

ACTUATED BALL VALVES

Ball Valves are used in a wide variety of high pressure applications. A full unrestricted flow allows no product restrictions through the valve. Thus, allowing easy diversion.

VNE offers 2-way and 3-way ball valves made of T316 (CF8M) stainless steel. Ball Valves are available in Manual, Pneumatically Actuated, and Electrically Actuated versions. We also offer a full line of control options. Limit switches, Solenoids, and Positioners can be included with your automated valve assembly. VNE Ball Valves feature PTFE seats that are easily removed. Clamp and Weld ends are standard. Other connections are available upon request.

VNE offers many options on automated valves.

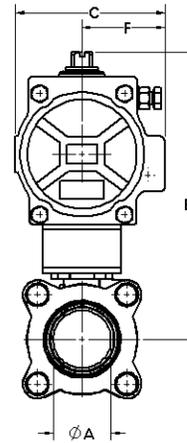
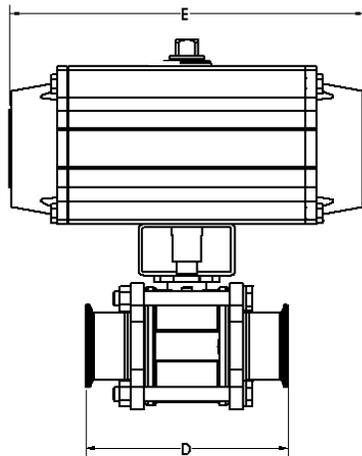


BALL VALVES SPECIFICATIONS....

Size:	1/2" through 4" sizes available
Materials:	Passivated 316 Stainless Steel (ASTM A351, CF8M)
Finish:	20 Ra μ -in. ID
Connections:	Clamp, Buttweld, Orbital Weld, other connections available upon request
Seat / Seals:	Dyneon TF 1641 PTFE Cavity filler, fully encapsulated
Pressure:	Reference applicable manual valve specifications
Temperature Rating:	Reference applicable manual valve specifications

ORDERING SPECIFICATIONS....

Specify:	<ul style="list-style-type: none"> • Quantity • Product Description or Part number • Size • Material Type
Important Features:	<p>100% Tested</p> <p>Available with pneumatic and electric actuators</p> <p>Conform to 3A sanitary standards for Ball-Type valves. Standard number 68-00. Certificate authorization number 3511. Seat and seals are FDA approved</p> <p>Valves marked with heat numbers for full identification and traceability. MTR'S are available upon request</p>



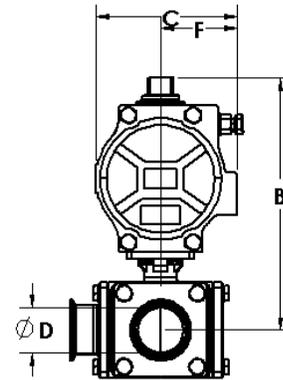
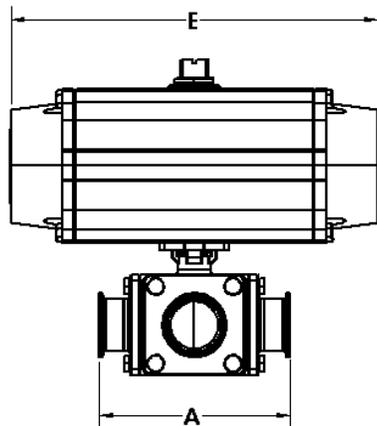
DIMENSIONS 2-WAY SPRING RETURN ACTUATED VALVE

