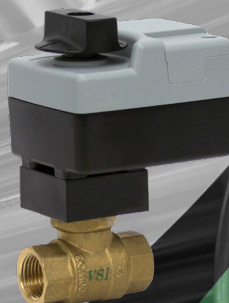
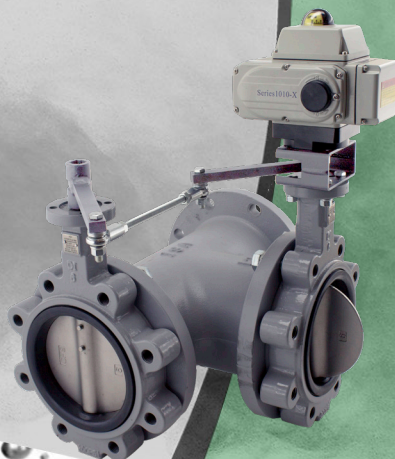
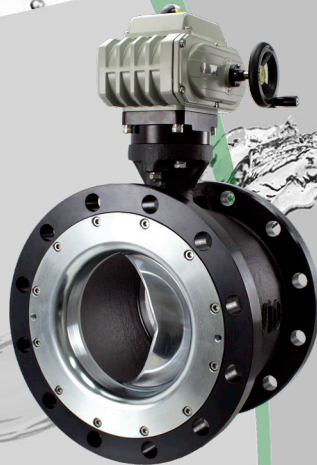


Product Guide

VSI





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As part of an on-going product development process, VSI reserves the right to amend or change specifications without prior notice. Published data may be subject to change. For the latest documentation, visit our website at www.valvesolutions.com

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Section I: Series V Segmented Ball Valve

The Series V High-Performance Segmented Ball valve is a high capacity valve with precise control and maximum close-off for liquid, gas and steam applications. Product features include: high rangeability with a 300:1 coefficient ratio; high capacity Cv (exceeds globe valves); ANSI Class VI close-off up to 285 PSI; ANSI 150 and ANSI 300 rated carbon steel or stainless steel bodies ; all stainless-steel trim and PEEK bushings.

The Series V is ideal for High-Pressure, high flow service where control is a priority. The “V” notched stainless steel ball allows for maximum control range and equal percentage flow characteristics. The TFM soft seat material enables the valve to close off with class VI rating for “zero leakage”.

Series V sizes range from 1” thru 12” and provide adequate control in place of butterfly valves in large flow applications. The 1” thru 2” valve bodies are multi-rated for ANSI 150 and ANSI 300. For sizes 3” and larger, ANSI 150 and ANSI 300 are available.

Features

- Carbon Steel Body/Stainless Steel Optional
- Stainless Steel Ball and Stem
- Sizes 1” through 12”
- ANSI 150/300 available in 1” through 6”
- 125 PSI Steam Rated
- 300:1 Range-ability
- ANSI Class VI Close Off
- 285 PSI Rated Close-Off



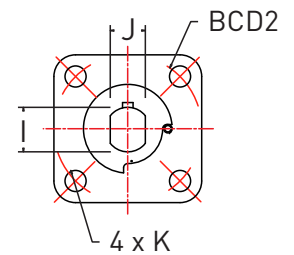
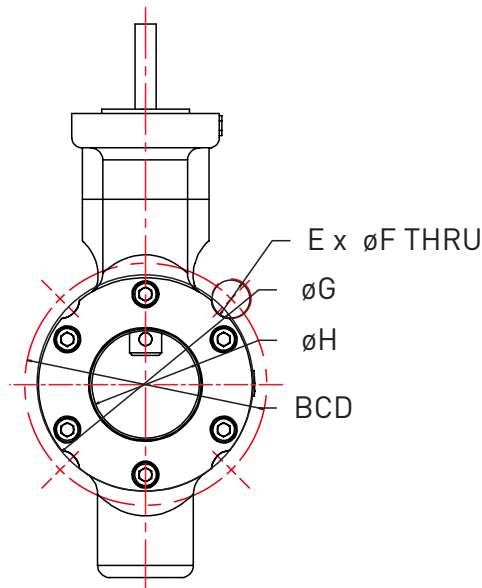
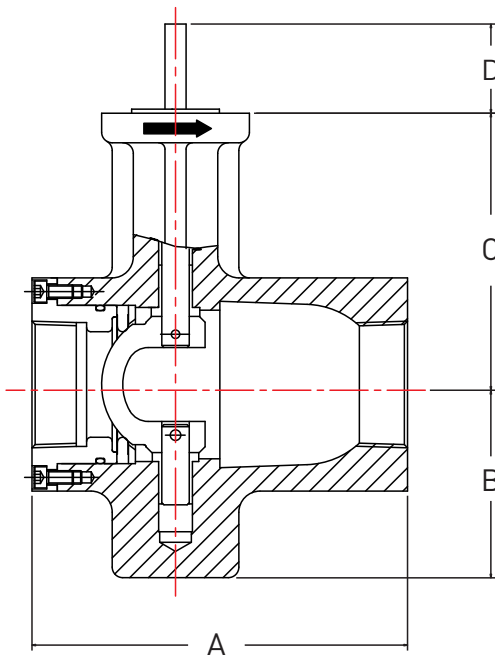


Series V

1"-2" NPT Threaded/Wafer High Performance Segmented V-Ball Valve

Segmented V-Ball Valve

- Applications: Air Handling Units, Boilers, 50% Glycol, Steam, Process Control
- Multi-Rated Body ANSI 150/300
- Max Close-off Pressure: 285 PSI
- Max Steam Pressure: 125 PSI
- Temperature Range: -20° - 450° F
- Carbon or Stainless Steel body
- Leakage Class: ANSI Class VI
- Flow Characteristic: Modified Equal Percentage
- TFM 1700 Seat Material
- High Rangeability: 300:1 Turn-down ratio



SIZE IN	VALVE MODEL	A	B	C	D	E	F	G	H	I	J	K	BCD	BCD2	WEIGHT (LB)
1	V-1	5.00	2.56	4.04	1.33	4	5/8	2.76	1" NPT	0.5	0.39	0.39	3.13	2.75	9
1½	V-1.5	6.50	2.88	4.43	1.33	4	5/8	3.43	1.5" NPT	0.5	0.39	0.39	3.88	2.75	15
2	V-2	7.00	3.60	5.12	1.33	4	3/4	3.98	2" NPT	0.5	0.39	0.39	5.00	2.75	19

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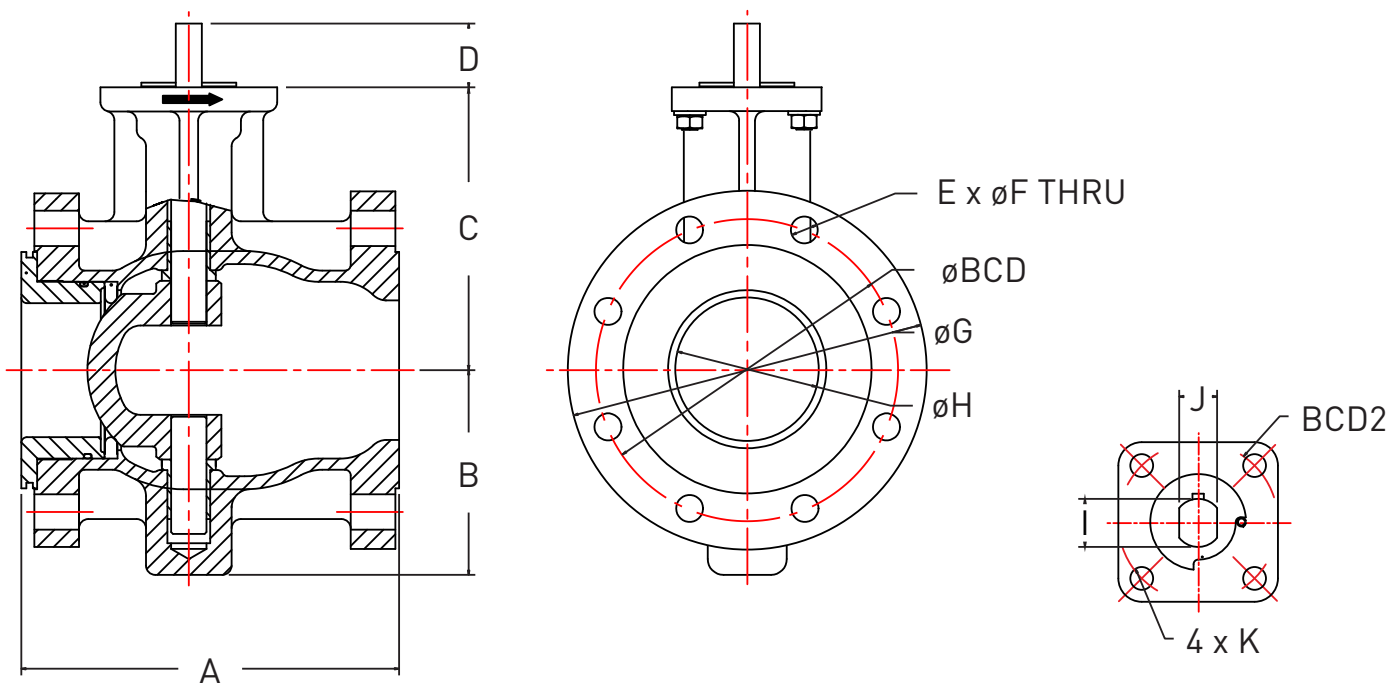


Series V

3"-6" Flanged High Performance Segmented V-Ball Valve

Segmented V-Ball Valve

- Applications: Air Handling Units, Boilers, 50% Glycol, Steam, Process Control
- ANSI 150 or 300 Body Rating
- Max Close-off Pressure: 285 PSI
- Max Steam Pressure: 125 PSI
- Temperature Range: -20° - 450° F
- Carbon or Stainless Steel body
- Flow Characteristic: Modified Equal Percentage
- Leakage Class: ANSI Class VI
- TFM 1700 Seat Material
- High Rangeability: 300:1 Turn-down ratio



SIZE IN	VALVE MODEL	A	B	C	D	E	F	G	H	I	J	K	BCD	BCD2	WEIGHT (LB)
3	V-3	8.00	4.33	5.98	1.37	6.00	3/4	0.94	Ø2.95	0.75	0.55	0.45	6.00	4.01	38
4	V-4	9.00	5.11	7.05	1.37	7.50	3/4	0.94	Ø3.94	0.75	0.55	0.45	7.50	4.01	56
6	V-6	10.50	6.00	7.98	1.37	8.00	3/4	0.94	Ø6.06	0.75	0.55	0.45	9.50	4.01	93

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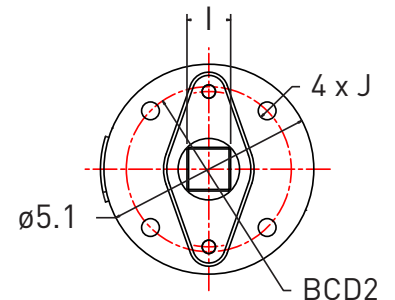
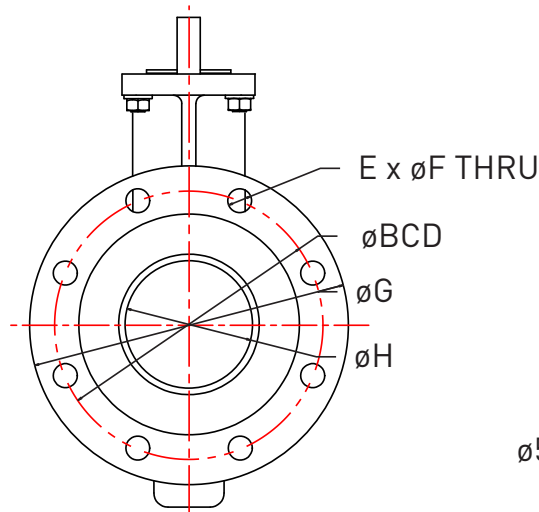
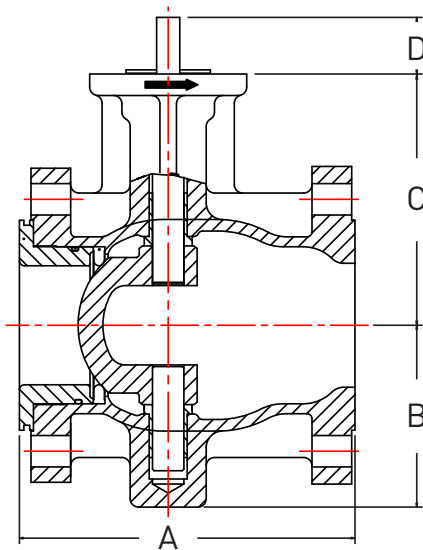


Series V

8"-12" Flanged High Performance Segmented V-Ball Valve

Segmented V-Ball Valve

- Applications: Air Handling Units, Boilers, 50% Glycol, Steam, Process Control
- ANSI 150 Body Rating
- Max Close-off Pressure: 285 PSI
- Max Steam Pressure: 125 PSI
- Temperature Range: -20° - 450° F
- Carbon Steel body
- Leakage Class: ANSI Class VI
- Flow Characteristic: Modified Equal Percentage
- TFM 1700 Seat Material
- High Rangeability: 300:1 Turn-down ratio



SIZE IN	VALVE MODEL	A	B	C	D	E	F	G	H	I	J	BCD	BCD2	WEIGHT (LBS)
8	V-8	9.57	6.85	9.13	1.50	8.00	7/8	13.58	Ø6.54	1.06	0.43	11.75	4.01	153
10	V-10	11.69	8.35	10.24	1.50	12.00	1	15.94	Ø8.78	1.06	0.43	14.25	4.01	215
12	V-12	13.31	10.08	11.93	1.50	12.00	1	19.09	Ø10.79	1.06	0.43	17.00	4.01	336

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Series V • 1000-X

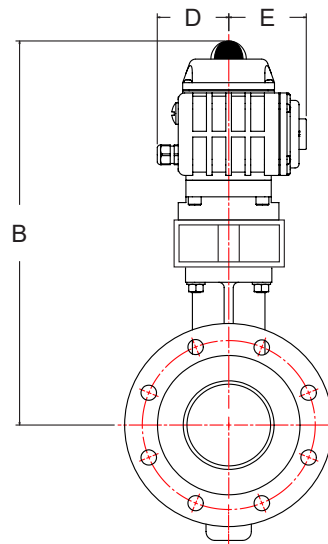
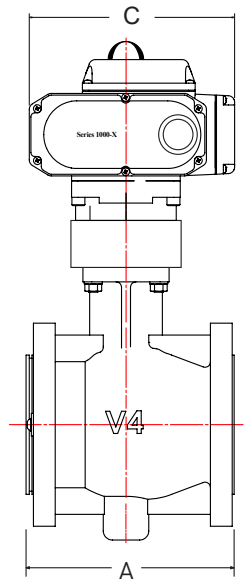
High Performance Segmented V-Ball Valve with Two-Position Electric Actuator

Segmented V-Ball Valve

- Carbon (ALL) or Stainless Steel (1" - 6") body
- Max Close-off Pressure: 285 PSI
- Max Steam Pressure: 125 PSI
- Temperature Range: -20° - 450° F
- TFM 1700 Seat Material
- Flow Characteristic: Modified Equal Percentage

Two-Position Electric Actuator

- 110VDC, 24 VDC, 220VAC, and 24VAC Electric Actuator
- Certifications: CE, NRTL, CSA
- NEMA 4 / 4X watertight, Aluminum Housing
- Torque Output Range: 443 in-lb to 22,127 in-lb
- Handwheel available on 1010-X and higher
- Refer to Section V for detailed actuator information



SIZE IN	VALVE MODEL	ACTUATOR MODEL	A	B	C	D	E	WEIGHT (LBS)
1	V-1	1005-X	5.00	12.36	6.30	2.87	2.48	15
1½	V-1.5	1005-X	6.50	12.75	6.30	2.87	2.48	21
2	V-2	1005-X	7.00	12.44	6.30	2.87	2.48	25
3	V-3	1005-X	8.00	15.30	6.30	2.87	2.48	44
4	V-4	1010-X	9.00	17.77	7.13	2.91	2.80	66
6	V-6	1010-X	10.50	18.70	7.13	2.91	2.80	103
8	V-8	1040-X	9.57	17.71	10.04	3.43	3.74	172
10	V-10	1060-X	11.69	18.82	10.04	3.43	3.74	237
12	V-12	1100-X	13.31	21.54	12.21	4.37	5.12	365

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Series V • 1000/S-X

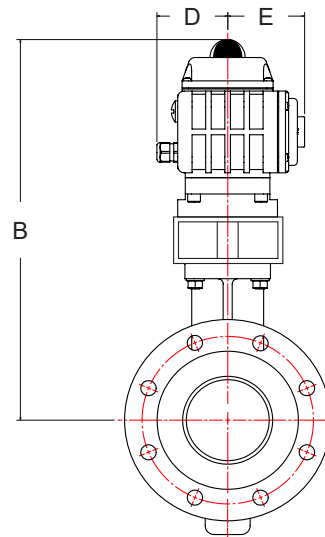
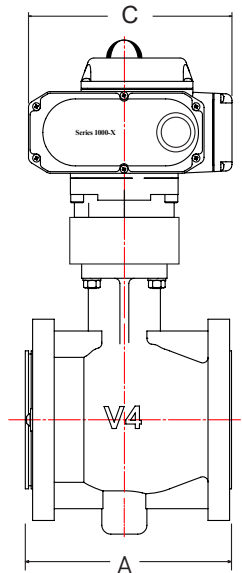
High Performance Segmented V-Ball Valve with Modulating Electric Actuator

Segmented V-Ball Valve

- Carbon (ALL) or Stainless Steel (1" - 6") body
- Max Close-off Pressure: 285 PSI
- Max Steam Pressure: 125 PSI
- Temperature Range: -20° - 450° F
- TFM 1700 Seat Material
- Flow Characteristic: Modified Equal Percentage

Modulating Control Electric Actuator

- 110VDC, 24 VDC, 220VAC, and 24VAC Electric Actuator
- Certifications: CE, NRTL, CSA
- NEMA 4 / 4X watertight, Aluminum Housing
- Control Signal: 2-10 VDC or 4-20 mA
- Torque Output Range: 443 in-lb to 22,127 in-lb
- Handwheel available on 1010/S-X and higher
- Refer to Section V for detailed actuator information



SIZE IN	VALVE MODEL	ACTUATOR MODEL	A	B	C	D	E	WEIGHT (LB)
1	V-1	1005/S-X	5.00	12.36	6.30	2.87	2.48	15
1½	V-1.5	1005/S-X	6.50	12.75	6.30	2.87	2.48	21
2	V-2	1005/S-X	7.00	12.44	6.30	2.87	2.48	25
3	V-3	1005/S-X	8.00	15.30	6.30	2.87	2.48	44
4	V-4	1010/S-X	9.00	17.77	7.13	2.91	2.80	66
6	V-6	1010/S-X	10.50	18.70	7.13	2.91	2.80	103
8	V-8	1040/S-X	9.57	17.71	10.04	3.42	3.74	172
10	V-10	1060/S-X	11.69	18.82	10.04	3.42	3.74	237
12	V-12	1100/S-X	13.31	21.54	12.21	3.42	5.12	365

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Series V • C-DA

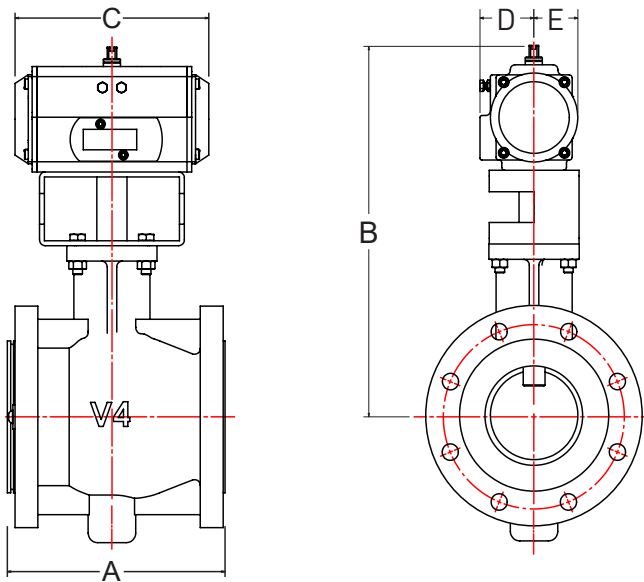
High Performance Segmented V-Ball Valve with Double Acting Pneumatic Actuator

Segmented V-Ball Valve

- Carbon (ALL) or Stainless Steel (1" - 6") body
- Max Close-off Pressure: 285 PSI
- Max Steam Pressure: 125 PSI
- Temperature Range: -20° - 450° F
- TFM 1700 Seat Material
- Flow Characteristic: Modified Equal Percentage

Double Acting High-Pressure Pneumatic Actuator

- Die Cast Aluminum Alloy Body
- Torque Range: 124 in-lb to 40,519 in-lb
- 60 -110 PSI Air Supply Required
- Standard NAMUR mounts
- Refer to Section V for detailed actuator information



Refer to Section VI For Accessories

For Two-Position Control Refer to:
 -Solenoid Control Valve
 -Limit Switch Box

For Modulating Control Refer to:
 -Pneumatic Positioner
 -Electro-Pneumatic Positioner
 -Dome Indicator Positioner

SIZE IN	VALVE MODEL	ACTUATOR MODEL	A	B	C	D	E	WEIGHT (LB)
1	V-1	C-DA063	5.00	9.19	6.61	1.85	1.42	13
1½	V-1.5	C-DA063	6.50	9.58	6.61	1.85	1.42	19
2	V-2	C-DA063	7.00	10.56	6.61	1.85	1.42	23
3	V-3	C-DA063	8.00	12.42	6.61	1.85	1.42	42
4	V-4	C-DA083	9.00	14.33	8.03	2.24	1.81	63
6	V-6	C-DA092	10.50	15.57	10.31	2.30	1.97	103
8	V-8	C-DA125	9.57	15.23	11.85	2.93	2.66	165
10	V-10	C-DA140	11.69	17.01	15.35	3.03	2.95	235
12	V-12	C-DA160	13.31	19.69	18.03	3.43	3.43	350

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Series V • C-SR

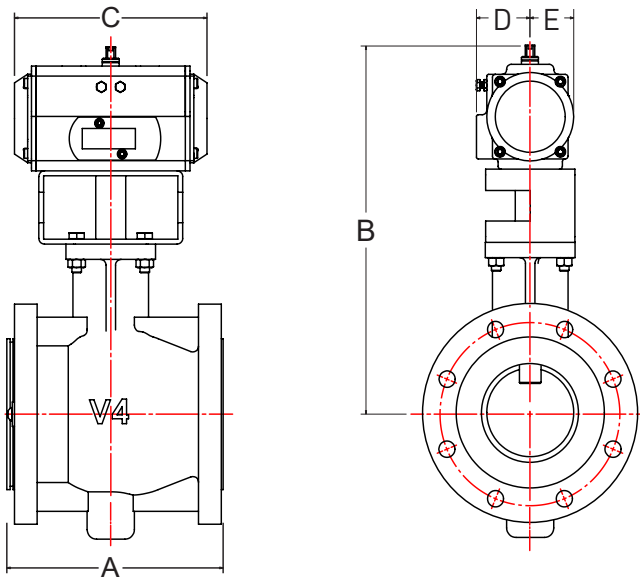
High Performance Segmented V-Ball Valve with Spring Return Pneumatic Actuator

Segmented V-Ball Valve

- Carbon (ALL) or Stainless Steel (1" - 6") body
- Max Close-off Pressure: 285 PSI
- Max Steam Pressure: 125 PSI
- Temperature Range: -20° - 450° F
- TFM 1700 Seat Material
- Flow Characteristic: Modified Equal Percentage

Spring Return High-Pressure Pneumatic Actuator

- Die Cast Aluminum Alloy Body
- Torque Range: 124 in-lb to 15,500 in-lb
- 60 - 110 PSI Air Supply Required
- Standard NAMUR mounts
- Refer to Section V for detailed actuator information



Refer to Section VI For Accessories

For Two-Position Control Refer to:
 -Solenoid Control Valve
 -Limit Switch Box

For Modulating Control Refer to:
 -Pneumatic Positioner
 -Electro-Pneumatic Positioner
 -Dome Indicator Positioner

SIZE IN	VALVE MODEL	ACTUATOR MODEL	A	B	C	D	E	WEIGHT (LB)
1	V-1	C-SR063	5.00	9.48	6.61	1.85	1.42	14
1½	V-1.5	C-SR063	6.50	9.87	6.61	1.85	1.42	20
2	V-2	C-SR083	7.00	11.40	8.03	2.24	1.81	24
3	V-3	C-SR083	8.00	13.26	8.03	2.24	1.81	43
4	V-4	C-SR105	9.00	15.29	10.55	2.52	2.26	64
6	V-6	C-SR125	10.50	17.08	11.85	2.93	2.66	104
8	V-8	C-SR160	9.57	16.89	18.03	3.43	3.43	165
10	V-10	C-SR190	11.69	19.30	20.67	4.06	4.06	237
12	V-12	C-SR210	13.31	21.97	20.94	4.45	4.45	352

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Series V • Damper

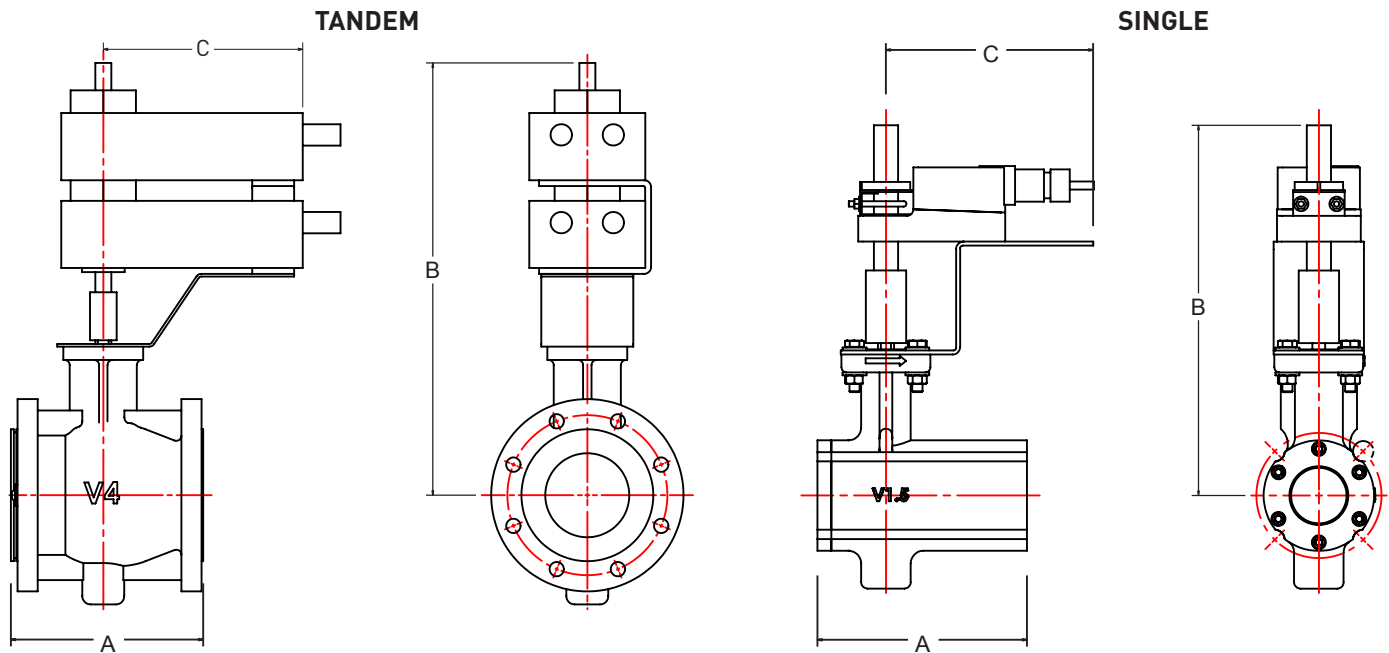
High Performance Segmented V-Ball Valve with Damper Actuator

Segmented V-Ball Valve

- Carbon (ALL) or Stainless Steel (1" - 6") body
- Max Close-off Pressure: 285 PSI
- Max Steam Pressure: 125 PSI
- Temperature Range: -20° - 450° F
- TFM 1700 Seat Material
- Flow Characteristic: Modified Equal Percentage

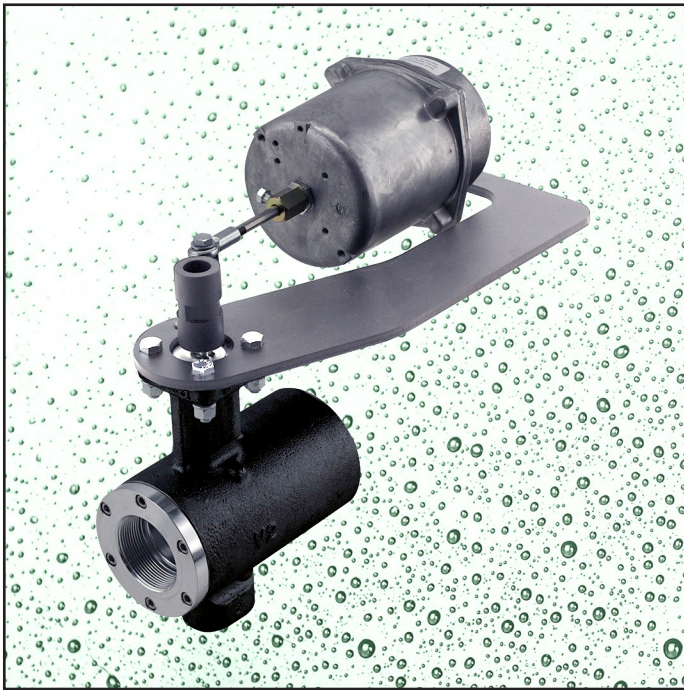
Two-Position/Modulating Damper Actuator

- Spring and Non-Spring Return Option
- Two-Position or Modulating Control
- Wide range of HVAC damper actuators
- Flexible Mounting including Tandem style if necessary
- Contact VSI for Damper Actuator Assemblies



SIZE IN	VALVE MODEL	NON-SPRING RETURN			WEIGHT (LB)	SPRING RETURN			WEIGHT (LB)
		A	B	C		A	B	C	
1	V-1	5.00	11.04	7.50	13	5.00	11.04	9.00	16
1½	V-1.5	6.50	11.43	7.50	19	6.50	11.43	9.00	22
2	V-2	7.00	12.12	7.50	23	7.00	12.12	9.00	27
3	V-3	8.00	12.98	9.00	48	8.00	13.98	9.35	51
4	V-4	9.00	18.30	9.00	66	9.00	20.55	9.35	80
6	V-6	10.50	19.23	9.00	103	10.50	19.23	9.35	105





Series V • L-2P

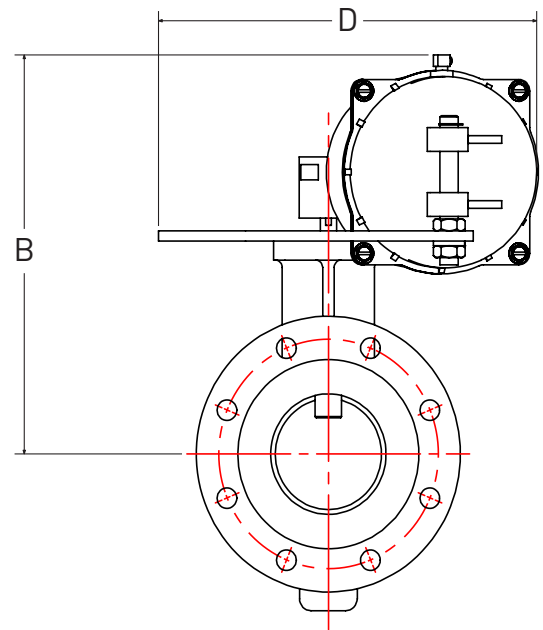
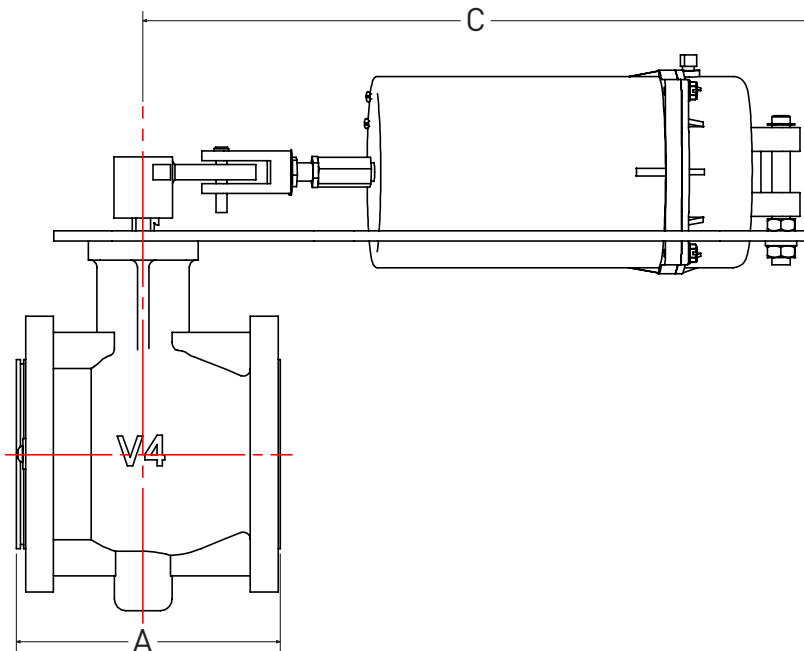
High Performance Segmented V-Ball Valve with Two-Position Pneumatic Actuator

Segmented V-Ball Valve

- Carbon (ALL) or Stainless Steel (1" - 6") body
- Max Close-off Pressure: 285 PSI
- Max Steam Pressure: 125 PSI
- Temperature Range: -20° - 450° F
- TFM 1700 Seat Material
- Flow Characteristic: Modified Equal Percentage

Two-Position Low-Pressure Pneumatic Actuator

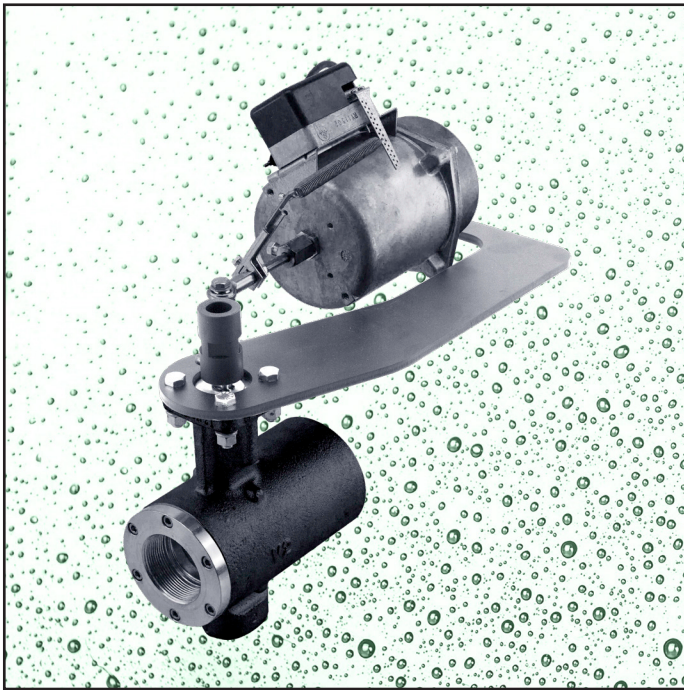
- Die-Cast Aluminum Body
- Diaphragm: Synthetic Elastomer
- Spring Range: 8-13 PSI
- 25 PSI Air Supply Required
- Refer to Section V for detailed actuator information



SIZE IN	VALVE MODEL	ACTUATOR MODEL	A	B	C	D	WEIGHT (LB)
1	V-1	D-3153-5130	5.00	9.04	14.25	8.00	24
1½	V-1.5	D-3153-5130	6.50	9.43	14.25	8.00	30
2	V-2	D-3153-5130	7.00	10.12	14.25	8.00	34
3	V-3	D-3244-5110	8.00	12.73	18.00	11.25	68
4	V-4	D-3246-5110	9.00	13.80	22.75	13.00	105
6	V-6	D-3246-5110	10.50	14.73	22.75	13.00	142

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Series V • L-MOD

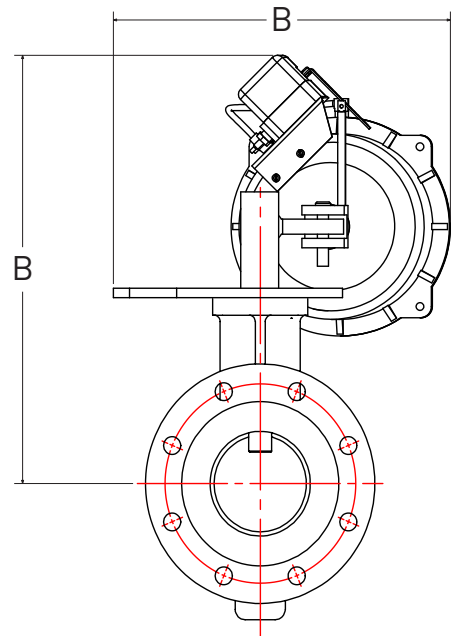
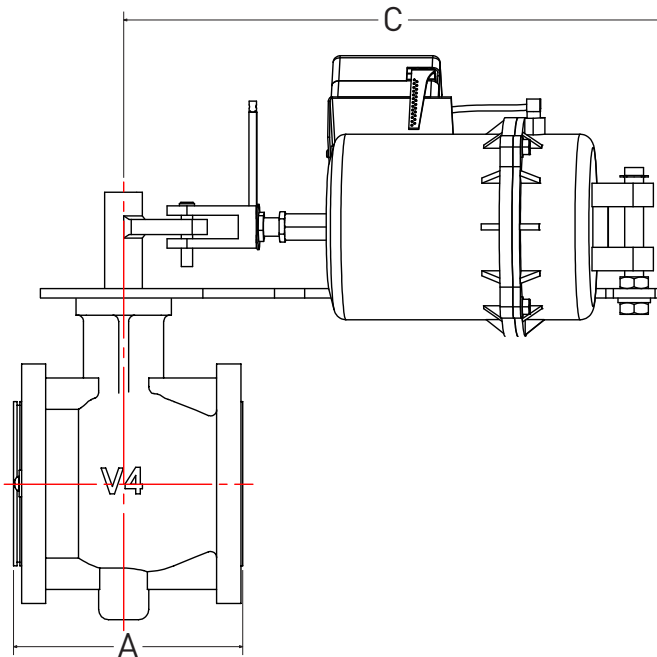
High Performance Segmented V-Ball Valve with Modulating Pneumatic Actuator

Segmented V-Ball Valve

- Carbon (ALL) or Stainless Steel (1" - 6") body
- Max Close-off Pressure: 285 PSI
- Max Steam Pressure: 125 PSI
- Temperature Range: -20° - 450° F
- TFM 1700 Seat Material
- Flow Characteristic: Modified Equal Percentage

Modulating Low-Pressure Pneumatic Actuator

- Die-Cast Aluminum Body
- Diaphragm: Synthetic Elastomer
- 25 PSI Air Supply Required
- Adjustable Pilot Positioner: 3-15 PSI
- Refer to Section V for detailed actuator information



SIZE IN	VALVE MODEL	ACTUATOR MODEL	A	B	C	D	WEIGHT (LB)
1	V-1	D-3153-5120	5.00	12.29	14.25	8.00	26
1½	V-1.5	D-3153-5120	6.50	12.68	14.25	8.00	32
2	V-2	D-3153-5120	7.00	13.37	14.25	8.00	36
3	V-3	D-3244-5100	8.00	14.23	18.00	11.25	70
4	V-4	D-3246-5100	9.00	15.30	22.75	13.00	107
6	V-6	D-3246-5100	10.50	16.23	22.75	13.00	144

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Notes





Section II: Ball Valves

VSI offers a full line of ball valves for all industrial and commercial projects. The product range includes basic lever operated 1/4" isolation valves to 12" and larger complex control valves. End connections are available in NPT, socket weld, butt weld and flanged - up to CL600 for certain models.

