

SERIES WE03 | 3-PIECE TRI-CLAMP STAINLESS STEEL BALL VALVE

FEATURES/BENEFITS

- Cavity filled valve for sanitary applications
- · Tri-clamp fittings allow for quick removal of the value
- Full port design reduces the pressure drop across the valve
- · Limit switches can be mounted to manual valves for remote monitoring
- Weatherproof or explosion-proof electric actuators
- Double acting or spring return anodized aluminum pneumatic actuators



APPLICATIONS

- Food
- Dairy
- Beverage
- · Drinking water

DESCRIPTION

The SERIES WE03 incorporates 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 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 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 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.









VALVE SPECIFICATIONS

Service	Compatible liquids and gases.					
Body	3-piece.					
Line Sizes	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: 316SS; Seat: RTFE/PTFE; Seal, Washer and Packing: PTFE.						
Temperature Limits	-20 to 392°F (-29 to 200°C).					
Other Materials	O-ring: PNC					
Other Materials	sleeve: PVC.					

PNEUMATIC ACTUATOR ("DA" & "SR" SERIES) SPECIFICATIONS

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 ACTUATOR ("TD" & "MD" SERIES) SPECIFICATIONS

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 ACTUATOR ("TI" & "MI" SERIES) SPECIFICATIONS

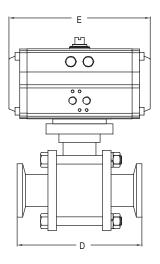
Power Requirements	110 VAC, 220 VAC, 24 VAC or 24 VDC.
Power Consumption	See instruction manual.
Cycle Time (per 90°)	See instruction manual.
Duty Rating	See instruction manual.
Enclosure Rating	NEMA 7, designed to meet hazardous locations: Class I, Group C & D; Class II, Group E, F & G; Division I &II.
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.

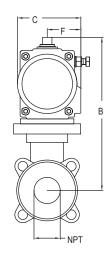






W/ PNEUMATIC ACTUATOR



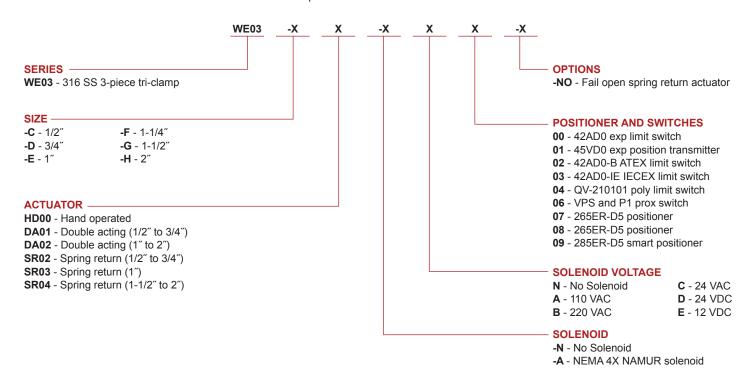


DOUBLE ACTING PNEUMATIC ACTUATOR								
NPT	1/2"	3/4"	1″	1-1/2"	2″			
В	4-1/2"	4-1/2"	5-1/2"	6-1/8"	6-1/2"			
	114 mm	115 mm	139 mm	156 mm	164 mm			
С	2-3/8"	2-3/8"	2-3/4"	2-3/4"	2-3/4"			
		61 mm 4"	71 mm	71 mm	71 mm			
D	D 3-5/8"		4-1/2"	5-1/2"	6-1/4"			
	91 mm	103 mm	115 mm	139 mm	158 mm			
E	4-5/8"	4-5/8"	5-3/4"	5-3/4"	5-3/4"			
	116 mm	116 mm	145 mm	145 mm	145 mm			
F	1-1/2"	1-1/2"	1-5/8"	1-5/8"	1-5/8"			
	37 mm	37 mm	41 mm	41 mm	41 mm			

