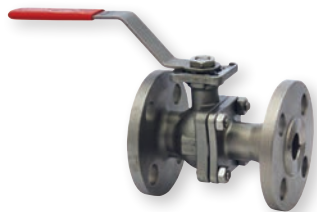


Dwyer

SERIES WE07 | W.E. ANDERSON BY DWYER

2-PIECE FLANGED STAINLESS STEEL V-BALL VALVE

150# ANSI Flange, V-Ball, Electric or Pneumatic Actuators



WE07-DHD00-T



WE07-DDA01-T-NN09



WE07-CTI01-T-A



WE07-DDA01-T-AA03



WE07-DTD01-T-A



The **SERIES WE07** 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.

The Series WE07 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: 2-piece.

Line Sizes: 1/2 to 3".

End Connections: 150# ANSI flange.

Pressure Limits: 20" Hg to 275 psi (-0.7 to 19 bar) up to 392°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; SR02 to SR06: 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.

2-PIECE FLANGED STAINLESS STEEL V-BALL VALVE

150# ANSI Flange, V-Ball, Electric or Pneumatic Actuators

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	WE07-CHD00-T	WE07-CDA01-T	WE07-CSR02-T	WE07-CTD01-T-A	WE07-CMD01-T-A
3/4"	13.6	14.2	WE07-DHD00-T	WE07-DDA01-T	WE07-DSR02-T	WE07-DTD01-T-A	WE07-DMD01-T-A
1"	22.3	29.1	WE07-EHD00-T	WE07-EDA03-T	WE07-ESR03-T	WE07-ETD01-T-A	WE07-EMD01-T-A
1-1/2"	46.2	75.5	WE07-GHD00-T	WE07-GDA03-T	WE07-GSR04-T	WE07-GTD02-T-A	WE07-GMD01-T-A
2"	104.7	138.4	WE07-HHD00-T	WE07-HDA03-T	WE07-HSR05-T	WE07-HTD02-T-A	WE07-HMD02-T-A
2-1/2"	147.5	220.3	WE07-IHD00-T	WE07-IDA04-T	WE07-ISR06-T	WE07-ITD03-T-A	WE07-IMD03-T-A
3"	209.1	308.3	WE07-JHD00-T	WE07-JDA04-T	WE07-JSR06-T	WE07-JTD03-T-A	WE07-JMD03-T-A

MODEL CHART - HAND OPERATED & PNEUMATIC ACTUATOR									
Example	WE07	-CSR02	-T	-N	N	09	WE07-CSR02-T-NN09		
Series	WE07						316 SS 2-piece 150# ANSI flange		
Size and Actuator		CHD00					1/2" hand operated		
		DHD00					3/4" hand operated		
		EHD00					1" 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		
		EDA03					1" double acting		
		GDA03					1-1/2" double acting		
		HDA03					2" double acting		
		IDA04					2-1/2" double acting		
		JDA04					3" double acting		
		CSR02					1/2" spring return		
		DSR02					3/4" spring return		
		ESR03					1" spring return		
		GSR04					1-1/2" spring return		
		HSR05					2" spring return		
		ISR06					2-1/2" spring return		
		JSR06					3" spring return		
V-Ball Angle			T	N			60° v-ball		
							90° v-ball		
Solenoid				N	A		No solenoid		
							NEMA 4X NAMUR solenoid		
Solenoid Voltage				N	A		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		
						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	WE07	-ETD01	-T	-B	WE07-ETD01-T-B	
Series	WE07				316 SS 2-piece 150# ANSI flange	
Size and Actuator		CTD01			1/2" NEMA 4X two-position	
		DTD01			3/4" NEMA 4X two-position	
		ETD01			1" 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	
		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	
		GTI03			1-1/2" exp two-position	
		HTI04			2" exp two-position	
		ITI04			2-1/2" exp two-position	
		JTI05			3" exp two-position	
V-Ball Angle		CMI01			1/2" exp electric modulating	
		DMI01			3/4" exp electric modulating	
		EMI02			1" exp electric modulating	
		GMI03			1-1/2" exp electric modulating	
		HMI04			2" exp electric modulating	
		IMI04			2-1/2" exp electric modulating	
Actuator Voltage		JMI05			3" exp electric modulating	
			T	N	60° v-ball	
					90° v-ball	
			A		110 VAC	
			B		220 VAC	
			C		24 VAC	
			D		24 VDC	

ACCESSORIES	
Model	Description
R2-2120	Air regulator
AFR4	Air filter regulator 0 to 120 psi
VB-01	Volume booster