Most models include an ISO 5211 actuator mount which allows for seamless assembly with VSI's extensive line of electric and pneumatic actuators. VSI can provide the ideal ball valve package – assembled, tested and ready to install.

The Series 7400 three piece, 2-way valve features our exclusive ALTA high-temperature seat capable of temperatures up to 575°F with zero leakage. Unique to VSI is our Series 7300 three-way divert valve available in either flanged or grooved end connections. With a wide variety of ball valves, VSI is capable and committed to meet any specification.

Options

- NPT, Socket Weld, Butt Weld or Flanged Connections
- High-temperature seats available
- Fire-safe configurations available
- Stainless or Carbon Steel bodies
- Electric, pneumatic or hydraulic actuators available



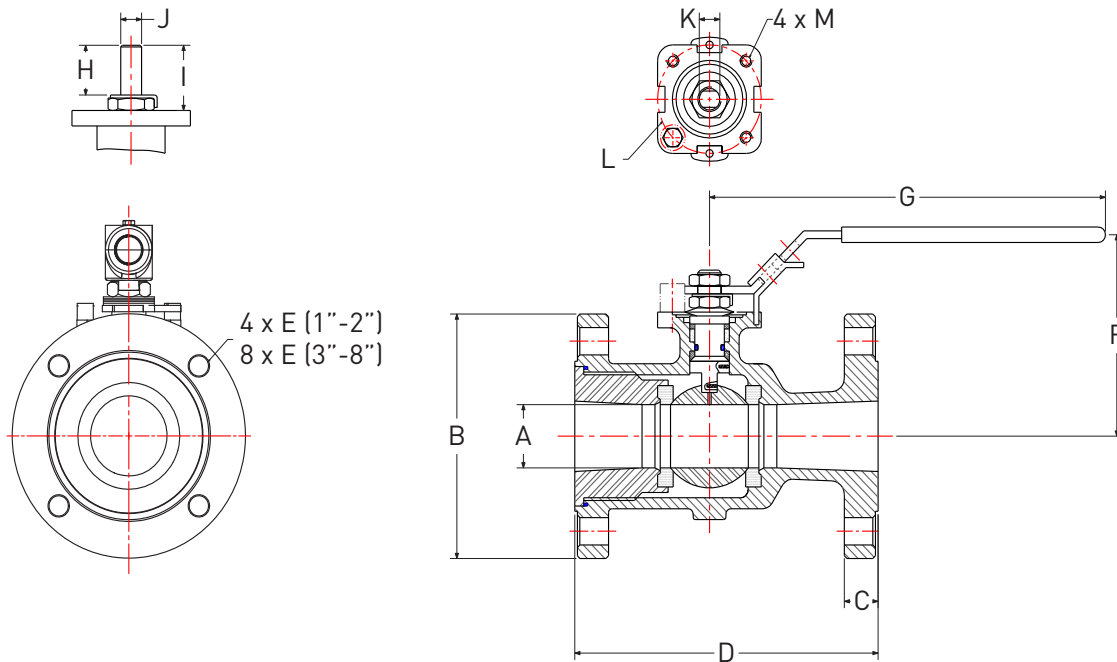


Series 7115

One Piece Standard Port Ball Valve

One Piece ANSI/ASME Class 150 Flanged Ball Valve

- 285 PSI Close off Pressure (WCB Carbon Steel)
- 275 PSI Close Off Pressure (Stainless Steel)
- Temperature Rating up to 600°F
- ISO 5211 standard mounting plate
- V-Cup Packing and Anti-Static Blow Out Proof Stem
- TFM, RPTFE, PEEK, and ALTA Seat Options
- Replaceable Seats
- Bi-Directional Service
- Fire Safe Option Available
- ANSI/ASME Class 300 Available



SIZE IN	VALVE MODEL	A	B	C	D	E	F	G	H	I	J	K	L	M	WEIGHT (LB)
1	1" S7115-XX	0.79	4.25	0.54	5.00	0.63	2.91	6.50	0.35	0.52	0.25	0.38	1.63	M5X0.8	6
1½	1.5" S7115-XX	1.26	5.00	0.67	6.50	0.63	3.75	7.87	0.47	0.71	0.33	0.47	1.98	M5X1.0	11
2	2" S7115-XX	1.50	6.00	0.80	7.00	0.75	4.13	10.43	0.57	0.88	0.37	0.63	2.74	M6X1.25	17
3	3" S7115-XX	2.56	7.50	0.75	8.00	0.75	6.38	15.35	0.93	2.97	0.67	1.10	4.00	M10X1.5	31
4	4" S7115-XX	3.00	9.00	0.94	9.00	0.75	6.93	15.35	1.40	3.07	0.67	1.10	4.00	M10X1.5	52
6	6" S7115-XX	4.00	11.00	1.00	10.50	0.87	7.60	15.35	1.40	3.07	0.67	1.10	4.00	M12X1.5	120
8	8" S7115-XX	6.00	13.50	1.13	11.50	0.87	11.50	25.59	1.65	3.58	1.02	1.71	5.00	M12X1.75	181

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Series 7115 • 1000-X

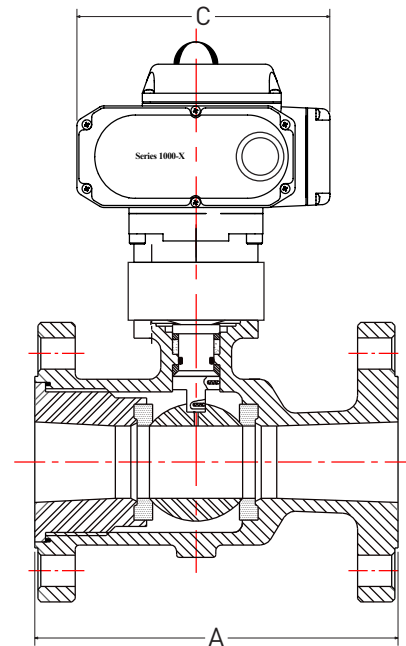
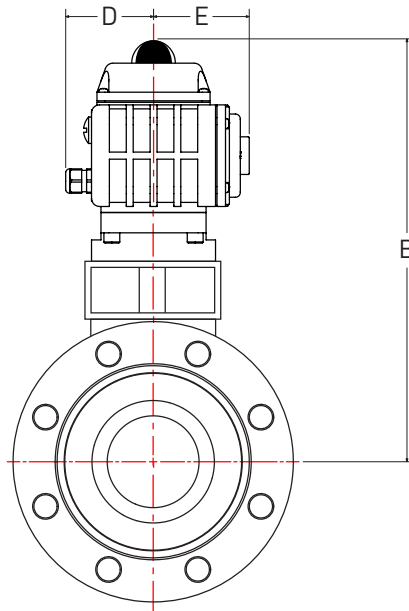
One Piece Standard Port Ball Valve with Two-Position Electric Actuator

One Piece ANSI/ASME Class 150 Flanged Ball Valve

- 285 PSI Close off Pressure (WCB Carbon Steel)
- 275 PSI Close Off Pressure (Stainless Steel)
- Temperature up to 600°F
- TFM, RPTFE, PEEK, and ALTA Seat Options
- V-Cup Packing and Anti-Static Blow Out Proof Stem

Two-Position Electric Actuator

- 110VDC, 24 VDC, 220VAC, and 24VAC Electric Actuator
- Certifications: CE, NRTL, CSA
- NEMA 4 / 4X watertight, Aluminum Housing
- Torque Output Range: 443 in-lb to 22,127 in-lb
- Handwheel available on 1010-X and higher
- Refer to Section V for detailed actuator information



SIZE IN	VALVE MODEL	ACTUATOR MODEL	A	B	C	D	E	WEIGHT (LB)
1	1" S7115-XX	1005-X	5.00	9.02	6.32	2.87	2.48	12
1½	1.5" S7115-XX	1005-X	6.50	9.32	6.32	2.87	2.48	17
2	2" S7115-XX	1005-X	7.00	10.58	6.32	2.87	2.48	23
3	3" S7115-XX	1010-X	8.00	13.97	7.13	2.91	2.80	41
4	4" S7115-XX	1010-X	9.00	14.41	7.13	2.91	2.80	62
6	6" S7115-XX	1020-X	10.50	16.30	8.58	3.43	3.74	140
8	8" S7115-XX	1060-X	11.50	17.58	8.58	3.43	3.74	203





Series 7115 • 1000/S-X

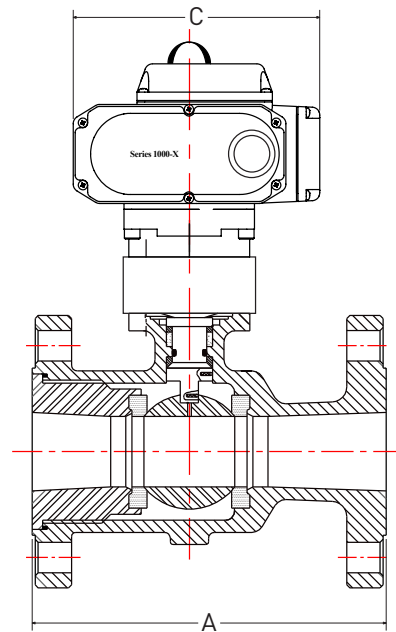
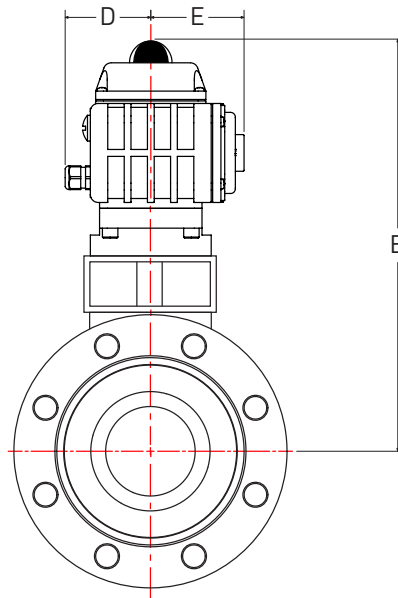
One Piece Standard Port Ball Valve with Modulating Electric Actuator

One Piece ANSI/ASME Class 150 Flanged Ball Valve

- 285 PSI Close off Pressure (WCB Carbon Steel)
- 275 PSI Close Off Pressure (Stainless Steel)
- Temperature up to 600°F
- TFM, RPTFE, PEEK, and ALTA Seat Options
- V-Cup Packing and Anti-Static Blow Out Proof Stem

Modulating Control Electric Actuator

- 110VDC, 24 VDC, 220VAC, and 24VAC Electric Actuator
- Certifications: CE, NRTL, CSA
- NEMA 4 / 4X watertight, Aluminum Housing
- Control Signal: 2-10 VDC or 4-20 mA
- Torque Output Range: 443 in-lb to 22,127 in-lb
- Handwheel available on 1010/S-X and higher
- Refer to Section V for detailed actuator information



SIZE IN	VALVE MODEL	ACTUATOR MODEL	A	B	C	D	E	WEIGHT (LB)
1	1"S7115-XX	1005/S-X	5.00	9.02	6.32	2.87	2.48	13
1½	1.5"S7115-XX	1005/S-X	6.50	9.32	6.32	2.87	2.48	18
2	2"S7115-XX	1005/S-X	7.00	10.58	6.32	2.87	2.48	24
3	3"S7115-XX	1010/S-X	8.00	13.97	7.13	2.91	2.80	42
4	4"S7115-XX	1010/S-X	9.00	14.41	7.13	2.91	2.80	62
6	6"S7115-XX	1020/S-X	10.50	16.30	8.58	3.43	3.74	141
8	8"S7115-XX	1060/S-X	11.50	17.58	8.58	3.43	3.74	204

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Series 7115 • C-DA

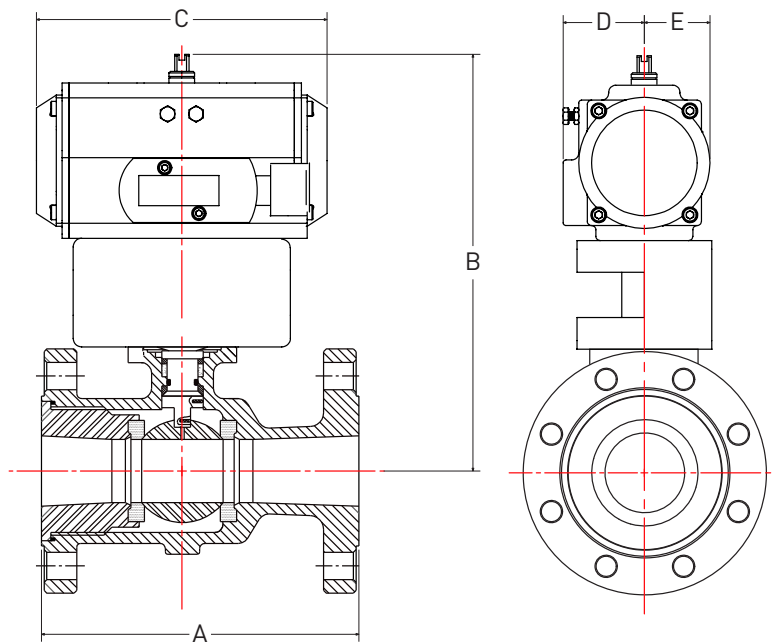
One Piece Standard Port Ball Valve with Double Acting Pneumatic Actuator

One Piece ANSI/ASME Class 150 Flanged Ball Valve

- 285 PSI Close off Pressure (WCB Carbon Steel)
- 275 PSI Close Off Pressure (Stainless Steel)
- Temperature up to 600°F
- TFM, RPTFE, PEEK, and ALTA Seat Options
- V-Cup Packing and Anti-Static Blow Out Proof Stem

Double Acting High-Pressure Pneumatic Actuator

- Die Cast Aluminum Alloy Body
- Torque Range: 124 in-lb to 40,519 in-lb
- 60 -110 PSI Air Supply Required
- Standard NAMUR mounts
- Refer to Section V for detailed actuator information



Refer to Section VI For Accessories

For Two-Position Control Refer to:

- Solenoid Control Valve
- Limit Switch Box

For Modulating Control Refer to:

- Pneumatic Positioner
- Electro-Pneumatic Positioner
- Dome Indicator Positioner

SIZE IN	VALVE MODEL	ACTUATOR MODEL	A	B	C	D	E	WEIGHT (LB)
1	1"S7115-XX	C-DA45	5.00	5.85	4.80	1.43	1.12	8
1½	1.5"S7115-XX	C-DA45	6.50	6.15	4.80	1.43	1.12	13
2	2"S7115-XX	C-DA63	7.00	7.61	6.61	1.85	1.42	22
3	3"S7115-XX	C-DA83	8.00	11.91	8.03	2.24	1.81	38
4	4"S7115-XX	C-DA83	9.00	12.35	8.03	2.24	1.81	59
6	6"S7115-XX	C-DA105	10.50	13.74	10.31	2.52	2.26	133
8	8"S7115-XX	C-DA140	11.50	16.19	15.35	3.03	2.95	210

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Series 7115 • C-SR

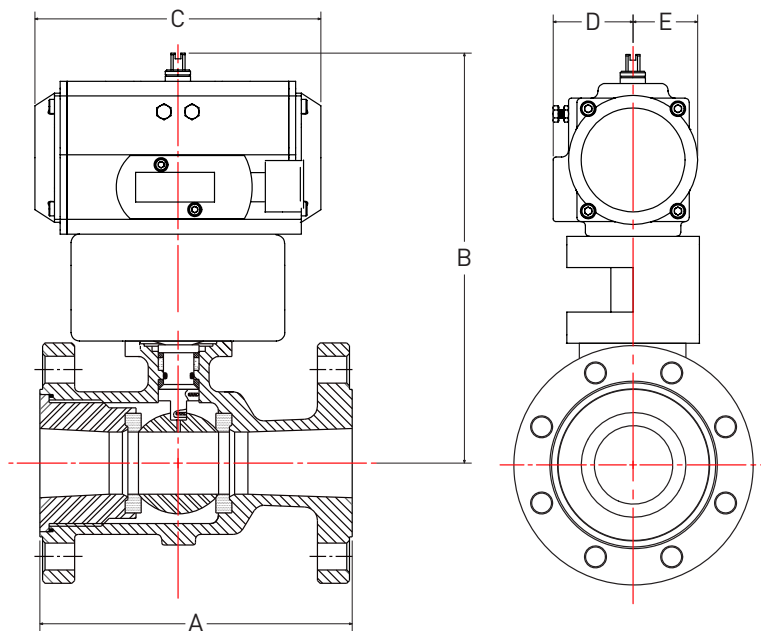
One Piece Standard Port Ball Valve with Spring Return Pneumatic Actuator

One Piece ANSI/ASME Class 150 Flanged Ball Valve

- 285 PSI Close off Pressure (WCB Carbon Steel)
- 275 PSI Close Off Pressure (Stainless Steel)
- Temperature up to 600°F
- TFM, RPTFE, PEEK, and ALTA Seat Options
- V-Cup Packing and Anti-Static Blow Out Proof Stem

Spring Return High-Pressure Pneumatic Actuator

- Die Cast Aluminum Alloy Body
- Torque Range: 124 in-lb to 15,500 in-lb
- 60 -110 PSI Air Supply Required
- Standard NAMUR mounts
- Refer to Section V for detailed actuator information



Refer to Section VI For Accessories

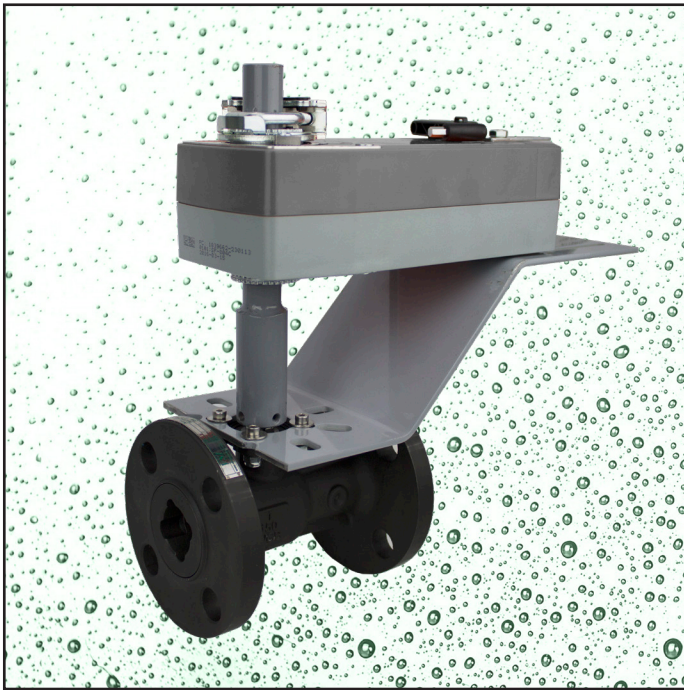
For Two-Position Control Refer to:
-Solenoid Control Valve
-Limit Switch Box

For Modulating Control Refer to:
-Pneumatic Positioner
-Electro-Pneumatic Positioner
-Dome Indicator Positioner

SIZE IN	VALVE MODEL	ACTUATOR MODEL	A	B	C	D	E	WEIGHT (LB)
1	1"S7115-XX	C-SR092	5.00	8.07	10.31	2.30	1.97	17
1½	1.5"S7115-XX	C-SR105	6.50	9.02	10.55	2.52	2.26	26
2	2"S7115-XX	C-SR105	7.00	10.40	10.55	2.52	2.26	32
3	3"S7115-XX	C-SR140	8.00	14.40	15.35	3.03	2.95	65
4	4"S7115-XX	C-SR140	9.00	14.84	15.35	3.03	2.95	86
6	6"S7115-XX	C-SR140	10.50	15.24	15.35	3.03	2.95	154
8	8"S7115-XX	C-SR140	11.50	16.56	15.35	3.03	2.95	208

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Series 7115 • Damper

One Piece Standard Port Ball Valve with Damper Actuator

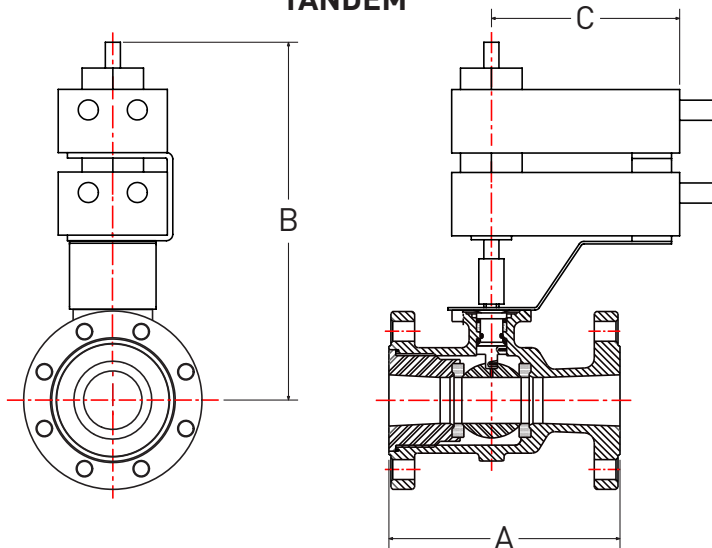
One Piece ANSI/ASME Class 150 Flanged Ball Valve

- 285 PSI Close off Pressure (WCB Carbon Steel)
- 275 PSI Close Off Pressure (Stainless Steel)
- Temperature up to 600°F
- TFM, RPTFE, PEEK, and ALTA Seat Options
- V-Cup Packing and Anti-Static Blow Out Proof Stem

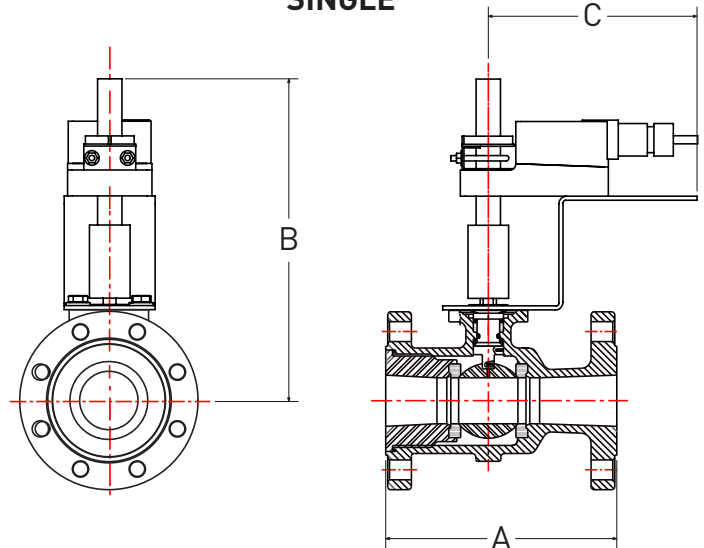
Two-Position/Modulating Damper Actuator

- Spring and Non-Spring Return Option
- Two-Position or Modulating Control
- Wide range of HVAC damper actuators
- Flexible Mounting including Tandem style if necessary
- Contact VSI for Damper Actuator Assemblies

TANDEM



SINGLE



SIZE IN	VALVE MODEL	NON-SPRING RETURN			WEIGHT (LB)	SPRING RETURN			WEIGHT (LB)
		A	B	C		A	B	C	
1	1"S7115-XX	5.00	8.75	7.50	11	5.00	8.75	7.50	18
1½	1.5"S7115-XX	6.50	9.00	7.50	18	6.50	9.00	9.50	22
2	2"S7115-XX	7.00	9.38	7.50	23	7.00	9.38	9.50	27



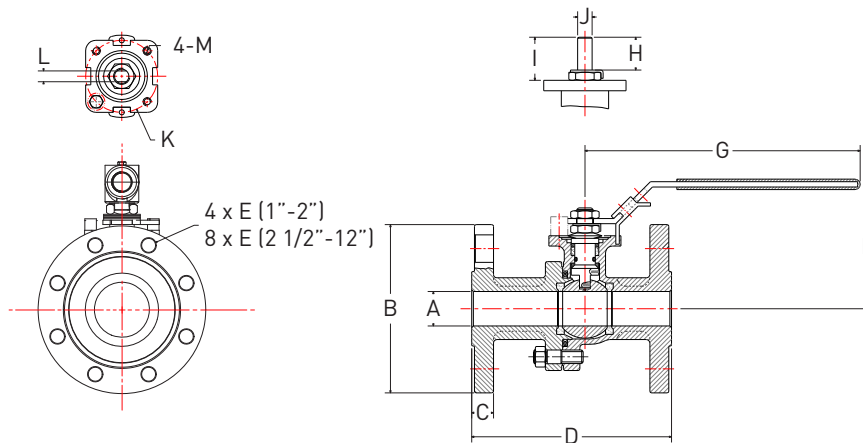


Series 7215

Two-Piece Full Port Ball Valve

Two-Piece Body ASME/ANSI Class 150 Flanged Ball Valve

- 285 PSI Close off Pressure (WCB Carbon Steel)
- 275 PSI Close Off Pressure (Stainless Steel)
- Temperature Rating up to 600°F
- ISO 5211 standard mounting plate for direct mounting
- Anti-Static Blow Out Proof Stem
- Replaceable Seats and V-Cup Packing
- TFM, RPTFE, PEEK, and ALTA Seat Options
- Bi-Directional Service



SIZE IN	VALVE MODEL	A	B	C	D	E	F	G	H	I	J	K	L	M	WEIGHT (LB)
1/2	.50"S7215-XX	0.59	3.50	0.44	4.25	0.63	2.60	6.50	0.31	0.55	0.25	1.65	0.37	M5X0.8	4
3/4	.75"S7215-XX	0.79	3.86	0.50	4.61	0.63	2.91	6.50	0.31	0.55	0.25	1.65	0.37	M5X0.8	5
1	1"S7215-XX	0.98	4.25	0.56	5.00	0.63	3.43	7.87	0.43	0.75	0.31	1.97	0.43	M6X1.0	7
1 1/4	1.25"S7215-XX	1.26	4.63	0.63	5.51	0.63	3.62	7.87	0.43	0.75	0.31	1.97	0.43	M6X1.0	19
1 1/2	1.5"S7215-XX	1.50	5.00	0.69	6.50	0.63	4.13	9.84	0.65	0.91	0.37	2.76	0.62	M8X1.25	14
2	2"S7215-XX	1.97	5.98	0.75	7.01	0.63	4.53	10.43	0.65	0.91	0.37	2.76	0.62	M8X1.25	21
2 1/2	2.5"S7215-XX	2.56	7.01	0.88	7.48	0.75	6.50	15.35	1.10	3.07	0.67	4.02	0.67	M10X1.5	35
3	3"S7215-XX	2.99	7.48	0.94	7.99	0.75	6.54	15.35	1.10	3.07	0.67	4.02	0.67	M10X1.5	45
4	4"S7215-XX	4.00	9.02	0.94	9.02	0.75	7.20	15.35	1.10	3.07	0.67	4.02	0.67	M10X1.5	65
6	6"S7215-XX	5.98	10.98	1.00	15.51	0.87	11.22	25.59	1.71	3.58	1.02	4.92	1.02	M12X1.75	168
8	8"S7215-XX	7.87	13.50	1.13	17.99	0.87	11.57	37.40	1.71	3.58	1.02	4.92	1.02	M12X1.75	275
10	10"S7215-XX	9.84	15.98	1.19	20.98	0.98	14.65	43.31	1.97	3.86	1.38	5.51	1.38	M16X2.0	540
12	12"S7215-XX	11.81	19.02	1.25	24.02	0.98	16.26	43.31	1.97	3.86	1.38	5.51	1.38	M16X2.0	657

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Series 7215 • 1000-X

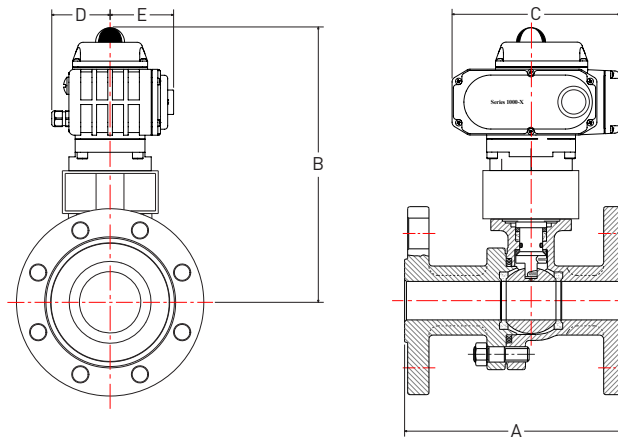
Two-Piece Full Port Ball Valve with Two-Position Electric Actuator

Two-Piece Body ASME/ANSI Class 150 Flanged Ball Valve

- 285 PSI Close off Pressure (WCB Carbon Steel)
- 275 PSI Close Off Pressure (Stainless Steel)
- Temperature Rating up to 600°F
- Anti-Static Blow Out Proof Stem
- Replaceable Seats and V-Cup Packing
- TFM, RPTFE, PEEK, and ALTA Seat Options

Two-Position Electric Actuator

- 110VDC, 24 VDC, 220VAC, and 24VAC Electric Actuator
- Certifications: CE, NRTL, CSA
- NEMA 4 / 4X watertight, Aluminum Housing
- Torque Output Range: 443 in-lb to 22,127 in-lb
- Handwheel available on 1010-X and higher
- Refer to Section V for detailed actuator information



SIZE IN	VALVE MODEL	ACTUATOR MODEL	A	B	C	D	E	WEIGHT (LB)
1/2	.50"S7215-XX	1005-X	4.25	8.68	6.32	2.87	2.48	10
3/4	.75"S7215-XX	1005-X	4.61	8.82	6.32	2.87	2.48	11
1	1"S7215-XX	1005-X	5.00	9.09	6.32	2.87	2.48	13
1 1/4	1.25"S7215-XX	1005-X	5.51	9.32	6.32	2.87	2.48	15
1 1/2	1.5"S7215-XX	1010-X	6.50	11.37	7.13	2.91	2.80	24
2	2"S7215-XX	1010-X	7.01	11.74	7.13	2.91	2.80	31
2 1/2	2.5"S7215-XX	1010-X	7.48	13.89	7.13	2.91	2.80	45
3	3"S7215-XX	1020-X	7.99	15.73	8.58	3.43	3.74	65
4	4"S7215-XX	1040-X	9.02	16.32	8.58	3.43	3.74	86
6	6"S7215-XX	1060-X	15.51	18.75	8.58	3.43	3.74	189
8	8"S7215-XX	1100-X	17.99	21.33	9.61	4.37	5.12	316
10	10"S7215-XX	1100-X	20.98	23.49	9.61	4.37	5.12	581
12	12"S7215-XX	1160-X	24.02	25.07	9.61	4.37	5.12	698





Series 7215 • 1000/S-X

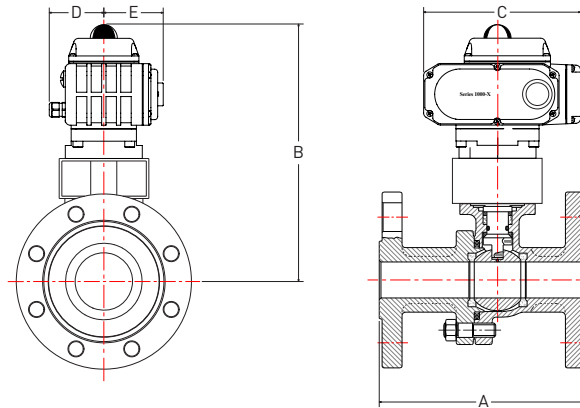
Two-Piece Full Port Ball Valve with Modulating Electric Actuator

Two-Piece Body ASME/ANSI Class 150 Flanged Ball Valve

- 285 PSI Close off Pressure (WCB Carbon Steel)
- 275 PSI Close Off Pressure (Stainless Steel)
- Temperature Rating up to 600°F
- Anti-Static Blow Out Proof Stem
- Replaceable Seats and V-Cup Packing
- TFM, RPTFE, PEEK, and ALTA Seat Options

Modulating Control Electric Actuator

- 110VDC, 24 VDC, 220VAC, and 24VAC Electric Actuator
- Certifications: CE, NRTL, CSA
- NEMA 4 / 4X watertight, Aluminum Housing
- Control Signal: 2-10 VDC or 4-20 mA
- Torque Output Range: 443 in-lb to 22,127 in-lb
- Handwheel available on 1010/S-X and higher
- Refer to Section V for detailed actuator information



SIZE IN	VALVE MODEL	ACTUATOR MODEL	A	B	C	D	E	WEIGHT (LB)
1/2	.50"S7215-XX	1005/S-X	4.25	8.68	6.32	2.87	2.48	11
3/4	.75"S7215-XX	1005/S-X	4.61	8.82	6.32	2.87	2.48	12
1	1"S7215-XX	1005/S-X	5.00	9.09	6.32	2.87	2.48	14
1 1/4	1.25"S7215-XX	1005/S-X	5.51	9.32	6.32	2.87	2.48	16
1 1/2	1.5"S7215-XX	1010/S-X	6.50	11.37	7.71	2.91	2.80	24
2	2"S7215-XX	1010/S-X	7.01	11.74	7.71	2.91	2.80	31
2 1/2	2.5"S7215-XX	1010/S-X	7.48	13.89	7.71	2.91	2.80	45
3	3"S7215-XX	1020/S-X	7.99	15.73	10.04	3.43	3.74	66
4	4"S7215-XX	1040/S-X	9.02	16.32	10.04	3.43	3.74	87
6	6"S7215-XX	1060/S-X	15.51	18.75	10.04	3.43	3.74	190
8	8"S7215-XX	1100/S-X	17.99	21.33	12.21	4.37	5.11	316
10	10"S7215-XX	1100/S-X	20.98	23.49	12.21	4.37	5.11	581
12	12"S7215-XX	1160/S-X	24.02	25.07	12.21	4.37	5.11	699

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Series 7215 • C-DA

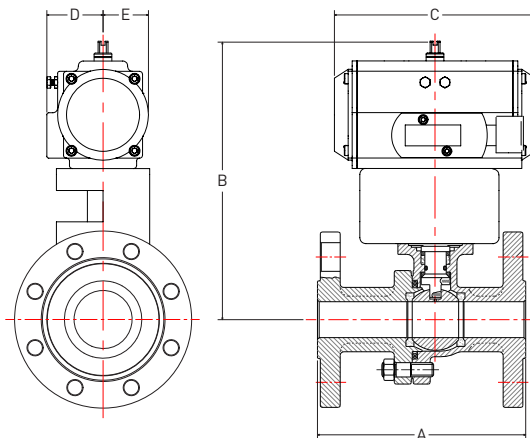
Two-Piece Full Port Ball Valve with Double Acting Pneumatic Actuator

Two-Piece Body ASME/ANSI Class 150 Flanged Ball Valve

- 285 PSI Close off Pressure (WCB Carbon Steel)
- 275 PSI Close Off Pressure (Stainless Steel)
- Temperature Rating up to 600°F
- Anti-Static Blow Out Proof Stem
- Replaceable Seats and V-Cup Packing
- TFM, RPTFE, PEEK, and ALTA Seat Options

Double Acting High-Pressure Pneumatic Actuator

- Die Cast Aluminum Alloy Body
- Torque Range: 124 in-lb to 40,519 in-lb
- 60 -110 PSI Air Supply Required
- Standard NAMUR mounts
- Refer to Section V for detailed actuator information



Refer to Section VI For Accessories

For Two-Position Control Refer to:

- Solenoid Control Valve
- Limit Switch Box

For Modulating Control Refer to:

- Pneumatic Positioner
- Electro-Pneumatic Positioner
- Dome Indicator Positioner

SIZE IN	VALVE MODEL	ACTUATOR MODEL	A	B	C	D	E	WEIGHT (LB)
1/2	.50"S7215-XX	C-DA083	4.25	7.43	8.03	2.24	1.81	11
3/4	.75"S7215-XX	C-DA083	4.61	7.57	8.03	2.24	1.81	12
1	1"S7215-XX	C-DA083	5.00	7.84	8.03	2.24	1.81	14
1 1/4	1.25"S7215-XX	C-DA083	5.51	8.07	8.03	2.24	1.81	16
1 1/2	1.5"S7215-XX	C-DA083	6.50	9.31	8.03	2.24	1.81	21
2	2"S7215-XX	C-DA083	7.01	9.98	8.03	2.24	1.81	32
2 1/2	2.5"S7215-XX	C-DA092	7.48	13.65	10.31	2.30	1.97	45
3	3"S7215-XX	C-DA125	7.99	14.04	11.85	2.93	2.66	64
4	4"S7215-XX	C-DA160	9.02	16.28	18.03	3.43	3.43	106
6	6"S7215-XX	C-DA160	15.51	18.71	18.03	3.43	3.43	209
8	8"S7215-XX	C-DA160	17.99	20.26	18.03	3.43	3.43	316
10	10"S7215-XX	C-DA190	20.98	24.12	20.67	4.06	4.06	607
12	12"S7215-XX	C-DA190	24.02	25.70	20.67	4.06	4.06	724





Series 7215 • C-SR

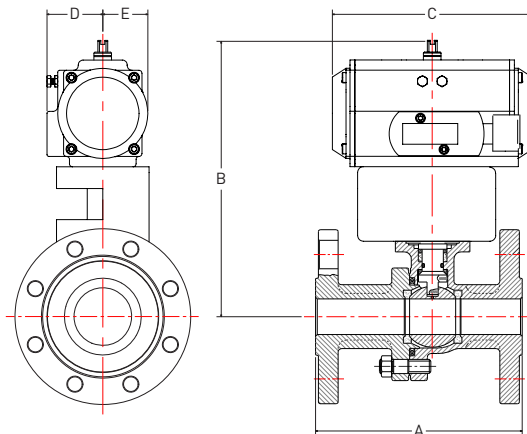
Two-Piece Full Port Ball Valve with Spring Return Pneumatic Actuator

Two-Piece Body ASME/ANSI Class 150 Flanged Ball Valve

- 285 PSI Close off Pressure (WCB Carbon Steel)
- 275 PSI Close Off Pressure (Stainless Steel)
- Temperature Rating up to 600°F
- Anti-Static Blow Out Proof Stem
- Replaceable Seats and V-Cup Packing
- TFM, RPTFE, PEEK, and ALTA Seat Options

Spring Return High-Pressure Pneumatic Actuator

- Die Cast Aluminum Alloy Body
- Torque Range: 124 in-lb to 15,500 in-lb
- 60 -110 PSI Air Supply Required
- Standard NAMUR mounts
- Refer to Section V for detailed actuator information



Refer to Section VI For Accessories

For Two-Position Control Refer to:

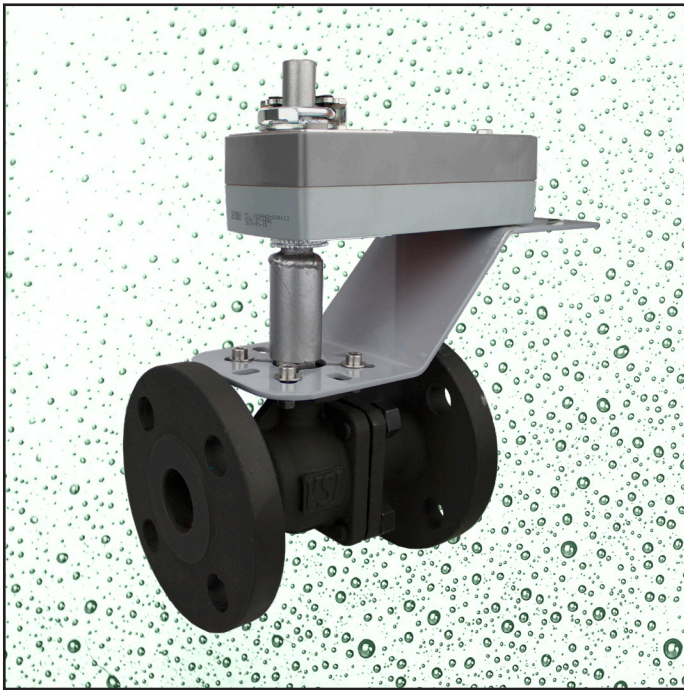
- Solenoid Control Valve
- Limit Switch Box

