD01-A
1-1/2"	135	WE08-GHD00	WE08-GDA03	WE08-GSR03	WE08-GTD01-A	WE08-GMD01-A
2"	251	WE08-HHD00	WE08-HDA03	WE08-HSR04	WE08-HTD02-A	WE08-HMD01-A

MODEL CHART - HAND OPERATED AND PNEUMATIC ACTUATOR						
Example	WE08	-EDA02	-A	A	01	WE08-EDA02-AA01
Series	WE08					Brass 2-piece NPT
Size and Actuator		CHD00				1/2" hand operated
		DHD00				3/4" hand operated
		EHD00				1" hand operated
		FHD00				1-1/4" hand operated
		GHD00				1-1/2" hand operated
		HHD00				2" hand operated
		CDA02				1/2" double acting
		DDA02				3/4" double acting
		EDA02				1" double acting
		FDA03				1-1/4" double acting
		GDA03				1-1/2" double acting
		HDA03				2" double acting
		CSR02				1/2" spring return
		DSR03				3/4" spring return
		ESR03				1" spring return
		FSR03				1-1/4" spring return
		GSR03				1-1/2" spring return
		HSR04				2" spring return
Solenoid			N			No solenoid
			A			NEMA 4X NAMUR solenoid
Solenoid Voltage				N		No solenoid
				A		110 VAC
				B		220 VAC
				C		24 VAC
				D		24 VDC
				E		12 VDC
Positioner and Switches					00	None
					01	42AD0 exp limit switch
					02	45VD0 exp position transmitter
					03	42AD0-B ATEX limit switch
					06	QV-210101 poly limit switch
					07	VPS and P1 prox switch
					08	265ER-D5 positioner
					09	285ER-D5 smart positioner
Options					NO	Fail open spring return actuator

MODEL CHART - ELECTRIC ACTUATOR				
Example	WE08	-GMD01	-A	WE08-GMD01-A
Series	WE08			Brass 2-piece NPT
Size and Actuator		CTD01		1/2" electric two-position
		DTD01		3/4" electric two-position
		ETD01		1" electric two-position
		FTD01		1-1/4" electric two-position
		GTD01		1-1/2" electric two-position
		HTD02		2" electric two-position
		CMD01		1/2" electric modulating
		DMD01		3/4" electric modulating
		EMD01		1" electric modulating
		FMD01		1-1/4" electric modulating
		GMD01		1-1/2" electric modulating
		HMD01		2" electric modulating
		CTI01		1/2" exp electric two-position
		DTI01		3/4" exp electric two-position
		ETI02		1" exp electric two-position
		FTI02		1-1/4" exp electric two-position
		GTI02		1-1/2" exp electric two-position
		HTI03		2" exp electric two-position
		CMI01		1/2" exp electric two-position
		DMI01		3/4" exp electric two-position
		EMI02		1" exp electric two-position
		FMI02		1-1/4" exp electric two-position
		GMI02		1-1/2" exp electric two-position
		HMI03		2" exp electric two-position
Actuator Voltage			A	110 VAC
			B	220 VAC
			C	24 VAC
			D	24 VDC