

3-PIECE TRI-CLAMP STAINLESS STEEL BALL VALVES

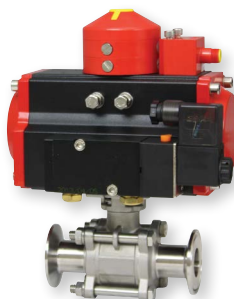
Cavity Filled, Full Port, Electric or Pneumatic Actuators



WE03-DHD00



WE03-DDA01



WE03-DDA01-AA07



WE03-DDA01-AA06



WE03-DTD01-A



The **Series WE03 3-Piece Tri-Clamp Stainless Steel Ball Valves** incorporate a full port 3-piece 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 stainless steel (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 WE03 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.

BENEFITS/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
- 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

APPLICATIONS

- Gas or liquid flow control
- Ideal for quick bubble tight shut-off
- Designed for food and beverage applications

SPECIFICATIONS

VALVE

Service: Compatible liquids and gases.

Body: 3-piece.

Line Sizes: 1/2 to 2".

End Connections: Tri-clamp ends.

Pressure Limits: 28" 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.

Compliance: 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: 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.

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: 4-20 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 and D; Class II, Group E, F and G; Division I and 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.

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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
1/2"	14.39	WE03-CHD00	WE03-CDA01	WE03-CSR02	WE03-CTD01-A	WE03-CMD01-A
3/4"	42.25	WE03-DHD00	WE03-DDA01	WE03-DSR02	WE03-DTD01-A	WE03-DMD01-A
1"	86.17	WE03-EHD00	WE03-EDA02	WE03-ESR03	WE03-ETD01-A	WE03-EMD01-A
1-1/2"	223.61	WE03-GHD00	WE03-GDA02	WE03-GSR04	WE03-GTD01-A	WE03-GMD01-A
2"	437.98	WE03-HHD00	WE03-HDA02	WE03-HSR04	WE03-HTD02-A	WE03-HMD02-A

MODEL CHART - HAND OPERATED AND PNEUMATIC ACTUATOR						
Example	WE03	-EDA02	-A	A	06	WE03-EDA02-AA06
Series	WE03					316 SS 3-piece tri-clamp
Size and Actuator		CHD00				1/2" hand operated
		DHD00				3/4" hand operated
		EHD00				1" hand operated
		GHD00				1-1/2" hand operated
		HH00				2" hand operated
		CDA01				1/2" double acting
		DDA01				3/4" double acting
		EDA02				1" double acting
		GDA02				1-1/2" double acting
		HDA02				2" double acting
		CSR02				1/2" spring return
		DSR02				3/4" spring return
		ESR03				1" spring return
		GSR04				1-1/2" spring return
		HSR04				2" spring return
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
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
Options				08		265ER-D5 positioner
				09		285ER-D5 smart positioner
					NO	Fail open spring return actuator

ACCESSORIES	
Model	Description
VB-01	Volume booster

MODEL CHART - ELECTRIC ACTUATOR			
Example	WE03	-CMD01	-A WE03-CMD01-A
Series	WE03		316 SS 3-piece tri-clamp
Size and Actuator		CTD01	1/2" NEMA 4X two-position
		DTD01	3/4" NEMA 4X two-position
		ETD01	1" NEMA 4X two-position
		GTD01	1-1/2" NEMA 4X two-position
		HTD02	2" 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
		CTI01	1/2" exp two-position
		DTI01	3/4" exp two-position
		ETI02	1" exp two-position
		GTI02	1-1/2" exp two-position
		HTI02	2" exp two-position
Actuator Voltage		CMI01	1/2" exp electric modulating
		DMI01	3/4" exp electric modulating
		EMI02	1" exp electric modulating
		GMI02	1-1/2" exp electric modulating
		HMI02	2" exp electric modulating
		A	110 VAC
		B	220 VAC
		C	24 VAC
		D	24 VDC

REPAIR KIT	
Model	Valve Series and Size
VRK-19	WE03-1/2"
VRK-20	WE03-3/4"
VRK-21	WE03-1"
VRK-22	WE03-1-1/2"
VRK-23	WE03-2"
Parts List - Included in Kit	
1 PTFE thrust washer	
1 FKM O-ring	
2 PTFE stem packing	
2 PTFE seats	