For Modulating Control Refer to:

- Pneumatic Positioner
- Electro-Pneumatic Positioner
- Dome Indicator Positioner

SIZE IN	VALVE MODEL	ACTUATOR MODEL	A	B	C	D	E	WEIGHT (LB)
1/2	.50"S7215-XX	C-SR083	4.25	7.43	8.03	2.24	1.81	12
3/4	.75"S7215-XX	C-SR083	4.61	7.57	8.03	2.24	1.81	13
1	1"S7215-XX	C-SR083	5.00	7.84	8.03	2.24	1.81	15
1 1/4	1.25"S7215-XX	C-SR092	5.51	8.37	10.31	2.30	1.97	20
1 1/2	1.5"S7215-XX	C-SR105	6.50	10.26	10.55	2.52	2.26	29
2	2"S7215-XX	C-SR105	7.01	10.63	10.55	2.52	2.26	36
2 1/2	2.5"S7215-XX	C-SR125	7.48	13.65	11.85	2.93	2.66	57
3	3"S7215-XX	C-SR140	7.99	14.71	15.35	3.03	2.95	79
4	4"S7215-XX	C-SR160	9.02	16.28	18.03	3.43	3.43	116
6	6"S7215-XX	C-SR210	15.51	21.39	20.94	4.45	4.45	269
8	8"S7215-XX	C-SR240	17.99	22.94	23.70	5.12	5.12	418
10	10"S7215-XX	C-SR240	20.98	26.44	23.70	5.12	5.12	683
12	12"S7215-XX	C-SR270	24.02	29.48	28.43	5.79	5.79	883





Series 7215 • Damper

Two-Piece Full Port Ball Valve with Damper Actuator

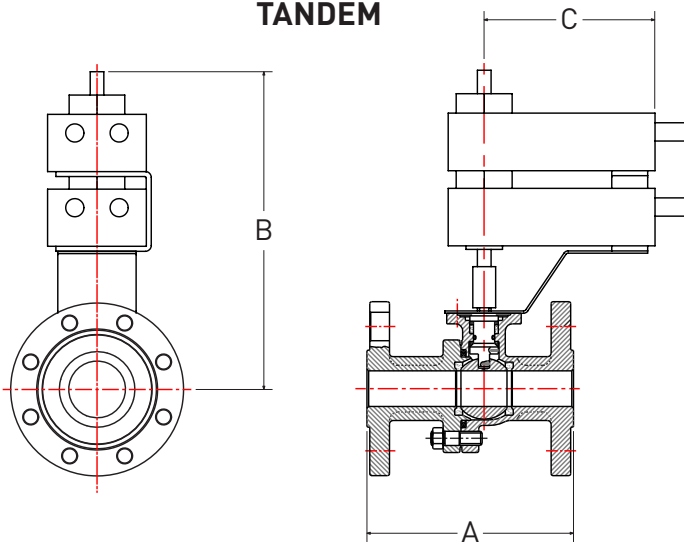
Two-Piece Body ASME/ANSI Class 150 Flanged Ball Valve

- 285 PSI Close off Pressure (WCB Carbon Steel)
- 275 PSI Close Off Pressure (Stainless Steel)
- Temperature Rating up to 600°F
- Anti-Static Blow Out Proof Stem
- Replaceable Seats and V-Cup Packing
- TFM, RPTFE, PEEK, and ALTA Seat Options

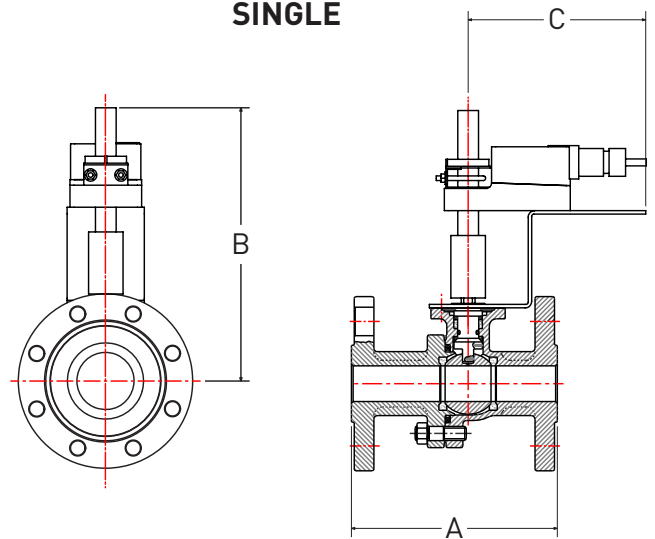
Two-Position/Modulating Damper Actuator

- Spring and Non-Spring Return Option
- Two-Position or Modulating Control
- Wide range of HVAC damper actuators
- Flexible Mounting including Tandem style if necessary
- Contact VSI for Damper Actuator Assemblies

TANDEM

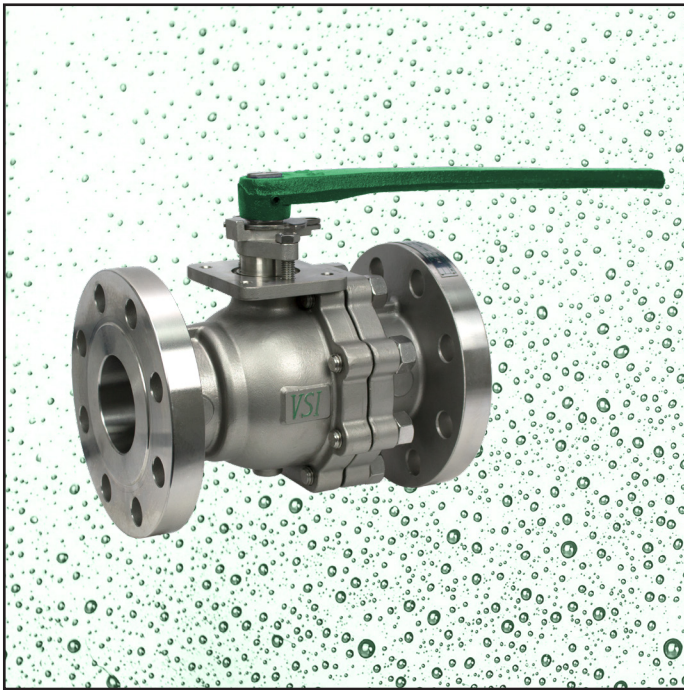


SINGLE



SIZE IN	VALVE MODEL	NON-SPRING RETURN			WEIGHT (LB)	SPRING RETURN			WEIGHT (LB)
		A	B	C		A	B	C	
1/2	.50"S7215-XX	4.25	8.36	7.50	13	4.25	9.36	7.50	15
3/4	.75"S7215-XX	4.61	8.50	7.50	14	4.61	9.50	7.50	16
1	1"S7215-XX	5.00	8.77	7.50	16	5.00	10.77	9.35	18
1 1/4	1.25"S7215-XX	5.51	8.98	7.50	19	5.51	10.98	9.35	22
1 1/2	1.5"S7215-XX	6.50	10.74	9.00	22	6.50	11.24	9.35	24
2	2"S7215-XX	7.01	11.11	9.00	35	7.01	11.61	9.35	38



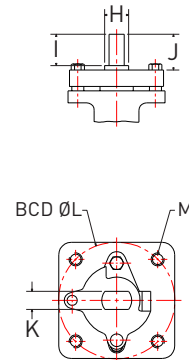
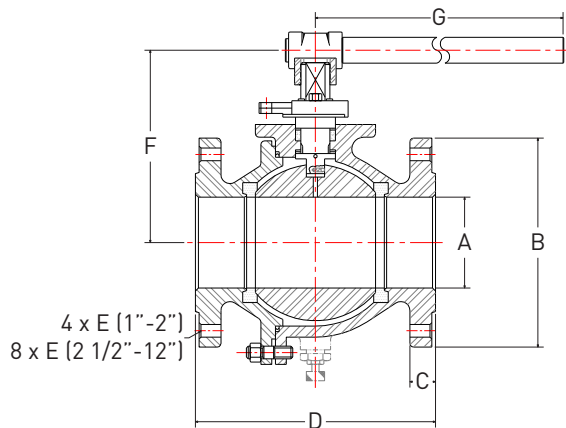


Series 7230

Two-Piece Full Port 300 Flanged Ball Valve

Two-Piece Body ASME/ANSI Class 300 Flanged Ball Valve

- 740 PSI Close off Pressure @100°F(WCB Carbon Steel)
- 720 PSI Close Off Pressure @100°F(Stainless Steel)
- Temperature Rating up to 600°F
- ISO 5211 standard mounting plate for direct mounting
- Anti-Static Blow Out Proof Stem
- Replaceable Seats and V-Cup Packing
- TFM, RPTFE, PEEK, and ALTA Seat Options
- Bi-Directional Service



SIZE IN	VALVE MODEL	A	B	C	D	E	F	G	H	I	J	K	L	M	WEIGHT (LB)
1/2	.50"S7230-XX	0.59	3.74	0.56	5.51	0.63	2.60	6.50	0.37	0.31	0.55	0.25	1.65	M5X0.8	5
3/4	.75"S7230-XX	0.79	4.61	0.63	5.98	0.75	2.91	6.50	0.37	0.31	0.55	0.25	1.65	M5X0.8	7
1	1"S72730-XX	0.98	4.88	0.69	6.50	0.75	3.43	7.87	0.43	0.43	0.75	0.31	1.97	M6X1.0	10
1 1/4	1.25"S7230-XX	1.26	5.24	0.75	7.01	0.75	3.62	7.87	0.43	0.43	0.75	0.31	1.97	M6X1.0	13
1 1/2	1.5"S7230-XX	1.50	6.14	0.81	7.48	0.87	4.13	9.84	0.62	0.65	0.91	0.37	2.76	M8X1.25	19
2	2"S7230-XX	1.97	6.50	0.88	8.50	0.75	4.53	10.43	0.62	0.65	0.91	0.37	2.76	M8X1.25	25
2 1/2	2.5"S7230-XX	2.56	7.48	1.00	9.49	0.87	6.22	15.35	1.10	1.75	3.07	0.67	4.02	M10X1.5	41
3	3"S7230-XX	3.15	8.27	1.13	11.14	0.87	6.54	15.35	1.10	1.75	3.07	0.67	4.02	M10X1.5	59
4	4"S7230-XX	3.94	10.00	1.25	12.01	0.87	7.20	15.35	1.10	1.75	3.07	0.67	4.02	M10X1.5	91
6	6"S7230-XX	5.91	12.52	1.44	15.87	0.87	11.22	25.59	1.71	1.65	3.58	1.20	4.92	M12X1.75	241
8	8"S7230-XX	7.87	15.00	1.63	19.76	0.98	12.72	37.40	1.71	1.65	3.58	1.20	4.92	M12X1.75	380
10	10"S7230-XX	9.84	17.48	1.88	22.36	1.14	14.49	43.31	2.17	2.13	3.86	1.38	5.51	M16X2.0	703
12	12"S7230-XX	11.81	20.51	2.00	25.51	1.26	16.06	43.31	2.17	2.13	3.86	1.38	5.51	M16X2.0	860

VSI

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Series 7230 • 1000-X

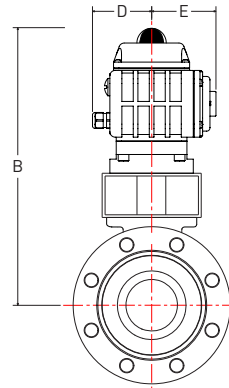
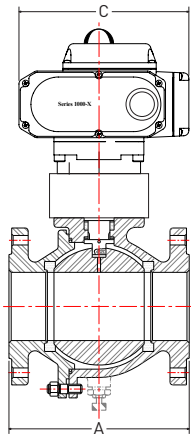
Two-Piece Full Port 300 Flanged Ball Valve with Two-Position Electric Actuator

Two-Piece Body ASME/ANSI Class 300 Flanged Ball Valve

- 740 PSI Close off Pressure @100°F(WCB Carbon Steel)
- 720 PSI Close Off Pressure @100°F(Stainless Steel)
- Temperature Rating up to 600°F
- Anti-Static Blow Out Proof Stem
- Replaceable Seats and V-Cup Packing
- TFM, RPTFE, PEEK, and ALTA Seat Options

Two-Position Electric Actuator

- 110VDC, 24 VDC, 220VAC, and 24VAC Electric Actuator
- Certifications: CE, NRTL, CSA
- NEMA 4 / 4X watertight, Aluminum Housing
- Torque Output Range: 443 in-lb to 22,127 in-lb
- Handwheel available on 1010-X and higher
- Refer to Section V for detailed actuator information



SIZE IN	VALVE MODEL	ACTUATOR MODEL	A	B	C	D	E	WEIGHT (LB)
1/2	.50"S7230-XX	1005-X	5.51	8.68	6.32	2.87	2.48	11
3/4	.75"S7230-XX	1005-X	5.98	8.82	6.32	2.87	2.48	13
1	1"S72730-XX	1005-X	6.50	9.09	6.32	2.87	2.48	16
1 1/4	1.25"S7230-XX	1005-X	7.01	9.32	6.32	2.87	2.48	19
1 1/2	1.5"S7230-XX	1010-X	7.48	11.37	7.13	2.91	2.80	29
2	2"S7230-XX	1010-X	8.50	11.74	7.13	2.91	2.80	35
2 1/2	2.5"S7230-XX	1020-X	9.49	15.34	8.58	3.43	3.74	61
3	3"S7230-XX	1020-X	11.14	15.73	8.58	3.43	3.74	79
4	4"S7230-XX	1020-X	12.01	16.32	8.58	3.43	3.74	111
6	6"S7230-XX	1060-X	15.87	18.75	8.58	3.43	3.74	262
8	8"S7230-XX	1100-X	19.76	22.25	9.61	4.37	5.12	421
10	10"S7230-XX	1160-X	22.36	23.30	9.61	4.37	5.12	744
12	12"S7230-XX	1160-X	25.51	24.87	9.61	4.37	5.12	901





Series 7230 • 1000/S-X

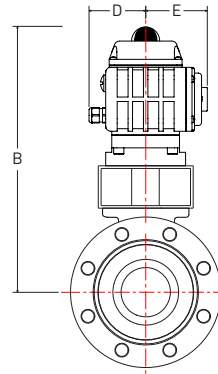
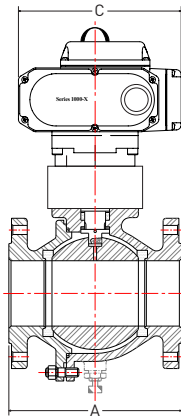
Two-Piece Full Port Class 300 Flanged Ball Valve with Modulating Electric Actuator

Two-Piece Body ASME/ANSI Class 300 Flanged Ball Valve

- 740 PSI Close off Pressure @100°F(WCB Carbon Steel)
- 720 PSI Close Off Pressure @100°F(Stainless Steel)
- Temperature Rating up to 600°F
- Anti-Static Blow Out Proof Stem
- Replaceable Seats and V-Cup Packing
- TFM, RPTFE, PEEK, and ALTA Seat Options

Modulating Control Electric Actuator

- 110VDC, 24 VDC, 220VAC, and 24VAC Electric Actuator
- Certifications: CE, NRTL, CSA
- NEMA 4 / 4X watertight, Aluminum Housing
- Control Signal: 2-10 VDC or 4-20 mA
- Torque Output Range: 443 in-lb to 22,127 in-lb
- Handwheel available on 1010/S-X and higher
- Refer to Section V for detailed actuator information



SIZE IN	VALVE MODEL	ACTUATOR MODEL	A	B	C	D	E	WEIGHT (LB)
1/2	.50"S7230-XX	1005/S-X	5.51	8.68	6.32	2.87	2.48	11
3/4	.75"S7230-XX	1005/S-X	5.98	8.82	6.32	2.87	2.48	13
1	1"S72730-XX	1005/S-X	6.50	9.09	6.32	2.87	2.48	16
1 1/4	1.25"S7230-XX	1005/S-X	7.01	9.32	6.32	2.87	2.48	19
1 1/2	1.5"S7230-XX	1010/S-X	7.48	11.37	7.13	2.91	2.80	29
2	2"S7230-XX	1010/S-X	8.50	11.74	7.13	2.91	2.80	35
2 1/2	2.5"S7230-XX	1020/S-X	9.49	15.34	8.58	3.43	3.74	61
3	3"S7230-XX	1020/S-X	11.14	15.73	8.58	3.43	3.74	79
4	4"S7230-XX	1020/S-X	12.01	16.32	8.58	3.43	3.74	111
6	6"S7230-XX	1060/S-X	15.87	18.75	8.58	3.43	3.74	262
8	8"S7230-XX	1100/S-X	19.76	22.25	9.61	4.37	5.12	421
10	10"S7230-XX	1160/S-X	22.36	23.30	9.61	4.37	5.12	744
12	12"S7230-XX	1160/S-X	25.51	24.87	9.61	4.37	5.12	901





Series 7230 • C-DA

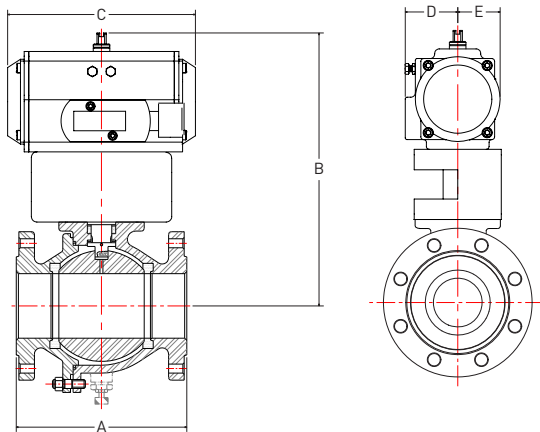
Two-Piece Full Port Class 300 Flanged Ball Valve with Double Acting Pneumatic Actuator

Two-Piece Body ASME/ANSI Class 300 Flanged Ball Valve

- 740 PSI Close off Pressure @100°F(WCB Carbon Steel)
- 720 PSI Close Off Pressure @100°F(Stainless Steel)
- Temperature Rating up to 600°F
- Anti-Static Blow Out Proof Stem
- Replaceable Seats and V-Cup Packing
- TFM, RPTFE, PEEK, and ALTA Seat Options

Double Acting High-Pressure Pneumatic Actuator

- Die Cast Aluminum Alloy Body
- Torque Range: 124 in-lb to 40,519 in-lb
- 60 -110 PSI Air Supply Required
- Standard NAMUR mounts
- Refer to Section V for detailed actuator information



Refer to Section VI For Accessories

For Two-Position Control Refer to:

- Solenoid Control Valve
- Limit Switch Box

For Modulating Control Refer to:

- Pneumatic Positioner
- Electro-Pneumatic Positioner
- Dome Indicator Positioner

SIZE IN	VALVE MODEL	ACTUATOR MODEL	A	B	C	D	E	WEIGHT (LB)
1/2	.50"S7230-XX	C-DA063	5.51	6.59	6.61	1.85	1.42	7
3/4	.75"S7230-XX	C-DA063	5.98	6.73	6.61	1.85	1.42	12
1	1"S72730-XX	C-DA063	6.50	7.00	6.61	1.85	1.42	15
1 1/4	1.25"S7230-XX	C-DA063	7.01	7.23	6.61	1.85	1.42	18
1 1/2	1.5"S7230-XX	C-DA083	7.48	9.31	8.03	2.24	1.81	26
2	2"S7230-XX	C-DA083	8.50	9.68	8.03	2.24	1.81	32
2 1/2	2.5"S7230-XX	C-DA092	9.49	12.13	10.31	2.30	1.97	43
3	3"S7230-XX	C-DA105	11.14	13.17	10.55	2.52	2.26	72
4	4"S7230-XX	C-DA105	12.01	13.76	10.55	2.52	2.26	104
6	6"S7230-XX	C-DA140	15.87	17.73	15.35	3.03	2.95	270
8	8"S7230-XX	C-DA160	19.76	21.18	18.03	3.43	3.43	421
10	10"S7230-XX	C-DA190	22.36	23.93	20.67	4.06	4.06	770
12	12"S7230-XX	C-DA190	25.51	25.50	20.67	4.06	4.06	927





Series 7230 • C-SR

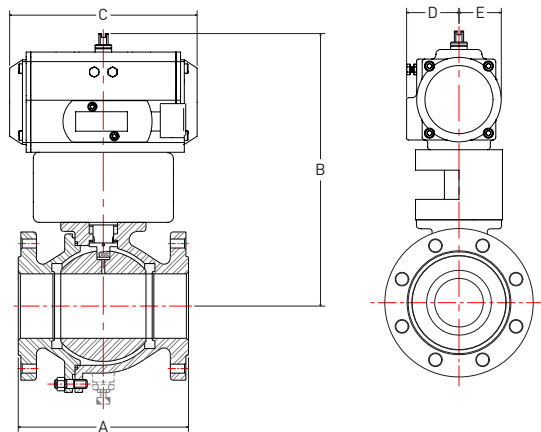
Two-Piece Full Port Class 300 Flanged Ball Valve with Spring Return Pneumatic Actuator

Two-Piece Body ASME/ANSI Class 300 Flanged Ball Valve

- 740 PSI Close off Pressure @100°F(WCB Carbon Steel)
- 720 PSI Close Off Pressure @100°F(Stainless Steel)
- Temperature Rating up to 600°F
- Anti-Static Blow Out Proof Stem
- Replaceable Seats and V-Cup Packing
- TFM, RPTFE, PEEK, and ALTA Seat Options

Spring Return High-Pressure Pneumatic Actuator

- Die Cast Aluminum Alloy Body
- Torque Range: 124 in-lb to 15,500 in-lb
- 60 -110 PSI Air Supply Required
- Standard NAMUR mounts
- Refer to Section V for detailed actuator information



Refer to Section VI For Accessories

For Two-Position Control Refer to:

- Solenoid Control Valve
- Limit Switch Box

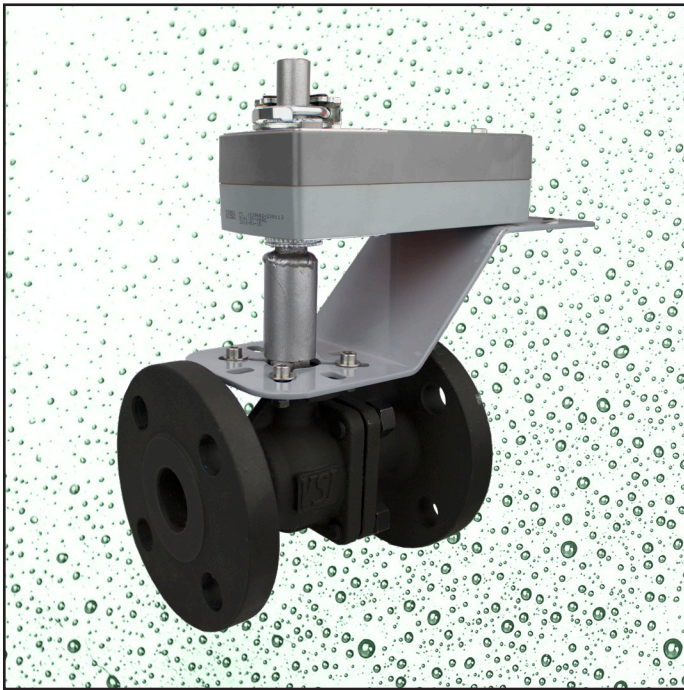
For Modulating Control Refer to:

- Pneumatic Positioner
- Electro-Pneumatic Positioner
- Dome Indicator Positioner

SIZE IN	VALVE MODEL	ACTUATOR MODEL	A	B	C	D	E	WEIGHT (LB)
1/2	.50"S7230-XX	C-SR083	5.51	7.43	8.03	1.85	1.42	13
3/4	.75"S7230-XX	C-SR083	5.98	7.57	8.03	1.85	1.42	15
1	1"S72730-XX	C-SR083	6.50	7.84	8.03	1.85	1.42	18
1 1/4	1.25"S7230-XX	C-SR083	7.01	8.07	8.03	1.85	1.42	21
1 1/2	1.5"S7230-XX	C-SR105	7.48	10.26	10.55	2.24	1.81	34
2	2"S7230-XX	C-SR105	8.50	10.63	10.55	2.24	1.81	40
2 1/2	2.5"S7230-XX	C-SR125	9.49	13.65	11.85	2.93	2.66	63
3	3"S7230-XX	C-SR140	11.14	14.71	15.35	3.03	2.95	93
4	4"S7230-XX	C-SR140	12.01	15.30	15.35	3.03	2.95	125
6	6"S7230-XX	C-SR190	15.87	20.41	20.67	4.06	4.06	320
8	8"S7230-XX	C-SR210	19.76	23.86	20.94	4.45	4.45	481
10	10"S7230-XX	C-SR240	22.36	26.25	23.70	5.12	5.12	846
12	12"S7230-XX	C-SR270	25.51	29.28	28.43	5.79	5.79	1086

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Series 7230 • Damper

Two-Piece Full Port Class 300 Flanged Ball Valve with Damper Actuator

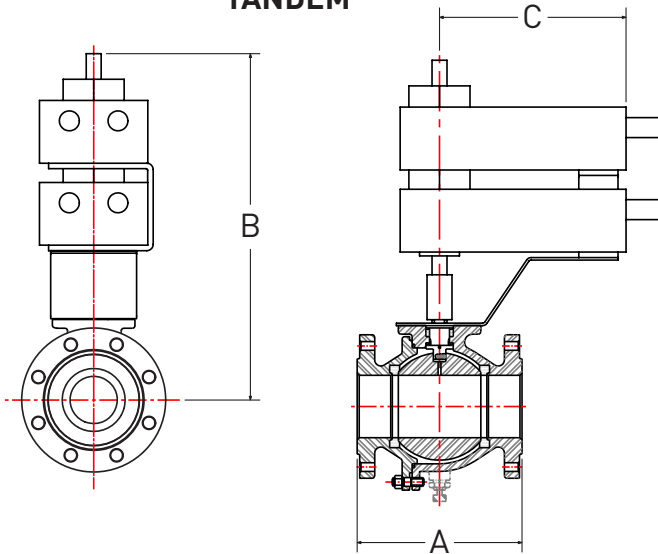
Two-Piece Body ASME/ANSI Class 300 Flanged Ball Valve

- 740 PSI Close off Pressure @100°F(WCB Carbon Steel)
- 720 PSI Close Off Pressure @100°F(Stainless Steel)
- Temperature Rating up to 600°F
- Anti-Static Blow Out Proof Stem
- Replaceable Seats and V-Cup Packing
- TFM, RPTFE, PEEK, and ALTA Seat Options

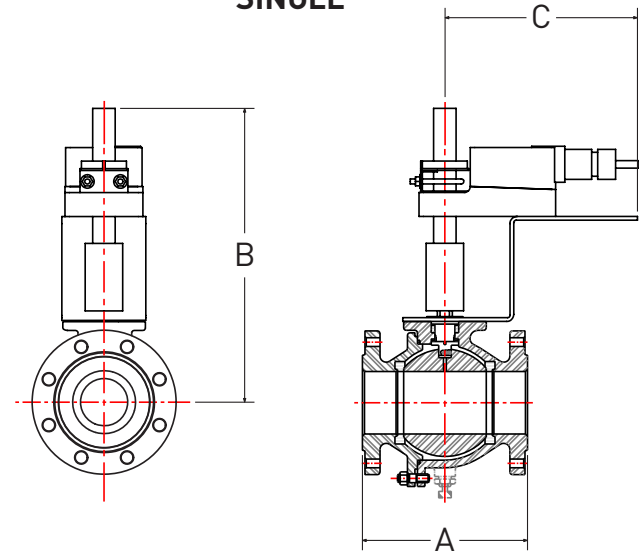
Two-Position/Modulating Damper Actuator

- Spring and Non-Spring Return Option
- Two-Position or Modulating Control
- Wide range of HVAC damper actuators
- Flexible Mounting including Tandem style if necessary
- Contact VSI for Damper Actuator Assemblies

TANDEM

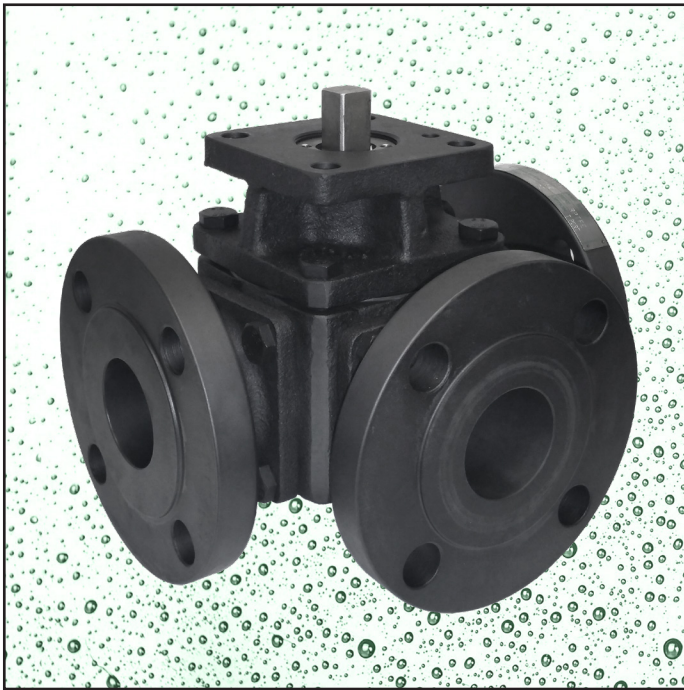


SINGLE



SIZE IN	VALVE MODEL	NON-SPRING RETURN			WEIGHT (LB)	SPRING RETURN			WEIGHT (LB)
		A	B	C		A	B	C	
1/2	.50"S7230-XX	5.51	8.36	7.50	15	5.51	9.36	7.50	16
3/4	.75"S7230-XX	5.98	8.50	7.50	17	5.98	9.50	7.50	18
1	1"S7230-XX	6.50	8.77	7.50	20	6.50	10.77	9.35	21
1 1/4	1.25"S7230-XX	7.01	8.98	7.50	23	7.01	10.98	9.35	24
1 1/2	1.5"S7230-XX	7.48	10.74	9.00	31	7.48	11.24	9.35	32
2	2"S7230-XX	8.50	11.11	9.00	39	8.50	11.61	9.35	42



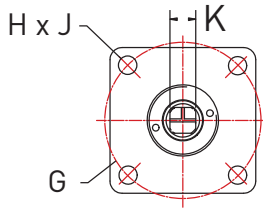


Series 7315

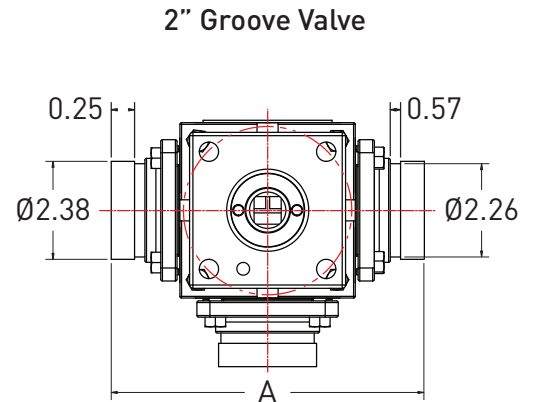
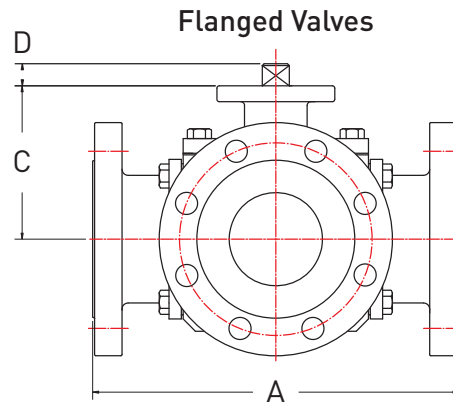
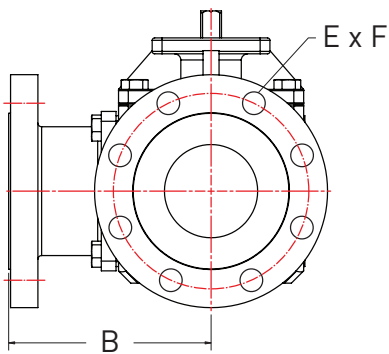
Three-Way Ball Valve

Three-Way ASME/ANSI Class 150 Flanged Ball Valve

- 275 PSI Close off Pressure (WCB Carbon Steel)
- 250 PSI Close Off Pressure (Stainless Steel)
- Temperature Rating up to 450°F
- Trunnion Stainless Steel ball
- Replaceable Seats and V-Cup Packing
- RPTFE Seat
- L-Port and T-Port options available
- 2" Valve available in a groove style



POSITION	A	B	C	D
L PORT				
T PORT				



SIZE IN	VALVE MODEL	A	B	C	D	E	F	G	H	J	K	WEIGHT (LB)
2(GR)	2"S73GR-XX	7.58	3.79	4.08	0.866	--	--	4.02	4	0.47	0.669	37
2(FL)	2"S7315F-XX	9.00	4.50	4.08	0.866	4	0.75	4.02	4	0.47	0.669	37
3	3"S7315F-XX	11.75	6.50	4.92	0.870	4	0.75	4.02	4	0.47	0.669	79
4	4"S7315S-XX	11.0	6.13	4.92	0.870	8	0.75	4.02	4	0.47	0.669	91

VSI

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Series 7315 • C-DA

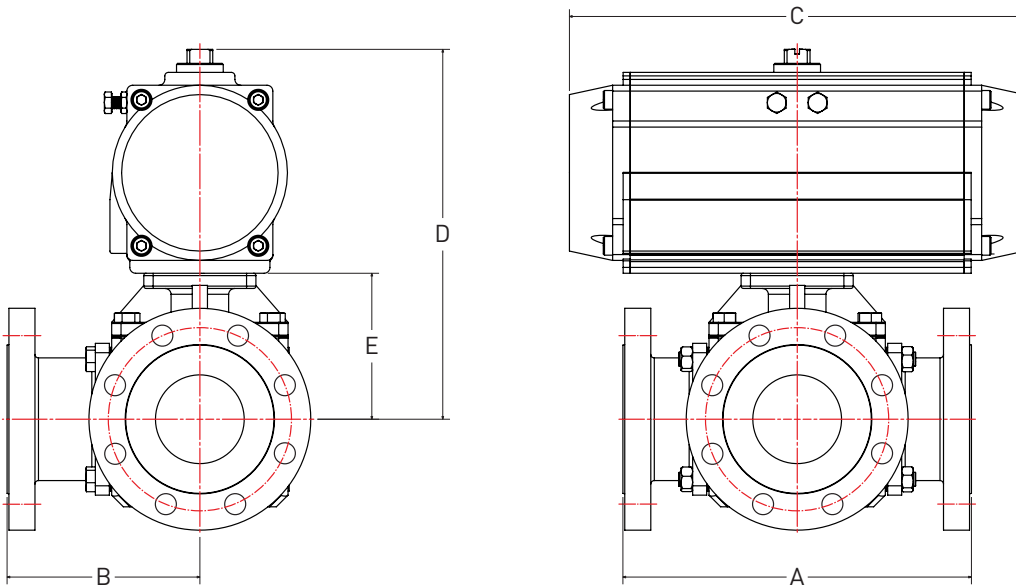
Three-Way Full Port Ball Valve with Double Acting Pneumatic Actuator

Three-Way ASME/ANSI Class 150 Flanged Ball Valve

- 275 PSI Close off Pressure (WCB Carbon Steel)
- 250 PSI Close Off Pressure (Stainless Steel)
- Temperature Rating up to 450°F
- Trunnion Stainless Steel ball
- Replaceable Seats and V-Cup Packing
- RPTFE Seat

Double Acting High-Pressure Pneumatic Actuator

- Die Cast Aluminum Alloy Body
- Torque Range: 124 in-lb to 40,519 in-lb
- 60 -110 PSI Air Supply Required
- Standard NAMUR mounts
- Refer to Section V for detailed actuator information



Refer to Section VI For Accessories

For Two-Position Control Refer to:
 -Solenoid Control Valve
 -Limit Switch Box

For Modulating Control Refer to:
 -Pneumatic Positioner
 -Electro-Pneumatic Positioner
 -Dome Indicator Positioner

SIZE IN	VALVE MODEL	ACTUATOR MODEL	A	B	C	D	E	F	WEIGHT (LB)
2(GR)	2"S73GR-XX	C-DA125	9.00	4.50	11.85	10.97	4.08	4.51	56
2(FL)	2"S7315F-XX	C-DA125	9.00	4.50	11.85	10.97	4.08	4.51	56
3	3"S7315F-XX	C-DA140	11.75	6.50	15.35	12.47	4.92	4.51	108
4	4"S7315S-XX	C-DA140	11.00	6.13	15.35	12.47	4.92	4.51	120

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Series 7315 • C-SR

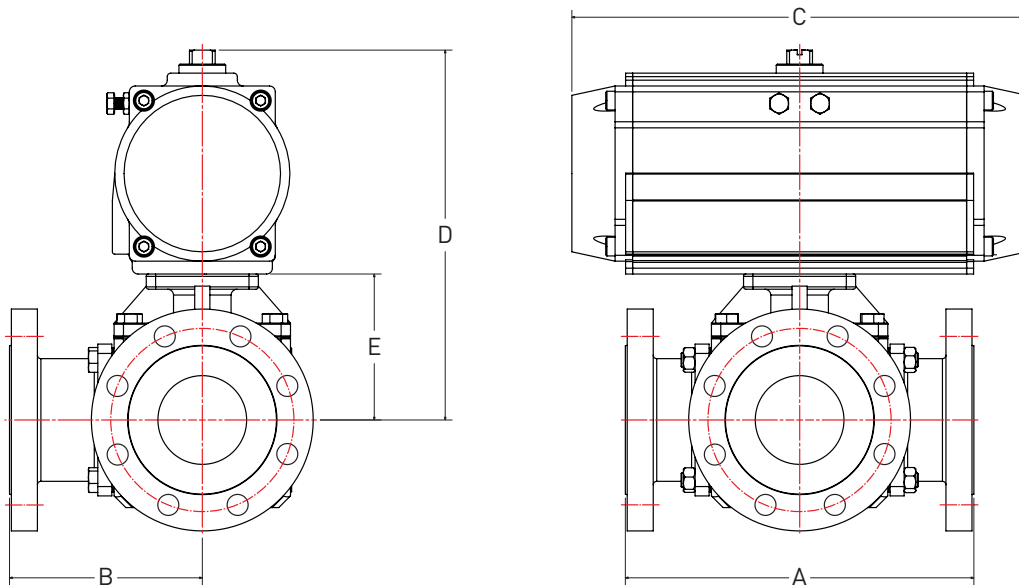
Three-Way Ball Valve with Spring Return Pneumatic Actuator

Three-Way ASME/ANSI Class 150 Flanged Ball Valve

- 275 PSI Close off Pressure (WCB Carbon Steel)
- 250 PSI Close Off Pressure (Stainless Steel)
- Temperature Rating up to 450°F
- Trunnion Stainless Steel ball
- Replaceable Seats and V-Cup Packing
- RPTFE Seat

Spring Return High-Pressure Pneumatic Actuator

- Die Cast Aluminum Alloy Body
- Torque Range: 124 in-lb to 15,500 in-lb
- 60 -110 PSI Air Supply Required
- Standard NAMUR mounts
- Refer to Section V for detailed actuator information



Refer to Section VI For Accessories

For Two-Position Control Refer to:
-Solenoid Control Valve
-Limit Switch Box

For Modulating Control Refer to:
-Pneumatic Positioner
-Electro-Pneumatic Positioner
-Dome Indicator Positioner

SIZE IN	VALVE MODEL	ACTUATOR MODEL	A	B	C	D	E	F	WEIGHT (LB)
2(GR)	2"S73GR-XX	C-SR125	9.00	4.50	11.85	10.97	4.08	4.51	59
2(FL)	2"S7315F-XX	C-SR125	9.00	4.50	11.85	10.97	4.08	4.51	59
3	3"S7315F-XX	C-SR140	11.75	6.50	15.35	12.47	4.92	4.51	113
4	4"S7315S-XX	C-SR140	11.00	6.13	15.35	12.47	4.92	4.51	125