SPRING RETURN PNEUMATIC ACTUATOR							
NPT	1/2"			1-1/2"	2″		
В	5″	5″	6-1/8"	7-1/4"	7-1/2"		
	126 mm 127 mm 155 mm 184 mm				192 mm		
С	2-3/4"	2-3/4"	3-1/4"	3-3/4"	3-3/4"		
	71 mm	71 mm	82 mm 94 mi		94 mm		
D	3-5/8"	4"	4-1/2"	5-1/2"	6-1/4"		
	91 mm	103 mm	03 mm 115 mm		158 mm		
E	5-3/4" 5-3/4" 6-5/8"		7-7/8"	7-7/8"			
	145 mm	145 mm	169 mm	201 mm	201 mm		
F	1-5/8"	1-5/8"	1-3/4"	2″	2″		
	41 mm	41 mm	46 mm	52 mm	52 mm		

HOW TO ORDER - HAND OPERATED & PNEUMATIC ACTUATOR

Use the **bold** characters from the chart below to construct a product code.



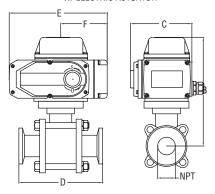


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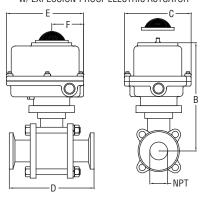


W/ ELECTRIC ACTUATOR



ELECTRIC ACTUATOR							
NPT	1/2"	3/4"	1″	1-1/2"	2"		
В	6-1/4"	6-3/8"	8-1/4"	8-7/8"	9-1/4"		
	160 mm	161 mm	209 mm	226 mm	234 mm		
С	5-1/4"	/4" 5-1/4" 9-3/8" 9-3/8"		9-3/8"			
	133 mm	133 mm	ım 239 mm 239 mı		239 mm		
D	3-5/8"	4"	4-1/2"	5-1/2"	6-1/4"		
	91 mm	103 mm	03 mm 115 mm 13		158 mm		
E	6-1/8"	6-1/8"	8-1/2"	8-1/2"	8-1/2"		
	154 mm	154 mm	217 mm	217 mm 217 mm 2			
F	2-3/4"	2-3/4"	5" 5"		5″		
	68 mm	68 mm	126 mm	126 mm	126 mm		

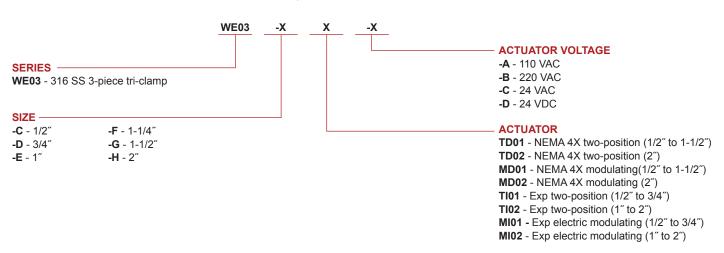
W/ EXPLOSION-PROOF ELECTRIC ACTUATOR



EXPL	EXPLOSION-PROOF ELECTRIC ACTUATOR								
NPT	1/2"	3/4"	1″	1-1/2"	2″	2″			
В	6-1/2"	6-5/8"	7-1/8"	7-3/4"	7-1/4"	8″			
	167 mm	168 mm	180 mm	196 mm	186 mm	205 mm			
С	4-1/2"	4-1/2"	4-1/2"	4-1/2"	3-3/4"	4-1/2"			
	113 mm	113 mm	113 mm	113 mm	94 mm	113 mm			
D	3-5/8"	4"	4-1/2"	5-1/2"	4-1/8"	6-1/4"			
	91 mm	103 mm	115 mm	139 mm	105 mm	158 mm			
E	6-1/4"	6-1/4"	6-1/4"	6-1/4"	7-7/8"	6-1/4"			
	160 mm	160 mm	160 mm	160 mm	201 mm	160 mm			
F	3″	3″	3″	3″	2″	3″			
	77 mm	77 mm	77 mm	77 mm	52 mm	77 mm			

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