

3-PIECE NPT STAINLESS STEEL V-BALL VALVE

V-Port, Vented Ball, Electric or Pneumatic Actuators



WE06-DHD00-T



WE06-DDA01-T



WE06-DDA01-T-AA01



WE06-DTD01-T-A



WE06-CTI01-T-A



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The **SERIES WE06** incorporates a V-port ball valve for impressive flow rates with minimal pressure drop. Quarter turn control ball valves are compact, lighter weight and much less expensive than comparable sized globe valves and segmented control valves. They also offer bubble tight shut off with zero leakage and can withstand high pressure drops. The 60° and 90° balls offer an equal percentage flow characteristic. W.E. Anderson's V-port ball valves have been designed to offer maximum flow characteristics that are substantially higher than comparably sized globe valves. The natural flow pattern of ball valves increases flow rates and in many applications valves smaller than pipeline size can be used.

Limit switches can be mounted directly to the valves allowing for remote position indication.

The Series WE06 can be configured with 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 a 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 SV3 solenoid valve to electrically switch the air supply pressure between the air supply ports for opening and closing the valve.

FEATURES/BENEFITS

- The 60° and 90° balls offer an equal percentage flow characteristic
- Bubble tight shut off at high pressure drops
- Limit switches can be mounted to manual valves for remote monitoring
- Available with a variety of electric and pneumatic actuators

SPECIFICATIONS

VALVE

Service: Compatible liquids and gases.

Body: 3-piece.

Line Sizes: 1/2 to 3".

End Connections: Female NPT.

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 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 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; 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 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.

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MODEL CHART							
Size	Cv (gal/min)		Popular Hand Operated Model	Popular Double Acting Pneumatic Model	Popular Spring Return Pneumatic Model	Popular NEMA 4X Two Position Electric (110 VAC) Model	Popular NEMA 4X Modulating Electric (110 VAC) Model
	60°	90°					
1/2"	7.9	9.1	WE06-CHD00-T	WE06-CDA01-T	WE06-CSR02-T	WE06-CTD01-T-A	WE06-CMD01-T-A
3/4"	13.6	14.2	WE06-DHD00-T	WE06-DDA01-T	WE06-DSR02-T	WE06-DTD01-T-A	WE06-DMD01-T-A
1"	22.3	29.1	WE06-EHD00-T	WE06-EDA02-T	WE06-ESR03-T	WE06-ETD01-T-A	WE06-EMD01-T-A
1-1/4"	31.5	53.7	WE06-FHD00-T	WE06-FDA02-T	WE06-FSR03-T	WE06-FTD01-T-A	WE06-FMD01-T-A
1-1/2"	46.2	75.5	WE06-GHD00-T	WE06-GDA03-T	WE06-GSR04-T	WE06-GTD02-T-A	WE06-GMD01-T-A
2"	104.7	138.4	WE06-HHD00-T	WE06-HDA03-T	WE06-HSR05-T	WE06-HTD02-T-A	WE06-HMD02-T-A
2-1/2"	147.5	220.3	WE06-IHD00-T	WE06-IDA04-T	WE06-ISR07-T	WE06-ITD03-T-A	WE06-IMD03-T-A
3"	209.1	308.3	WE06-JHD00-T	WE06-JDA05-T	WE06-JSR07-T	WE06-JTD03-T-A	WE06-JMD03-T-A

MODEL CHART - HAND OPERATED & PNEUMATIC ACTUATOR							
Example	WE06	-CSR02	-T	-N	N	09	WE06-CSR02-T-NN09
Series	WE06						316 SS 3-piece NPT
Size and Actuator		CHD00					1/2" hand operated
		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	
V-Ball Angle			T				60° v-ball
			N				90° v-ball
Solenoid				N			No solenoid
				A			NEMA 4X
Solenoid Voltage					N		No solenoid
					A		120 VAC
					B		220 VAC
					C		24 VAC
					D		24 VDC
				E		12 VDC	
Positioner and Switches						00	None
						01	42AD0 exp limit switch
						02	45VD0 exp position transmitter
						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	265ER-D5 positioner
						09	285ER-D5 smart positioner
Options						NO	Fail open spring return actuator

MODEL CHART - ELECTRIC ACTUATOR					
Example	WE06	-ETD01	-T	-B	WE06-ETD01-T-B
Series	WE06				316 SS 3-piece NPT
Size and Actuator		CTD01			1/2" NEMA 4X two-position
		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	
	GTI03			1-1/2" exp two-position	
	HTI04			2" exp two-position	
	ITI05			2-1/2" exp two-position	
	JTI05			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	
	GMI03			1-1/2" exp electric modulating	
	HMI04			2" exp electric modulating	
	IMI05			2-1/2" exp electric modulating	
	JMI05			3" exp electric modulating	
V-Ball Angle			T		60° v-ball
			N		90° v-ball
Actuator Voltage				A	110 VAC
				B	220 VAC
				C	24 VAC
				D	24 VDC

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