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Series 7315 • EXCM03

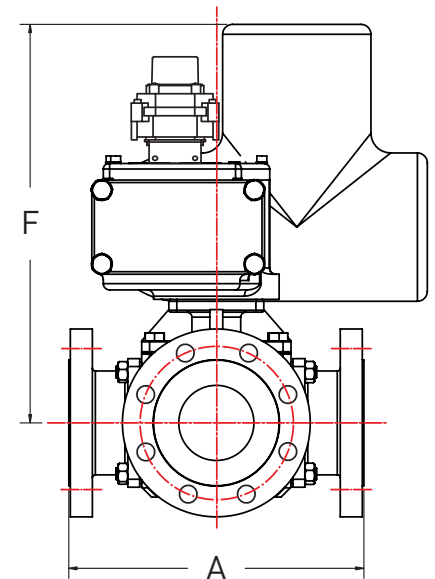
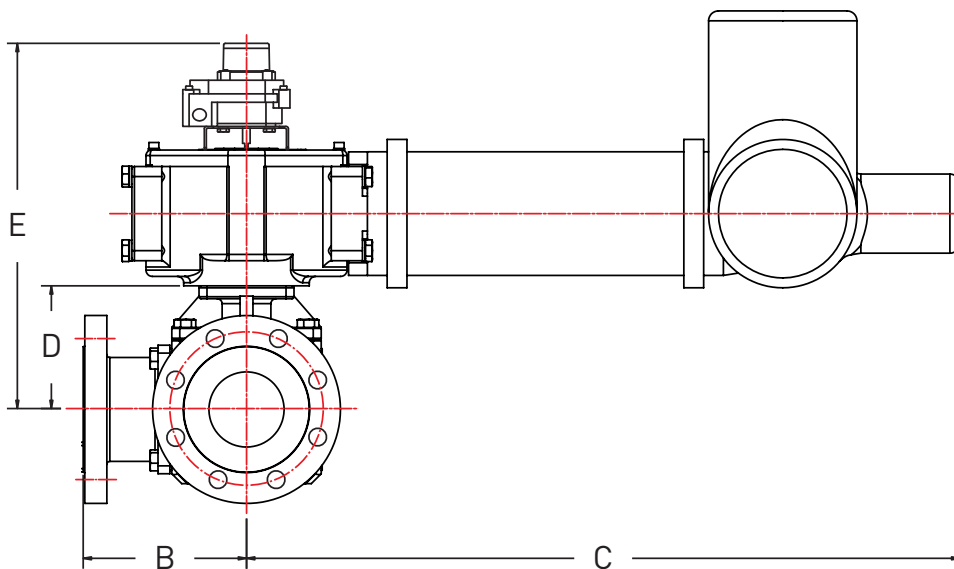
Three-Way Ball Valve with Electric Spring Return Actuator

Three-Way ASME/ANSI Class 150 Flanged Ball Valve

- 275 PSI Close off Pressure (WCB Carbon Steel)
- 250 PSI Close Off Pressure (Stainless Steel)
- Temperature Rating up to 450°F
- Trunnion Stainless Steel ball
- Replaceable Seats and V-Cup Packing
- RPTFE Seat

Electric Spring Return Actuator

- Explosion Proof EX II 2 G ExdellCT4 GB
- GBS7000 Rotary Gearbox combination
- Multi-Voltage input 90-240VAC +/-10%, 50/60 Hz
- Thermal Overload Motor Protection
- Operating Temperature: -40°F to 140°F



SIZE IN	VALVE MODEL	ACTUATOR MODEL	A	B	C	D	E	F	WEIGHT (LB)
2(GR)	2"S73GR-XX	EXCM03	9.00	4.50	28.30	7.80	11.00	12.50	159
2" (FL)	2"S7315F-XX	EXCM03	9.00	4.50	28.30	7.80	11.00	12.50	159
3	3"S7315F-XX	EXCM03	11.75	6.50	28.30	7.80	11.00	12.50	201
4	4"S7315S-XX	EXCM03	11.00	6.13	28.30	7.80	11.00	12.50	213



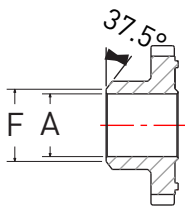


Series 7400

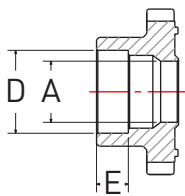
Three Piece Full Port Ball Valve

Three Piece ASME B16.34 Rated Ball Valve

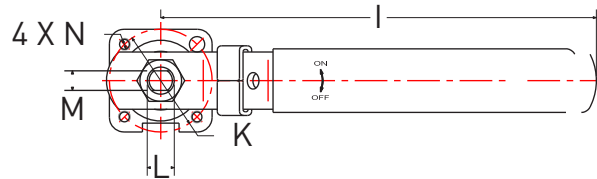
- Pressure Rating up to 2000 PSI (1/4" - 1")
- Pressure Rating up to 1500 PSI (1 1/4" - 2")
- Temperature Rating up to 600°F
- Carbon or Stainless Steel body
- ISO 5211 standard mounting plate for direct mounting
- Replaceable Seats
- TFM, RPTFE, PEEK, and ALTA Seat Options
- Bi-directional Service
- Fire Safe Option Available



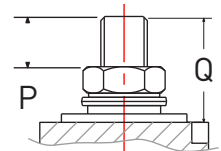
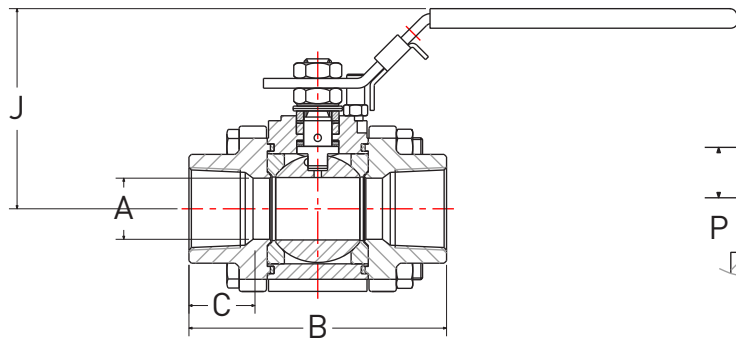
BUTT WELD END



SOCKET WELD END



THREADED END



SIZE IN	VALVE MODEL	A	B	C	D	E	F	I	J	K	L	M	N	P	Q	WEIGHT (LB)
1/4	.25"S7400-XX	0.39	2.55	0.63	0.56	0.39	0.39	5.23	2.45	1.42	0.37	0.26	M5X0.8	0.25	0.33	1.4
3/8	.375"S7400-XX	0.39	2.55	0.63	0.69	0.39	0.49	5.23	2.45	1.42	0.37	0.26	M5X0.8	0.25	0.33	1.4
1/2	.50"S7400-XX	0.59	2.85	0.66	0.85	0.39	0.59	5.23	2.72	1.42	0.37	0.26	M5X0.8	0.31	0.65	2.0
3/4	.75"S7400-XX	0.79	3.36	0.71	1.07	0.51	0.79	5.23	2.89	1.42	0.37	0.26	M5X0.8	0.35	0.70	3.0
1	1"S7400-XX	0.98	4.15	0.83	1.33	0.51	0.98	6.76	3.22	1.65	0.44	0.31	M5X0.8	0.47	1.00	4.5
1 1/4	1.25"S7400-XX	1.26	4.37	0.87	1.69	0.51	1.26	6.76	3.42	1.65	0.44	0.31	M5X0.8	0.46	1.33	6.1
1 1/2	1.5"S7400-XX	1.50	5.01	0.98	1.92	0.51	1.50	8.04	3.84	1.97	0.56	0.38	M6X1.0	0.59	1.69	9.0
2	2"S7400-XX	1.97	5.72	1.07	2.41	0.63	1.97	8.35	5.00	2.76	0.74	0.47	M8X1.25	0.61	1.97	15.6

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Series 7400 • 1000-X

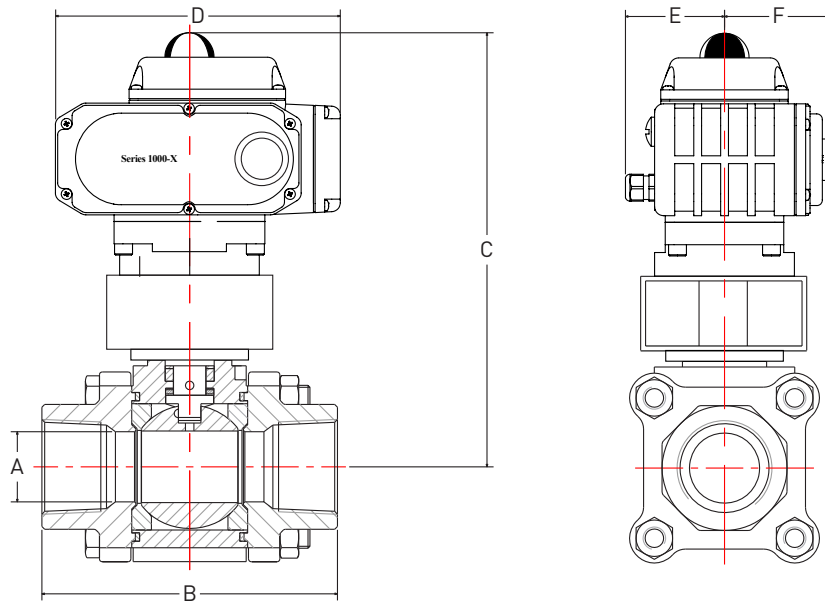
Three Piece Full Port Ball Valve with Two-Position Electric Actuator

Three Piece ASME B16.34 Rated Ball Valve

- Pressure Rating up to 2000 PSI (1/4" - 1")
- Pressure Rating up to 1500 PSI (1 1/4" - 2")
- Temperature Rating up to 600°F
- Carbon or Stainless Steel body
- TFM, RPTFE, PEEK, and ALTA Seat Options
- Bi-directional Service

Two-Position Electric Actuator

- 110VDC, 24 VDC, 220VAC, and 24VAC Electric Actuator
- Certifications: CE, NRTL, CSA
- NEMA 4 / 4X watertight, Aluminum Housing
- Torque Output Range: 443 in-lb to 22,127 in-lb
- Handwheel available on 1010-X and higher
- Refer to Section V for detailed actuator information



SIZE IN	VALVE MODEL	ACTUATOR MODEL	A	B	C	D	E	F	WEIGHT (LB)
1/4	.25"S7400-XX	1005-X	0.39	2.55	7.80	6.32	2.87	2.48	7
3/8	.375"S7400-XX	1005-X	0.39	2.55	7.80	6.32	2.87	2.48	8
1/2	.50"S7400-XX	1005-X	0.59	2.85	7.88	6.32	2.87	2.48	8
3/4	.75"S7400-XX	1005-X	0.79	3.36	7.95	6.32	2.87	2.48	9
1	1"S7400-XX	1005-X	0.98	4.15	8.83	6.32	2.87	2.48	11
1 1/4	1.25"S7400-XX	1005-X	1.26	4.37	9.02	6.32	2.87	2.48	12
1 1/2	1.5"S7400-XX	1010-X	1.50	5.01	9.86	7.13	2.91	2.80	19
2	2"S7400-XX	1010-X	1.97	5.72	11.03	7.13	2.91	2.80	25

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Series 7400 • 1000/S-X

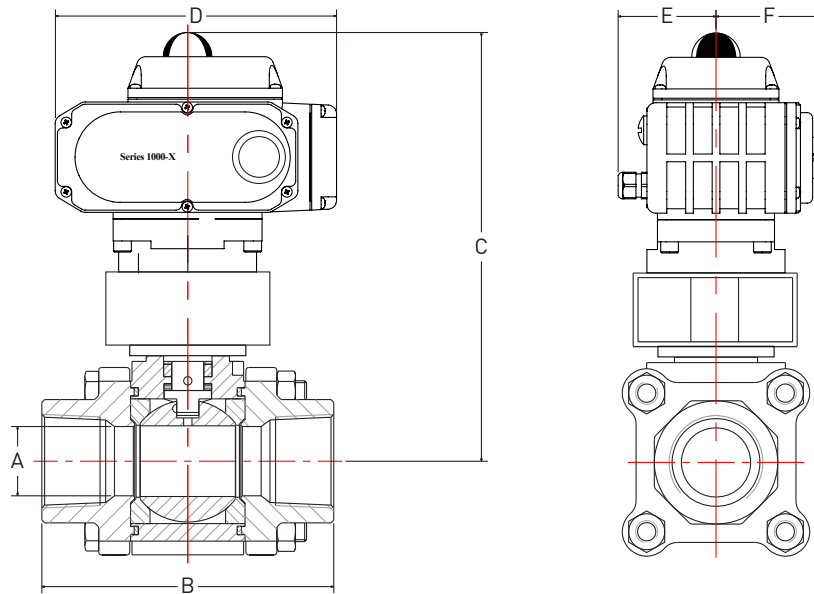
Three Piece Full Port Ball Valve with Modulating Electric Actuator

Three Piece ASME B16.34 Rated Ball Valve

- Pressure Rating up to 2000 PSI (1/4" - 1")
- Pressure Rating up to 1500 PSI (1 1/4" - 2")
- Temperature Rating up to 600°F
- Carbon or Stainless Steel body
- TFM, RPTFE, PEEK, and ALTA Seat Options
- V-Cup Packing, Bi-directional Service

Modulating Control Electric Actuator

- 110VDC, 24 VDC, 220VAC, and 24VAC Electric Actuator
- Certifications: CE, NRTL, CSA
- NEMA 4 / 4X watertight, Aluminum Housing
- Control Signal: 2-10 VDC or 4-20 mA
- Torque Output Range: 443 in-lb to 22,127 in-lb
- Handwheel available on 1010/S-X and higher
- Refer to Section V for detailed actuator information



SIZE IN	VALVE MODEL	ACTUATOR MODEL	A	B	C	D	E	F	WEIGHT (LB)
1/4	.25"S7400-XX	1005/S-X	0.39	2.55	7.80	6.32	2.87	2.48	8
3/8	.375"S7400-XX	1005/S-X	0.39	2.55	7.80	6.32	2.87	2.48	8
1/2	.50"S7400-XX	1005/S-X	0.59	2.85	7.88	6.32	2.87	2.48	9
3/4	.75"S7400-XX	1005/S-X	0.79	3.36	7.95	6.32	2.87	2.48	10
1	1"S7400-XX	1005/S-X	0.98	4.15	8.83	6.32	2.87	2.48	12
1 1/4	1.25"S7400-XX	1005/S-X	1.26	4.37	9.02	6.32	2.87	2.48	13
1 1/2	1.5"S7400-XX	1010/S-X	1.50	5.01	9.86	7.13	2.91	2.80	19
2	2"S7400-XX	1010/S-X	1.97	5.72	11.03	7.13	2.91	2.80	25

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Series 7400 • C-DA

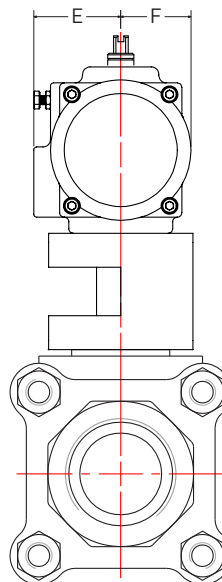
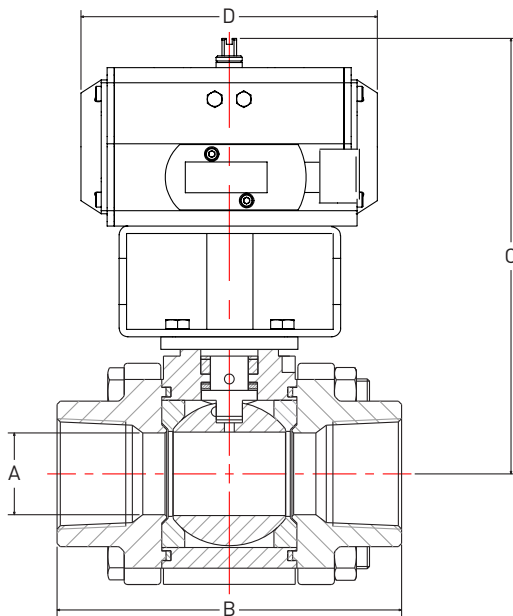
Three Piece Full Port Ball Valve with Double Acting Pneumatic Actuator

Three Piece ASME B16.34 Rated Ball Valve

- Pressure Rating up to 2000 PSI (1/4" - 1")
- Pressure Rating up to 1500 PSI (1 1/4" - 2")
- Temperature Rating up to 600°F
- Carbon or Stainless Steel body
- TFM, RPTFE, PEEK, and ALTA Seat Options
- V-Cup Packing, Bi-directional Service

Double Acting High-Pressure Pneumatic Actuator

- Die Cast Aluminum Alloy Body
- Torque Range: 124 in-lb to 40,519 in-lb
- 60 -110 PSI Air Supply Required
- Standard NAMUR mounts
- Refer to Section V for detailed actuator information



Refer to Section VI For Accessories

For Two-Position Control Refer to:
 -Solenoid Control Valve
 -Limit Switch Box

For Modulating Control Refer to:
 -Pneumatic Positioner
 -Electro-Pneumatic Positioner
 -Dome Indicator Positioner

SIZE IN	VALVE MODEL	ACTUATOR MODEL	A	B	C	D	E	F	WEIGHT (LB)
1/4	.25"S7400-XX	C-DA045	0.39	2.55	4.62	4.80	1.44	1.12	4
3/8	.375"S7400-XX	C-DA045	0.39	2.55	4.62	4.80	1.44	1.12	4
1/2	.50"S7400-XX	C-DA045	0.59	2.85	4.70	4.80	1.44	1.12	4
3/4	.75"S7400-XX	C-DA063	0.79	3.36	5.86	6.61	1.85	1.42	8
1	1"S7400-XX	C-DA063	0.98	4.15	6.74	6.61	1.85	1.42	10
1 1/4	1.25"S7400-XX	C-DA063	1.26	4.37	6.93	6.61	1.85	1.42	11
1 1/2	1.5"S7400-XX	C-DA083	1.50	5.01	7.80	8.03	2.24	1.81	16
2	2"S7400-XX	C-DA083	1.97	5.72	8.97	8.03	2.24	1.81	22

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Series 7400 • C-SR

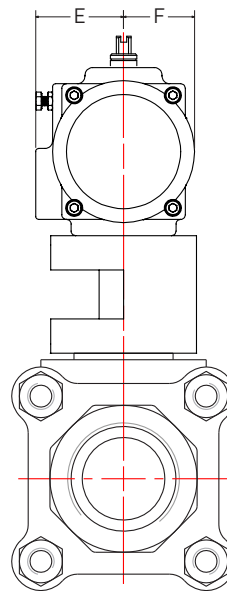
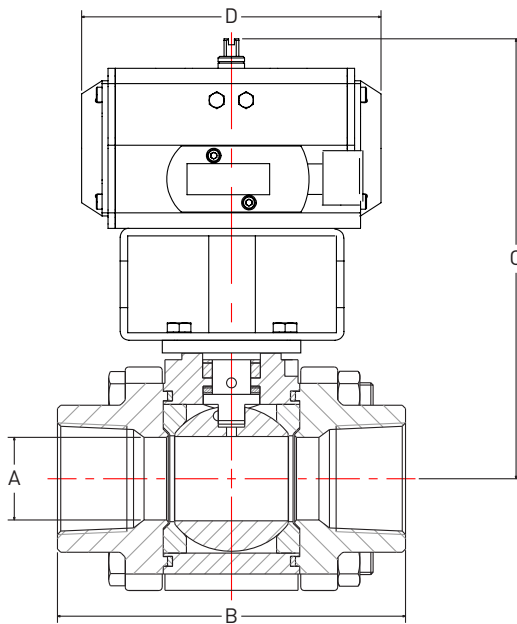
Three Piece Full Port Ball Valve with Spring Return Pneumatic Actuator

Three Piece ASME B16.34 Rated Ball Valve

- Pressure Rating up to 2000 PSI (1/4" - 1")
- Pressure Rating up to 1500 PSI (1 1/4" - 2")
- Temperature Rating up to 600°F
- Carbon or Stainless Steel body
- TFM, RPTFE, PEEK, and ALTA Seat Options
- Bi-directional Service

Spring Return High-Pressure Pneumatic Actuator

- Die Cast Aluminum Alloy Body
- Torque Range: 124 in-lb to 15,500 in-lb
- 60 -110 PSI Air Supply Required
- Standard NAMUR mounts
- Refer to Section V for detailed actuator information



Refer to Section VI For Accessories

For Two-Position Control Refer to:
-Solenoid Control Valve
-Limit Switch Box

For Modulating Control Refer to:
-Pneumatic Positioner
-Electro-Pneumatic Positioner
-Dome Indicator Positioner

SIZE IN	VALVE MODEL	ACTUATOR MODEL	A	B	C	D	E	F	WEIGHT (LB)
1/4	.25"S7400-XX	C-SR083	0.39	2.55	6.55	8.03	2.24	1.81	9
3/8	.375"S7400-XX	C-SR083	0.39	2.55	6.55	8.03	2.24	1.81	9
1/2	.50"S7400-XX	C-SR083	0.59	2.85	6.63	8.03	2.24	1.81	10
3/4	.75"S7400-XX	C-SR083	0.79	3.36	6.70	8.03	2.24	1.81	11
1	1"S7400-XX	C-SR083	0.98	4.15	7.58	8.03	2.24	1.81	13
1 1/4	1.25"S7400-XX	C-SR092	1.26	4.37	8.07	10.31	2.30	1.97	17
1 1/2	1.5"S7400-XX	C-SR105	1.50	5.01	8.75	10.55	2.52	2.26	24
2	2"S7400-XX	C-SR125	1.97	5.72	10.79	11.85	2.93	2.66	37

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Series 7400 • Damper

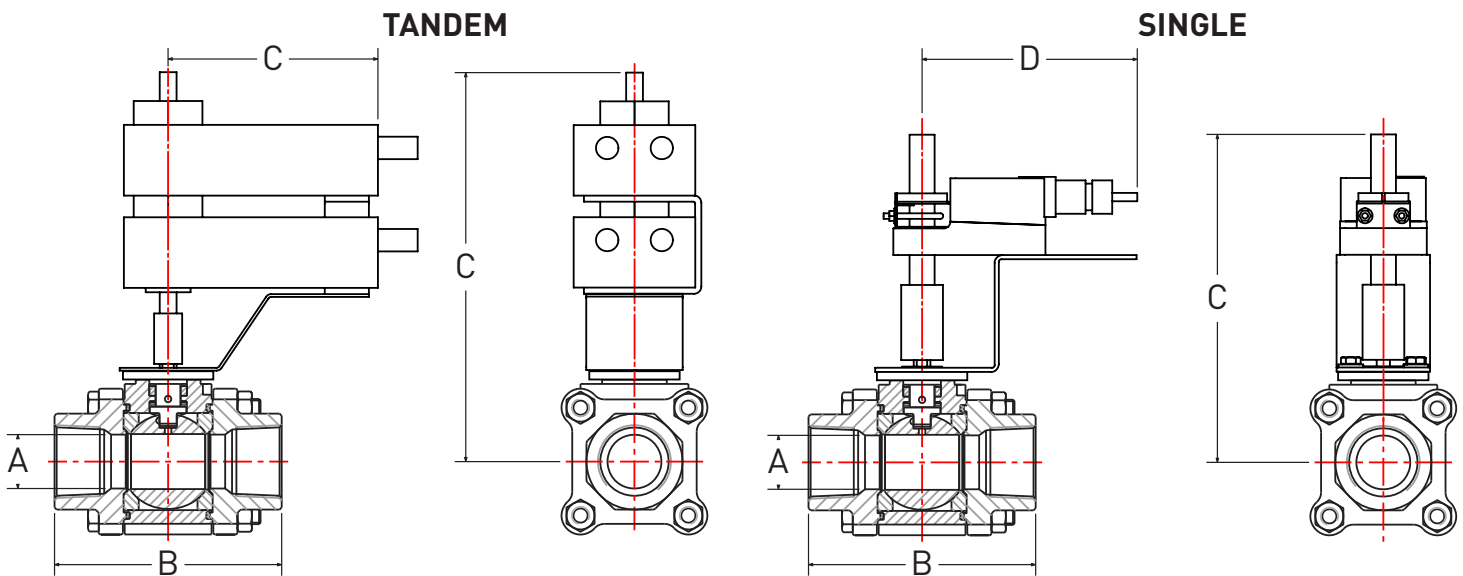
Three Piece Full Port Ball Valve with Damper Actuator

Three Piece ASME B16.34 Rated Ball Valve

- Pressure Rating up to 2000 PSI (1/4" - 1")
- Pressure Rating up to 1500 PSI (1 1/4" - 2")
- Temperature Rating up to 600°F
- Carbon or Stainless Steel body
- TFM, RPTFE, PEEK, and ALTA Seat Options
- Bi-directional Service

Two-Position/Modulating Damper Actuator

- Spring and Non-Spring Return Option
- Two-Position or Modulating Control
- Wide range of HVAC damper actuators
- Flexible Mounting including Tandem style if necessary
- Contact VSI for Damper Actuator Assemblies



SIZE IN	VALVE MODEL	NON-SPRING RETURN				WEIGHT (LB)	SRPING RETURN				WEIGHT (LB)
		A	B	C	D		A	B	C	D	
1/4	.25"S7400-XX	0.39	2.55	8.05	7.50	6	0.39	0.70	9.55	9.00	7
3/8	.375"S7400-XX	0.39	2.55	8.17	7.50	6	0.49	0.70	11.17	9.00	7
1/2	.50"S7400-XX	0.59	2.85	8.32	7.50	7	0.59	0.86	11.32	9.00	9
3/4	.75"S7400-XX	0.79	3.36	8.52	7.50	9	0.79	1.07	11.52	9.35	14
1	1"S7400-XX	0.98	4.15	10.23	9.00	15	0.98	1.33	11.73	9.35	17
1 1/4	1.25"S7400-XX	1.26	4.37	10.40	9.00	16	1.26	1.69	11.90	9.35	18
1 1/2	1.5"S7400-XX	1.50	5.01	10.67	9.00	19	1.50	1.92	12.17	9.35	21
2	2"S7400-XX	1.97	5.72	10.89	9.00	25	1.97	2.41	12.39	9.35	27

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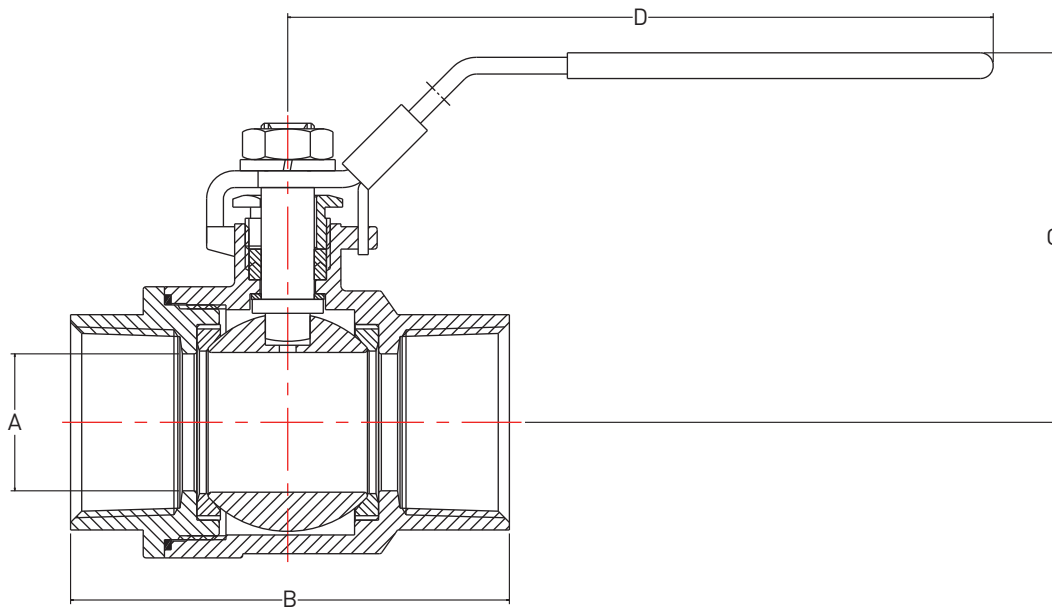


Series 8000

Two-Piece Manual Full Port Ball Valve

Two-Piece Ball Valve

- Pressure rating up to 1000 PSI
- Temperature Rating up to 450°F
- Stainless Steel body
- ANSI B 1.20.1 NPT Threads
- Blow-Out Proof Stem
- Adjustable Stem Packing
- Lock Handle



SIZE IN	VALVE MODEL	A	B	C	D	WEIGHT (LB)
1/4	.25" S8000-XX	0.39	1.93	1.71	3.23	0.35
3/8	.375" S8000-XX	0.49	1.93	1.71	3.23	0.35
1/2	.50" S8000-XX	0.63	2.31	1.89	3.23	0.53
3/4	.75" S8000-XX	0.79	2.70	2.25	4.02	0.84
1	1" S8000-XX	0.96	3.09	2.65	5.00	1.41
1 1/4	1.25" S8000-XX	1.26	3.67	2.90	5.00	2.16
1 1/2	1.5" S8000-XX	1.50	4.06	3.33	6.38	3.48
2	2" S8000-XX	1.97	4.84	3.64	6.38	5.86

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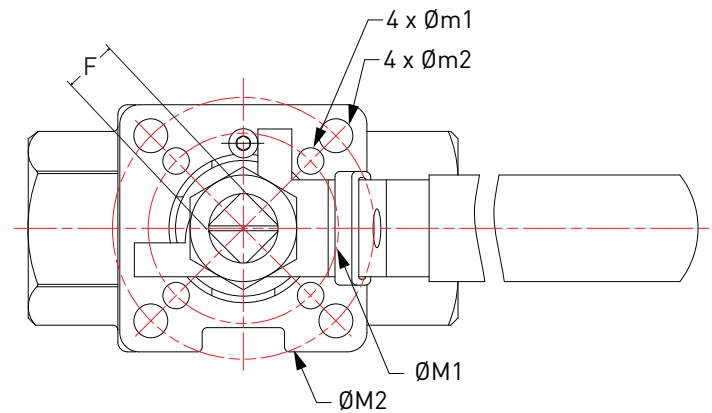
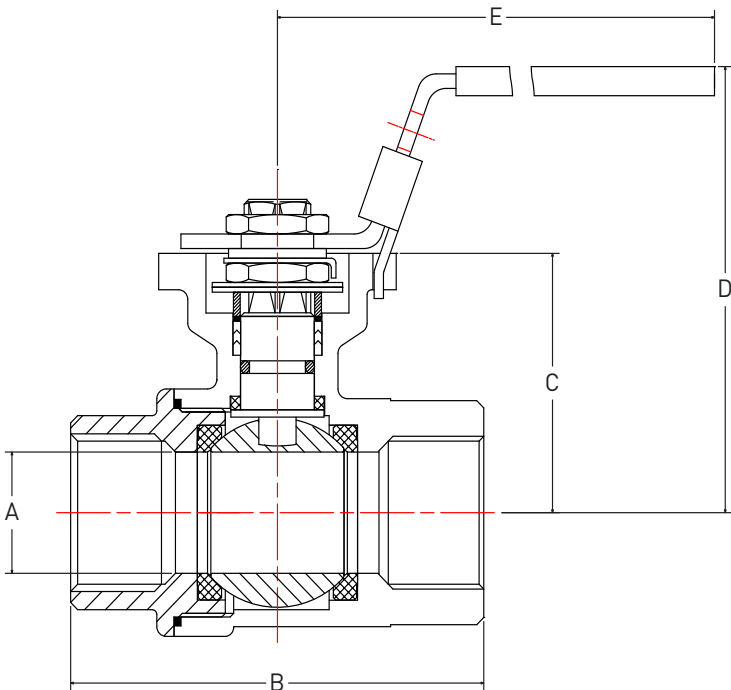


Series 8100

Two-Piece Full Port Ball Valve with Mounting Pad

Two-Piece Ball Valve

- Pressure rating up to 1000 PSI
- Temperature Rating up to 450°F
- Stainless Steel body
- ANSI B 1.20.1 NPT Threads
- Blow-Out Proof Stem
- Adjustable Stem Packing
- Lock Handle
- ISO 5211 mounting pad for direct mounting



SIZE IN	VALVE MODEL	A	B	C	D	E	F	M1	m1	M2	m2	WEIGHT (LB)
1/2	.50"S8100-XX	0.59	2.56	1.61	2.52	6.50	0.35	1.42	0.22	1.97	0.26	0.65
3/4	.75"S8100-XX	0.79	2.99	1.75	2.80	6.50	0.35	1.42	0.22	1.97	0.26	1.45
1	1"S8100-XX	0.98	3.46	2.23	3.11	4.87	0.45	1.97	0.26	2.76	0.35	2.36
1 1/4	1.25"S8100-XX	1.26	3.82	2.56	3.66	7.87	0.45	1.97	0.26	2.76	0.35	3.50
1 1/2	1.5"S8100-XX	1.50	4.33	3.00	3.94	9.84	0.55	1.97	0.26	2.76	0.35	4.85
2	2"S8100-XX	2.00	5.28	3.30	4.25	9.84	0.55	1.97	0.26	2.70	0.35	7.30

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Series 8100 • 1000-X

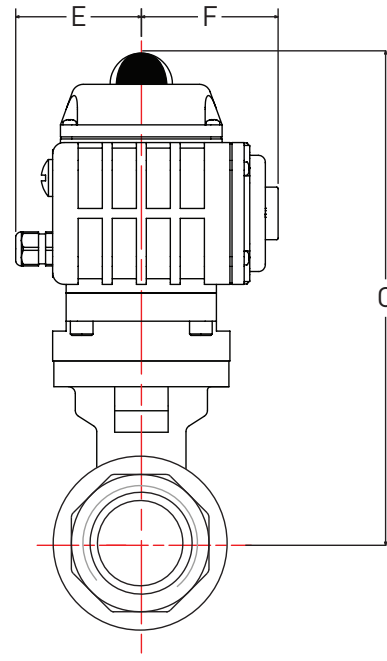
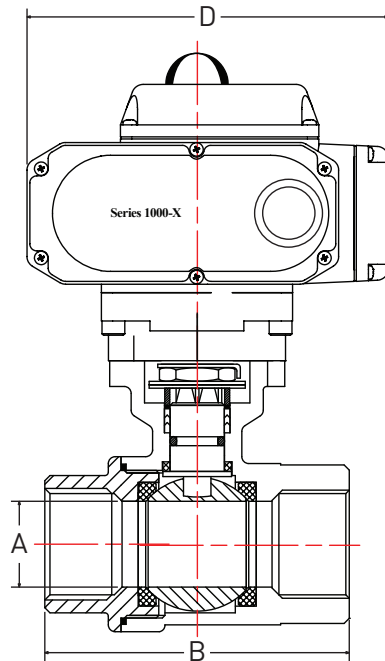
Two-Piece Full Port Ball Valve with Two-Position Electric Actuator

Two-Piece Ball Valve

- Pressure rating up to 1000 PSI
- Temperature Rating up to 450°F
- Stainless Steel body
- ANSI B 1.20.1 NPT Threads
- Adjustable Stem Packing

Two-Position Electric Actuator

- 110VDC, 24 VDC, 220VAC, and 24VAC Electric Actuator
- Certifications: CE, NRTL, CSA
- NEMA 4 / 4X watertight, Aluminum Housing
- Torque Output Range: 443 in-lb to 22,127 in-lb
- Handwheel available on 1010-X and higher
- Refer to Section V for detailed actuator information



SIZE IN	VALVE MODEL	ACTUATOR MODEL	A	B	C	D	E	F	WEIGHT (LB)
1/2	.50" S8100-XX	1005-X	0.59	2.56	7.70	6.32	2.87	2.48	7
3/4	.75" S8100-XX	1005-X	0.79	2.99	7.80	6.32	2.87	2.48	8
1	1" S8100-XX	1005-X	0.98	3.46	8.01	6.32	2.87	2.48	8
1 1/4	1.25" S8100-XX	1005-X	1.26	3.82	8.29	6.32	2.87	2.48	10
1 1/2	1.5" S8100-XX	1010-X	1.50	4.33	9.34	7.13	2.91	2.80	15
2	2" S8100-XX	1010-X	2.00	5.28	9.63	7.13	2.91	2.80	18

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Series 8100 • 1000/S-X

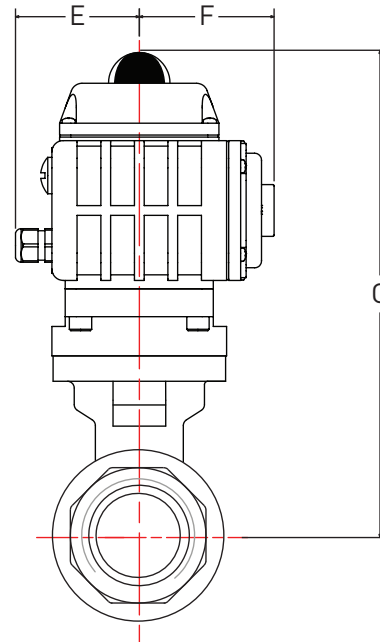
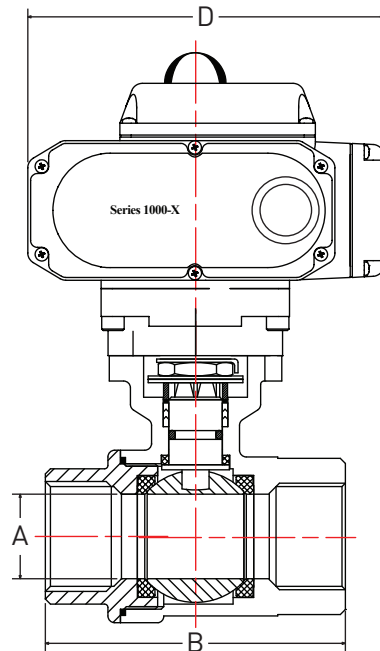
Two-Piece Full Port Ball Valve with Modulating Electric Actuator

Two-Piece Ball Valve

- Pressure rating up to 1000 PSI
- Temperature Rating up to 450°F
- Stainless Steel body
- ANSI B 1.20.1 NPT Threads
- Adjustable Stem Packing

Modulating Control Electric Actuator

- 110VDC, 24 VDC, 220VAC, and 24VAC Electric Actuator
- Certifications: CE, NRTL, CSA
- NEMA 4 / 4X watertight, Aluminum Housing
- Control Signal: 2-10 VDC or 4-20 mA
- Torque Output Range: 443 in-lb to 22,127 in-lb
- Handwheel available on 1010/S-X and higher
- Refer to Section V for detailed actuator information



SIZE IN	VALVE MODEL	ACTUATOR MODEL	A	B	C	D	D	F	WEIGHT (LB)
1/2	.50"S8100-XX	1005/S-X	0.59	2.56	7.70	6.32	2.87	2.48	8
3/4	.75"S8100-XX	1005/S-X	0.79	2.99	7.80	6.32	2.87	2.48	9
1	1"S8100-XX	1005/S-X	0.98	3.46	8.01	6.32	2.87	2.48	9
1 1/4	1.25"S8100-XX	1005/S-X	1.26	3.82	8.29	6.32	2.87	2.48	11
1 1/2	1.5"S8100-XX	1005/S-X	1.50	4.33	9.34	7.13	2.91	2.80	15
2	2"S8100-XX	1010/S-X	2.00	5.28	9.63	7.13	2.91	2.80	18

