

2-PIECE FLANGED STAINLESS STEEL BALL VALVES

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



WE04-DHD00



WE04-DDA02-AA03



WE04-DDA02-NN09



WE04-DTD01-A



WE04-CTI01-A



The **Series WE04 2-Piece Flanged Stainless Steel Ball Valves** incorporate a full port 2-piece 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 WE04 can be configured with either a pneumatic or electric 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 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
- Vented ball to reduce operating torque
- Weatherproof or explosion-proof electric actuators
- Double acting or spring return anodized aluminum pneumatic actuators
- Eliminates threads and reduces installation and maintenance time
- Full port design reduces the pressure drop across the valve

APPLICATIONS

- Gas or liquid flow control
- Ideal for quick bubble tight shut-off

SPECIFICATIONS

VALVE

Service: Compatible liquids and gases.

Body: 2-piece.

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 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 240 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" NPT female.

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	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"	36.64	WE04-CHD00	\$119.00 [ⓑ]	WE04-CDA01	\$269.00 [ⓑ]	WE04-CSR02	\$361.00 [ⓑ]	WE04-CTD01-A	\$483.00 [ⓑ]	WE04-CMD01-A	\$773.00 [ⓑ]
3/4"	67.69	WE04-DHD00	136.00 [ⓑ]	WE04-DDA01	309.00 [ⓑ]	WE04-DSR02	387.00 [ⓑ]	WE04-DTD01-A	504.00 [ⓑ]	WE04-DMD01-A	850.00 [ⓑ]
1"	101.63	WE04-EHD00	168.00 [ⓑ]	WE04-EDA03	387.00 [ⓑ]	WE04-ESR03	464.00 [ⓑ]	WE04-ETD01-A	548.00 [ⓑ]	WE04-EMD01-A	927.00 [ⓑ]
1-1/2"	266.62	WE04-GHD00	295.00 [ⓑ]	WE04-GDA03	567.00 [ⓑ]	WE04-GSR04	593.00 [ⓑ]	WE04-GTD02-A	745.00 [ⓑ]	WE04-GMD01-A	1005.00 [ⓑ]
2"	485.3	WE04-HHD00	391.00 [ⓑ]	WE04-HDA03	696.00 [ⓑ]	WE04-HSR05	747.00 [ⓑ]	WE04-HTD02-A	876.00 [ⓑ]	WE04-HMD02-A	1082.00 [ⓑ]
2-1/2"	816.9	WE04-IHD00	680.00 [ⓑ]	WE04-IDA04	979.00 [ⓑ]	WE04-ISR06	1133.00 [ⓑ]	WE04-ITD03-A	1139.00 [ⓑ]	WE04-IMD03-A	1314.00 [ⓑ]
3"	1121.84	WE04-JHD00	816.00 [ⓑ]	WE04-JDA04	1133.00 [ⓑ]	WE04-JSR06	1417.00 [ⓑ]	WE04-JTD03-A	1314.00 [ⓑ]	WE04-JMD03-A	1468.00 [ⓑ]

ⓑ Items are subject to Schedule B discounts.