Valve Part Number Clamp End Valve	Size	A	B	C	D	E	F	Weight	Cv Value
90C.5C/52-5SC-XX	1/2	0.370	6.177	2.790	3.504	5.490	1.610	4.16	9
90C.75C/52-5SC-XX	3/4	0.620	6.355	2.790	3.976	5.490	1.610	4.46	26
90C1.0C/63-5SC-XX	1	0.870	6.814	3.170	4.488	6.380	1.770	6.75	61
90C1.5C/75-5SC-XX	1 1/2	1.370	8.075	3.720	5.512	8.150	2.070	12.70	193
90C2.0C/100-5SC-XX	2	1.870	9.227	4.850	6.142	10.690	2.680	22.80	432
90C2.5C/115-5SC-XX	2 1/2	2.370	12.490	5.390	7.756	12.910	2.870	41.88	728
90C3.0C/125-5SC-XX	3	2.870	13.303	5.830	9.016	14.410	3.150	51.40	1125
90C4.0C/161-5SC-XX	4	3.834	15.630	7.350	9.567	16.930	3.940	111.20	1986

DIMENSIONS 2-WAY AIR TO AIR ACTUATED VALVE

Valve Part Number Clamp End Valve	Size	A	B	C	D	E	F	Weight	Cv Value
90C.5C/32DC-XX	1/2	0.370	5.214	1.770	3.504	4.650	0.890	2.62	9
90C.75C/52DC-XX	3/4	0.620	6.355	1.770	3.976	4.650	0.890	2.92	26
90C1.0C/52DC-XX	1	0.870	6.374	2.790	4.488	5.490	1.610	5.03	61
90C1.5C/63DC-XX	1 1/2	1.370	7.425	3.170	5.512	6.380	1.770	9.02	193
90C2.0C/75DC-XX	2	1.870	8.267	3.720	6.142	8.150	2.070	11.66	432
90C2.5C/85DC-XX	2 1/2	2.370	11.070	4.170	7.756	9.350	2.300	25.35	728
90C3.0C/85DC-XX	3	2.870	11.413	4.170	9.016	9.350	2.300	32.03	1125
90C4.0C/115DC-XX	4	3.834	13.640	5.390	9.567	12.910	2.870	63.91	1986

Dimensions shown are for assemblies sized for 80 PSI air supply. 1.2 Safety factor for clean liquid products. 90C part number designates a clamp end valve. -XX Designates no solenoid, control top or positioner. See part number structures on page 34 for designators for other end connections, fail positions and add on accessories.



DIMENSIONS 3-WAY SPRING RETURN ACTUATED VALVE

Valve Part Number Clamp End Valve	Size	A	B	C	D	E	F	Weight	Cv Value
93C.5C/63-5S1-XX	1/2	4.646	7.170	3.170	0.370	6.380	1.770	7.59	L=8 T=6
93C.75C/63-5S1-XX	3/4	5.000	7.290	3.170	0.620	6.380	1.770	8.29	L=17 T=13
93C1.0C/75-5S1-XX	1	6.000	6.920	3.720	0.870	8.150	2.070	13.70	L=25 T=19
93C1.5C/100-5S1-XX	1 1/2	6.890	8.380	4.850	1.370	10.690	2.680	27.40	L=62 T= 46
93C2.0C/125-5S1-XX	2	7.480	10.080	4.290	1.870	9.650	2.360	47.01	L=148 T=92
93C2.5C/161-5S1-XX	2 1/2	8.976	12.680	7.350	2.370	16.930	3.940	93.04	L=247 T=156
93C3.0C/161-6S1-XX	3	10.236	13.740	7.350	2.870	16.930	3.940	110.04	L=351 T=230
93C4.0C/181-6S1-XX	4	11.417	15.350	8.040	3.834	18.980	4.020	133.10	Contact VNE

