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





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 stainless steel (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 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 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

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 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.

Compliance: 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.

with two limit switches.

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

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 and D; Class II, Group E, F and G; Division I and 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.



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

MODEL CHART						
	Cv	Popular Hand	Popular Double Acting	Popular Spring Return	Popular NEMA 4X Two Position	Popular NEMA 4X Modulating
Size	(gal/min)	Operated Model	Pneumatic Model	Pneumatic Model	Electric (110 VAC) Model	Electric (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

MODEL CHART - HAND OPERATED AND PNEUMATIC ACTUATOR						PNEUMATIC ACTUATOR	
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 HDA03					1-1/2" double acting
		IDA03					2" double acting 2-1/2" double acting
		JDA04 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				Ν			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 07		QV-210101 poly limit switch VPS and P1 prox switch
					08		265ER-D5 positioner
					09		285ER-D5 positioner
Options					US		200LR-DO SHIAR POSITIONEL

ACCESSORIES			
Model	Description		
VB-01	Volume booster		

MODEL CHART - ELECTRIC ACTUATOR					
Example	WE01	-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 HMI04		1-1/2" exp electric modulating	
		IMI04		2" exp electric modulating	
		JMI05		2-1/2" exp electric modulating 3" exp electric modulating	
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Actuator			A	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					
Z IVII L Jouis					