Dwyer

2-PIECE NPT STAINLESS STEEL BALL VALVES Full Port, Vented Ball, Electric or Pneumatic Actuators



WE01-EHD00



WF01-FDA02



WE01-EDA02-AA01



WE01-ETI02-A



WF01-FTD01-Δ

The Series WE01 2-Piece NPT Stainless Steel Ball Valves incorporate a full port 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 316 SS (ASTM CF8M) ball for better performance. Actuators are direct mounted creating a compact assembly for tight spaces. Limit switches are able to be mounted directly to

the valves allowing for remote position indication. The Series WE01 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

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 available is the SN solenoid valve to electrically switch the air supply pressure 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

permanently lubricated gear train.

- 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 3".

End Connections: Female NPT. Pressure Limits: 28" Hg to 1000 psi

(-0.7 to 69 bar) up to 250°F.

Wetted Materials: Body and ball: 316

SS (CF8M); Stem: 316 SS; Seat: RTFE/ PTFE; Seal; Washer and packing: PTFE. Temperature Limits: -20 to 392°F (-29

to 200°C).

Other Materials: O-ring:

Fluoroelastomer; Handle: 304 SS; Washer: 301 SS; Stem nut, Locking

device, Gland ring: 304 SS; Handle

sleeve: PVC.

Agency Approvals: Meets the technical requirements of EU Directive 2011/65/

EU (RoHS II).

ACTUATORS

Pneumatic "DA" and "SR" Series

Type: DA series is double acting and SR series is 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: DA01: 1/8" female NPT: DA02 to DA05: 1/4" female NPT: SR02 to SR07: 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

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

Cycle Time (per 90°): TD01 4 s; MD01: 10 s; TD02 and MD02: 20 s; TD03 and MD03: 30 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 or 24 VDC.

Power Consumption: See instruction

Cycle Time (per 90°): See instruction

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

Electrical Connection: 1/2" female NPT.

Modulating Input: 4-20 mA. Standard Features: Position indicator and two limit switches

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MODEL	MODEL CHART						
					Popular NEMA 4X	Popular NEMA 4X	
	Cv	PopularHand	Popular Double Acting	Popular Spring Return	Two Position Electric	Modulating Electric	
Size	(gal/min)	Operated Model	Pneumatic Model	Pneumatic Model	(110 VAC) Model	(110 VAC) Model	
1/2"	36.64	WE01-CHD00	WE01-CDA01	WE01-CSR02	WE01-CTD01-A	WE01-CMD01-A	
3/4"	67.69	WE01-DHD00	WE01-DDA01	WE01-DSR02	WE01-DTD01-A	WE01-DMD01-A	
1″	110.27	WE01-EHD00	WE01-EDA02	WE01-ESR03	WE01-ETD01-A	WE01-EMD01-A	
1-1/4"	184.73	WE01-FHD00	WE01-FDA02	WE01-FSR03	WE01-FTD01-A	WE01-FMD01-A	
1-1/2"	266.62	WE01-GHD00	WE01-GDA03	WE01-GSR04	WE01-GTD02-A	WE01-GMD01-A	
2″	485.3	WE01-HHD00	WE01-HDA03	WE01-HSR05	WE01-HTD02-A	WE01-HMD02-A	
2-1/2"	791.57	WE01-IHD00	WE01-IDA04	WE01-ISR07	WE01-ITD03-A	WE01-IMD03-A	
3″	1151.95	WE01-JHD00	WE01-JDA05	WE01-JSR07	WE01-JTD03-A	WE01-JMD03-A	

Example	WE01	-EDA02	-A	Α	01		WE01-EDA02-AA01
Series	WE01						316 SS 2-piece NPT
Size and		CHD00					1/2" hand operated
Actuator		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
		IHD00					2-1/2" hand operated
		JHD00					3" hand operated
		CDA01					1/2" double acting
		DDA01					3/4" double acting
		EDA02					1" double acting
		FDA02					1-1/4" double acting
		GDA03					1-1/2" double acting
		HDA03					2" double acting
		IDA04					2-1/2" double acting
		JDA05					3" double acting
		CSR02					1/2" spring return
		DSR02					3/4" spring return
		ESR03					1" spring return
		FSR03					1-1/4" spring return
		GSR04					1-1/2" spring return
		HSR05					2" spring return
		ISR07					2-1/2" spring return
		JSR07					3" spring return
Solenoid			N				No solenoid
			Α				NEMA 4X NAMUR solenoid
Solenoid				N			No solenoid
Voltage				Α			110 VAC
				В			220 VAC
				С			24 VAC
				D			24 VDC
				Е			12 VDC
Positioner					00		None
and					01		42AD0 exp limit switch
Switches					02		45VD0 exp position transmitter
					03		42AD0-B ATEX limit switch
					04		42AD0-IE IECEX limit switch
					06		QV-210101 poly limit switch
					07		VPS and P1 prox switch
					80		265ER-D5 positioner
					09		285ER-D5 smart positioner
Options						NO	Fail open spring return actuator

ACCESSORIES				
Model	Description			
AFR4	Air filter regulator 0 to 120 psi			
VB-01	Volume booster			

MODEL CHART - ELECTRIC ACTUATOR				
Example		-GMD01	-A	WE01-GMD01-A
Series	WE01			316 SS 2-piece NPT
Size and		CTD01		1/2" NEMA 4X two-position
Actuator		DTD01		3/4" NEMA 4X two-position
		ETD01		1" NEMA 4X two-position
		FTD01		1-1/4" NEMA 4X two-position
		GTD02		1-1/2" NEMA 4X two-position
		HTD02		2" NEMA 4X two-position
		ITD03		2-1/2" NEMA 4X two-position
		JTD03		3" NEMA 4X two-position
		CMD01		1/2" NEMA 4X modulating
		DMD01		3/4" NEMA 4X modulating
		EMD01		1" NEMA 4X modulating
		FMD01		1-1/4" NEMA 4X modulating
		GMD01		1-1/2" NEMA 4X modulating
		HMD02		2" NEMA 4X modulating
		IMD03		2-1/2" NEMA 4X modulating
		JMD03		3" NEMA 4X modulating
		CTI01		1/2" exp two-position
		DTI01		3/4" exp two-position
		ETI02		1" exp two-position
		FTI02		1-1/4" exp two-position
		GTI02		1-1/2" exp two-position
		HTI04		2" exp two-position
		ITI05		2-1/2" exp two-position
		JTI06		3" exp two-position
		CMI01		1/2" exp electric modulating
		DMI01		3/4" exp electric modulating
		EMI02		1" exp electric modulating
		FMI02		1-1/4" exp electric modulating
		GMI02		1-1/2" exp electric modulating
		HMI04		2" exp electric modulating
		IMI05		2-1/2" exp electric modulating
		JMI06		3" exp electric modulating
Actuator			Α	110 VAC
Voltage			В	220 VAC
			С	24 VAC
			D	24 VDC

REPAIR KIT					
Model	Valve Series and Size				
VRK-02	WE01-1/2"				
VRK-03	WE01-3/4"				
VRK-04	WE01-1"				
VRK-06	WE01-1-1/2"				
VRK-07	WE01-2"				
VRK-08	WE01-2-1/2"				
VRK-09	WE01-3"				
Parts List - Included in Kit					
1 PTFE thrust washer					
1 FKM O-ring					
2 PTFE stem packing					
2 PTFE seals					
2 RTFE seats					