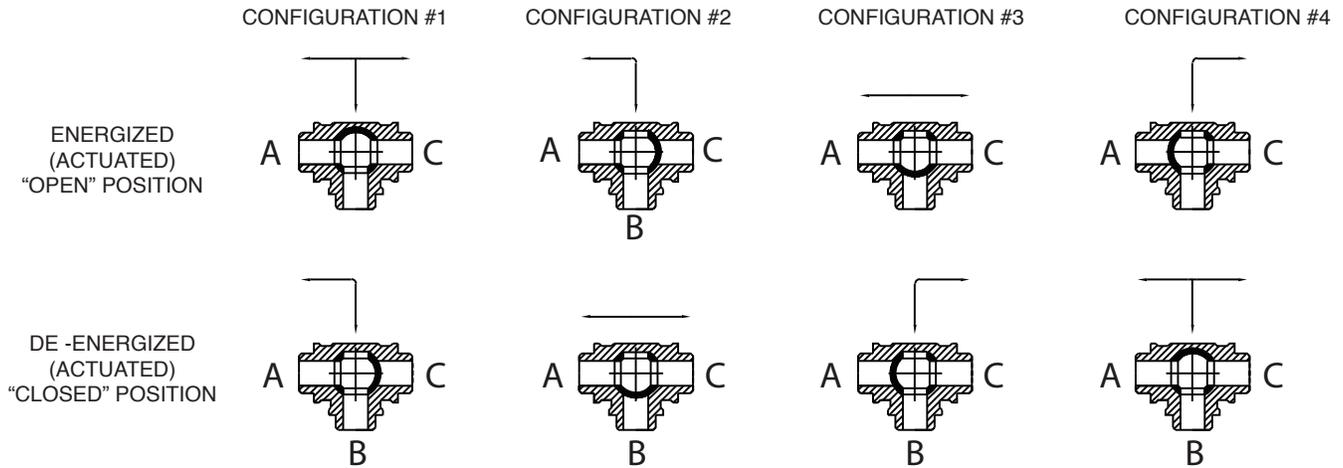
DIMENSIONS 3-WAY AIR TO AIR ACTUATED VALVE

Valve Part Number Clamp End Valve	Size	A	B	C	D	E	F	Weight	Cv Value
93C.5C/52D1-XX	1/2	4.646	5.280	2.790	0.370	5.490	1.610	6.25	L=8 T=6
93C.75C/52D1-XX	3/4	5.000	5.400	2.790	0.620	5.490	1.610	7.25	L=17 T=13
93C1.0C/52D1-XX	1	6.000	5.850	2.790	0.870	5.490	1.610	9.25	L=25 T=19
93C1.5C/75D1-XX	1 1/2	6.890	7.420	3.720	1.370	8.150	2.070	19.51	L=62 T= 46
93C2.0C/85D1-XX	2	7.480	10.080	4.290	1.870	9.650	2.360	21.39	L=148 T=92
93C2.5C/115D1-XX	2 1/2	8.976	10.290	5.390	2.370	12.910	2.870	45.75	L=247 T=156
93C3.0C/115D1-XX	3	10.236	11.360	5.390	2.870	12.910	2.870	62.75	L=351 T=230
93C4.0C/140D1-XX	4	11.417	13.660	6.630	3.834	15.790	3.540	96.46	Contact VNE