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Series 8100 • C-DA

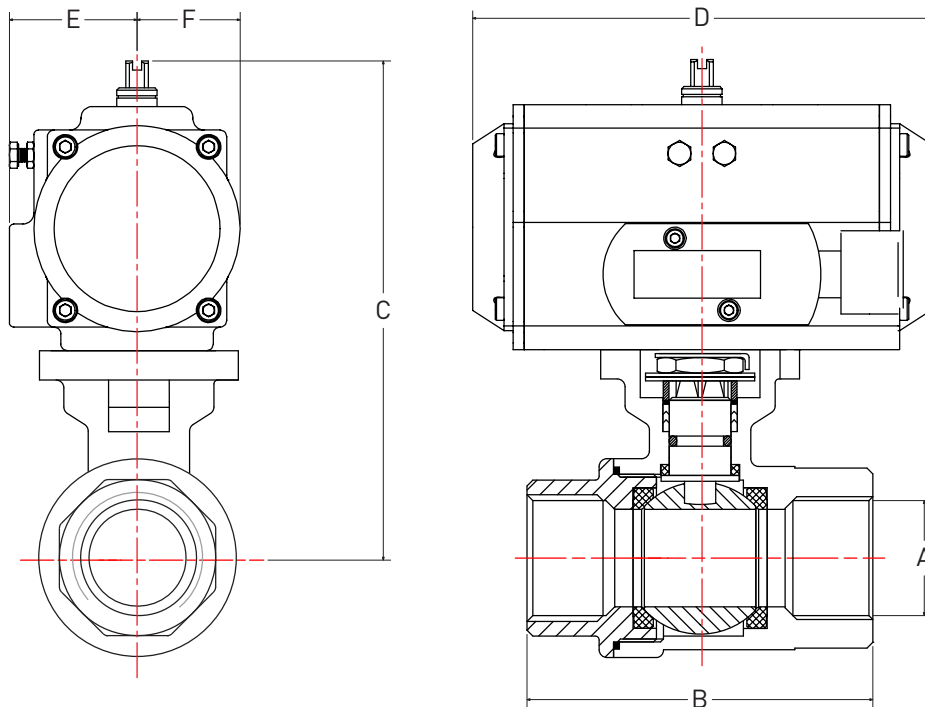
Two-Piece Full Port Ball Valve with Double Acting Pneumatic Actuator

Two-Piece Ball Valve

- Pressure rating up to 1000 PSI
- Temperature Rating up to 450°F
- Stainless Steel body
- ANSI B 1.20.1 NPT Threads
- Adjustable Stem Packing

Double Acting High-Pressure Pneumatic Actuator

- Die Cast Aluminum Alloy Body
- Torque Range: 124 in-lb to 40,519 in-lb
- 60 -110 PSI Air Supply Required
- Standard NAMUR mounts
- Refer to Section V for detailed actuator information



Refer to Section VI For Accessories

For Two-Position Control Refer to:
 -Solenoid Control Valve
 -Limit Switch Box

For Modulating Control Refer to:
 -Pneumatic Positioner
 -Electro-Pneumatic Positioner
 -Dome Indicator Positioner

SIZE IN	VALVE MODEL	ACTUATOR MODEL	A	B	C	D	E	F	WEIGHT (LB)
1/2	.50"S8100-XX	C-DA045	0.59	2.56	4.52	4.80	1.44	1.12	3
3/4	.75"S8100-XX	C-DA045	0.79	2.99	4.62	4.80	1.44	1.12	4
1	1"S8100-XX	C-DA045	0.98	3.46	4.83	4.80	1.44	1.12	4
1 1/4	1.25"S8100-XX	C-DA063	1.26	3.82	6.20	6.61	1.85	1.42	9
1 1/2	1.5"S8100-XX	C-DA063	1.50	4.33	6.44	6.61	1.85	1.42	10
2	2"S8100-XX	C-DA063	2.00	5.28	6.73	6.61	1.85	1.42	13

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Series 8100 • C-SR

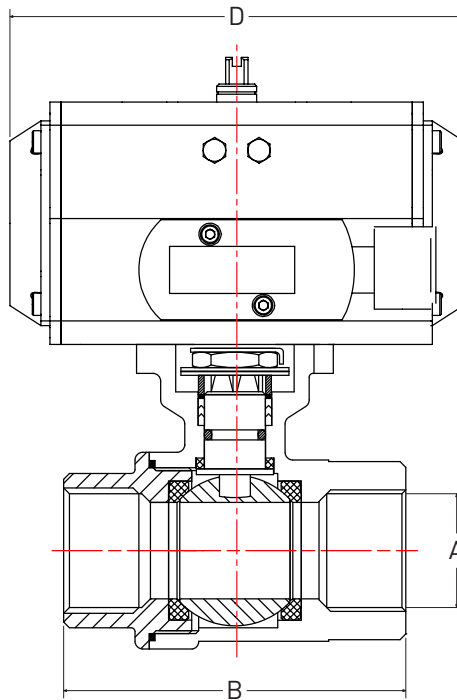
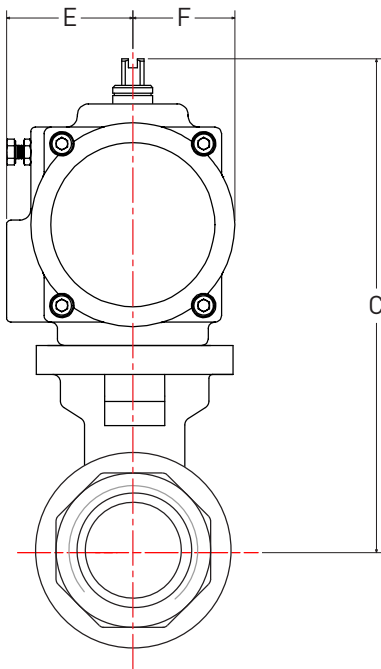
Two-Piece Full Port Ball Valve with Spring Return Pneumatic Actuator

Two-Piece Ball Valve

- Pressure rating up to 1000 PSI
- Temperature Rating up to 450°F
- Stainless Steel body
- ANSI B 1.20.1 NPT Threads
- Adjustable Stem Packing

Spring Return High-Pressure Pneumatic Actuator

- Die Cast Aluminum Alloy Body
- Torque Range: 124 in-lb to 15,500 in-lb
- 60 -110 PSI Air Supply Required
- Standard NAMUR mounts
- Refer to Section V for detailed actuator information



Refer to Section VI For Accessories

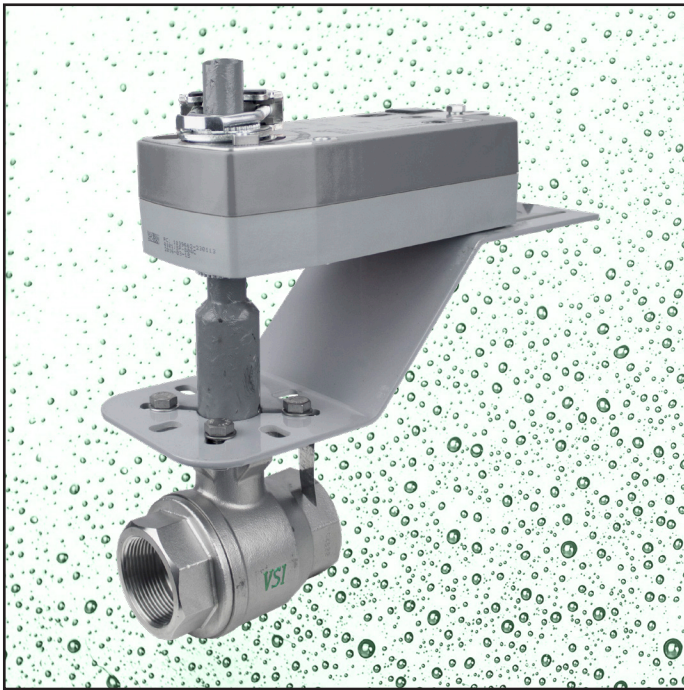
For Two-Position Control Refer to:
-Solenoid Control Valve
-Limit Switch Box

For Modulating Control Refer to:
-Pneumatic Positioner
-Electro-Pneumatic Positioner
-Dome Indicator Positioner

SIZE IN	VALVE MODEL	ACTUATOR MODEL	A	B	C	D	E	F	WEIGHT (LB)
1/2	.50"S8100-XX	C-SR045	0.59	2.56	4.52	4.80	1.44	1.12	3
3/4	.75"S8100-XX	C-SR045	0.79	2.99	4.62	4.80	1.44	1.12	4
1	1"S8100-XX	C-SR083	0.98	3.46	6.76	8.03	2.24	2.24	10
1 1/4	1.25"S8100-XX	C-SR083	1.26	3.82	7.04	8.03	2.24	2.24	12
1 1/2	1.5"S8100-XX	C-SR083	1.50	4.33	7.28	8.03	2.24	2.24	13
2	2"S8100-XX	C-SR092	2.00	5.28	7.87	10.31	2.30	2.30	19

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Series 8100 • Damper

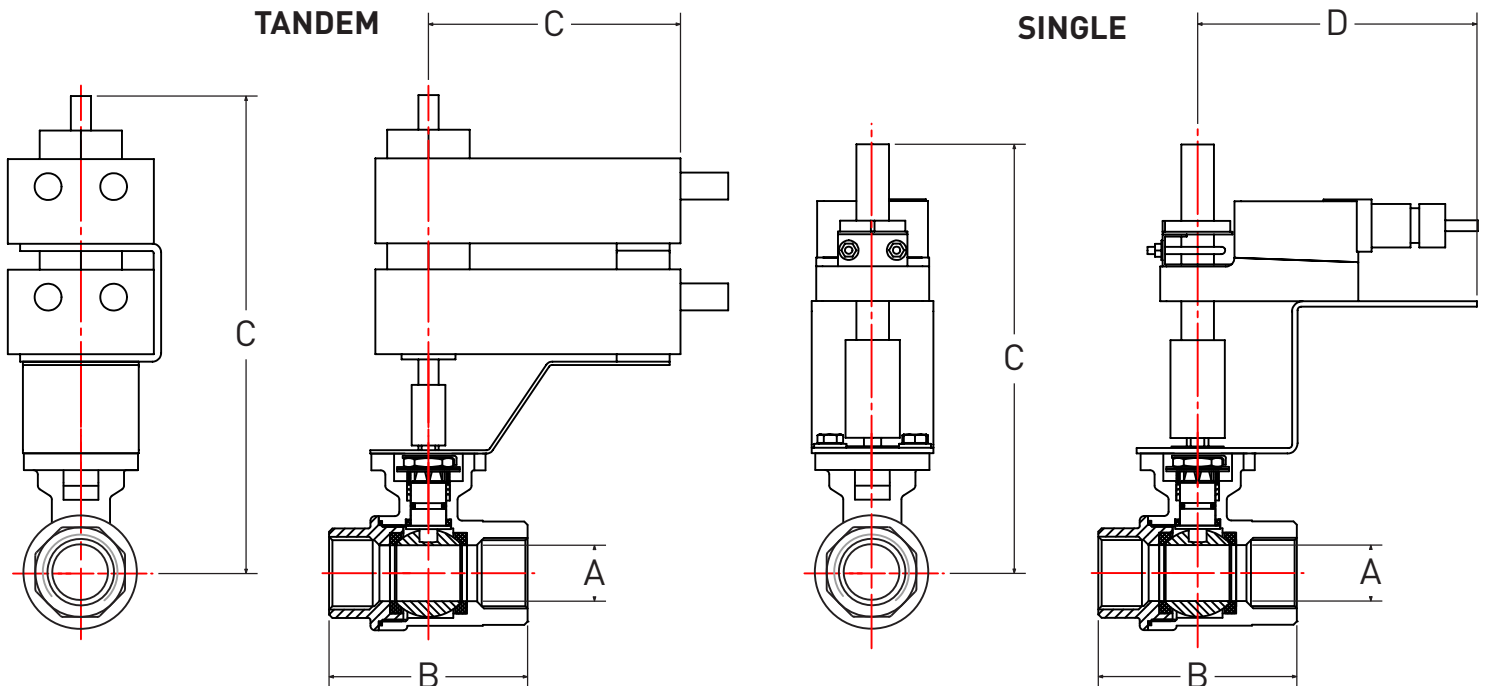
Two-Piece Full Port Ball Valve with Damper Actuator

Two-Piece Ball Valve

- Pressure rating up to 1000 PSI
- Temperature Rating up to 450°F
- Stainless Steel body
- ANSI B 1.20.1 NPT Threads
- Adjustable Stem Packing

Two-Position/Modulating Damper Actuator

- Spring and Non-Spring Return Option
- Two-Position or Modulating Control
- Wide range of HVAC damper actuators
- Flexible Mounting including Tandem style if necessary
- Contact VSI for Damper Actuator Assemblies



SIZE IN	VALVE MODEL	NON-SPRING RETURN				WEIGHT (LB)	SPRING RETURN				WEIGHT (LB)
		A	B	C	D		A	B	C	D	
1/2	.50"S8100-XX	0.59	2.56	8.63	7.50	5	0.59	2.56	8.63	7.50	7
3/4	.75"S8100-XX	0.79	2.99	8.73	7.50	5	0.79	2.99	8.73	9.00	8
1	1"S8100-XX	0.98	3.46	8.94	9.00	6	0.98	3.46	8.94	9.00	8
1¼	1.25"S8100-XX	1.26	3.82	9.97	9.00	7	1.26	3.82	9.97	9.00	11
1½	1.5"S8100-XX	1.50	4.33	10.21	9.00	8	1.50	4.33	10.21	9.35	15
2	2"S8100-XX	2.00	5.28	10.50	9.00	13	2.00	5.28	16.00	9.35	20

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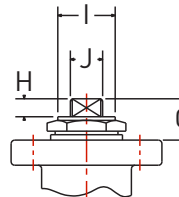
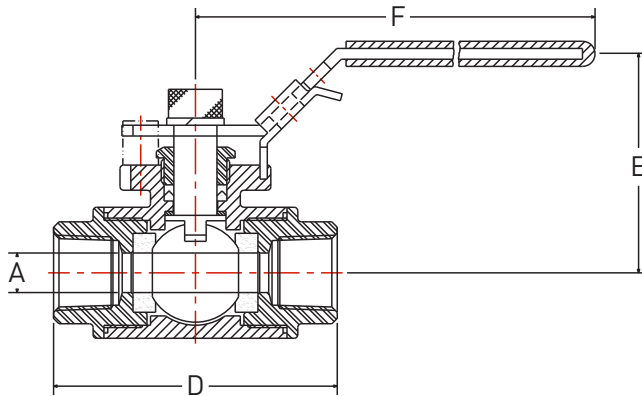
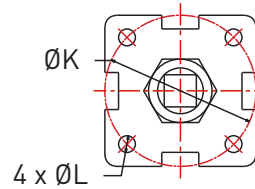
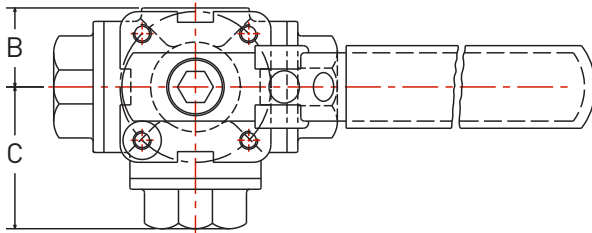


Series 8300

Three-Way Ball Valve

Stainless Steel Three-Way Ball Valve

- Pressure Rating to 1000 PSI
- Temperature Rating to 450°F
- Blow Out Proof Stem
- Adjustable Stem Packing
- NPT Threads: ANSI B 1.20.1
- Lock Handle
- ISO 5211 Mounting Pad
- L or T Port available options available



POSITION	A	B	C	D
L PORT	1 2 3	1 2 3		
T PORT	1 2 3	1 2 3	1 2 3	1 2 3

SIZE IN	VALVE MODEL	A	B	C	D	E	F	G	H	I	J	K	L	ISO	WEIGHT (LB)
1/2	.50"S8300-XX	0.43	0.87	1.56	3.11	2.54	6.50	0.43	0.20	0.47	0.35	1.65	M5	F04	2
3/4	.75"S8300-XX	0.59	1.10	1.73	3.35	3.05	7.87	0.51	0.28	0.59	0.43	1.97	M6	F05	3
1	1"S8300-XX	0.79	1.22	2.13	4.25	3.19	7.87	0.75	0.45	0.59	0.43	1.97	M6	F05	4
1 1/4	1.25"S8300-XX	0.98	1.34	2.44	4.88	3.46	9.06	0.93	0.61	0.59	0.43	1.97	M6	F05	6
1 1/2	1.5"S8300-XX	1.26	1.57	2.66	5.31	3.66	9.84	0.93	0.61	0.59	0.43	2.76	M8	F07	9
2	2"S8300-XX	1.57	1.89	3.23	6.46	4.13	10.24	0.96	0.63	0.73	0.55	2.76	M8	F07	15

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Series 8300 • 1000-X

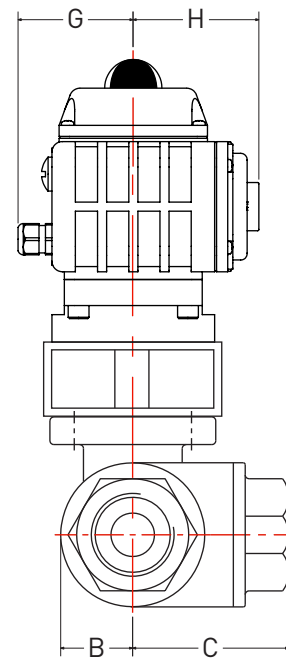
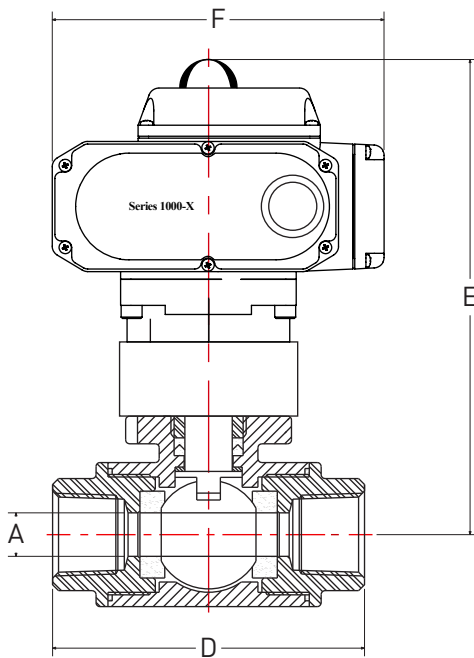
Three-Way Ball Valve with Two-Position Electric Actuator

Stainless Steel Three-Way Ball Valve

- Pressure Rating to 1000 PSI
- Temperature Rating to 450°F
- Blow Out Proof Stem
- Adjustable Stem Packing
- NPT Threads: ANSI B 1.20.1

Two-Position Electric Actuator

- 110VDC, 24 VDC, 220VAC, and 24VAC Electric Actuator
- Certifications: CE, NRTL, CSA
- NEMA 4 / 4X watertight, Aluminum Housing
- Torque Output Range: 443 in-lb to 22,127 in-lb
- Handwheel available on 1010-X and higher
- Refer to Section V for detailed actuator information



SIZE IN	VALVE MODEL	ACTUATOR MODEL	A	B	C	D	E	F	G	H	WEIGHT (LB)
1/2	.50"S8300-XX	1005-X	0.43	0.87	1.56	3.11	8.77	6.32	2.87	2.48	8
3/4	.75"S8300-XX	1005-X	0.59	1.10	1.73	3.35	9.41	6.32	2.87	2.48	9
1	1"S8300-XX	1005-X	0.79	1.22	2.13	4.25	9.49	6.32	2.87	2.48	10
1 1/4	1.25"S8300-XX	1005-X	0.98	1.34	2.44	4.88	9.71	6.32	2.87	2.48	12
1 1/2	1.5"S8300-XX	1005-X	1.26	1.57	2.66	5.31	11.28	6.32	2.87	2.48	15
2	2"S8300-XX	1010-X	1.57	1.89	3.23	6.46	12.45	7.13	2.91	2.80	25

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Series 8300 • 1000/S-X

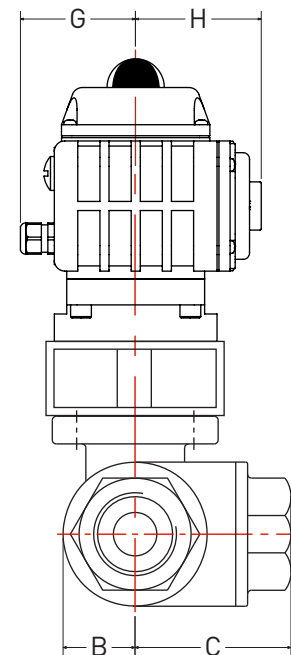
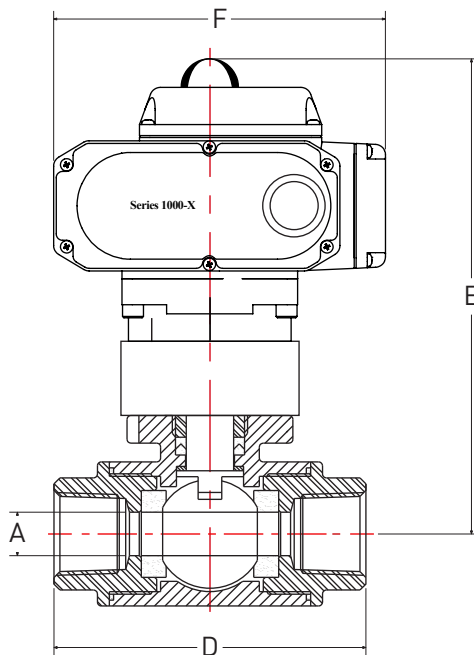
Three-Way Ball Valve with Modulating Electric Actuator

Stainless Steel Three-Way Ball Valve

- Pressure Rating to 1000 PSI
- Temperature Rating to 450°F
- Blow Out Proof Stem
- Adjustable Stem Packing
- NPT Threads: ANSI B 1.20.1

Modulating Control Electric Actuator

- 110VDC, 24 VDC, 220VAC, and 24VAC Electric Actuator
- Certifications: CE, NRTL, CSA
- NEMA 4 / 4X watertight, Aluminum Housing
- Control Signal: 2-10 VDC or 4-20 mA
- Torque Output Range: 443 in-lb to 22,127 in-lb
- Handwheel available on 1010/S-X and higher
- Refer to Section V for detailed actuator information



SIZE IN	VALVE MODEL	ACTUATOR MODEL	A	B	C	D	E	F	G	H	WEIGHT (LB)
1/2	.50"S8300-XX	1005/S-X	0.43	0.87	1.56	3.11	8.77	6.32	2.87	2.48	9
3/4	.75"S8300-XX	1005/S-X	0.59	1.10	1.73	3.35	9.41	6.32	2.87	2.48	10
1	1"S8300-XX	1005/S-X	0.79	1.22	2.13	4.25	9.49	6.32	2.87	2.48	11
1 1/4	1.25"S8300-XX	1005/S-X	0.98	1.34	2.44	4.88	9.71	6.32	2.87	2.48	13
1 1/2	1.5"S8300-XX	1005/S-X	1.26	1.57	2.66	5.31	11.28	6.32	2.87	2.48	16
2	2"S8300-XX	1010/-S-X	1.57	1.89	3.23	6.46	12.45	7.13	2.91	2.80	25

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Series 8300 • C-DA

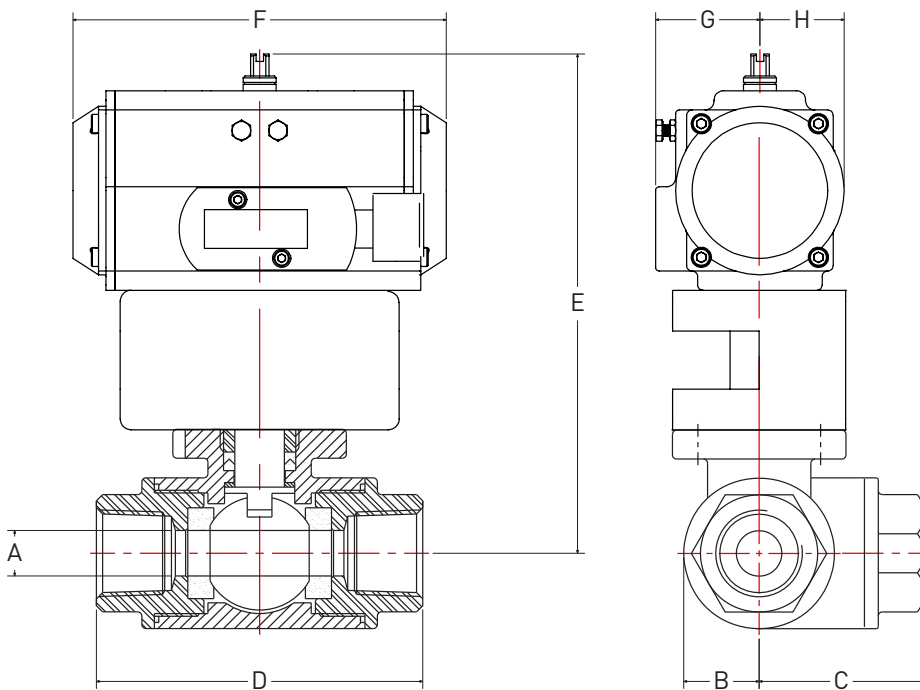
Three-Way Ball Valve with Double Acting Pneumatic Actuator

Stainless Steel Three-Way Ball Valve

- Pressure Rating to 1000 PSI
- Temperature Rating to 450°F
- Blow Out Proof Stem
- Adjustable Stem Packing
- NPT Threads: ANSI B 1.20.1

Double Acting High-Pressure Pneumatic Actuator

- Die Cast Aluminum Alloy Body
- Torque Range: 124 in-lb to 40,519 in-lb
- 60 -110 PSI Air Supply Required
- Standard NAMUR mounts
- Refer to Section V for detailed actuator information



Refer to Section VI For Accessories

For Two-Position Control Refer to:
 -Solenoid Control Valve
 -Limit Switch Box

For Modulating Control Refer to:
 -Pneumatic Positioner
 -Electro-Pneumatic Positioner
 -Dome Indicator Positioner

SIZE IN	VALVE MODEL	ACTUATOR MODEL	A	B	C	D	E	F	G	H	WEIGHT (LB)
1/2	.50"S8300-XX	C-DA045	0.43	0.87	1.56	3.11	5.59	4.80	1.44	1.12	4
3/4	.75"S8300-XX	C-DA045	0.59	1.10	1.73	3.35	6.23	4.80	1.44	1.12	5
1	1"S8300-XX	C-DA045	0.79	1.22	2.13	4.25	6.31	4.80	1.44	1.12	9
1 1/4	1.25"S8300-XX	C-DA063	0.98	1.34	2.44	4.88	7.62	6.61	1.85	1.42	11
1 1/2	1.5"S8300-XX	C-DA063	1.26	1.57	2.66	5.31	9.19	6.61	1.85	1.42	14
2	2"S8300-XX	C-DA083	1.57	1.89	3.23	6.46	10.39	8.03	2.24	1.81	22

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Series 8300 • C-SR

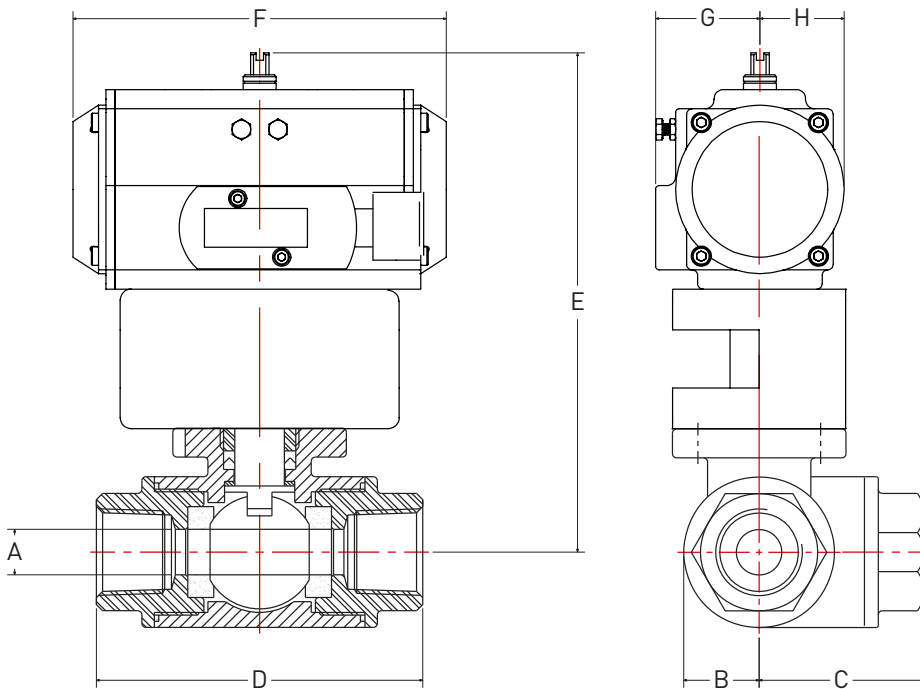
Three-Way Ball Valve with Spring Return Pneumatic Actuator

Stainless Steel Three-Way Ball Valve

- Pressure Rating to 1000 PSI
- Temperature Rating to 450°F
- Blow Out Proof Stem
- Adjustable Stem Packing
- NPT Threads: ANSI B 1.20.1

Spring Return High-Pressure Pneumatic Actuator

- Die Cast Aluminum Alloy Body
- Torque Range: 124 in-lb to 15,500 in-lb
- 60 -110 PSI Air Supply Required
- Standard NAMUR mounts
- Spring Return operation
- Refer to Section V for detailed actuator information



Refer to Section VI For Accessories

For Two-Position Control Refer to:
 -Solenoid Control Valve
 -Limit Switch Box

For Modulating Control Refer to:
 -Pneumatic Positioner
 -Electro-Pneumatic Positioner
 -Dome Indicator Positioner

SIZE IN	VALVE MODEL	ACTUATOR MODEL	A	B	C	D	E	F	G	H	WEIGHT (LB)
1/2	.50"S8300-XX	C-SR063	0.43	0.87	1.56	3.11	6.68	6.61	1.85	1.42	7
3/4	.75"S8300-XX	C-SR063	0.59	1.10	1.73	3.35	7.32	6.61	1.85	1.42	8
1	1"S8300-XX	C-SR083	0.79	1.22	2.13	4.25	8.24	8.03	2.24	1.81	12
1 1/4	1.25"S8300-XX	C-SR083	0.98	1.34	2.44	4.88	9.41	8.03	2.24	1.81	14
1 1/2	1.5"S8300-XX	C-SR105	1.26	1.57	2.66	5.31	10.98	10.55	2.52	2.26	24
2	2"S8300-XX	C-SR105	1.57	1.89	3.23	6.46	11.34	10.55	2.52	2.26	30

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Series 8300 • Damper

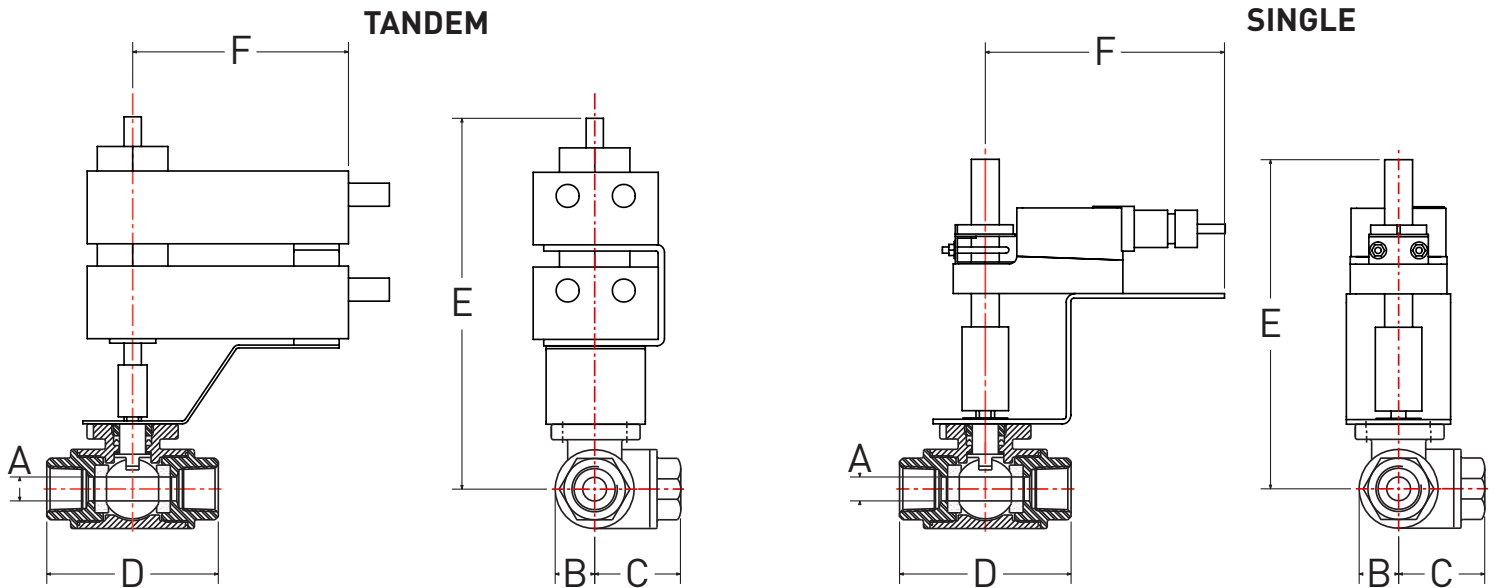
Three-Way Ball Valve with Damper Actuator

Stainless Steel Three-Way Ball Valve

- Pressure Rating to 1000 PSI
- Temperature Rating to 450°F
- Blow Out Proof Stem
- Adjustable Stem Packing
- NPT Threads: ANSI B 1.20.1

Two-Position/Modulating Damper Actuator

- Spring and Non-Spring Return Option
- Two-Position or Modulating Control
- Wide range of HVAC damper actuators
- Flexible Mounting including Tandem style if necessary
- Contact VSI for Damper Actuator Assemblies



SIZE IN	VALVE MODEL	NON-SPRING RETURN						WEIGHT (LB)	SPRING RETURN						WEIGHT (LB)
		A	B	C	D	E	F		A	B	C	D	E	F	
1/2	.50"S8300-XX	0.43	0.87	1.56	3.11	9.78	7.50	7	0.43	0.87	1.56	3.11	9.78	9.00	14
3/4	.75"S8300-XX	0.59	1.10	1.73	3.35	10.14	7.50	8	0.59	1.10	1.73	3.35	10.14	9.00	15
1	1"S8300-XX	0.79	1.22	2.13	4.25	10.23	9.00	9	0.79	1.22	2.13	4.25	10.23	9.35	16
1 1/4	1.25"S8300-XX	0.98	1.34	2.44	4.88	10.42	9.00	11	0.98	1.34	2.44	4.88	10.42	9.35	18
1 1/2	1.5"S8300-XX	1.26	1.57	2.66	5.31	14.56	9.00	14	1.26	1.57	2.66	5.31	16.06	9.35	21
2	2"S8300-XX	1.57	1.89	3.23	6.46	14.89	9.00	25	1.57	1.89	3.23	6.46	16.39	9.35	27

VSI

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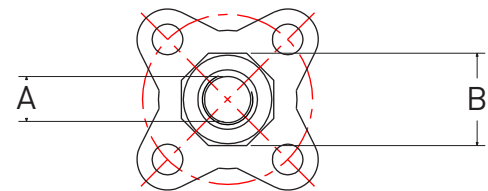
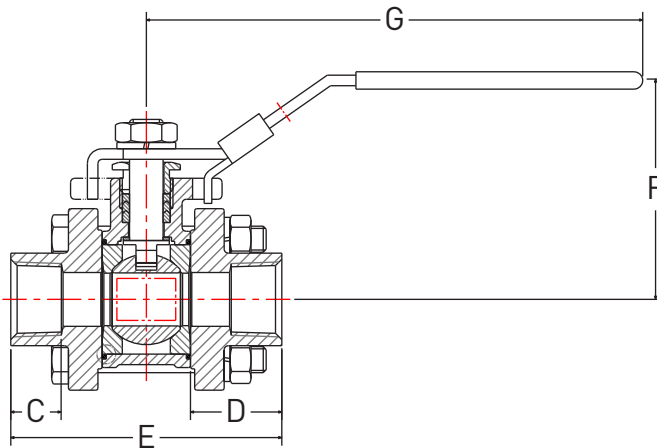
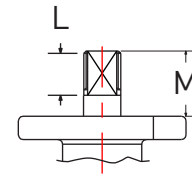
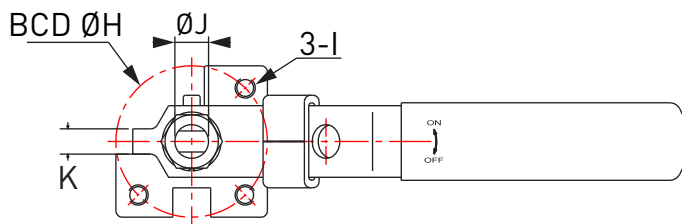


Series 8500

Three Piece Full Port Ball Valve

Three Piece Stainless Steel ball valve

- Pressure Rating up to 1500 PSI
- Temperature Rating up to 450°
- Blow-Out Proof Stem
- Adjustable Stem Packing
- Quick Lock Handle
- ANSI B 1.20.1 NPT Threads
- NACE MR 01-75
- ISO 5211 Mounting Pad for direct mounting



SIZE IN	VALVE MODEL	A	B	C	D	E	F	G	H	I	ISO	ØJ	K	L	M	WEIGHT (LB)
1/2	.50"S8500-XX	0.59	1.07	0.51	0.83	2.54	2.30	5.42	1.42	3/16-24 UNC	F03	0.37	0.25	0.52	0.75	1.36
3/4	.75"S8500-XX	0.79	1.33	0.77	1.00	3.18	2.44	5.42	1.42	3/16-24 UNC	F03	0.37	0.25	0.52	0.74	1.85
1	1"S8500-XX	0.98	1.57	0.71	1.11	3.74	3.30	6.34	1.65	3/16-24 UNC	F04	0.44	0.31	0.71	0.98	2.77
1¼	1.25"S8500-XX	1.26	1.91	0.75	1.19	4.32	3.63	6.34	1.97	1/4-20 UNC	F05	0.44	0.31	0.71	0.96	4.99
1½	1.5"S8500-XX	1.50	2.19	0.98	1.41	5.10	3.81	7.58	1.97	1/4-20 UNC	F05	0.50	0.35	0.74	1.04	6.07
2	2"S8500-XX	2.00	2.66	1.06	1.51	5.85	4.41	8.05	2.76	5/16-18 UNC	F07	0.50	0.35	0.74	1.07	9.50

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Series 8500 • 1000-X

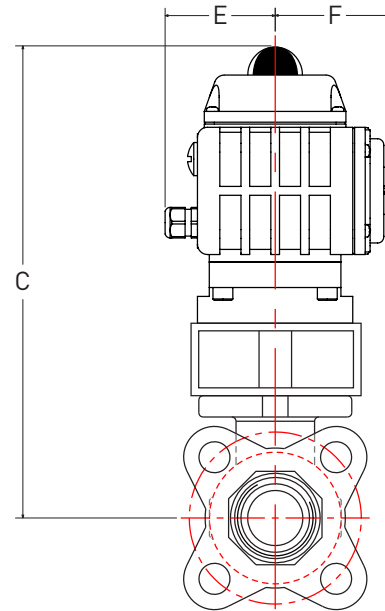
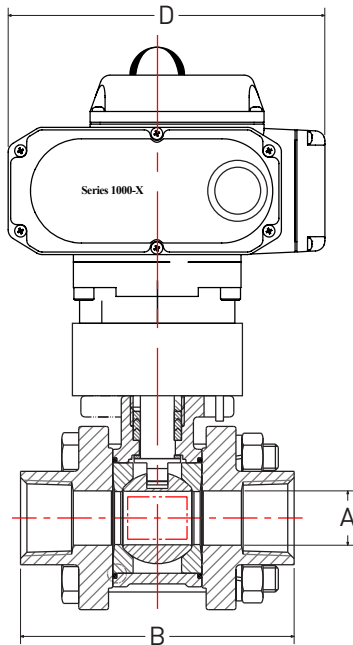
Three Piece Full Port Ball Valve with Two-Position Electric Actuator

Three Piece Stainless Steel ball valve

- Pressure Rating up to 1500 PSI
- Temperature Rating up to 450°
- Blow-Out Proof Stem
- ANSI B 1.20.1 NPT Threads
- NACE MR 01-75

