



Series
WE33

3-Way Tri-Clamp Stainless Steel Ball Valve

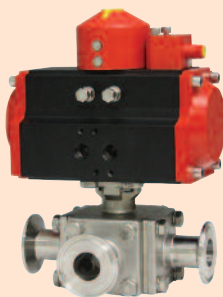
Cavity Filled, Electric and Pneumatic Actuators

VALVES

Valves, Ball,
Automated



WE33-DHD00-T2



WE33-ESR03-T1-NN07



WE33-DDA01-L1-AA06



WE33-DTD01-T3-A



WE33-DTI01-T2-A



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The Series WE33 incorporates 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.

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.

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.

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

- 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

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.

Popular Models

Size	Cv (gal/min)	Hand Operated Model	Price	Double Acting Pneumatic Model	Price	Spring Return Pneumatic Model	Price	NEMA 4X Two- Position Electric (110 VAC) Model	Price	NEMA 4X Modulating Electric (110 VAC) Model	Price
1/2"	14.39	WE33-CHD00-T2	\$375.00 ^(B)	WE33-CDA01-T2	\$425.00 ^(B)	WE33-CSR02-T2	\$500.00 ^(B)	WE33-CTD01-T2-A	\$750.00 ^(B)	WE33-CMD01-T2-A	\$1200.00 ^(B)
3/4"	42.25	WE33-DHD00-T2	420.00 ^(B)	WE33-DDA01-T2	500.00 ^(B)	WE33-DSR02-T2	550.00 ^(B)	WE33-DTD01-T2-A	800.00 ^(B)	WE33-DMD01-T2-A	1350.00 ^(B)
1"	86.17	WE33-EHD00-T2	490.00 ^(B)	WE33-EDA02-T2	700.00 ^(B)	WE33-ESR03-T2	750.00 ^(B)	WE33-ETD01-T2-A	950.00 ^(B)	WE33-EMD01-T2-A	1500.00 ^(B)
1-1/2"	223.61	WE33-GHD00-T2	840.00 ^(B)	WE33-GDA02-T2	1100.00 ^(B)	WE33-GSR03-T2	1200.00 ^(B)	WE33-GTD02-T2-A	1300.00 ^(B)	WE33-GMD02-T2-A	1800.00 ^(B)
2"	437.98	WE33-HHD00-T2	1200.00 ^(B)	WE33-HDA03-T2	1300.00 ^(B)	WE33-HSR04-T2	1400.00 ^(B)	WE33-HTD02-T2-A	1500.00 ^(B)	WE33-HMD02-T2-A	1900.00 ^(B)

WE33 Hand Operated and Pneumatic Actuator Model Chart

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	\$375.00 ^(B)
		DHD00					3/4" Hand Operated	420.00 ^(B)
		EHD00					1" Hand Operated	490.00 ^(B)
		GHD00					1-1/2" Hand Operated	840.00 ^(B)
		HHD00					2" Hand Operated	1200.00 ^(B)
		CDA01					1/2" Double Acting	425.00 ^(B)
		DDA01					3/4" Double Acting	500.00 ^(B)
		EDA02					1" Double Acting	700.00 ^(B)
		GDA02					1-1/2" Double Acting	1100.00 ^(B)
		HDA03					2" Double Acting	1300.00 ^(B)
		CSR02					1/2" Spring Return	500.00 ^(B)
		DSR02					3/4" Spring Return	550.00 ^(B)
		ESR03					1" Spring Return	750.00 ^(B)
		GSR03					1-1/2" Spring Return	1200.00 ^(B)
		HSR04					2" Spring Return	1400.00 ^(B)
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	+50.00 ^(B)
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	+230.00 ^(B)
						02	45VD0 Exp Position Transmitter	+525.00 ^(B)
						03	42AD0-B ATEX Limit Switch	+323.00 ^(B)
						04	42AD0-IE IECEX Limit Switch	+320.00 ^(B)
						05	VPI-M01 Limit Switch	+95.00 ^(B)
						06	QV-210101 Poly Limit Switch	+143.00 ^(B)
						07	VPS and P1 Prox Switch	+176.00 ^(B)
						08	265ER-D5 Positioner	+620.00 ^(B)
						09	285ER-D5 Smart Positioner	+1389.00 ^(B)

WE33 Electric Actuator Model Chart

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	\$750.00 ^(B)
		DTD01			3/4" NEMA 4X Two Position	800.00 ^(B)
		ETD01			1" NEMA 4X Two Position	950.00 ^(B)
		GTD02			1-1/2" NEMA 4X Two Position	1300.00 ^(B)
		HTD02			2" NEMA 4X Two Position	1500.00 ^(B)
		CMD01			1/2" NEMA 4X Modulating	1200.00 ^(B)
		DMD01			3/4" NEMA 4X Modulating	1350.00 ^(B)
		EMD01			1" NEMA 4X Modulating	1500.00 ^(B)
		GMD02			1-1/2" NEMA 4X Modulating	1800.00 ^(B)
		HMD02			2" NEMA 4X Modulating	1900.00 ^(B)
		CTI01			1/2" Exp Two Position	1200.00 ^(B)
		DTI01			3/4" Exp Two Position	1200.00 ^(B)
		ETI02			1" Exp Two Position	1450.00 ^(B)
		GTI02			1-1/2" Exp Two Position	1800.00 ^(B)
		HTI03			2" Exp Two Position	2100.00 ^(B)
Valve Position		CMI01			1/2" Exp Electric Modulating	2000.00 ^(B)
		DMI01			3/4" Exp Electric Modulating	2250.00 ^(B)
		EMI02			1" Exp Electric Modulating	2500.00 ^(B)
		GMI02			1-1/2" Exp Electric Modulating	2700.00 ^(B)
Actuator Voltage		HMI03			2" Exp Electric Modulating	2900.00 ^(B)
			T1		Flow Path A	-
			T2		Flow Path B	-
			T3		Flow Path C	-
			T4		Flow Path D	-
			L1		Flow Path E	-
				A	110 VAC	-
				B	220 VAC	-
				C	24 VAC	-
				D	24 VDC	-
						+70.00 ^(B)
						+70.00 ^(B)

ACCESSORIES

R2-2120, Air Regulator \$31.50

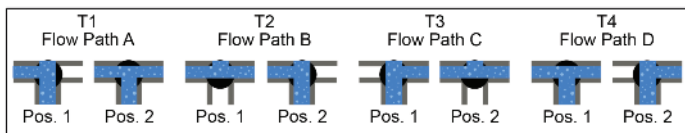
AFR2-2, Instrument Air Filter Regulator 63.00^(B)

VB-01, Volume Booster 165.00^(B)

^(B) Items are subject to Schedule B discounts.

Flow Paths

"T" Port Ball



"L" Port Ball

