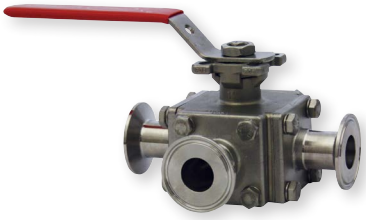
Dwyer

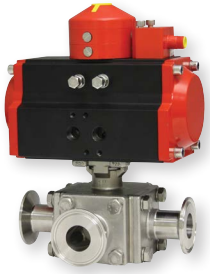
SERIES WE33 | W.E. ANDERSON™ BY DWYER

3-WAY TRI-CLAMP STAINLESS STEEL BALL VALVES

Cavity Filled, Electric and Pneumatic Actuators



WE33-DHD00-T2



WE33-ESR03-T1-NN07

WE33-DDA01-L1-AA06

WE33-DTD01-T3-A

WE33-DTI01-T2-A

The **Series WE33 3-Way Tri-Clamp Stainless Steel Ball Valves** incorporate a full port 3-way tri-clamp 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 WE33 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 close, 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
- Cavity filled valve for sanitary applications
- 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:** Tri-clamp ends. **Pressure Limits:** 20″ 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 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 and MD02: 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 or 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.

Dwyer

SERIES WE33 | W.E. ANDERSON™ BY DWYER

3-WAY TRI-CLAMP STAINLESS STEEL BALL VALVES

Cavity Filled, Electric and 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″	14.39	**WE33-CHD00-T2**	**$442.00**Ⓑ	**WE33-CDA01-T2**	**$526.00**Ⓑ	**WE33-CSR02-T2**	**$618.00**Ⓑ	**WE33-CTD01-T2-A**	**$927.00**Ⓑ	**WE33-CMD01-T2-A**	**$1484.00**Ⓑ
3/4″	42.25	**WE33-DHD00-T2**	**494.00**Ⓑ	**WE33-DDA01-T2**	**618.00**Ⓑ	**WE33-DSR02-T2**	**680.00**Ⓑ	**WE33-DTD01-T2-A**	**989.00**Ⓑ	**WE33-DMD01-T2-A**	**1669.00**Ⓑ
1″	86.17	**WE33-EHD00-T2**	**577.00**Ⓑ	**WE33-EDA02-T2**	**866.00**Ⓑ	**WE33-ESR03-T2**	**927.00**Ⓑ	**WE33-ETD01-T2-A**	**1175.00**Ⓑ	**WE33-EMD01-T2-A**	**1854.00**Ⓑ
1-1/2″	223.61	**WE33-GHD00-T2**	**987.00**Ⓑ	**WE33-GDA02-T2**	**1360.00**Ⓑ	**WE33-GSR04-T2**	**1484.00**Ⓑ	**WE33-GTD02-T2-A**	**1607.00**Ⓑ	**WE33-GMD02-T2-A**	**2225.00**Ⓑ
2″	437.98	**WE33-HHD00-T2**	**1410.00**Ⓑ	**WE33-HDA03-T2**	**1607.00**Ⓑ	**WE33-HSR04-T2**	**1731.00**Ⓑ	**WE33-HTD02-T2-A**	**1854.00**Ⓑ	**WE33-HMD02-T2-A**	**2349.00**Ⓑ

Ⓑ Items are subject to Schedule B discounts.

MODEL CHART - HAND OPERATED & PNEUMATIC ACTUATOR

Example	WE33	-CSR02	-T4	-N	N	07	WE33-CSR02-T4-NN07	Price
Series	WE33						316 SS 3-way tri-clamp	-
Size and Actuator		CHD00					1/2″ hand operated	**$442.00**Ⓑ
		DHD00					3/4″ hand operated	**494.00**Ⓑ
		EHD00					1″ hand operated	**577.00**Ⓑ
		GHD00					1-1/2″ hand operated	**987.00**Ⓑ
		HHD00					2″ hand operated	**1410.00**Ⓑ
		CDA01					1/2″ double acting	**526.00**Ⓑ
		DDA01					3/4″ double acting	**618.00**Ⓑ
		EDA02					1″ double acting	**866.00**Ⓑ
		GDA02					1-1/2″ double acting	**1360.00**Ⓑ
		HDA03					2″ double acting	**1607.00**Ⓑ
		CSR02					1/2″ spring return	**618.00**Ⓑ
		DSR02					3/4″ spring return	**680.00**Ⓑ
		ESR03					1″ spring return	**927.00**Ⓑ
		GSR04					1-1/2″ spring return	**1484.00**Ⓑ
		HSR04					2″ spring return	**1731.00**Ⓑ
Valve Position			T1				Flow path A	-
			T2				Flow path B	-
			T3				Flow path C	-
			T4				Flow path D	-
			L1				Flow path E	-
Solenoid				N			No solenoid	-
				A			NEMA 4X NAMUR solenoid	**+51.50**Ⓑ
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**Ⓑ
						02	45VD0 exp position transmitter	**+541.00**Ⓑ
						03	42AD0-B ATEX limit switch	**+333.00**Ⓑ
						04	42AD0-IE IECEX limit switch	**+330.00**Ⓑ
						06	QV-210101 poly limit switch	**+148.00**Ⓑ
						07	VPS and P1 prox switch	**+212.50**Ⓑ
						08	265ER-D5 positioner	**+659.00**Ⓑ
						09	285ER-D5 smart positioner	**+1545.00**Ⓑ