Two-Position Electric Actuator

- 110VDC, 24 VDC, 220VAC, and 24VAC Electric Actuator
- Certifications: CE, NRTL, CSA
- NEMA 4 / 4X watertight, Aluminum Housing
- Torque Output Range: 443 in-lb to 22,127 in-lb
- Handwheel available on 1010-X and higher
- Refer to Section V for detailed actuator information



SIZE IN	VALVE MODEL	ACTUATOR MODEL	A	B	C	D	E	F	WEIGHT (LB)
1/2	.50" S8500-XX	1005-X	0.59	1.07	8.77	6.32	2.87	2.48	8
3/4	.75" S8500-XX	1005-X	0.79	1.33	9.41	6.32	2.87	2.48	8
1	1" S8500-XX	1005-X	0.98	1.57	9.49	6.32	2.87	2.48	9
1 1/4	1.25" S8500-XX	1005-X	1.26	1.91	9.71	6.32	2.87	2.48	10
1 1/2	1.5" S8500-XX	1010-X	1.50	2.19	12.09	7.13	3.43	2.80	16
2	2" S8500-XX	1010-X	2.00	2.66	12.45	7.13	3.43	2.80	20

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Series 8500 • 1000/S-X

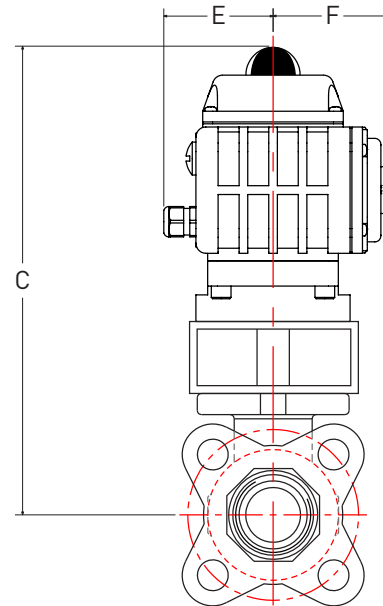
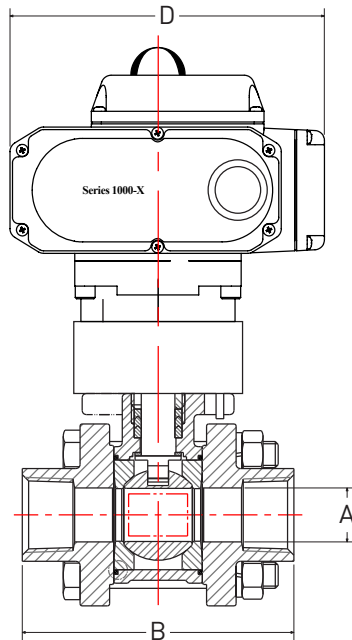
Three Piece Full Port Ball Valve with Modulating Electric Actuator

Three Piece Stainless Steel ball valve

- Pressure Rating up to 1500 PSI
- Temperature Rating up to 450°
- Blow-Out Proof Stem
- ANSI B 1.20.1 NPT Threads
- NACE MR 01-75

Modulating Control Electric Actuator

- 110VDC, 24 VDC, 220VAC, and 24VAC Electric Actuator
- Certifications: CE, NRTL, CSA
- NEMA 4 / 4X watertight, Aluminum Housing
- Control Signal: 2-10 VDC or 4-20 mA
- Torque Output Range: 443 in-lb to 22,127 in-lb
- Handwheel available on 1010/S-X and higher
- Refer to Section V for detailed actuator information



SIZE IN	VALVE MODEL	ACTUATOR MODEL	A	B	C	D	E	F	WEIGHT (LB)
1/2	.50" S8500-XX	1005/S-X	0.59	1.07	8.77	6.32	2.87	2.48	9
3/4	.75" S8500-XX	1005/S-X	0.79	1.33	9.41	6.32	2.87	2.48	9
1	1" S8500-XX	1005/S-X	0.98	1.57	9.49	6.32	2.87	2.48	10
1 1/4	1.25" S8500-XX	1005/S-X	1.26	1.91	9.71	6.32	2.87	2.48	11
1 1/2	1.5" S8500-XX	1005/S-X	1.50	2.19	12.09	7.13	3.43	2.80	16
2	2" S8500-XX	1005/S-X	2.00	2.66	12.45	7.13	3.43	2.80	20

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Series 8500 • C-DA

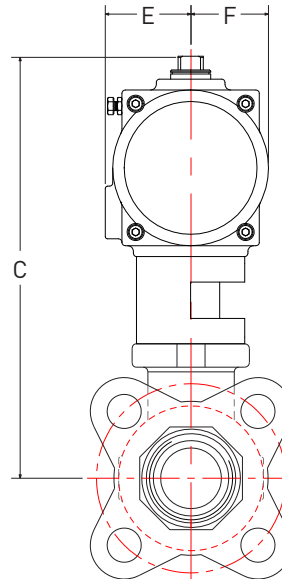
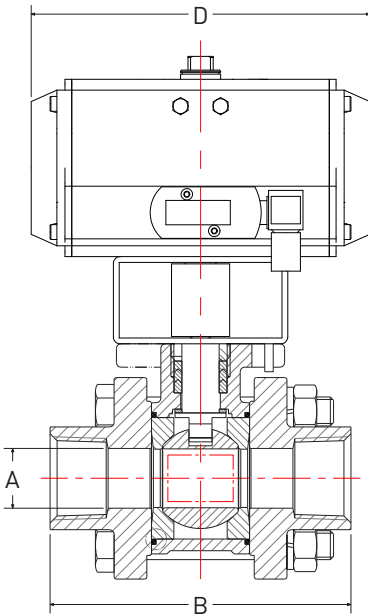
Three Piece Full Port Ball Valve with Double Acting Pneumatic Actuator

Three Piece Stainless Steel ball valve

- Pressure Rating up to 1500 PSI
- Temperature Rating up to 450°
- Blow-Out Proof Stem
- ANSI B 1.20.1 NPT Threads
- NACE MR 01-75

Double Acting High-Pressure Pneumatic Actuator

- Die Cast Aluminum Alloy Body
- Torque Range: 124 in-lb to 40,519 in-lb
- 60 -110 PSI Air Supply Required
- Standard NAMUR mounts
- Refer to Section V for detailed actuator information



Refer to Section VI For Accessories

For Two-Position Control Refer to:
-Solenoid Control Valve
-Limit Switch Box

For Modulating Control Refer to:
-Pneumatic Positioner
-Electro-Pneumatic Positioner
-Dome Indicator Positioner

SIZE IN	VALVE MODEL	ACTUATOR MODEL	A	B	C	D	E	F	WEIGHT (LB)
1/2	.50"S8500-XX	C-DA045	0.59	1.07	5.59	4.80	1.44	1.12	6
3/4	.75"S8500-XX	C-DA045	0.79	1.33	6.23	4.80	1.44	1.12	9
1	1"S8500-XX	C-DA045	0.98	1.57	6.31	4.80	1.44	1.12	13
1 1/4	1.25"S8500-XX	C-DA063	1.26	1.91	7.62	6.61	1.85	1.42	14
1 1/2	1.5"S8500-XX	C-DA063	1.50	2.19	9.19	6.61	1.85	1.42	19
2	2"S8500-XX	C-DA083	2.00	2.66	10.39	8.03	2.24	1.81	23

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Series 8500 • C-SR

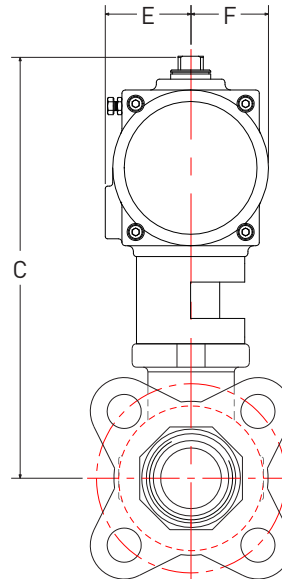
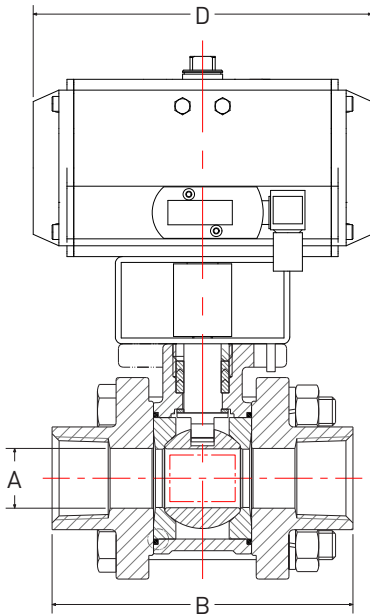
Three Piece Full Port Ball Valve with Spring Return Pneumatic Actuator

Three Piece Stainless Steel ball valve

- Pressure Rating up to 1500 PSI
- Temperature Rating up to 450°
- Blow-Out Proof Stem
- ANSI B 1.20.1 NPT Threads
- NACE MR 01-75

Spring Return High-Pressure Pneumatic Actuator

- Die Cast Aluminum Alloy Body
- Torque Range: 124 in-lb to 15,500 in-lb
- 60 -110 PSI Air Supply Required
- Standard NAMUR mounts
- Refer to Section V for detailed actuator information



Refer to Section VI For Accessories

For Two-Position Control Refer to:
-Solenoid Control Valve
-Limit Switch Box

For Modulating Control Refer to:
-Pneumatic Positioner
-Electro-Pneumatic Positioner
-Dome Indicator Positioner

SIZE IN	VALVE MODEL	ACTUATOR MODEL	A	B	C	D	E	F	WEIGHT (LB)
1/2	.50"S8500-XX	C-SR063	0.59	1.07	6.68	6.61	1.85	1.42	7
3/4	.75"S8500-XX	C-SR083	0.79	1.33	7.32	8.03	2.24	1.81	10
1	1"S8500-XX	C-SR092	0.98	1.57	8.24	10.31	2.30	1.97	14
1 1/4	1.25"S8500-XX	C-SR092	1.26	1.91	9.41	10.31	2.30	1.97	15
1 1/2	1.5"S8500-XX	C-SR105	1.50	2.19	10.98	10.55	2.52	2.26	21
2	2"S8500-XX	C-SR105	2.00	2.66	11.34	10.55	2.52	2.26	25

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Series 8500 • Damper

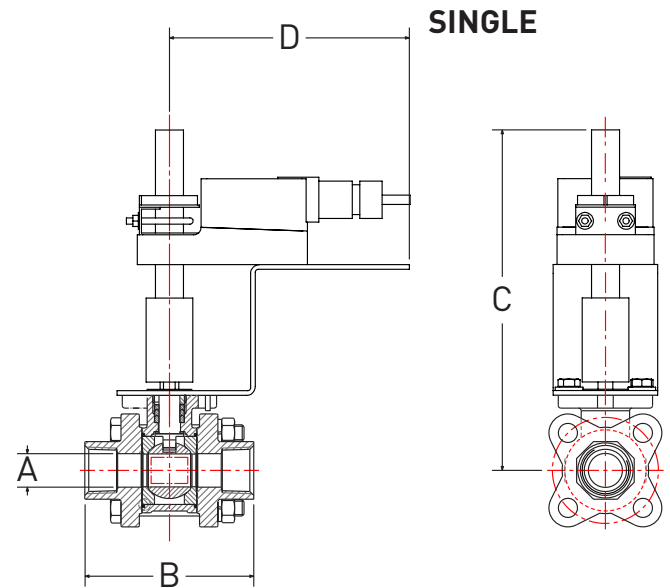
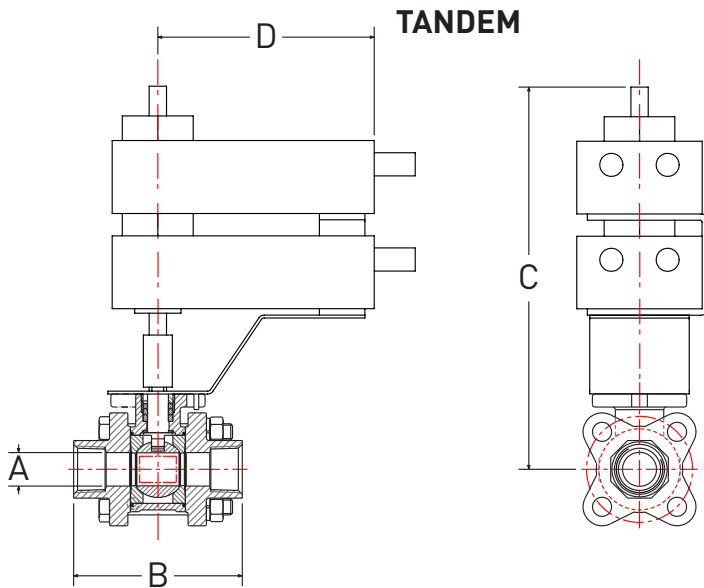
Three Piece Full Port Ball Valve with Damper Actuator

Three Piece Stainless Steel ball valve

- Pressure Rating up to 1500 PSI
- Temperature Rating up to 450°
- Blow-Out Proof Stem
- ANSI B 1.20.1 NPT Threads
- NACE MR 01-75

Two-Position/Modulating Damper Actuator

- Spring and Non-Spring Return Option
- Two-Position or Modulating Control
- Wide range of HVAC damper actuators
- Flexible Mounting including Tandem style if necessary
- Contact VSI for Damper Actuator Assemblies



SIZE IN	VALVE MODEL	NON-SPRING RETURN				WEIGHT (LB)	SPRING RETURN				WEIGHT (LB)
		A	B	C	D		A	B	C	D	
1/2	.50" S8500-XX	0.59	1.07	8.63	7.50	6	0.59	1.07	10.06	9.00	8
3/4	.75" S8500-XX	0.79	1.33	8.73	7.50	7	0.79	1.33	10.16	9.00	9
1	1" S8500-XX	0.98	1.57	9.43	9.00	8	0.98	1.57	10.35	9.00	10
1 1/4	1.25" S8500-XX	1.26	1.91	9.55	9.00	9	1.26	1.91	11.79	9.35	11
1 1/2	1.5" S8500-XX	1.50	2.19	9.80	9.00	10	1.50	2.19	12.04	9.35	12
2	2" S8500-XX	2.00	2.66	10.50	9.00	14	2.00	2.66	12.74	9.35	16

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Notes



Notes





Section III: Series E & VC Ball Valve

VSI offers two distinct Series in our family of characterized control ball valves - the Series E and VC. Both Series feature NPT end connections with true v-notch balls equal to the nominal pipe size. There are zero plastic inserts or reduced ports, unlike other competitor's valves.

The Series E features a forged brass body with hard chrome plated brass ball - a perfect choice for chilled water coil control. The Series VC has an investment cast carbon steel body with stainless ball and stem making it ideal for low-pressure steam. Both valves Series have double o-ring sealed blowout proof stems.

Flow characterization is achieved by providing varying degrees of v-ball shapes resulting in a modified equal percentage flow curve.

Features

- Multiple Cv flow values for each size
- Modified equal percentage flow characteristics
- ANSI Class VI zero leakage
- No plastic inserts, all-metal characterization
- Available with electric or pneumatic actuation



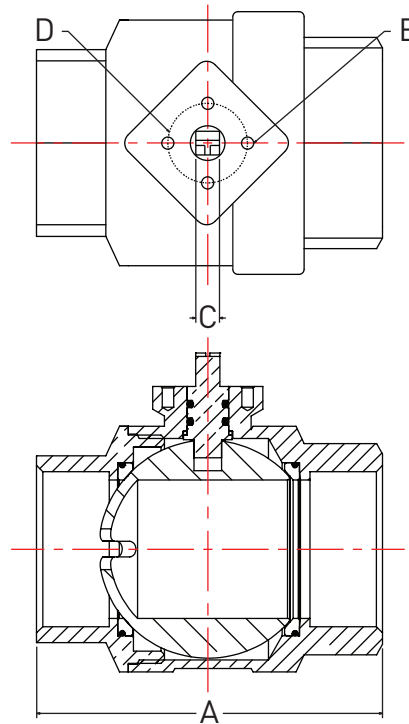
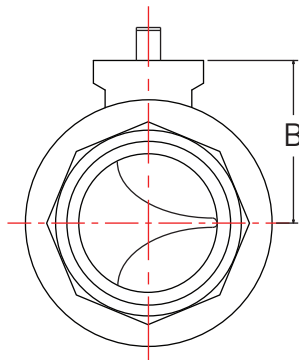


Series VC

V-Port Control Ball Valve

Carbon Steel WCB-A216 Two-Piece Ball Valve

- Applications: Air Handling Units, Boilers, 50% Glycol, Steam, Process Control
- Body Pressure Rating up to 600 WOG
- Close Off Pressure: 200 PSI
- Max Steam Pressure: 50 PSI
- 300:1 Turn-down ratio for precise control
- Flow Characteristic: Modified Equal Percentage
- Wide Cv range for various HVAC applications
- ANSI/FCI 70-2, Class VI Leakage Rating
- NPT Female Connections
- Option for Full port Ball



SIZE IN	VALVE MODEL	A	B	C	D	E	WEIGHT (LB)
1/2	VC-050-XX	2.26	1.06	0.28	0.90	M4	0.5
3/4	VC-075-XX	2.54	1.20	0.28	0.90	M4	0.8
1	VC-100-XX	3.02	1.38	0.28	0.90	M4	1.2
1 1/4	VC-125-XX	3.46	1.59	0.28	0.90	M4	1.8
1 1/2	VC-150-XX	4.04	1.86	0.28	0.90	M4	2.3

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Series VC • 1000-X

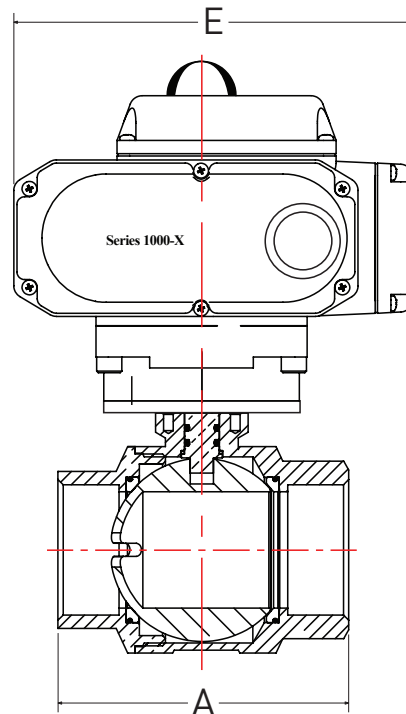
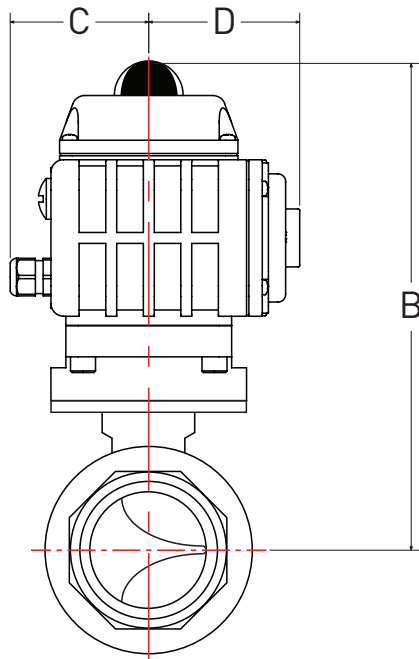
V-Port Control Ball Valve with Two-Position Electric Actuator

Carbon Steel WCB-A216 Two-Piece Ball Valve

- Close Off Pressure: 200 PSI
- Max Steam Pressure: 50 PSI
- Flow Characteristic: Modified Equal Percentage
- ANSI/FCI 70-2, Class VI Leakage Rating
- NPT Female Connections
- Option for Full port Ball

Two-Position Electric Actuator

- 110VDC, 24 VDC, 220VAC, and 24VAC Electric Actuator
- Certifications: CE, NRTL, CSA
- NEMA 4 / 4X watertight, Aluminum Housing
- Torque Output Range: 443 in-lb to 22,127 in-lb
- Refer to Section V for detailed actuator information



SIZE IN	VALVE MODEL	ACTUATOR MODEL	A	B	C	D	E	WEIGHT (LB)
1/2	VC-050-XX	1005-X	2.26	7.63	2.87	2.48	6.32	6.8
3/4	VC-075-XX	1005-X	2.54	7.77	2.87	2.48	6.32	7.1
1	VC-100-XX	1005-X	3.02	7.95	2.87	2.48	6.32	7.5
1 1/4	VC-125-XX	1005-X	3.46	8.16	2.87	2.48	6.32	8.1
1 1/2	VC-150-XX	1005-X	4.04	8.43	2.87	2.48	6.32	9.3

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Series VC • 1000/S-X

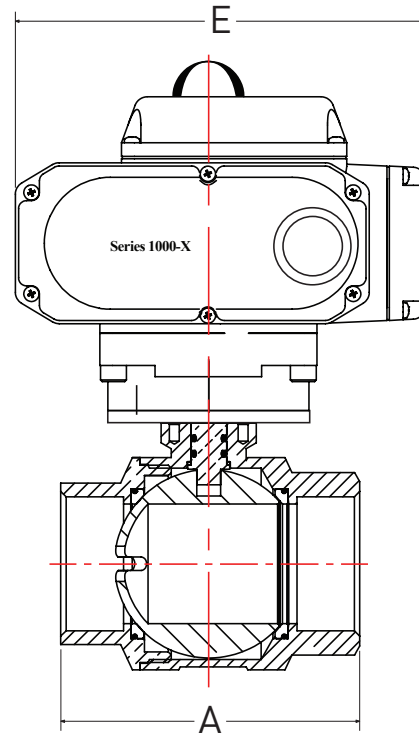
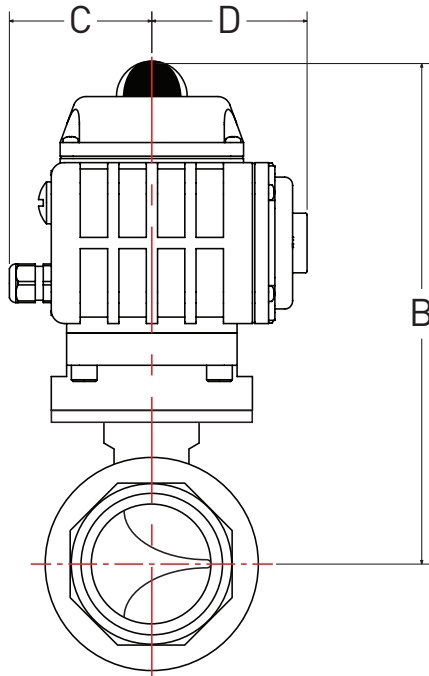
V-Port Control Ball Valve with Modulating Electric Actuator

Carbon Steel WCB-A216 Two-Piece Ball Valve

- Close Off Pressure: 200 PSI
- Max Steam Pressure: 50 PSI
- Flow Characteristic: Modified Equal Percentage
- ANSI/FCI 70-2, Class VI Leakage Rating
- NPT Female Connections
- Option for Full port Ball

Modulating Control Electric Actuator

- 110VDC, 24 VDC, 220VAC, and 24VAC Electric Actuator
- Certifications: CE, NRTL, CSA
- NEMA 4 / 4X watertight, Aluminum Housing
- Control Signal: 2-10 VDC or 4-20 mA
- Torque Output Range: 443 in-lb to 22,127 in-lb
- Refer to Section V for detailed actuator information



SIZE IN	VALVE MODEL	ACTUATOR MODEL	A	B	C	D	E	WEIGHT (LB)
1/2	VC-050-XX	1005/S-X	2.26	7.63	2.87	2.48	6.32	7.5
3/4	VC-075-XX	1005/S-X	2.54	7.77	2.87	2.48	6.32	7.8
1	VC-100-XX	1005/S-X	3.02	7.95	2.87	2.48	6.32	8.2
1 1/4	VC-125-XX	1005/S-X	3.46	8.16	2.87	2.48	6.32	8.8
1 1/2	VC-150-XX	1005/S-X	4.04	8.43	2.87	2.48	6.32	10.0

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Series VC • C-DA

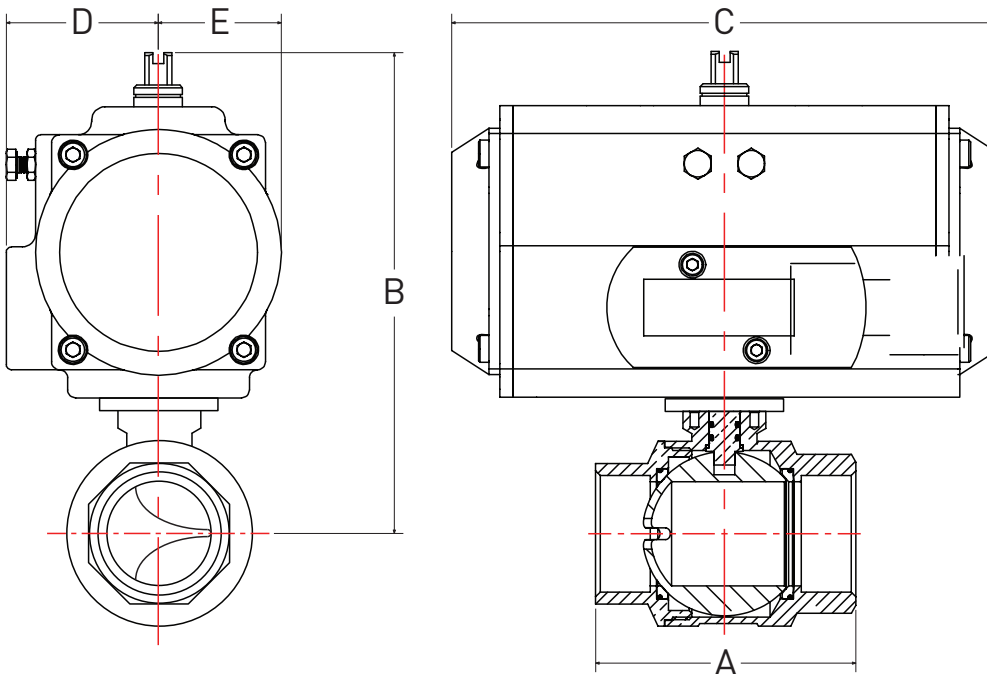
V-Port Control Ball Valve with Double Acting Pneumatic Actuator

Carbon Steel WCB-A216 Two-Piece Ball Valve

- Close Off Pressure: 200 PSI
- Max Steam Pressure: 50 PSI
- Flow Characteristic: Modified Equal Percentage
- ANSI/FCI 70-2, Class VI Leakage Rating
- NPT Female Connections
- Option for Full port Ball

Double Acting High-Pressure Pneumatic Actuator

- Die Cast Aluminum Alloy Body
- Torque Range: 124 in-lb to 40,519 in-lb
- 60 -110 PSI Air Supply Required
- Standard NAMUR mounts
- Refer to Section V for detailed actuator information



Refer to Section VI For Accessories

For Two-Position Control Refer to:
-Solenoid Control Valve
-Limit Switch Box

For Modulating Control Refer to:
-Pneumatic Positioner
-Electro-Pneumatic Positioner
-Dome Indicator Positioner

SIZE IN	VALVE MODEL	ACTUATOR MODEL	A	B	C	D	E	WEIGHT (LB)
1/2	VC-050-XX	C-DA045	2.26	4.45	4.80	1.44	1.12	2.7
3/4	VC-075-XX	C-DA045	2.54	4.59	4.80	1.44	1.12	3.0
1	VC-100-XX	C-DA045	3.02	4.77	4.80	1.44	1.12	3.4
1 1/4	VC-125-XX	C-DA045	3.46	4.98	4.80	1.44	1.12	4.0
1 1/2	VC-150-XX	C-DA045	4.04	5.25	4.80	1.44	1.12	5.2

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Series VC • C-SR

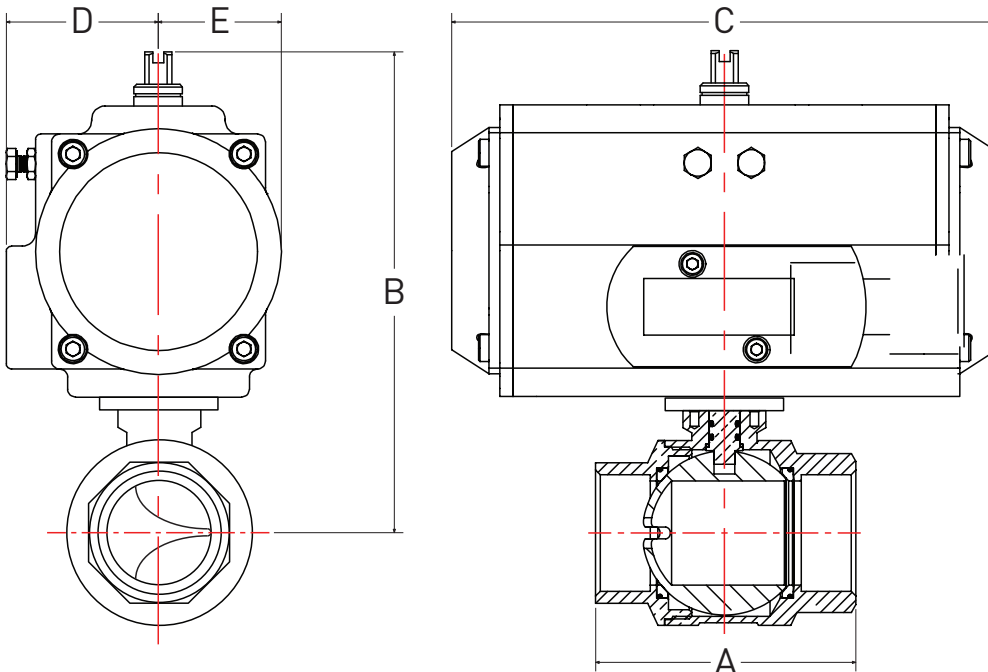
V-Port Control Ball Valve with Spring Return Pneumatic Actuator

Carbon Steel WCB-A216 Two-Piece Ball Valve

- Close Off Pressure: 200 PSI
- Max Steam Pressure: 50 PSI
- Flow Characteristic: Modified Equal Percentage
- ANSI/FCI 70-2, Class VI Leakage Rating
- NPT Female Connections
- Option for Full port Ball

Spring Return High-Pressure Pneumatic Actuator

- Die Cast Aluminum Alloy Body
- Torque Range: 124 in-lb to 15,500 in-lb
- 60 -110 PSI Air Supply Required
- Standard NAMUR mounts
- Refer to Section V for detailed actuator information



Refer to Section VI For Accessories

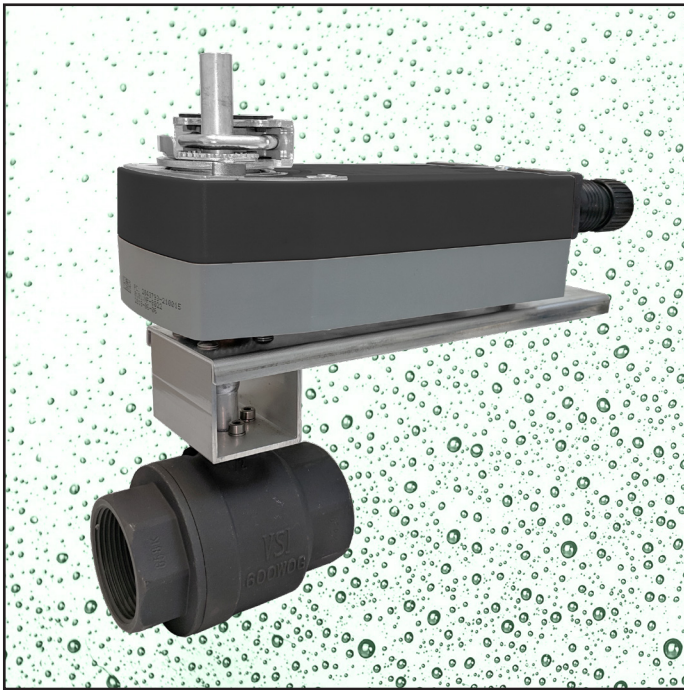
For Two-Position Control Refer to:
 -Solenoid Control Valve
 -Limit Switch Box

For Modulating Control Refer to:
 -Pneumatic Positioner
 -Electro-Pneumatic Positioner
 -Dome Indicator Positioner

SIZE IN	VALVE MODEL	ACTUATOR MODEL	A	B	C	D	E	WEIGHT (LB)
1/2	VC-050-XX	C-SR045	2.26	4.45	4.80	1.44	1.12	2.9
3/4	VC-075-XX	C-SR045	2.54	4.59	4.80	1.44	1.12	3.2
1	VC-100-XX	C-SR045	3.02	4.77	4.80	1.44	1.12	3.6
1 1/4	VC-125-XX	C-SR045	3.46	4.98	4.80	1.44	1.12	4.2
1 1/2	VC-150-XX	C-SR045	4.04	5.25	4.80	1.44	1.12	5.4

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Series VC • Damper

V-Port Control Ball Valve with Damper Actuator

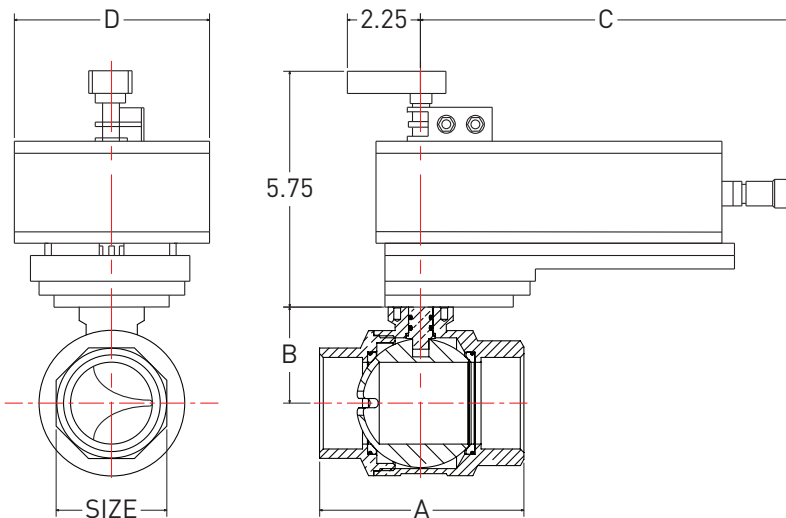
Carbon Steel WCB-A216 Two-Piece Ball Valve

- Close Off Pressure: 200 PSI
- Max Steam Pressure: 50 PSI
- Flow Characteristic: Modified Equal Percentage
- ANSI/FCI 70-2, Class VI Leakage Rating
- NPT Female Connections
- Option for Full port Ball

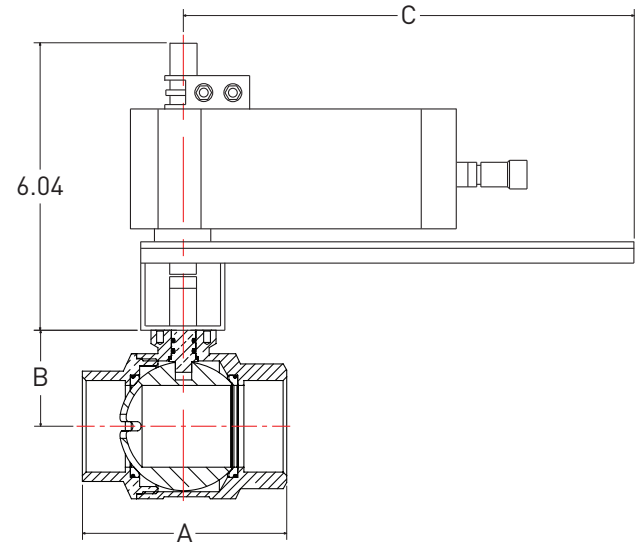
Two-Position/Modulating Damper Actuator

- Spring and Non-Spring Return Option
- Two-Position or Modulating Control
- Wide range of HVAC damper actuators
- Contact VSI for Damper Actuator Assemblies

STANDARD BRACKET



STEAM BRACKET



SIZE	VALVE MODEL	NON-SPRING RETURN						WEIGHT (LB)	SPRING RETURN						WEIGHT (LB)
		A	B	C		D			A	B	C		D		
				MIN	MAX*	MIN	MAX*				MIN	MAX*	MIN	MAX*	
1/2	VC-050-XX	2.26	1.06	5.60	7.38	2.70	3.94	2.00	2.26	1.06	5.60	7.38	2.70	3.94	4.8
3/4	VC-075-XX	2.54	1.20	5.60	7.38	2.70	3.94	2.30	2.54	1.20	5.60	7.38	2.70	3.94	5.4
1	VC-100-XX	3.02	1.38	5.60	7.38	2.70	3.94	2.60	3.02	1.38	5.60	7.38	2.70	3.94	5.8
1¼	VC-125-XX	3.46	1.59	5.60	7.38	2.70	3.94	3.85	3.46	1.59	5.60	7.38	2.70	3.94	6.6
1½	VC-150-XX	4.04	1.86	5.60	8.69	2.70	3.94	4.45	4.04	1.86	5.60	8.69	2.70	3.94	7.1





Series VC • TR24

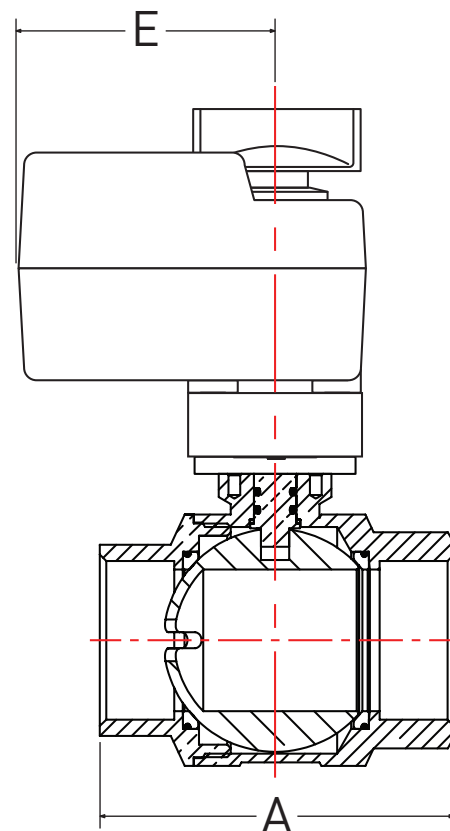
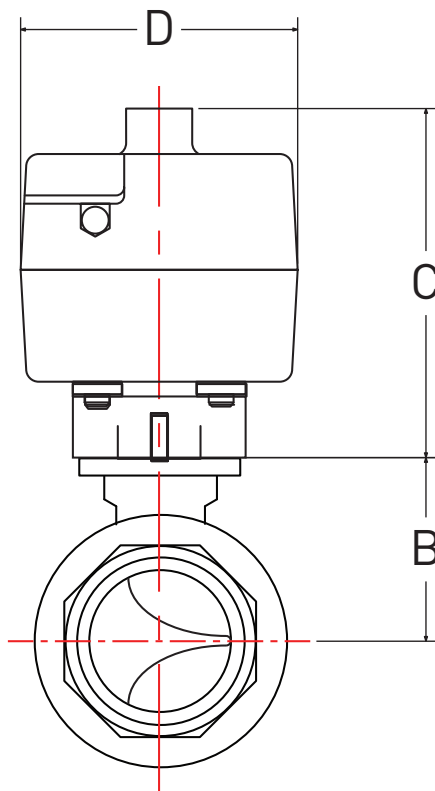
V-Port Control Ball Valve with 24VAC Electric Actuator

Carbon Steel WCB-A216 Two-Piece Ball Valve

- Close Off Pressure: 200 PSI
- Max Steam Pressure: 50 PSI
- Flow Characteristic: Modified Equal Percentage
- ANSI/FCI 70-2, Class VI Leakage Rating
- NPT Female Connections
- Option for Full port Ball

24VAC Electric Actuator

- Available in Floating Point or Modulating Control
- Output Torque: 18 in-lb
- NEMA 1/IP40 Housing
- Manual Override
- Terminal Strip