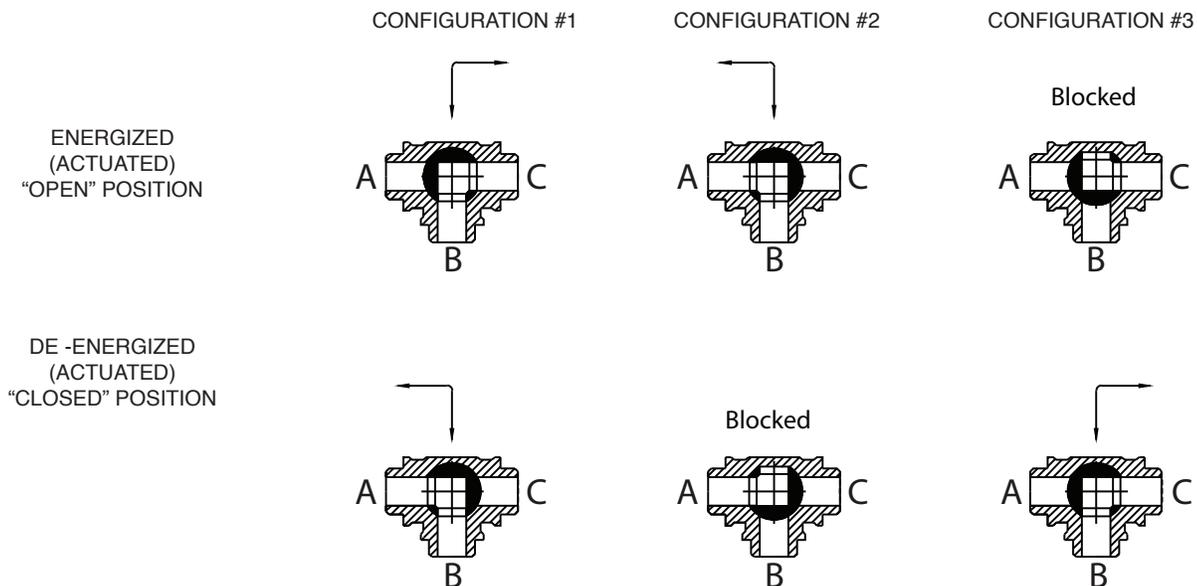
Dimensions shown are for assemblies sized for 80 PSI air supply. 1.2 Safety factor for clean liquid products. 93C part number designates a clamp end valve. -XX Designates no solenoid, control top or positioner. See part number structures on page 34 for designators for other end connections, flow configurations and add on accessories.

3-WAY BALL VALVE CONFIGURATION OPTIONS Standard Actuator (CW to Close, CCW to Open)

T-Port Design



L-Port Design

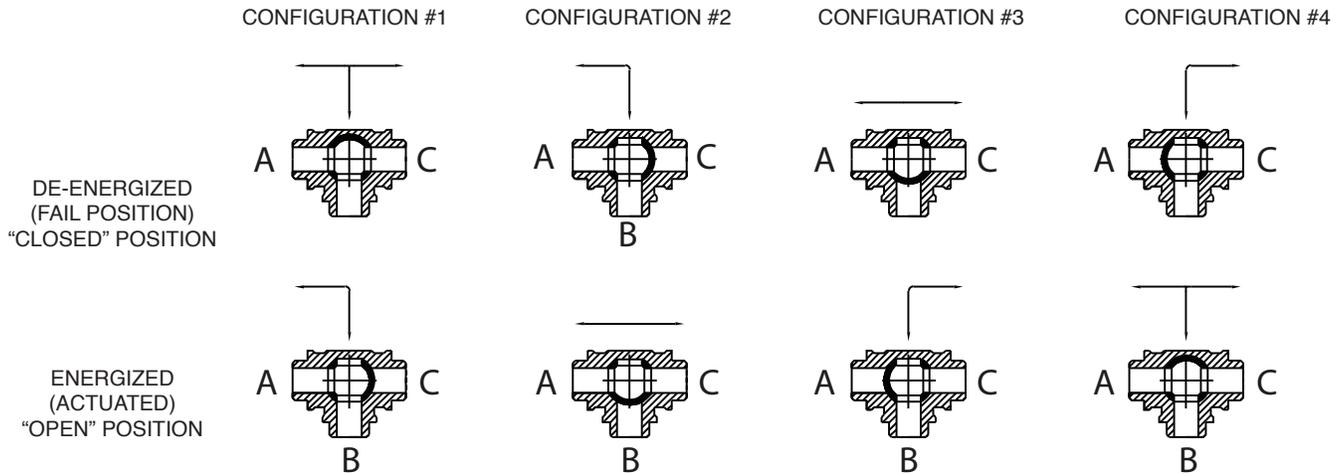


180° rotation actuators allowing for 2 or 3 position control are available upon request