Ⓑ Items are subject to Schedule B discounts.

MODEL CHART - ELECTRIC ACTUATOR

Example	WE33	-DMD01	-T2	-B	WE33-DMD01-T2-B	Price
Series	WE33				316 SS 3-way tri-clamp	-
Size and Actuator		CTD01			1/2″ NEMA 4X two-position	**$927.00**Ⓑ
		DTD01			3/4″ NEMA 4X two-position	**989.00**Ⓑ
		ETD01			1″ NEMA 4X two-position	**1175.00**Ⓑ
		GTD02			1-1/2″ NEMA 4X two-position	**1607.00**Ⓑ
		HTD02			2″ NEMA 4X two-position	**1854.00**Ⓑ
		CMD01			1/2″ NEMA 4X modulating	**1484.00**Ⓑ
		DMD01			3/4″ NEMA 4X modulating	**1669.00**Ⓑ
		EMD01			1″ NEMA 4X modulating	**1854.00**Ⓑ
		GMD02			1-1/2″ NEMA 4X modulating	**2225.00**Ⓑ
		HMD02			2″ NEMA 4X modulating	**2349.00**Ⓑ
		CTI01			1/2″ exp two-position	**1484.00**Ⓑ
		DTI01			3/4″ exp two-position	**1484.00**Ⓑ
		ETI02			1″ exp two-position	**1793.00**Ⓑ
		GTI02			1-1/2″ exp two-position	**2225.00**Ⓑ
		HTI03			2″ exp two-position	**2596.00**Ⓑ
		CMI01			1/2″ exp electric modulating	**2472.00**Ⓑ
		DMI01			3/4″ exp electric modulating	**2781.00**Ⓑ
		EMI02			1″ exp electric modulating	**3090.00**Ⓑ
		GMI02			1-1/2″ exp electric modulating	**3338.00**Ⓑ
		HMI03			2″ exp electric modulating	**3585.00**Ⓑ
Valve Position			T1		Flow path A	-
			T2		Flow path B	-
			T3		Flow path C	-
			T4		Flow path D	-
			L1		Flow path E	-
Actuator Voltage				A	110 VAC	-
				B	220 VAC	-
				C	24 VAC	**+72.50**Ⓑ
				D	24 VDC	**+72.50**Ⓑ

Ⓑ Items are subject to Schedule B discounts.

ACCESSORIES

Model	Description	Price
AFR4	Air filter regulator 0 to 120 psi	**$69.50**Ⓑ
VB-01	Volume booster	**176.00**Ⓑ

Ⓑ Items are subject to Schedule B discounts.

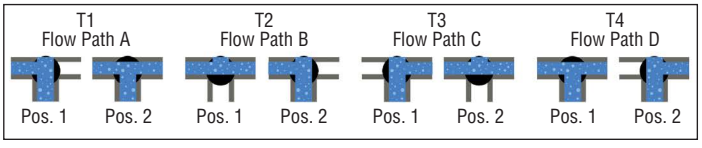
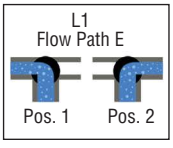
REPAIR KIT

Model	Valve Series and Size	Price
VRK-42	WE33-1/2″	**$54.00**
VRK-43	WE33-3/4″	**70.00**
VRK-44	WE33-1″	**114.00**
VRK-45	WE33-1-1/2″	**259.00**
VRK-46	WE33-2″	**479.00**

Parts List - Included in Kit

1 PTFE thrust washer
1 FKM O-ring
2 PTFE stem packing
2 PTFE seals
2 RTFE seats

"T" Port Ball



"L" Port Ball