SIZE IN	VALVE MODEL	ACTUATOR MODEL	A	B	C	D	E	WEIGHT (LB)
1/2	VC-050-XX	TR24-XX	2.26	6.21	3.55	2.62	2.50	1.0
3/4	VC-075-XX	TR24-XX	2.54	6.35	3.55	2.62	2.50	1.3

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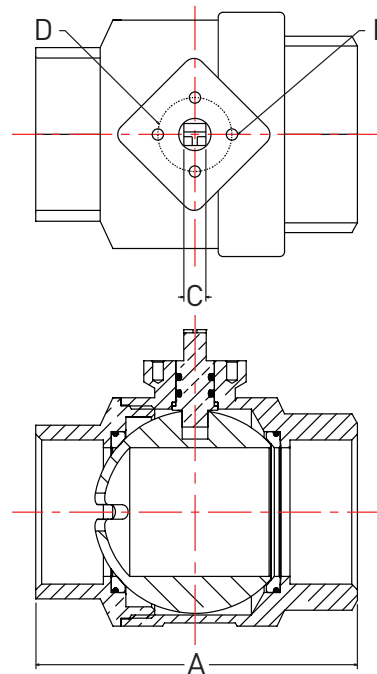
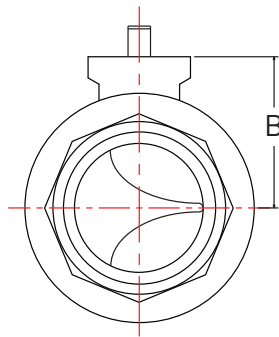


Series E

V-Port Control Ball Valve

Two-Piece Brass Ball Valve

- Body Pressure Rating up to 600 WOG
- Close Off Pressure: 200 PSI
- ANSI/FCI 70-2, Class VI Leakage Rating
- NPT Female Connections
- Flow Characteristic: Modified Equal Percentage
- 300:1 Turn-down ratio for precise control
- PTFE Seat and hard chrome plated brass ball
- Wide Cv range for various HVAC applications



SIZE IN	VALVE MODEL	A	B	C	D	E	WEIGHT (LB)
1/2	BV-050-XX	2.20	1.06	0.28	0.90	M4	0.5
3/4	BV-075-XX	2.52	1.20	0.28	0.90	M4	0.8
1	BV-100-XX	2.91	1.38	0.28	0.90	M4	1.1
1 1/4	BV-125-XX	3.35	1.59	0.28	0.90	M4	1.7
1 1/2	BV-150-XX	3.90	1.86	0.28	0.90	M4	2.3
2	BV-200-XX	4.33	2.10	0.28	0.90	M4	4.2

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Series E • 1000-X

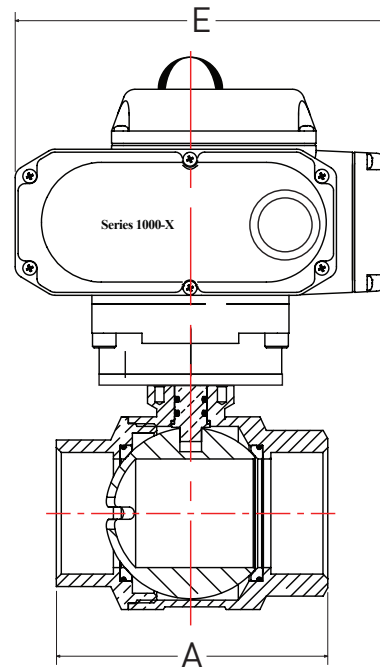
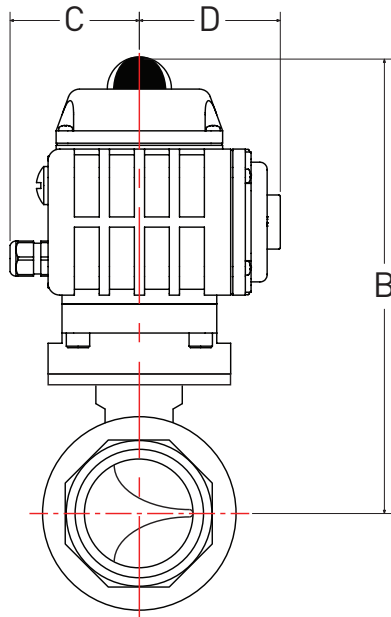
V-Port Control Ball Valve with Two-Position Electric Actuator

Two-Piece Brass Ball Valve

- Close Off Pressure: 200 PSI
- Flow Characteristic: Modified Equal Percentage
- PTFE Seat and hard chrome plated Brass ball
- 300:1 turndown ratio for precise control
- Wide Cv range for various HVAC applications
- Option for Full port Ball

Two-Position Electric Actuator

- 110VDC, 24 VDC, 220VAC, and 24VAC Electric Actuator
- Certifications: CE, NRTL, CSA
- NEMA 4 / 4X watertight, Aluminum Housing
- Torque Output Range: 443 in-lb to 22,127 in-lb
- Refer to Section V for detailed actuator information



SIZE IN	VALVE MODEL	ACTUATOR MODEL	A	B	C	D	E	WEIGHT (LB)
1/2	BV-050-XX	1005-X	2.26	7.63	2.87	2.48	6.32	6.8
3/4	BV-075-XX	1005-X	2.54	7.77	2.87	2.48	6.32	7.1
1	BV-100-XX	1005-X	3.02	7.95	2.87	2.48	6.32	7.3
1 1/4	BV-125-XX	1005-X	3.46	8.16	2.87	2.48	6.32	8.0
1 1/2	BV-150-XX	1005-X	4.04	8.43	2.87	2.48	6.32	8.6
2	BV-200-XX	1005-X	4.33	8.82	2.87	2.48	6.30	10.5

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Series E • 1000/S-X

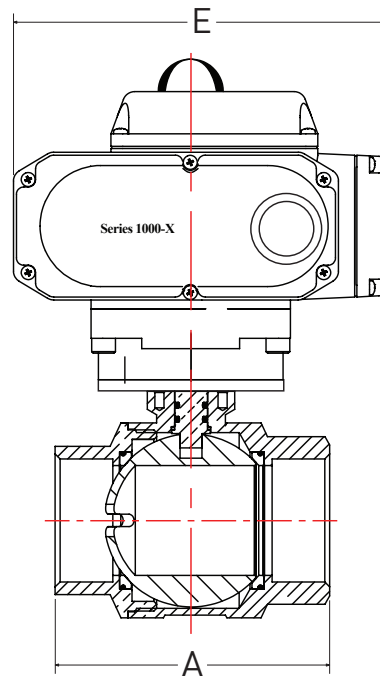
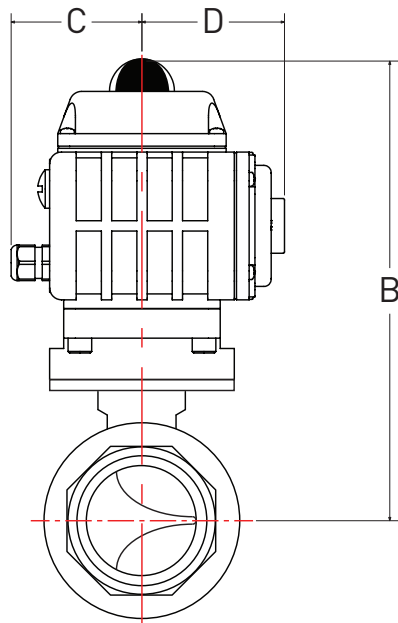
V-Port Control Ball Valve with Modulating Electric Actuator

Two-Piece Brass Ball Valve

- Close Off Pressure: 200 PSI
- Flow Characteristic: Modified Equal Percentage
- PTFE Seat and hard chrome plated Brass ball
- 300:1 turndown ratio for precise control
- Wide Cv range for various HVAC applications
- Option for Full port Ball

Modulating Control Electric Actuator

- 110VDC, 24 VDC, 220VAC, and 24VAC Electric Actuator
- Certifications: CE, NRTL, CSA
- NEMA 4 / 4X watertight, Aluminum Housing
- Control Signal: 2-10 VDC or 4-20 mA
- Torque Output Range: 443 in-lb to 22,127 in-lb
- Refer to Section V for detailed actuator information



SIZE IN	VALVE MODEL	ACTUATOR MODEL	A	B	C	D	E	WEIGHT (LB)
1/2	BV-050-XX	1005/S-X	2.26	7.63	2.87	2.48	6.32	7.5
3/4	BV-075-XX	1005/S-X	2.54	7.77	2.87	2.48	6.32	7.8
1	BV-100-XX	1005/S-X	3.02	7.95	2.87	2.48	6.32	8.0
1 1/4	BV-125-XX	1005/S-X	3.46	8.16	2.87	2.48	6.32	8.7
1 1/2	BV-150-XX	1005/S-X	4.04	8.43	2.87	2.48	6.32	9.3
2	BV-200-XX	1005/S-X	4.33	8.82	2.87	2.48	6.30	11.2

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Series E • C-DA

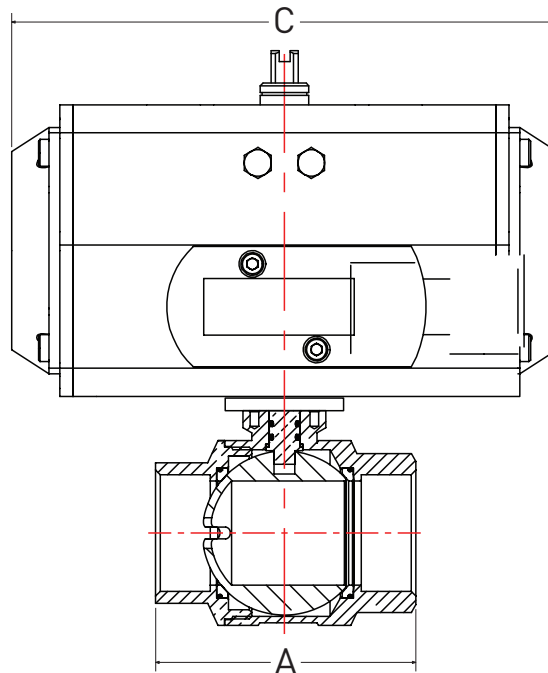
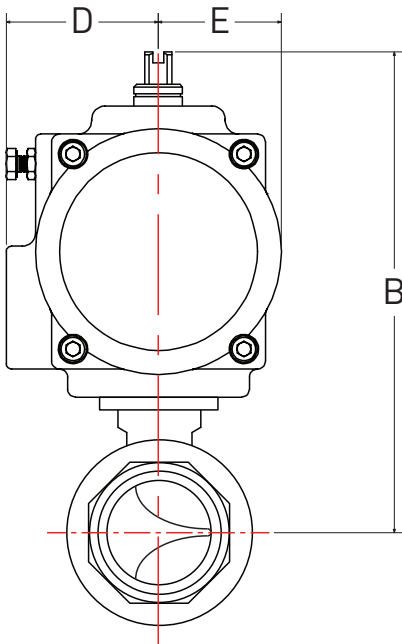
V-Port Control Ball Valve with Double Acting Pneumatic Actuator

Two-Piece Brass Ball Valve

- Close Off Pressure: 200 PSI
- Flow Characteristic: Modified Equal Percentage
- PTFE Seat and hard chrome plated Brass ball
- 300:1 turndown ratio for precise control
- Wide Cv range for various HVAC applications
- Option for Full port Ball

Double Acting High-Pressure Pneumatic Actuator

- Die Cast Aluminum Alloy Body
- Torque Range: 124 in-lb to 40,519 in-lb
- 60 -110 PSI Air Supply Required
- Standard NAMUR mounts
- Refer to Section V for detailed actuator information



Refer to Section VI For Accessories

For Two-Position Control Refer to:

- Solenoid Control Valve
- Limit Switch Box

For Modulating Control Refer to:

- Pneumatic Positioner
- Electro-Pneumatic Positioner
- Dome Indicator Positioner

SIZE IN	VALVE MODEL	ACTUATOR MODEL	A	B	C	D	E	WEIGHT (LB)
1/2	BV-050-XX	C-DA045	2.26	4.45	4.80	1.44	1.12	2.7
3/4	BV-075-XX	C-DA045	2.54	4.59	4.80	1.44	1.12	3.0
1	BV-100-XX	C-DA045	3.02	4.77	4.80	1.44	1.12	3.2
1 1/4	BV-125-XX	C-DA045	3.46	4.98	4.80	1.44	1.12	3.9
1 1/2	BV-150-XX	C-DA045	4.04	5.25	4.80	1.44	1.12	4.5
2	BV-200-XX	C-DA045	4.33	7.25	4.80	1.44	1.22	6.4

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Series E • C-SR

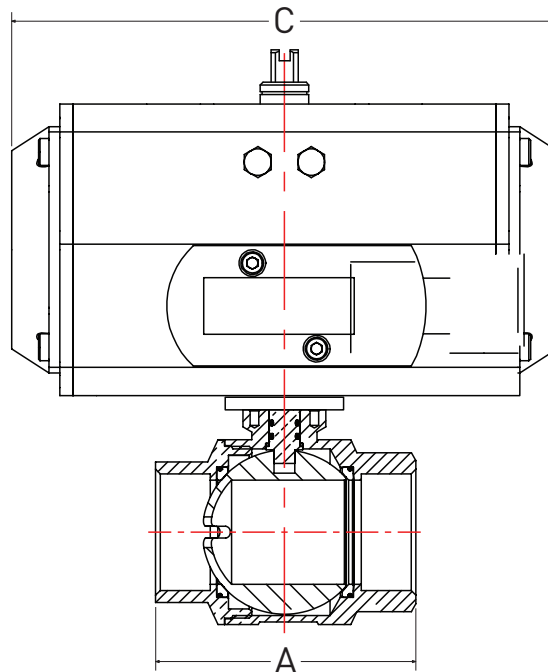
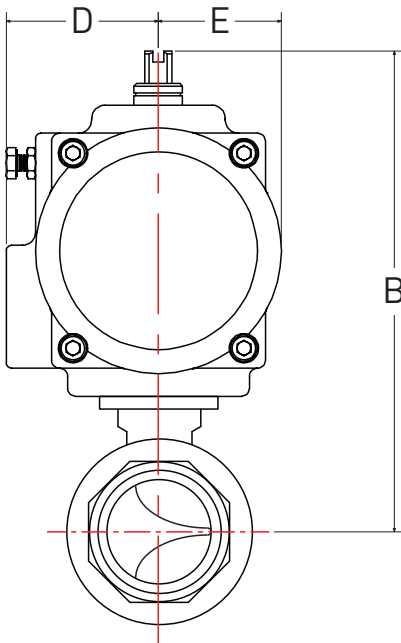
V-Port Control Ball Valve with Spring Return Pneumatic Actuator

Two-Piece Brass Ball Valve

- Close Off Pressure: 200 PSI
- Flow Characteristic: Modified Equal Percentage
- PTFE Seat and hard chrome plated Brass ball
- 300:1 turndown ratio for precise control
- Wide Cv range for various HVAC applications
- Option for Full port Ball

Spring Return High-Pressure Pneumatic Actuator

- Die Cast Aluminum Alloy Body
- Torque Range: 124 in-lb to 15,500 in-lb
- 60 -110 PSI Air Supply Required
- Standard NAMUR mounts
- Refer to Section V for detailed actuator information



Refer to Section VI For Accessories

For Two-Position Control Refer to:
-Solenoid Control Valve
-Limit Switch Box

For Modulating Control Refer to:
-Pneumatic Positioner
-Electro-Pneumatic Positioner
-Dome Indicator Positioner

SIZE IN	VALVE MODEL	ACTUATOR MODEL	A	B	C	D	E	WEIGHT (LB)
1/2	BV-050-XX	C-SR045	2.26	4.45	4.80	1.44	1.12	2.9
3/4	BV-075-XX	C-SR045	2.54	4.59	4.80	1.44	1.12	3.2
1	BV-100-XX	C-SR045	3.02	4.77	4.80	1.44	1.12	3.4
1 1/4	BV-125-XX	C-SR045	3.46	4.98	4.80	1.44	1.12	4.1
1 1/2	BV-150-XX	C-SR045	4.04	5.25	4.80	1.44	1.12	4.7
2	BV-200-XX	C-SR045	4.33	7.25	4.80	1.44	1.22	6.6

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Series E • Damper

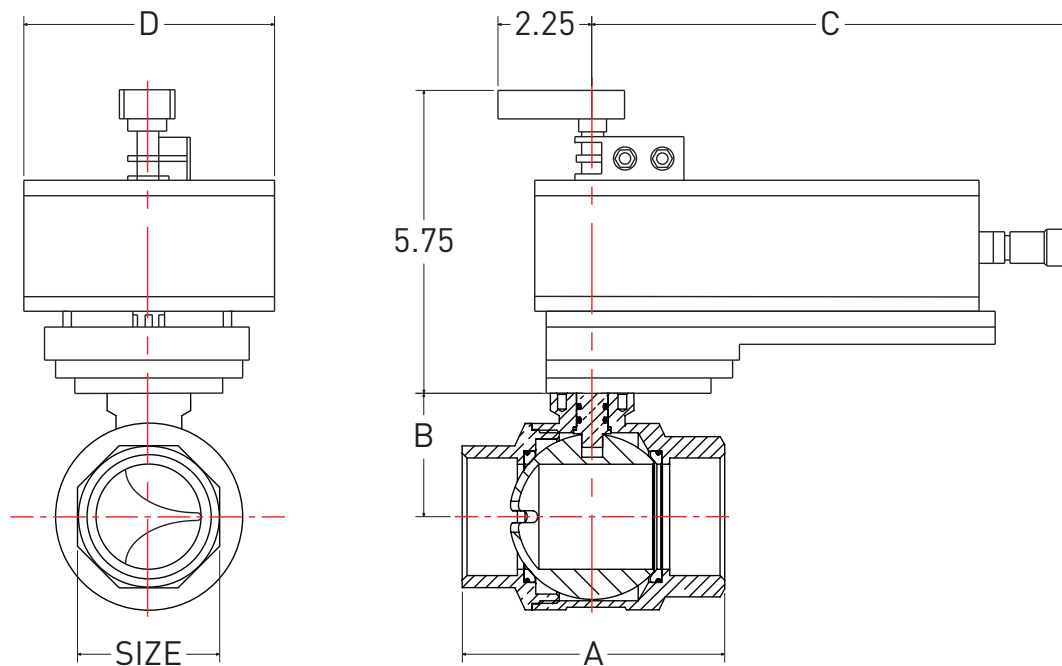
V-Port Control Ball Valve with Damper Actuator

Two-Piece Brass Ball Valve

- Close Off Pressure: 200 PSI
- Flow Characteristic: Modified Equal Percentage
- PTFE Seat and hard chrome plated Brass ball
- 300:1 turndown ratio for precise control
- Wide Cv range for various HVAC applications
- Option for Full port Ball

Two-Position/Modulating Damper Actuator

- Spring and Non-Spring Return Option
- Two-Position or Modulating Control
- Wide range of HVAC damper actuators
- Contact VSI for Damper Actuator Assemblies



SIZE	VALVE MODEL	NON-SPRING RETURN						WEIGHT (LB)	SPRING RETURN						WEIGHT (LB)
		A	B	C		D			A	B	C		D		
				MIN	MAX*	MIN	MAX*				MIN	MAX*	MIN	MAX*	
1/2	BV-050-XX	2.20	1.06	5.60	7.38	2.70	3.94	2.00	2.20	1.06	5.60	7.38	2.70	3.94	4.05
3/4	BV-075-XX	2.52	1.20	5.60	7.38	2.70	3.94	2.30	2.52	1.20	5.60	7.38	2.70	3.94	4.35
1	BV-100-XX	2.91	1.38	5.60	7.38	2.70	3.94	2.60	2.91	1.38	5.60	7.38	2.70	3.94	4.65
1¼	BV-125-XX	3.35	1.59	5.60	7.38	2.70	3.94	3.85	3.35	1.59	5.60	7.38	2.70	3.94	6.60
1½	BV-150-XX	3.90	1.86	5.60	8.69	2.70	3.94	4.45	3.90	1.86	5.60	8.69	2.70	3.94	7.20
2	BV-150-XX	4.33	2.10	5.60	8.69	2.70	3.94	6.35	4.33	2.10	5.60	8.69	2.70	3.94	9.10

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Series E • TR24

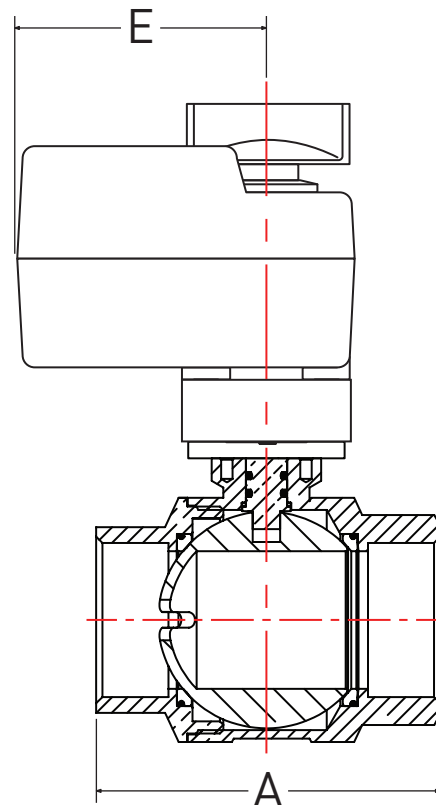
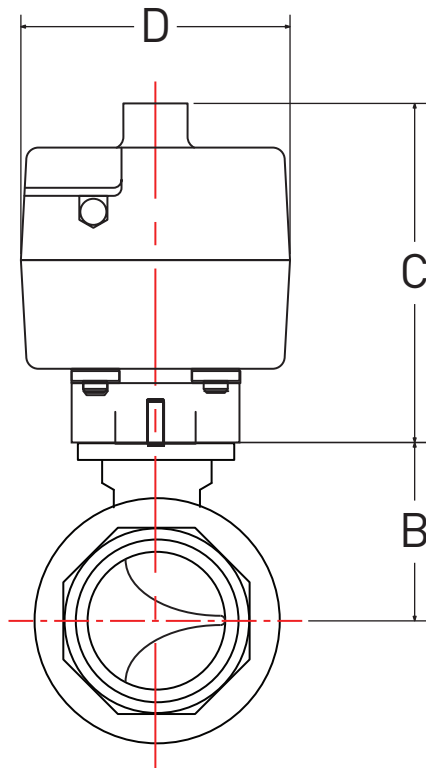
V-Port Control Ball Valve with 24VAC Electric Actuator

Two-Piece Brass Ball Valve

- Close Off Pressure: 200 PSI
- Flow Characteristic: Modified Equal Percentage
- PTFE Seat and hard chrome plated Brass ball
- 300:1 turndown ratio for precise control
- Wide Cv range for various HVAC applications
- Option for Full port Ball

24VAC Electric Actuator

- Available in Floating Point or Modulating Control
- Output Torque: 18 in-lb
- NEMA 1/IP40 Housing
- Manual Override
- Terminal Strip



SIZE IN	VALVE MODEL	ACTUATOR MODEL	A	B	C	D	E	WEIGHT (LB)
1/2	BV-050-XX	TR24-XX	2.20	6.21	3.55	2.62	2.50	1.0
3/4	BV-075-XX	TR24-XX	2.52	6.35	3.55	2.62	2.50	1.3

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Notes





Section IV: Butterfly Valves

VSI offers various Series of butterfly valves: the Series 2100 Resilient Seat butterfly valves are primarily used in commercial applications; the Series 2200 Replaceable Resilient Seat butterfly valves and the Series 9000 Double Offset High-Performance butterfly valves are ideal for industrial applications.

The Series 2100 is available in sizes 2" thru 30". Options include a full rated (200 PSI close off) or undercut (100 PSI close off) disc. Standard features include:

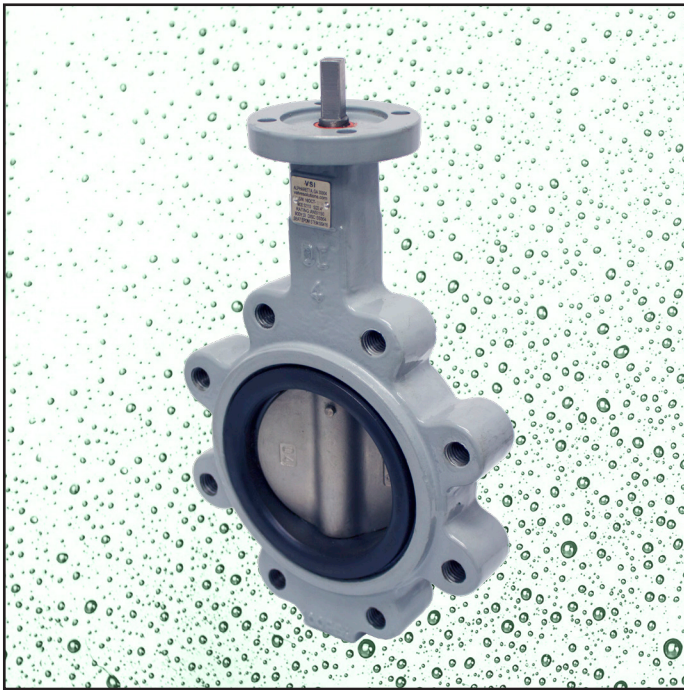
- Ductile iron body
- SS304 disc
- EPDM seat
- 100/200 PSI close off
- Standard ISO 5211 mount square shaft

The Series 2200 has the same features as the Series 2100 but includes a replaceable seat. Seat options include EPDM, NBR, and Viton

The Series 9000 is available in sizes 2" thru 12" and provides 285 PSI close off. Standard features include:

- Carbon steel or SS body
- SS316 disc
- RTFE seat
- 285 PSI close off
- Standard ISO 5211 mount square shaft
- Adjustable packing gland



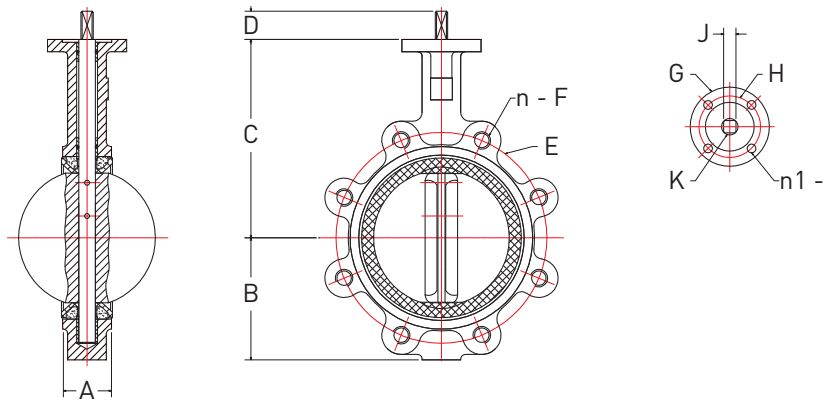


Series 2110

100 PSI Butterfly Valve

Resilient Seated Butterfly Valve

- Applications: HVAC Chillers, Cooling Towers, Boilers, Wastewater, and Pipelines, Paper and Pulp
- Ductile Iron Body
- End Fitting Connection: Lugged ANSI Class 125/150 Flanged
- Max Close-off Pressure: 100 PSI
- Temperature Range: -22° - 250 °F
- Flow Characteristic: Modified Equal Percentage
- Leakage: Bubble Tight Shutoff
- Max Fluid Velocity: 30 FPS
- Bi-directional body and seat design



SIZE IN	VALVE MODEL	A	B	C	D	E	n-F	G	H	n1-I	J	K	WEIGHT (LB)
2	S2110SS-02	1.69	3.15	6.34	1.14	4.75	4 - 5/8-11	2.56	1.97	4-0.315	0.35	0.48	8
2½	S2110SS-02.5	1.81	3.50	6.89	1.14	5.50	4 - 5/8-11	2.56	1.97	4-0.315	0.35	0.48	9
3	S2110SS-03	1.81	3.74	7.13	1.14	6.00	4 - 5/8-11	2.56	1.97	4-0.315	0.35	0.48	10
4	S2110SS-04	2.05	4.49	7.87	1.14	7.50	8 - 5/8-11	3.54	2.76	4-0.394	0.43	0.56	15
5	S2110SS-05	2.21	5.00	8.39	1.14	8.50	8 - 3/4-10	3.54	2.76	4-0.394	0.55	0.71	21
6	S2110SS-06	2.21	5.47	8.90	1.14	9.50	8 - 3/4-10	3.54	2.76	4-0.394	0.55	0.71	24
8	S2110SS-08	2.36	6.89	10.24	1.38	11.75	8 - 3/4-10	4.92	4.02	4-0.472	0.67	0.87	38
10	S2110SS-10	2.68	7.99	11.50	1.38	14.25	12 - 7/8-9	4.92	4.02	4-0.472	0.87	1.11	56
12	S2110SS-12	3.07	9.53	13.27	1.38	17.00	12 - 7/8-9	4.92	4.02	4-0.472	0.87	1.11	86
14	S2110SS-14	3.07	10.51	14.49	1.77	18.75	12 - 1-8	4.92	4.02	4-0.472	0.87	1.11	129
16	S2110SS-16	4.02	11.69	15.75	2.02	21.25	16 - 1-8	6.89	5.51	4-0.709	0.87	1.11	193
18	S2110SS-18	4.49	12.52	16.61	2.02	22.75	16 - 1½-7	6.89	5.51	4-0.709	1.06	1.43	242
20	S2110SS-20	5.00	13.70	18.90	2.53	25.00	20 - 1½-7	6.89	5.51	4-0.709	1.06	1.43	323
24	S2110SS-24	6.06	17.48	22.13	2.76	29.50	20 - 1¾-7	8.27	6.50	4-0.866	1.42	1.90	540





Series 2110 • 1000-X

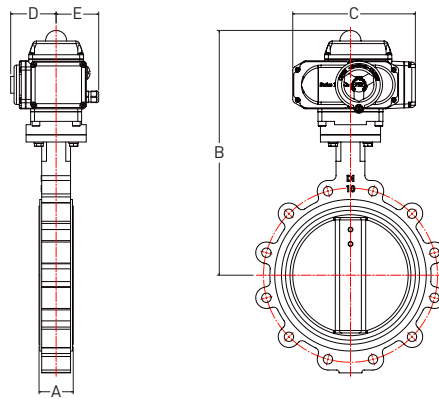
Two-Way 100 PSI Butterfly Valve with Two-Position Electric Actuator

Resilient Seated Butterfly Valve

- Ductile Iron Body
- Max Close-off Pressure: 100 PSI
- Temperature Range: -22° - 250 °F
- Flow Characteristic: Modified Equal Percentage
- Leakage: Bubble Tight Shutoff
- Max Fluid Velocity: 30 FPS

Two-Position Electric Actuator

- 110VDC, 24 VDC, 220VAC, and 24VAC Electric Actuator
- Certifications: CE, NRTL, CSA
- NEMA 4 / 4X watertight, Aluminum Housing
- Torque Output Range: 443 in-lb to 22,127 in-lb
- Handwheel available on 1010-X and higher
- Refer to Section V for detailed actuator information



SIZE IN	VALVE MODEL	ACTUATOR MODEL	A	B	C	D	E	WEIGHT (LB)
2	S2110SS-02	1005-X	1.69	12.66	6.32	2.48	2.87	14
2½	S2110SS-02.5	1005-X	1.81	13.44	6.32	2.48	2.87	15
3	S2110SS-03	1005-X	1.81	13.44	6.32	2.48	2.87	16
4	S2110SS-04	1005-X	2.05	14.19	6.32	2.48	2.87	22
5	S2110SS-05	1005-X	2.21	14.70	6.32	2.48	2.87	27
6	S2110SS-06	1010-X	2.21	16.02	7.13	2.80	2.91	33
8	S2110SS-08	1020-X	2.36	18.82	8.58	3.74	3.43	58
10	S2110SS-10	1020-X	2.68	20.08	8.58	3.74	3.43	76
12	S2110SS-12	1040-X	3.07	21.85	8.58	3.74	3.43	107
14	S2110SS-14	1040-X	3.07	23.07	8.58	3.74	3.43	150
16	S2110SS-16	1100-X	4.02	25.35	9.61	5.12	4.37	234
18	S2110SS-18	1100-X	4.49	26.22	9.61	5.12	4.37	283
20	S2110SS-20	1160-X	5.00	28.50	9.61	5.12	4.37	364
24	S2110SS-24	1250-X	6.06	31.73	9.61	5.12	4.37	582





Series 2110 • 1000-X

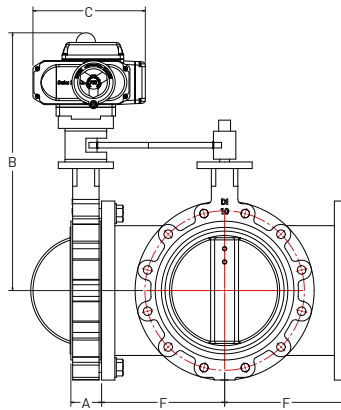
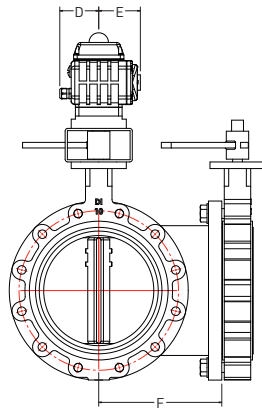
Three-Way 100 PSI Butterfly Valve with Two-Position Electric Actuator

Resilient Seated Butterfly Valve

- Ductile Iron Body
- Max Close-off Pressure: 100 PSI
- Temperature Range: -22° - 250 °F
- Flow Characteristic: Modified Equal Percentage
- Leakage: Bubble Tight Shutoff
- Max Fluid Velocity: 30 FPS

Two-Position Electric Actuator

- 110VDC, 24 VDC, 220VAC, and 24VAC Electric Actuator
- Certifications: CE, NRTL, CSA
- NEMA 4 / 4X watertight, Aluminum Housing
- Torque Output Range: 443 in-lb to 22,127 in-lb
- Handwheel available on 1010-X and higher
- Refer to Section V for detailed actuator information



SIZE IN	VALVE MODEL	ACTUATOR MODEL	A	B	C	D	E	F	WEIGHT (LB)
2	S2110SS-02	1005-X	1.69	14.66	6.30	2.87	2.48	4.50	56
2½	S2110SS-02.5	1005-X	1.81	15.21	6.30	2.87	2.48	5.00	66
3	S2110SS-03	1005-X	1.81	15.45	6.30	2.87	2.48	5.50	80
4	S2110SS-04	1010-X	2.05	17.00	7.72	2.91	2.48	6.50	120
5	S2110SS-05	1010-X	2.21	17.52	7.72	2.91	2.80	7.50	156
6	S2110SS-06	1010-X	2.21	18.03	7.72	2.91	2.80	8.00	172
8	S2110SS-08	1020-X	2.36	20.82	10.04	3.43	3.74	9.00	271
10	S2110SS-10	1020-X	2.68	22.08	10.04	3.43	3.74	11.00	427
12	S2110SS-12	1040-X	3.07	23.85	10.04	3.43	3.74	12.00	603
14	S2110SS-14	1060-X	3.07	25.07	10.04	3.43	3.74	14.00	739
16	S2110SS-16	1100-X	4.02	28.36	12.20	4.37	5.12	15.00	1002
18	S2110SS-18	1100-X	4.49	29.22	12.20	4.37	5.12	16.50	1215
20	S2110SS-20	1160-X	5.00	31.51	12.20	4.37	5.12	18.00	1573
24	S2110SS-24	1250-X	6.06	34.74	12.20	4.37	5.12	22.00	2222





Series 2110 • 1000/S-X

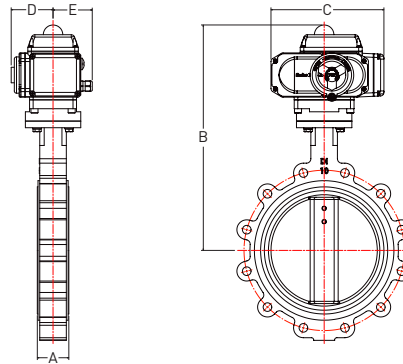
Two-Way 100 PSI Butterfly Valve with Modulating Electric Actuator

Resilient Seated Butterfly Valve

- Ductile Iron Body
- Max Close-off Pressure: 100 PSI
- Temperature Range: -22° - 250 °F
- Flow Characteristic: Modified Equal Percentage
- Leakage: Bubble Tight Shutoff
- Max Fluid Velocity: 30 FPS

Modulating Control Electric Actuator

- 110VDC, 24 VDC, 220VAC, and 24VAC Electric Actuator
- Certifications: CE, NRTL, CSA
- NEMA 4 / 4X watertight, Aluminum Housing
- Control Signal: 2-10 VDC or 4-20 mA
- Torque Output Range: 443 in-lb to 22,127 in-lb
- Handwheel available on 1010/S-X and higher
- Refer to Section V for detailed actuator information



SIZE IN	VALVE MODEL	ACTUATOR MODEL	A	B	C	D	E	WEIGHT (LB)
2	S2110SS-02	1005/S-X	1.69	12.66	6.32	2.48	2.87	15
2½	S2110SS-02.5	1005/S-X	1.81	13.44	6.32	2.48	2.87	16
3	S2110SS-03	1005/S-X	1.81	13.44	6.32	2.48	2.87	16
4	S2110SS-04	1005/S-X	2.05	14.19	6.32	2.48	2.87	22
5	S2110SS-05	1005/S-X	2.21	14.70	6.32	2.48	2.87	28
6	S2110SS-06	1010/S-X	2.21	16.02	7.13	2.80	2.91	34
8	S2110SS-08	1020/S-X	2.36	18.82	8.58	3.74	3.43	59
10	S2110SS-10	1020/S-X	2.68	20.08	8.58	3.74	3.43	77
12	S2110SS-12	1040/S-X	3.07	21.85	8.58	3.74	3.43	108
14	S2110SS-14	1040/S-X	3.07	23.07	8.58	3.74	3.43	151
16	S2110SS-16	1100/S-X	4.02	25.35	9.61	5.12	4.37	234
18	S2110SS-18	1100/S-X	4.49	26.22	9.61	5.12	4.37	284
20	S2110SS-20	1160/S-X	5.00	28.50	9.61	5.12	4.37	365
24	S2110SS-24	1250/S-X	6.06	31.73	9.61	5.12	4.37	583





Series 2110 • 1000/S-X

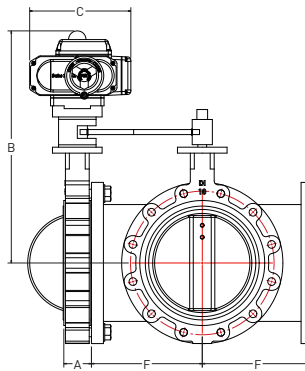
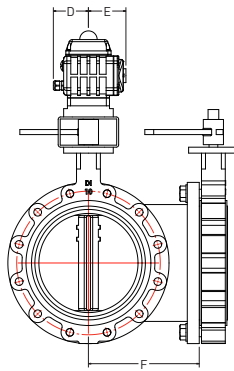
Three-Way 100 PSI Butterfly Valve with Modulating Electric Actuator

Resilient Seated Butterfly Valve

- Ductile Iron Body
- Max Close-off Pressure: 100 PSI
- Temperature Range: -22° - 250 °F
- Flow Characteristic: Modified Equal Percentage
- Leakage: Bubble Tight Shutoff
- Max Fluid Velocity: 30 FPS