MODEL CHART - HAND OPERATED & PNEUMATIC ACTUATOR							
Example	WE04	-GDA03	-A	B	05	WE04-GDA03-AB05	Price
Series	WE04					316 SS 2-piece flanged	-
Size and Actuator		CHD00				1/2" hand operated	\$119.00 [ⓑ]
		DHD00				3/4" hand operated	136.00 [ⓑ]
		EHD00				1" hand operated	168.00 [ⓑ]
		GHD00				1-1/2" hand operated	295.00 [ⓑ]
		HHD00				2" hand operated	391.00 [ⓑ]
		IHD00				2-1/2" hand operated	680.00 [ⓑ]
		JHD00				3" hand operated	816.00 [ⓑ]
		CDA01				1/2" double acting	269.00 [ⓑ]
		DDA01				3/4" double acting	309.00 [ⓑ]
		EDA03				1" double acting	387.00 [ⓑ]
		GDA03				1-1/2" double acting	567.00 [ⓑ]
		HDA03				2" double acting	696.00 [ⓑ]
		IDA04				2-1/2" double acting	979.00 [ⓑ]
		JDA04				3" double acting	1133.00 [ⓑ]
		CSR02				1/2" spring return	361.00 [ⓑ]
		DSR02				3/4" spring return	387.00 [ⓑ]
		ESR03				1" spring return	464.00 [ⓑ]
		GSR04				1-1/2" spring return	593.00 [ⓑ]
		HSR05				2" spring return	747.00 [ⓑ]
	ISR06				2-1/2" spring return	1133.00 [ⓑ]	
	JSR06				3" spring return	1417.00 [ⓑ]	
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 [ⓑ]
Options					NO	Fail open spring return actuator	-

ⓑ 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.

MODEL CHART - ELECTRIC ACTUATOR					
Example	WE04	-ITD03	-B	WE04-ITD03-B	Price
Series	WE04			316 SS 2-piece flanged	-
Size and Actuator		CTD01		1/2" NEMA 4X two-position	\$483.00 [ⓑ]
		DTD01		3/4" NEMA 4X two-position	504.00 [ⓑ]
		ETD01		1" NEMA 4X two-position	548.00 [ⓑ]
		GTD02		1-1/2" NEMA 4X two-position	745.00 [ⓑ]
		HTD02		2" NEMA 4X two-position	876.00 [ⓑ]
		ITD03		2-1/2" NEMA 4X two-position	1139.00 [ⓑ]
		JTD03		3" NEMA 4X two-position	1314.00 [ⓑ]
		CMD01		1/2" NEMA 4X modulating	773.00 [ⓑ]
		DMD01		3/4" NEMA 4X modulating	850.00 [ⓑ]
		EMD01		1" NEMA 4X modulating	927.00 [ⓑ]
		GMD01		1-1/2" NEMA 4X modulating	1005.00 [ⓑ]
		HMD02		2" NEMA 4X modulating	1082.00 [ⓑ]
		IMD03		2-1/2" NEMA 4X modulating	1314.00 [ⓑ]
		JMD03		3" NEMA 4X modulating	1468.00 [ⓑ]
		CTI01		1/2" exp two-position	868.00 [ⓑ]
		DTI01		3/4" exp two-position	920.00 [ⓑ]
		ETI02		1" exp two-position	1034.00 [ⓑ]
		GTI03		1-1/2" exp two-position	1314.00 [ⓑ]
		HTI04		2" exp two-position	1576.00 [ⓑ]
		ITI04		2-1/2" exp two-position	1751.00 [ⓑ]
		JTI05		3" exp two-position	2189.00 [ⓑ]
		CMI01		1/2" exp electric modulating	1468.00 [ⓑ]
		DMI01		3/4" exp electric modulating	1623.00 [ⓑ]
		EMI02		1" exp electric modulating	1693.00 [ⓑ]
		GMI03		1-1/2" exp electric modulating	1932.00 [ⓑ]
	HMI04		2" exp electric modulating	2163.00 [ⓑ]	
	IMI04		2-1/2" exp electric modulating	2318.00 [ⓑ]	
	JMI05		3" exp electric modulating	2550.00 [ⓑ]	
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.

REPAIR KIT		
Model	Valve Series and Size	Price
VRK-27	WE04-1/2"	\$13.00
VRK-28	WE04-3/4"	13.75
VRK-29	WE04-1"	15.75
VRK-31	WE04-1-1/2"	23.50
VRK-32	WE04-2"	28.25
VRK-33	WE04-2-1/2"	48.75
VRK-34	WE04-3"	53.50

Parts List - Included in Kit	
1	PTFE thrust washer
1	FKM O-ring
2	PTFE stem packing
2	PTFE seals
2	RTFE seats