

# 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 to 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.

## FEATURES/BENEFITS

- 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 to 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 to 20 mA.

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



SERIES WE08 | W.E. ANDERSON™ BY DWYER

# 2-PIECE NPT BRASS BALL VALVES

Full Port, Vented Ball, Electric or Pneumatic Actuators

MODEL CHART											
Size	Cv (gal/min)	Popular Hand Operated Model	Price	Popular Double Acting Pneumatic Model	Price	Popular Spring Return Pneumatic Model	Price	Popular NEMA 4X Two Position Electric (110 VAC) Model	Price	Popular NEMA 4X Modulating Electric (110 VAC) Model	Price
1/2"	16	WE08-CHD00	\$26.75 <sup>(B)</sup>	WE08-CDA02	\$175.00 <sup>(B)</sup>	WE08-CSR02	\$192.00 <sup>(B)</sup>	WE08-CTD01-A	\$367.00 <sup>(B)</sup>	WE08-CMD01-A	\$623.00 <sup>(B)</sup>
3/4"	40	WE08-DHD00	34.75 <sup>(B)</sup>	WE08-DDA02	179.00 <sup>(B)</sup>	WE08-DSR03	213.00 <sup>(B)</sup>	WE08-DTD01-A	367.00 <sup>(B)</sup>	WE08-DMD01-A	658.00 <sup>(B)</sup>
1"	65	WE08-EHD00	51.50 <sup>(B)</sup>	WE08-EDA02	193.00 <sup>(B)</sup>	WE08-ESR03	253.00 <sup>(B)</sup>	WE08-ETD01-A	388.00 <sup>(B)</sup>	WE08-EMD01-A	693.00 <sup>(B)</sup>
1-1/4"	90	WE08-FHD00	71.00 <sup>(B)</sup>	WE08-FDA03	242.00 <sup>(B)</sup>	WE08-FSR03	292.00 <sup>(B)</sup>	WE08-FTD01-A	428.00 <sup>(B)</sup>	WE08-FMD01-A	796.00 <sup>(B)</sup>
1-1/2"	135	WE08-GHD00	108.00 <sup>(B)</sup>	WE08-GDA03	284.00 <sup>(B)</sup>	WE08-GSR03	352.00 <sup>(B)</sup>	WE08-GTD01-A	469.00 <sup>(B)</sup>	WE08-GMD01-A	889.00 <sup>(B)</sup>
2"	251	WE08-HHD00	158.00 <sup>(B)</sup>	WE08-HDA03	357.00 <sup>(B)</sup>	WE08-HSR04	453.00 <sup>(B)</sup>	WE08-HTD02-A	509.00 <sup>(B)</sup>	WE08-HMD01-A	1026.00 <sup>(B)</sup>

<sup>(B)</sup> Items are subject to Schedule B discounts.

MODEL CHART - HAND OPERATED & PNEUMATIC ACTUATOR							
Example	WE08	-EDA02	-A	A	01	WE08-EDA02-AA01	Price
Series	WE08					Brass 2-piece NPT	-
Size and Actuator		CHD00				1/2" hand operated	\$26.75 <sup>(B)</sup>
		DHD00				3/4" hand operated	34.75 <sup>(B)</sup>
		EHD00				1" hand operated	51.50 <sup>(B)</sup>
		FHD00				1-1/4" hand operated	71.00 <sup>(B)</sup>
		GHD00				1-1/2" hand operated	108.00 <sup>(B)</sup>
		HHD00				2" hand operated	158.00 <sup>(B)</sup>
		CDA02				1/2" double acting	175.00 <sup>(B)</sup>
		DDA02				3/4" double acting	179.00 <sup>(B)</sup>
		EDA02				1" double acting	193.00 <sup>(B)</sup>
		FDA03				1-1/4" double acting	242.00 <sup>(B)</sup>
		GDA03				1-1/2" double acting	284.00 <sup>(B)</sup>
		HDA03				2" double acting	357.00 <sup>(B)</sup>
		CSR02				1/2" spring return	192.00 <sup>(B)</sup>
		DSR03				3/4" spring return	213.00 <sup>(B)</sup>
		ESR03				1" spring return	253.00 <sup>(B)</sup>
	FSR03				1-1/4" spring return	292.00 <sup>(B)</sup>	
	GSR03				1-1/2" spring return	352.00 <sup>(B)</sup>	
	HSR04				2" spring return	453.00 <sup>(B)</sup>	
Solenoid			N			No solenoid	-
			A			NEMA 4X NAMUR solenoid	+51.50 <sup>(B)</sup>
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	+237.00 <sup>(B)</sup>
					02	45VD0 exp position transmitter	+541.00 <sup>(B)</sup>
					03	42AD0-B ATEX limit switch	+333.00 <sup>(B)</sup>
					06	QV-210101 poly limit switch	+148.00 <sup>(B)</sup>
					07	VPS and P1 prox switch	+212.50 <sup>(B)</sup>
					08	265ER-D5 positioner	+659.00 <sup>(B)</sup>
				09	285ER-D5 smart positioner	+1545.00 <sup>(B)</sup>	
Options					NO	Fail open spring return actuator	-