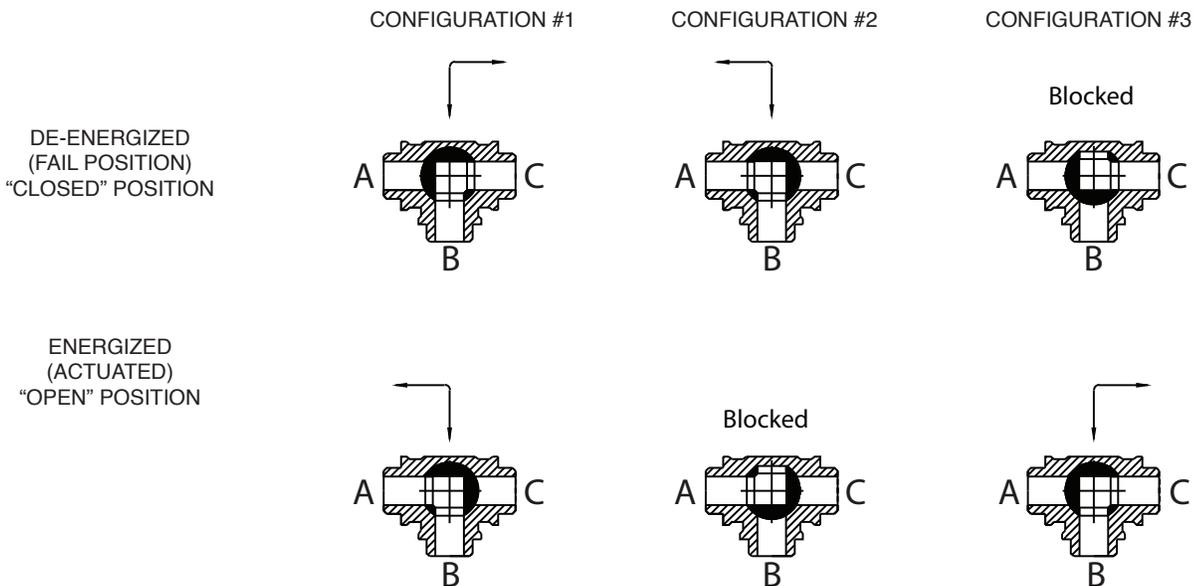
3-WAY BALL VALVE CONFIGURATION OPTIONS

Reverse Actuator (CCW to Close, CW to Open)

T-Port Design



L-Port Design



180° rotation actuators allowing for 2 or 3 position control are available upon request

ACTUATED BALL VALVE PART NUMBERING

Example:		90C	1.0	C	/	*	S	C	-	X	X
Valve Body											
90C	Clamp 2-Way										
90W	Weld 2-Way										
93C	Clamp 3-Way										
93W	Weld 3-Way L Port										
93CT	Clamp 3-Way T port										
93WT	Weld 3-Way T Port										
90AW	Orbital Weld 2-Way										
93AW	Orbital Weld 3-way										
Size											
.5	1.5	3.0									
.75	2.0	4.0									
1.0	2.5										
Finish											
C	Standard 20 Ra ID										
D	15 Ra EP ID										
Actuator											
*Standard sizing for 80 PSI air supply and 1.2 safety factor is listed on pages 30&31											
Action											
S	Spring Return										
D	Double Acting										
E	Fully Electric										
P	Stainless Steel Spring Return										
Q	Stainless Steel Double Acting										
Fail Position / Flow Pattern											
O	2-Way Fail Open										
C	2-Way Fail Closed (Standard)										
1	3-Way Configuration 1 (Standard)										
2	3-Way Configuration 2										
3	3-Way Configuration 3										
4	3-Way Configuration 4										
R1	Reverse-Acting 3-Way Configuration 1										
R2	Reverse-Acting 3-Way Configuration 2										
R3	Reverse-Acting 3-Way Configuration 3										
R4	Reverse-Acting 3-Way Configuration 4										
Accessory 1 (Solenoid)											
X	Ommitted										
A	120VAC Nema 4										
B	24VDC Nema 4										
Accessory 2 (Limit Switch)											
X	Ommitted										
A	2SPDT Mech. Limit Switches / Dome Ind. Nema 4										

Call to discuss our full line of automated valve accessories.

*Conditions such as pressure, temperature, type of media, amount and kind of suspended material in the media, and frequency of operation all affect proper actuator sizing.