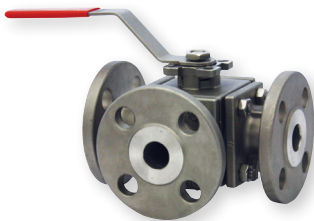
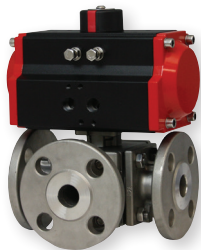


# 3-WAY FLANGED STAINLESS STEEL BALL VALVES

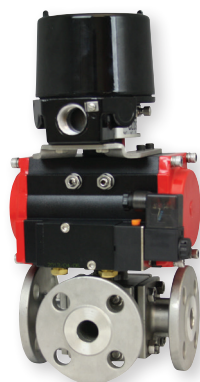
## 150# ANSI Flange, Vented Ball, Electric or Pneumatic Actuators



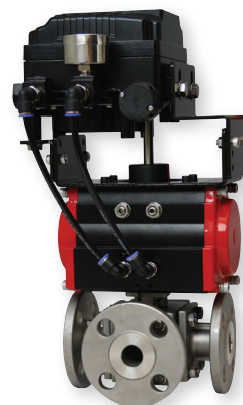
WE34-DHD00-L1



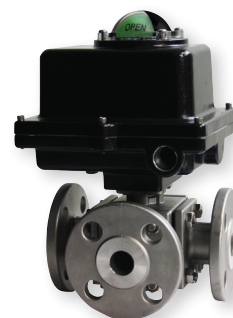
WE34-DDA03-T2



WE34-DDA03-T1-AA01



WE34-DDA03-T2-NN08



WE34-DT103-T3-A



The **Series WE34 3-Way Flanged Stainless Steel Ball Valves** incorporate a full port 3-way flanged 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 WE34 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 4-20 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
- Eliminates threads and reduces installation and maintenance time

### 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 3".

**End Connections:** 150# ANSI flange.

**Pressure Limits:** 28" 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.

**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 DA08: 1/4" female NPT; SR03 to SR09: 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; TD04 and MD04: 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:** 4-20 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:** 4-20 mA.

**Standard Features:** Position indicator and two limit switches.

# 3-WAY FLANGED STAINLESS STEEL BALL VALVES

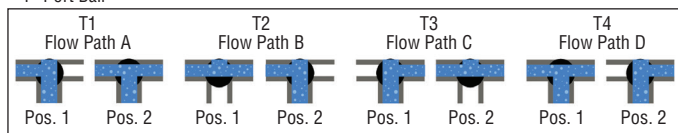
## 150# ANSI Flange, Vented Ball, Electric or Pneumatic Actuators

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
1/2"	26	WE34-CHD00-T2	WE34-CDA02-T2	WE34-CSR03-T2	WE34-CTD02-T2-A	WE34-CMD01-T2-A
3/4"	50	WE34-DHD00-T2	WE34-DDA02-T2	WE34-DSR03-T2	WE34-DTD02-T2-A	WE34-DMD01-T2-A
1"	94	WE34-EHD00-T2	WE34-EDA03-T2	WE34-ESR05-T2	WE34-ETD02-T2-A	WE34-EMD02-T2-A
1-1/2"	260	WE34-GHD00-T2	WE34-GDA05-T2	WE34-GSR06-T2	WE34-GTD03-T2-A	WE34-GMD03-T2-A
2"	380	WE34-HHD00-T2	WE34-HDA06-T2	WE34-HSR07-T2	WE34-HTD03-T2-A	WE34-HMD03-T2-A
2-1/2"	650	WE34-IHD00-T2	WE34-IDA07-T2	WE34-ISR08-T2	WE34-ITD04-T2-A	WE34-IMD04-T2-A
3"	1000	WE34-JHD00-T2	WE34-JDA08-T2	WE34-JSR09-T2	WE34-JTD04-T2-A	WE34-JMD04-T2-A

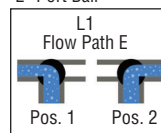
MODEL CHART - HAND OPERATED & PNEUMATIC ACTUATOR						
Example	WE34	-JDA08	-T1	-A	B	00 WE34-JDA08-T1-AB00
Series	WE34					316 SS 3-way 150# ANSI flange
Size and Actuator		CHD00				1/2" hand operated
		DHD00				3/4" hand operated
		EHD00				1" hand operated
		GHD00				1-1/2" hand operated
		HHD00				2" hand operated
		IHD00				2-1/2" hand operated
		JHD00				3" hand operated
		CDA02				1/2" double acting
		DDA02				3/4" double acting
		EDA03				1" double acting
		GDA05				1-1/2" double acting
		HDA06				2" double acting
		IDA07				2-1/2" double acting
		JDA08				3" double acting
		CSR03				1/2" spring return
		DSR03				3/4" spring return
		ESR05				1" spring return
		GSR06				1-1/2" spring return
		HSR07				2" spring return
		ISR08				2-1/2" spring return
		JSR09				3" spring return
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
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
					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

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

"T" Port Ball



"L" Port Ball



MODEL CHART - ELECTRIC ACTUATOR						
Example	WE34	-HMD03	-T3	-A		WE34-HMD03-T3-A
Series	WE34					316 SS 3-way 150# ANSI flange
Size and Actuator		CTD02				1/2" NEMA 4X two-position
		DTD02				3/4" NEMA 4X two-position
		ETD02				1" NEMA 4X two-position
		GTD03				1-1/2" NEMA 4X two-position
		HTD03				2" NEMA 4X two-position
		ITD04				2-1/2" NEMA 4X two-position
		JTD04				3" NEMA 4X two-position
		CMD01				1/2" NEMA 4X modulating
		DMD01				3/4" NEMA 4X modulating
		EMD02				1" NEMA 4X modulating
		GMD03				1-1/2" NEMA 4X modulating
		HMD03				2" NEMA 4X modulating
		IMD04				2-1/2" NEMA 4X modulating
		JMD04				3" NEMA 4X modulating
		CTI02				1/2" exp two-position
		DTI02				3/4" exp two-position
		ETI03				1" exp two-position
		GTI05				1-1/2" exp two-position
		HTI06				2" exp two-position
		ITI06				2-1/2" exp two-position
		JTI08				3" exp two-position
		CMI02				1/2" exp electric modulating
		DMI02				3/4" exp electric modulating
		EMI03				1" exp electric modulating
		GMI05				1-1/2" exp electric modulating
		HMI06				2" exp electric modulating
		IMI06				2-1/2" exp electric modulating
		JMI08				3" exp electric modulating
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
				D		24 VDC

REPAIR KIT	
Model	Valve Series and Size
VRK-50	WE34-1/2"
VRK-51	WE34-3/4"
VRK-52	WE34-1"
VRK-54	WE34-1-1/2"
VRK-55	WE34-2"
VRK-56	WE34-2-1/2"
VRK-57	WE34-3"
Parts List - Included in Kit	
1 PTFE thrust washer	
1 FKM O-ring	
2 PTFE stem packing	
2 PTFE seals	
2 RTFE seats	