

SERIES WE01 | 2-PIECE STAINLESS STEEL BALL VALVE

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

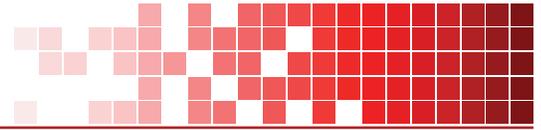
APPLICATIONS

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

DESCRIPTION

The **SERIES WE01** incorporates a full port 2-piece 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 WE01 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	2-piece.
Line Sizes	1/2 to 3".
End Connections	Female NPT.
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: Fluoroelastomer; Handle: 304 SS; Washer: 301 SS; Stem Nut, Locking Device, Gland Ring: 304 SS; Handle 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.

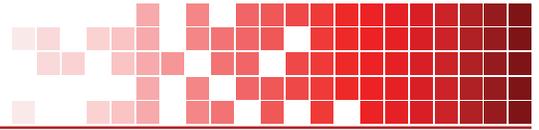
ELECTRIC ACTUATOR ("TD" & "MD" SERIES) SPECIFICATIONS

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.

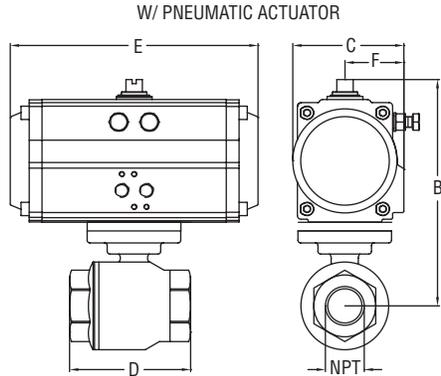
ELECTRIC ACTUATOR ("TI" & "MI" SERIES) SPECIFICATIONS

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.





DIMENSIONS



DOUBLE ACTING PNEUMATIC ACTUATOR								
NPT	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"
B	4-5/8"	4-3/4"	5-1/2"	5-3/4"	6-7/8"	6-7/8"	8-3/8"	9"
	116 mm	119 mm	141 mm	146 mm	174 mm	174 mm	212 mm	229 mm
C	2-3/8"	2-3/8"	2-3/4"	2-3/4"	3-1/4"	3-1/4"	3-3/4"	4"
	61 mm	61 mm	71 mm	71 mm	82 mm	82 mm	94 mm	101 mm
D	2-1/4"	2-5/8"	3-1/8"	3-1/2"	4-1/8"	4-7/8"	5-3/4"	6-1/2"
	58 mm	66 mm	79 mm	90 mm	105 mm	124 mm	146 mm	164 mm
E	4-5/8"	4-5/8"	5-3/4"	5-3/4"	6-5/8"	6-5/8"	7-7/8"	8-1/4"
	116 mm	116 mm	145 mm	145 mm	169 mm	169 mm	201 mm	209 mm
F	1-1/2"	1-1/2"	1-5/8"	1-5/8"	1-3/4"	1-3/4"	2"	2"
	37 mm	37 mm	41 mm	41 mm	46 mm	46 mm	52 mm	52 mm

SPRING RETURN PNEUMATIC ACTUATOR								
NPT	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"
B	5"	5-1/8"	6-1/8"	6-3/8"	7-1/4"	8"	9-5/8"	10"
	128 mm	131 mm	157 mm	162 mm	186 mm	204 mm	245 mm	254 mm
C	2-3/4"	2-3/4"	3-1/4"	3-1/4"	3-3/4"	4"	4-3/4"	4-3/4"
	71 mm	71 mm	82 mm	82 mm	94 mm	101 mm	122 mm	122 mm
D	2-1/4"	2-5/8"	3-1/8"	3-1/2"	4-1/8"	4-7/8"	5-3/4"	6-1/2"
	58 mm	66 mm	79 mm	90 mm	105 mm	124 mm	146 mm	164 mm
E	5-3/4"	5-3/4"	6-5/8"	6-5/8"	7-7/8"	8-1/4"	10-7/8"	10-7/8"
	145 mm	145 mm	169 mm	169 mm	201 mm	209 mm	275 mm	275 mm
F	1-5/8"	1-5/8"	1-3/4"	1-3/4"	2"	2-1/8"	2-1/2"	2-1/2"
	41 mm	41 mm	46 mm	46 mm	52 mm	55 mm	64 mm	64 mm

HOW TO ORDER – HAND OPERATED & PNEUMATIC ACTUATOR

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