<sup>(B)</sup> Items are subject to Schedule B discounts.

ACCESSORIES		
Model	Description	Price
AFR4	Air filter regulator, 0 to 120 psi	\$69.50 <sup>(B)</sup>

<sup>(B)</sup> Items are subject to Schedule B discounts.

MODEL CHART - ELECTRIC ACTUATOR					
Example	WE08	-GMD01	-A	WE08-GMD01-A	Price
Series	WE08			Brass 2-piece NPT	-
Size and Actuator		CTD01		1/2" electric two-position	\$367.00 <sup>(B)</sup>
		DTD01		3/4" electric two-position	367.00 <sup>(B)</sup>
		ETD01		1" electric two-position	388.00 <sup>(B)</sup>
		FTD01		1-1/4" electric two-position	428.00 <sup>(B)</sup>
		GTD01		1-1/2" electric two-position	469.00 <sup>(B)</sup>
		HTD02		2" electric two-position	509.00 <sup>(B)</sup>
		CMD01		1/2" electric modulating	623.00 <sup>(B)</sup>
		DMD01		3/4" electric modulating	658.00 <sup>(B)</sup>
		EMD01		1" electric modulating	693.00 <sup>(B)</sup>
		FMD01		1-1/4" electric modulating	796.00 <sup>(B)</sup>
		GMD01		1-1/2" electric modulating	889.00 <sup>(B)</sup>
		HMD01		2" electric modulating	1026.00 <sup>(B)</sup>
		CTI01		1/2" exp electric two-position	732.00 <sup>(B)</sup>
		DTI01		3/4" exp electric two-position	732.00 <sup>(B)</sup>
		ETI02		1" exp electric two-position	757.00 <sup>(B)</sup>
		FTI02		1-1/4" exp electric two-position	876.00 <sup>(B)</sup>
		GTI02		1-1/2" exp electric two-position	969.00 <sup>(B)</sup>
	HTI03		2" exp electric two-position	1347.00 <sup>(B)</sup>	
	CMIO1		1/2" exp electric two-position	1264.00 <sup>(B)</sup>	
	DMIO1		3/4" exp electric two-position	1264.00 <sup>(B)</sup>	
	EMIO2		1" exp electric two-position	1296.00 <sup>(B)</sup>	
	FMI02		1-1/4" exp electric two-position	1327.00 <sup>(B)</sup>	
	GMI02		1-1/2" exp electric two-position	1327.00 <sup>(B)</sup>	
	HMI03		2" exp electric two-position	1581.00 <sup>(B)</sup>	
Actuator Voltage			A	110 VAC	-
			B	220 VAC	-
			C	24 VAC	+72.50 <sup>(B)</sup>
			D	24 VDC	+72.50 <sup>(B)</sup>

<sup>(B)</sup> Items are subject to Schedule B discounts.