3-WAY NPT STAINLESS STEEL BALL VALVE

Full Port, Vented Ball, Electric or Pneumatic Actuators



WE31-DHD00-T1



WF31-DDA02-I 1



WE31-DDA02-T1-AA01



WF31-DDA02-T3-NN05



The SERIES WE31 incorporates a full port 3-way SS 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 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 WE31 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 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
- 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
- · Mixing or diverting liquids and gases

SPECIFICATIONS

VALVE

Service: Compatible liquids and gases.

Body: 3-way.

Line Sizes: 1/2 to 2".

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.

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 DA04: 1/4" female NPT: SR03 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 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

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 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 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 to 20 mA. Standard Features: Position indicator

and two limit switches.

WARWICKY TEL: 302-595-9104 sales@warwicky.com



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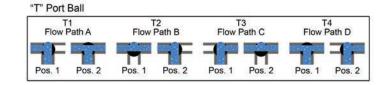
MODEL CHART							
					Popular	Popular	
			Popular	Popular	NEMA 4X	NEMA 4X	
	Cv	Popular	Double Acting	Spring Return	Two Position	Modulating	
	(gal/	Hand Operated	Pneumatic	Pneumatic	Electric (110 VAC)	Electric (110 VAC)	
Size	min)	Model	Model	Model	Model	Model	
1/2"	11	WE31-CHD00-T1	WE31-CDA02-T2	WE31-CSR02-T2	WE31-CTD01-T2-A	WE31-CMD01-T2-A	
3/4"	14	WE31-DHD00-T1	WE31-DDA02-T2	WE31-DSR02-T2	WE31-DTD01-T2-A	WE31-DMD01-T2-A	
1″	18	WE31-EHD00-T1	WE31-EDA03-T2	WE31-ESR04-T2	WE31-ETD02-T2-A	WE31-EMD02-T2-A	
1-1/4"	43	WE31-FHD00-T1	WE31-FDA03-T2	WE31-FSR05-T2	WE31-FTD02-T2-A	WE31-FMD02-T2-A	
1-1/2"	84	WE31-GHD00-T1	WE31-GDA04-T2	WE31-GSR06-T2	WE31-GTD03-T2-A	WE31-GMD03-T2-A	
2"	90	WE31-HHD00-T1	WE31-HDA04-T2	WE31-HSR07-T2	WE31-HTD03-T2-A	WE31-HMD03-T2-A	

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MODEL CHART - HAND OPERATED & PNEUMATIC ACTUATOR							
Example	WE31			_		00	
Series	WE31						316 SS 3-way NPT
Size and		CHD00					1/2" hand operated
Range		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
		EDA03					1" double acting
		FDA03					1-1/4" double acting
		GDA04					1-1/2" double acting
		HDA04					2" double acting
		CSR02					1/2" spring return
		DSR02					3/4" spring return
		ESR04					1" spring return
		FSR05					1-1/4" spring return
		GSR06					1-1/2" spring return
		HSR07					2" spring return
Valve			T1				Flow path A
Position			T2				Flow path B
			T3				Flow path C
			T4				Flow path D
Solenoid			L1	N			Flow path E No solenoid
Solenoia				A			NEMA 4X NAMUR solenoid
Solenoid				A	N		No solenoid
Voltage					A		110 VAC
Voltage					В		220 VAC
					C		24 VAC
					D		24 VDC
					E		12 VDC
Positioner						00	None
and						01	42AD0 exp limit switch
Switches						02	
						03	42AD0-B ATEX limit switch
						04	42AD0-IE IECEX limit switch
						05	VPI-M01 NEMA 4X limit switch
						06	QV-210101 poly limit switch
						07	VPS and P1 prox switch
						08	
						09	285ER-D5 smart positioner

MODEL CHART - ELECTRIC ACTUATOR					
Example	WE31	-DMI02	-T2	-A	WE31-DMI02-T2-A
Series	WE31				316 SS 3-way NPT
Size and		CTD01			1/2" NEMA 4X two-position
Range		DTD01			3/4" NEMA 4X two-position
_		ETD02			1" NEMA 4X two-position
		FTD02			1-1/4" NEMA 4X two-position
		GTD03			1-1/2" NEMA 4X two-position
		HTD03			2" NEMA 4X two-position
		CMD01			1/2" NEMA 4X modulating
		DMD01			3/4" NEMA 4X modulating
		EMD02			1" NEMA 4X modulating
		FMD02			1-1/4" NEMA 4X modulating
		GMD03			1-1/2" NEMA 4X modulating
		HMD03			2" NEMA 4X modulating
		CTI01			1/2" exp two-position
		DTI02			3/4" exp two-position
		ETI02			1" exp two-position
		FTI04			1-1/4" exp two-position
		GTI05			1-1/2" exp two-position
		HTI06			2" exp two-position
		CMI01			1/2" exp electric modulating
		DMI02			3/4" exp electric modulating
		EMI02			1" exp electric modulating
		FMI04			1-1/4" exp electric modulating
		GMI05			1-1/2" exp electric modulating
		HMI06			2" exp electric modulating
Valve			T1		Flow path A
Position			T2		Flow path B
			Т3		Flow path C
			T4		Flow path D
			L1		Flow path E
Actuator				Α	110 VAC
Voltage				В	220 VAC
				С	24 VAC
				D	24 VDC

ACCESSORIES			
Model	Description		
R2-2120	Air regulator		
AFR2-2	Instrument air filter regulator		
VB-01	Volume booster		



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