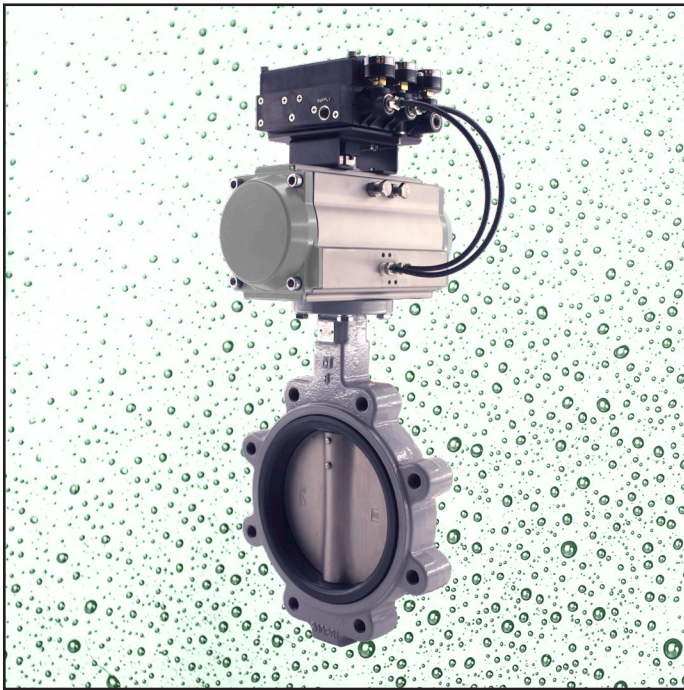
Modulating Control Electric Actuator

- 110VDC, 24 VDC, 220VAC, and 24VAC Electric Actuator
- Certifications: CE, NRTL, CSA
- NEMA 4 / 4X watertight, Aluminum Housing
- Control Signal: 2-10 VDC or 4-20 mA
- Torque Output Range: 443 in-lb to 22,127 in-lb
- Handwheel available on 1010/S-X and higher
- Refer to Section V for detailed actuator information



SIZE IN	VALVE MODEL	ACTUATOR MODEL	A	B	C	D	E	F	WEIGHT (LB)
2	S2110SS-02	1005/S-X	1.69	14.66	6.30	2.87	2.48	4.50	57
2½	S2110SS-02.5	1005/S-X	1.81	15.21	6.30	2.87	2.48	5.00	67
3	S2110SS-03	1005/S-X	1.81	15.45	6.30	2.87	2.48	5.50	81
4	S2110SS-04	1010/S-X	2.05	17.00	7.72	2.91	2.48	6.50	121
5	S2110SS-05	1010/S-X	2.21	17.52	7.72	2.91	2.80	7.50	155
6	S2110SS-06	1010/S-X	2.21	18.03	7.72	2.91	2.80	8.00	173
8	S2110SS-08	1020/S-X	2.36	20.82	10.04	3.43	3.74	9.00	272
10	S2110SS-10	1020/S-X	2.68	22.08	10.04	3.43	3.74	11.00	428
12	S2110SS-12	1040/S-X	3.07	23.85	10.04	3.43	3.74	12.00	604
14	S2110SS-14	1060/S-X	3.07	25.07	10.04	3.43	3.74	14.00	740
16	S2110SS-16	1100/S-X	4.02	28.36	12.20	4.37	5.12	15.00	1002
18	S2110SS-18	1100/S-X	4.49	29.22	12.20	4.37	5.12	16.50	1215
20	S2110SS-20	1160/S-X	5.00	31.51	12.20	4.37	5.12	18.00	1573
24	S2110SS-24	1250/S-X	6.06	34.74	12.20	4.37	5.12	22.00	2223





Series 2110 • C-DA

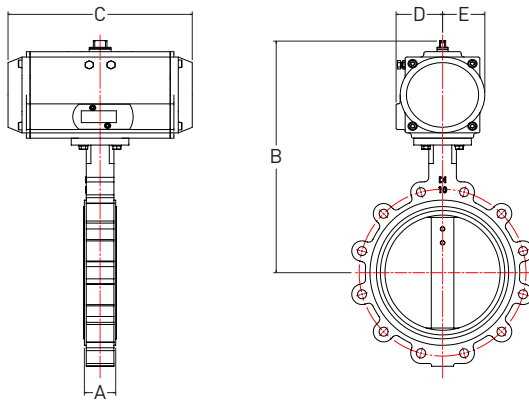
Two-Way 100 PSI Butterfly Valve with Double Acting Pneumatic Actuator

Resilient Seated Butterfly Valve

- Ductile Iron Body
- Max Close-off Pressure: 100 PSI
- Temperature Range: -22° - 250 °F
- Flow Characteristic: Modified Equal Percentage
- Leakage: Bubble Tight Shutoff
- Max Fluid Velocity: 30 FPS

Double Acting High-Pressure Pneumatic Actuator

- Die Cast Aluminum Alloy Body
- Torque Range: 124 in-lb to 40,519 in-lb
- 60 -110 PSI Air Supply Required
- Standard NAMUR mounts
- Refer to Section V for detailed actuator information



Refer to Section VI For Accessories

For Two-Position Control Refer to:

- Solenoid Control Valve
- Limit Switch Box

For Modulating Control Refer to:

- Pneumatic Positioner
- Electro-Pneumatic Positioner
- Dome Indicator Positioner

SIZE IN	VALVE MODEL	ACTUATOR MODEL	A	B	C	D	E	WEIGHT (LB)
2	S2110SS-02	C-DA063	1.69	10.57	6.61	1.85	1.42	12
2½	S2110SS-02.5	C-DA063	1.81	11.12	6.61	1.85	1.42	14
3	S2110SS-03	C-DA063	1.81	11.36	6.61	1.85	1.42	14
4	S2110SS-04	C-DA083	2.05	12.94	8.03	2.24	1.81	22
5	S2110SS-05	C-DA083	2.21	13.46	8.03	2.24	1.81	28
6	S2110SS-06	C-DA092	2.21	14.27	10.31	2.30	1.97	34
8	S2110SS-08	C-DA105	2.36	16.26	10.55	2.52	2.26	51
10	S2110SS-10	C-DA125	2.68	18.39	11.85	2.93	2.66	75
12	S2110SS-12	C-DA140	3.07	20.83	15.35	3.03	2.95	115
14	S2110SS-14	C-DA160	3.07	23.03	18.03	3.43	3.43	170
16	S2110SS-16	C-DA190	4.02	25.99	20.67	4.06	4.06	260
18	S2110SS-18	C-DA190	4.49	26.85	20.67	4.06	4.06	309
20	S2110SS-20	C-DA210	5.00	30.12	20.94	4.45	4.45	406
24	S2110SS-24	C-DA270	6.06	36.15	28.43	5.79	5.79	725





Series 2110 •DA

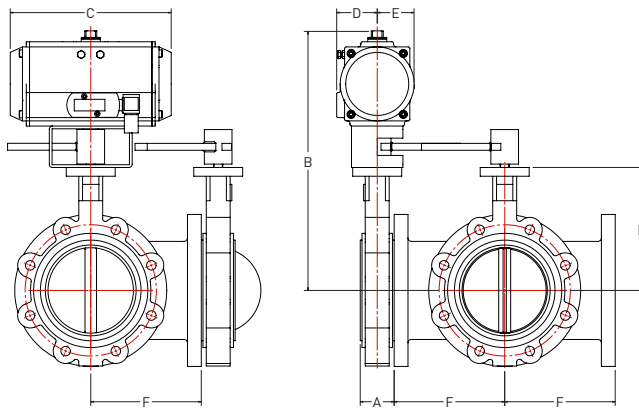
Three-Way 100 PSI Butterfly Valve with Double Acting Pneumatic Actuator

Resilient Seated Butterfly Valve

- Ductile Iron Body
- Max Close-off Pressure: 100 PSI
- Temperature Range: -22° - 250 °F
- Flow Characteristic: Modified Equal Percentage
- Leakage: Bubble Tight Shutoff
- Max Fluid Velocity: 30 FPS

Double Acting High-Pressure Pneumatic Actuator

- Die Cast Aluminum Alloy Body
- Torque Range: 124 in-lb to 40,519 in-lb
- 60 -110 PSI Air Supply Required
- Standard NAMUR mounts
- Refer to Section V for detailed actuator information



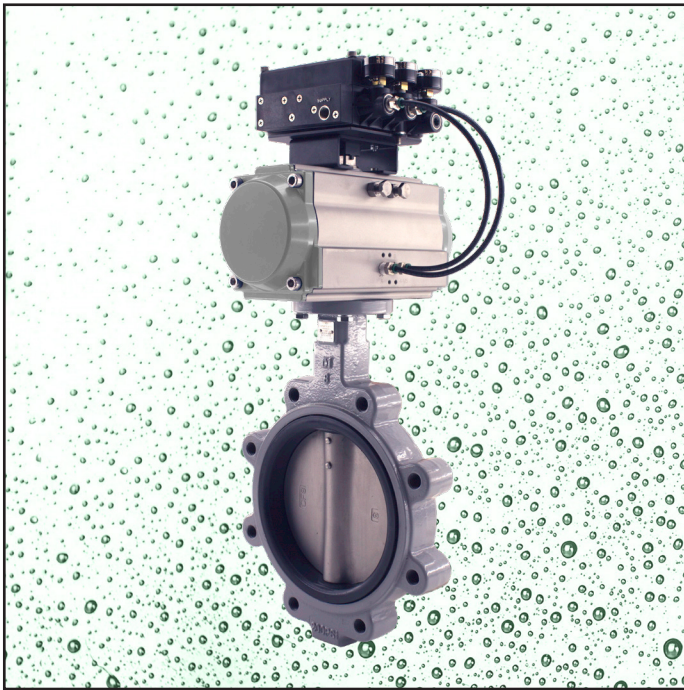
Refer to Section VI For Accessories

For Two-Position Control Refer to:
 -Solenoid Control Valve
 -Limit Switch Box

For Modulating Control Refer to:
 -Pneumatic Positioner
 -Electro-Pneumatic Positioner
 -Dome Indicator Positioner

SIZE IN	VALVE MODEL	ACTUATOR MODEL	A	B	C	D	E	F	WEIGHT (LB)
2	S2110SS-02	C-DA063	1.69	11.78	6.61	1.85	1.42	4.50	55
2½	S2110SS-02.5	C-DA063	1.81	12.33	6.61	1.85	1.42	5.00	65
3	S2110SS-03	C-DA063	1.81	12.57	6.61	1.85	1.42	5.50	79
4	S2110SS-04	C-DA083	2.05	14.15	8.03	2.24	1.81	6.50	117
5	S2110SS-05	C-DA083	2.21	14.67	8.03	2.24	1.81	7.50	153
6	S2110SS-06	C-DA092	2.21	15.49	10.31	2.30	1.97	8.00	172
8	S2110SS-08	C-DA105	2.36	18.48	10.55	2.52	2.26	9.00	264
10	S2110SS-10	C-DA125	2.68	20.60	11.85	2.93	2.66	11.00	426
12	S2110SS-12	C-DA140	3.07	23.04	15.35	3.03	2.95	12.00	611
14	S2110SS-14	C-DA160	3.07	25.25	18.03	3.43	3.43	14.00	759
16	S2110SS-16	C-DA190	4.02	30.81	20.67	4.06	4.06	15.00	1028
18	S2110SS-18	C-DA210	4.49	32.65	20.94	4.45	4.45	16.50	1257
20	S2110SS-20	C-DA240	5.00	37.46	23.70	5.12	5.12	18.00	1648
24	S2110SS-24	C-DA270	6.06	40.96	28.43	5.79	5.79	22.00	2365





Series 2110 • C-SR

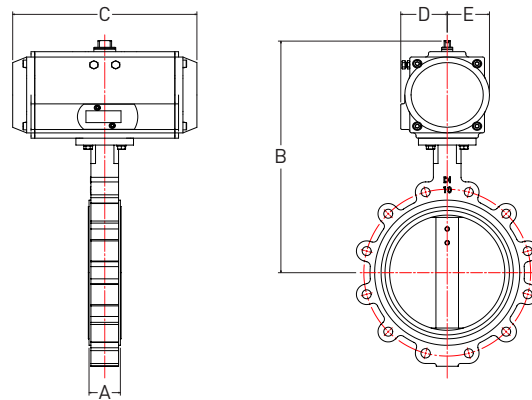
Two-Way 100 PSI Butterfly Valve with Spring Return Pneumatic Actuator

Resilient Seated Butterfly Valve

- Ductile Iron Body
- Max Close-off Pressure: 100 PSI
- Temperature Range: -22° - 250 °F
- Flow Characteristic: Modified Equal Percentage
- Leakage: Bubble Tight Shutoff
- Max Fluid Velocity: 30 FPS

Spring Return High-Pressure Pneumatic Actuator

- Die Cast Aluminum Alloy Body
- Torque Range: 124 in-lb to 15,500 in-lb
- 60 -110 PSI Air Supply Required
- Standard NAMUR mounts
- Refer to Section V for detailed actuator information



Refer to Section VI For Accessories

For Two-Position Control Refer to:

- Solenoid Control Valve
- Limit Switch Box

For Modulating Control Refer to:

- Pneumatic Positioner
- Electro-Pneumatic Positioner
- Dome Indicator Positioner

SIZE IN	VALVE MODEL	ACTUATOR MODEL	A	B	C	D	E	WEIGHT (LB)
2	S2110SS-02	C-DA0	1.69	10.57	6.61	1.85	1.42	12
2½	S2110SS-02.5	C-DA0	1.81	11.12	6.61	1.85	1.42	14
3	S2110SS-03	C-DA063	1.81	11.36	6.61	1.85	1.42	14
4	S2110SS-04	C-DA083	2.05	12.94	8.03	2.24	1.81	22
5	S2110SS-05	C-DA083	2.21	13.46	8.03	2.24	1.81	28
6	S2110SS-06	C-DA092	2.21	14.27	10.31	2.30	1.97	34
8	S2110SS-08	C-DA105	2.36	16.26	10.55	2.52	2.26	51
10	S2110SS-10	C-DA125	2.68	18.39	11.85	2.93	2.66	75
12	S2110SS-12	C-DA140	3.07	20.83	15.35	3.03	2.95	115
14	S2110SS-14	C-DA160	3.07	23.03	18.03	3.43	3.43	170
16	S2110SS-16	C-DA190	4.02	25.99	20.67	4.06	4.06	260
18	S2110SS-18	C-DA190	4.49	26.85	20.67	4.06	4.06	309
20	S2110SS-20	C-DA210	5.00	30.12	20.94	4.45	4.45	406
24	S2110SS-24	C-DA270	6.06	36.15	28.43	5.79	5.79	725





Series 2110 • C-SR

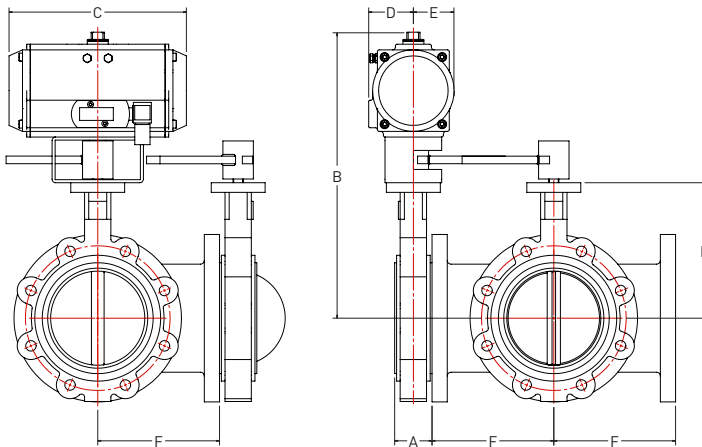
Three-Way 100 PSI Butterfly Valve with Spring Return Pneumatic Actuator

Resilient Seated Butterfly Valve

- Ductile Iron Body
- Max Close-off Pressure: 100 PSI
- Temperature Range: -22° - 250 °F
- Flow Characteristic: Modified Equal Percentage
- Leakage: Bubble Tight Shutoff
- Max Fluid Velocity: 30 FPS

Spring Return High-Pressure Pneumatic Actuator

- Die Cast Aluminum Alloy Body
- Torque Range: 124 in-lb to 15,500 in-lb
- 60 -110 PSI Air Supply Required
- Standard NAMUR mounts
- Refer to Section V for detailed actuator information



Refer to Section VI For Accessories

For Two-Position Control Refer to:

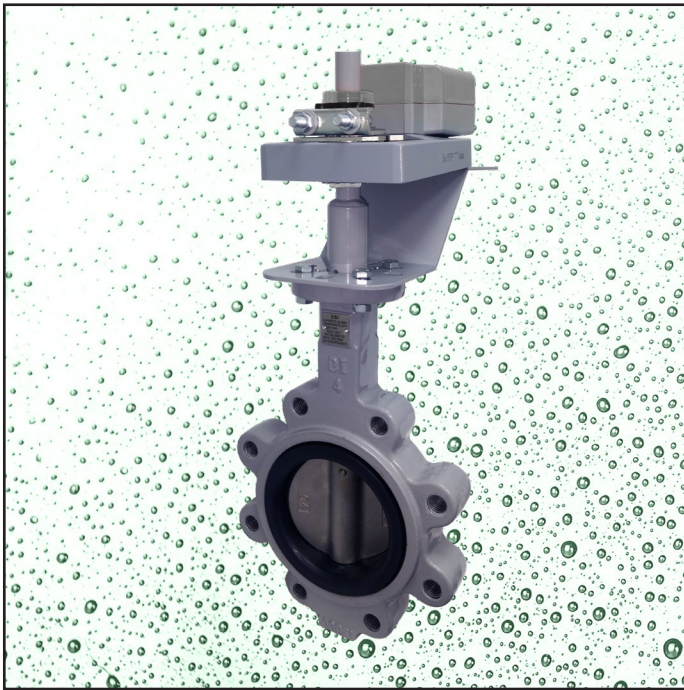
- Solenoid Control Valve
- Limit Switch Box

For Modulating Control Refer to:

- Pneumatic Positioner
- Electro-Pneumatic Positioner
- Dome Indicator Positioner

SIZE IN	VALVE MODEL	ACTUATOR MODEL	A	B	C	D	E	F	WEIGHT (LB)
2	S2110SS-02	C-SR063	1.69	11.78	6.61	1.42	4.50	4.50	55
2½	S2110SS-02.5	C-SR083	1.81	13.17	8.03	2.24	1.81	5.00	68
3	S2110SS-03	C-SR083	1.81	13.41	8.03	2.24	1.81	5.50	82
4	S2110SS-04	C-SR092	2.05	14.46	10.31	2.30	1.97	6.50	122
5	S2110SS-05	C-SR105	2.21	15.63	10.55	2.52	2.26	7.50	161
6	S2110SS-06	C-SR125	2.21	17.00	11.85	2.93	2.66	8.00	184
8	S2110SS-08	C-SR140	2.36	20.01	15.35	3.03	2.95	9.00	285
10	S2110SS-10	C-SR140	2.68	21.27	15.35	3.03	2.95	11.00	441
12	S2110SS-12	C-SR160	3.07	24.03	18.03	3.43	3.43	12.00	633
14	S2110SS-14	C-SR190	3.07	26.55	20.67	4.06	4.06	14.00	797
16	S2110SS-16	C-SR240	4.02	34.31	23.70	5.12	5.12	15.00	1104
18	S2110SS-18	C-SR270	4.49	35.44	28.43	5.79	5.79	16.50	1400
20	S2110SS-20	C-SR300	5.00	38.60	29.21	6.38	6.38	18.00	1871





Series 2110 • Damper

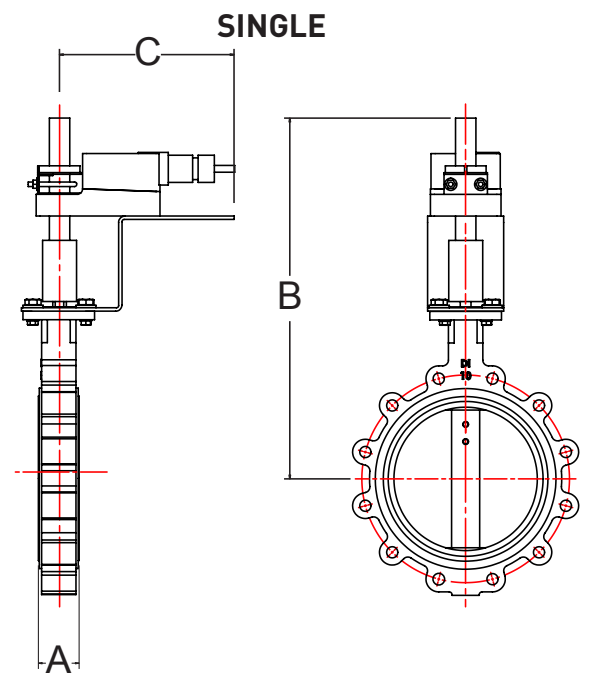
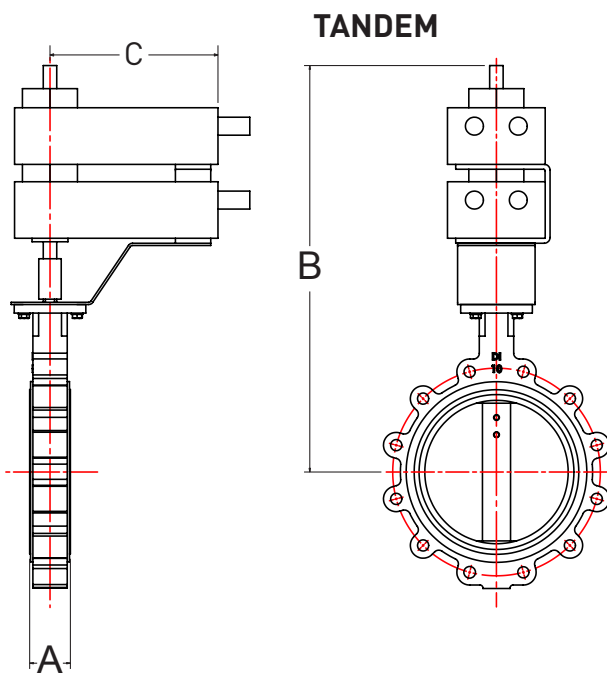
Two-Way 100 PSI Butterfly Valve with Damper Actuator

Resilient Seated Butterfly Valve

- Ductile Iron Body
- Max Close-off Pressure: 100 PSI
- Temperature Range: -22° - 250 °F
- Flow Characteristic: Modified Equal Percentage
- Leakage: Bubble Tight Shutoff
- Max Fluid Velocity: 30 FPS

Two-Position/Modulating Damper Actuator

- Spring and Non-Spring Return Option
- Two-Position or Modulating Control
- Wide range of HVAC damper actuators
- Flexible Mounting including Tandem style if necessary
- Contact VSI for Damper Actuator Assemblies



SIZE IN	VALVE MODEL	NON-SPRING RETURN			WEIGHT (LB)	SPRING RETURN			WEIGHT (LB)
		A	B	C		A	B	C	
2	S2110SS-02	1.69	14.34	7.50	13	1.69	14.34	9.35	15
2½	S2110SS-02.5	1.81	14.89	7.50	14	1.81	14.89	9.35	16
3	S2110SS-03	1.81	15.13	7.50	15	1.81	15.13	9.35	17
4	S2110SS-04	2.05	15.85	9.00	21	2.05	21.37	9.35	27
5	S2110SS-05	2.21	21.89	9.00	27	2.21	21.89	9.35	33
6	S2110SS-06	2.21	22.40	9.00	34	2.21	22.40	9.35	35

VSI

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Series 2110 • Damper

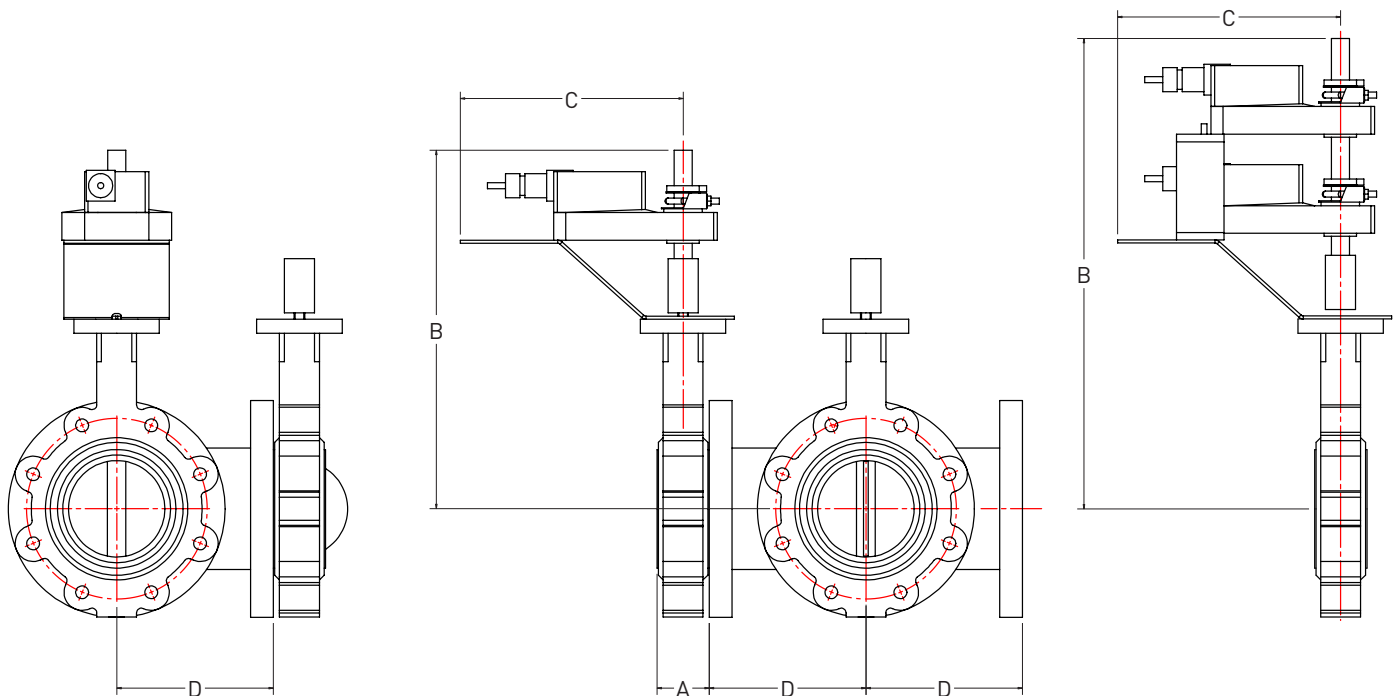
Three-Way 100 PSI Butterfly Valve with Damper Actuator

Resilient Seated Butterfly Valve

- Ductile Iron Body
- Max Close-off Pressure: 100 PSI
- Temperature Range: -22° - 250 °F
- Flow Characteristic: Modified Equal Percentage
- Leakage: Bubble Tight Shutoff
- Max Fluid Velocity: 30 FPS

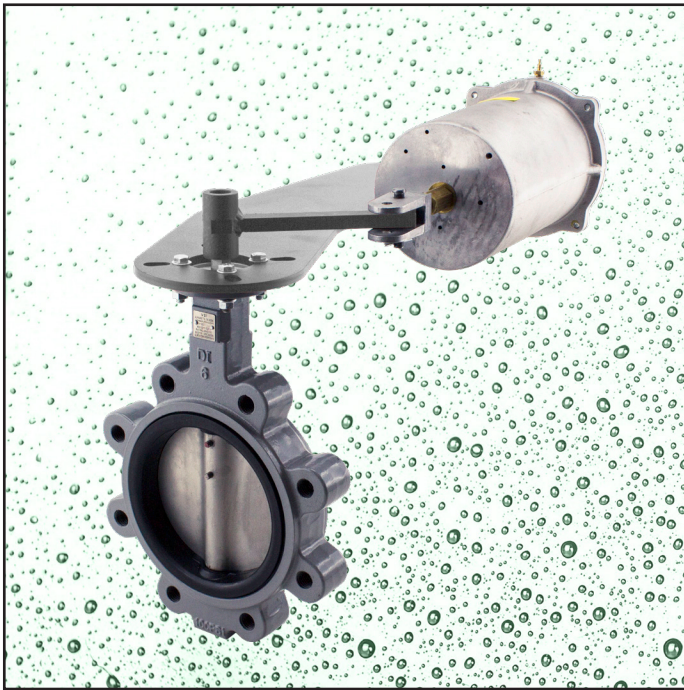
Two-Position/Modulating Damper Actuator

- Spring and Non-Spring Return Option
- Two-Position or Modulating Control
- Wide range of HVAC damper actuators
- Flexible Mounting including Tandem style if necessary
- Contact VSI for Damper Actuator Assemblies



SIZE IN	VALVE MODEL	NON-SPRING RETURN				WEIGHT (LB)	SPRING RETURN				WEIGHT (LB)
		A	B	C	D		A	B	C	D	
2	S2110SS-02	1.69	14.34	9.25	4.50	52	1.69	14.34	9.25	4.50	55
2½	S2110SS-02.5	1.81	14.89	9.25	5.00	63	1.81	14.89	9.25	5.00	65
3	S2110SS-03	1.81	15.13	9.25	5.50	76	1.81	15.13	9.25	5.50	79
4	S2110SS-04	2.05	15.87	9.25	6.50	114	2.05	21.37	9.25	6.50	120
5	S2110SS-05	2.21	21.89	9.25	7.50	153	2.21	21.89	9.25	7.50	166
6	S2110SS-06	2.21	22.40	9.25	8.00	169	2.21	22.4	9.25	8.00	180





Series 2110 • L-2P

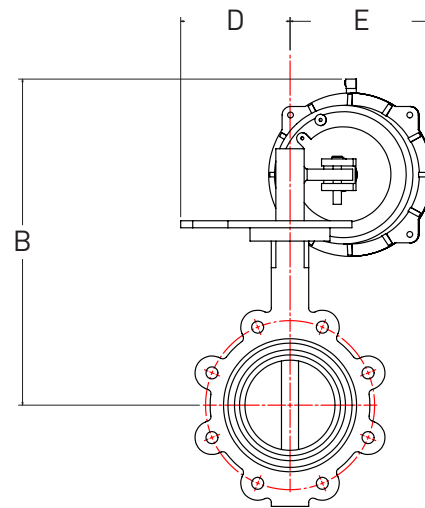
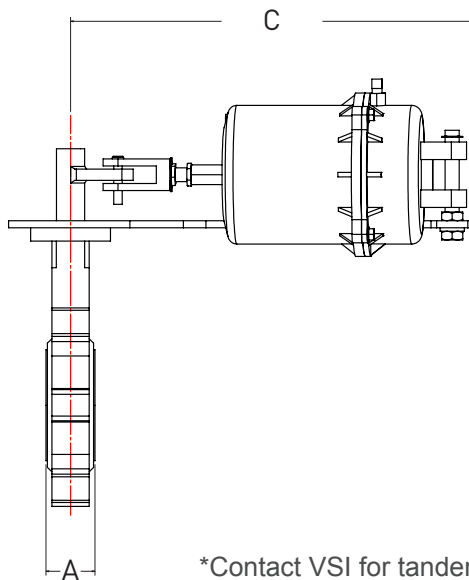
Two-Way 100 PSI Butterfly Valve with Two-Position Pneumatic Actuator

Resilient Seated Butterfly Valve

- Ductile Iron Body
- Max Close-off Pressure: 100 PSI
- Temperature Range: -22° - 250 °F
- Flow Characteristic: Modified Equal Percentage
- Leakage: Bubble Tight Shutoff
- Max Fluid Velocity: 30 FPS

Two-Position Low-Pressure Pneumatic Actuator

- Die-Cast Aluminum Body
- Diaphragm: Synthetic Elastomer
- Spring Range: 8-13 PSIG
- 25 PSI Air Supply Required
- Refer to Section V for detailed actuator information



*Contact VSI for tandem mounting details

SIZE IN	VALVE MODEL	ACTUATOR MODEL	A	B	C	D	E	WEIGHT (LB)
2	S2110SS-02	D-3153-5130	1.69	12.94	18.00	3.49	4.40	23
2½	S2110SS-02.5	D-3153-5130	1.81	13.49	18.00	3.49	4.40	24
3	S2110SS-03	D-3153-5130	1.81	13.73	18.00	3.49	4.40	25
4	S2110SS-04	D-3244-5110	2.05	14.47	18.00	4.85	6.33	45
5	S2110SS-05	D-3244-5110	2.21	14.99	18.00	4.85	6.33	51
6	S2110SS-06	D-3246-5110	2.21	14.98	22.75	5.63	7.28	73
8	S2110SS-08	D-3246-5110	2.36	14.98	22.75	5.63	7.28	87
10	S2110SS-10	D-3246-5110*	2.68	17.58	45.50	7.28	7.28	154
12	S2110SS-12	D-3246-5110*	3.07	19.35	45.50	7.28	7.28	184

VSI

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Series 2110 • L-2P

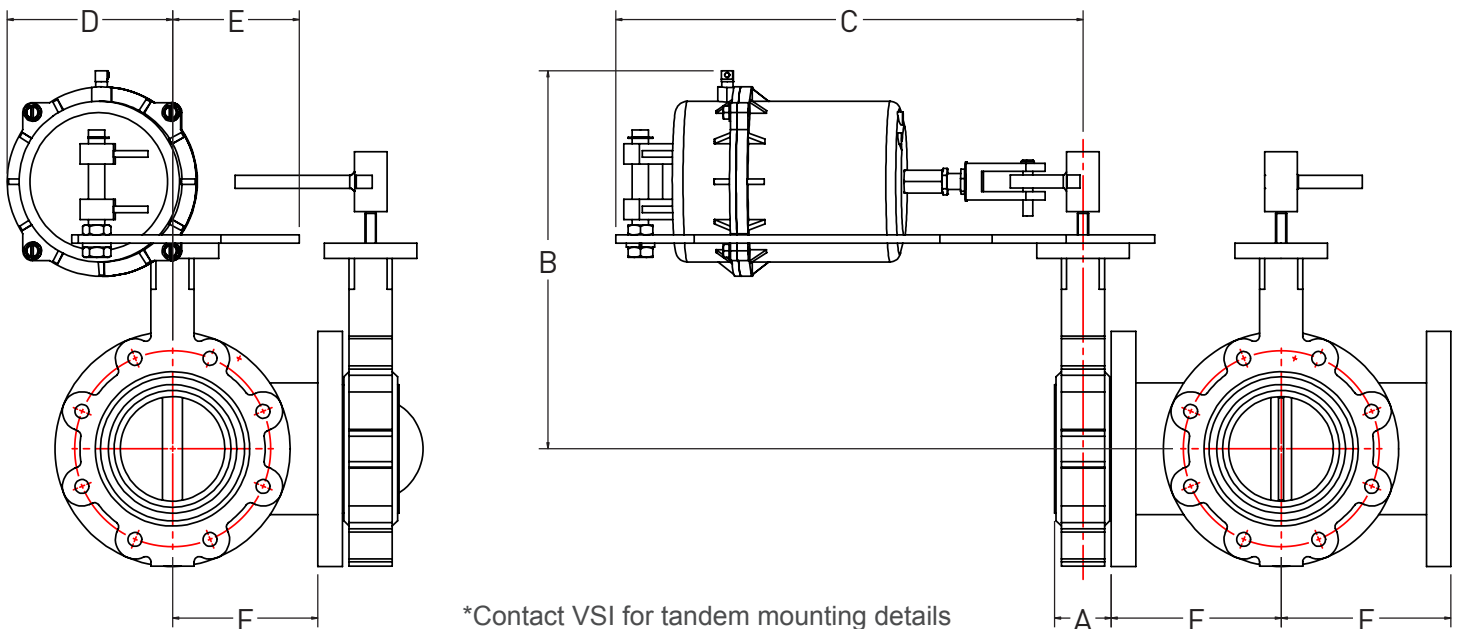
Three-Way 100 PSI Butterfly Valve with Two-Position Pneumatic Actuator

Resilient Seated Butterfly Valve

- Ductile Iron Body
- Max Close-off Pressure: 100 PSI
- Temperature Range: -22° - 250 °F
- Flow Characteristic: Modified Equal Percentage
- Leakage: Bubble Tight Shutoff
- Max Fluid Velocity: 30 FPS

Two-Position Low-Pressure Pneumatic Actuator

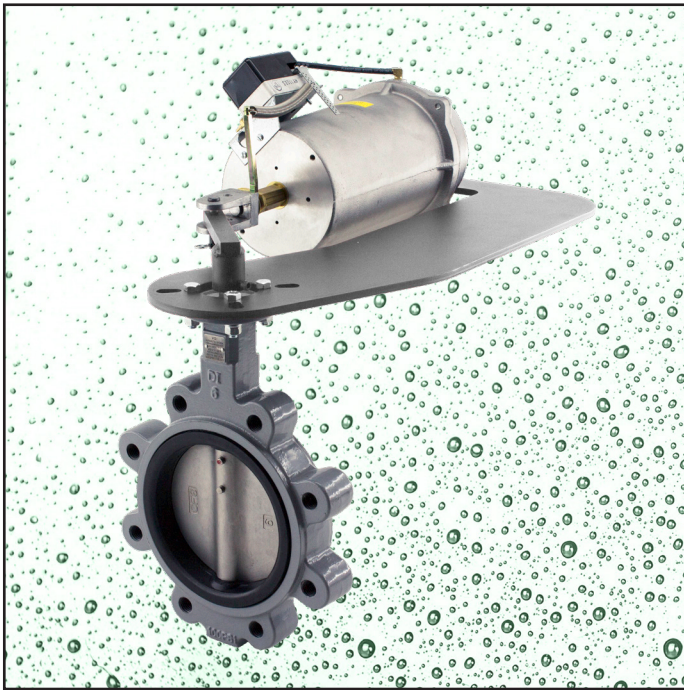
- Die-Cast Aluminum Body
- Diaphragm: Synthetic Elastomer
- Spring Range: 8-13 PSIG
- 25 PSI Air Supply Required
- Refer to Section V for detailed actuator information



SIZE IN	VALVE MODEL	ACTUATOR MODEL	A	B	C	D	E	F	WEIGHT (LB)
2	S2110SS-02	D3153-5130	1.69	12.94	18.00	4.40	3.49	4.50	63
2½	S2110SS-02.5	D3153-5130	1.81	13.49	18.00	4.40	3.49	5.00	73
3	S2110SS-03	D3244-5110	1.81	13.73	18.00	6.33	4.85	5.50	96
4	S2110SS-04	D3244-5110	2.05	14.47	18.00	6.33	4.85	6.50	132
5	S2110SS-05	D3246-5110	2.21	14.98	22.75	7.28	5.63	7.50	179
6	S2110SS-06	D3246-5110	2.21	14.98	22.75	7.28	5.63	8.00	196
8	S2110SS-08	D-3246-5110*	2.36	16.32	45.50	7.28	7.28	9.00	345
10	S2110SS-10	D-3246-5110*	2.68	17.58	45.50	7.28	7.28	11.00	381

VSI

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Series 2110 • L-MOD

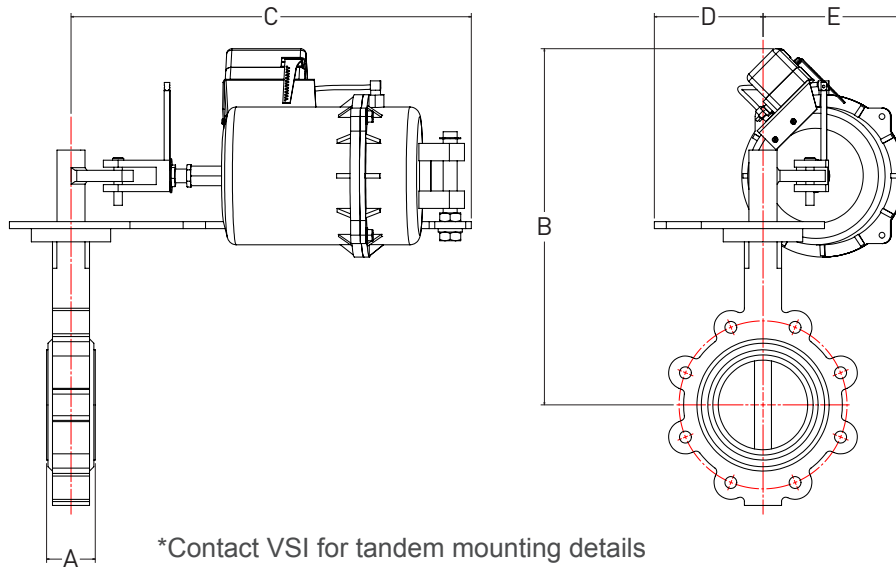
Two-Way 100 PSI Butterfly Valve with Modulating Pneumatic Actuator

Resilient Seated Butterfly Valve

- Ductile Iron Body
- Max Close-off Pressure: 100 PSI
- Temperature Range: -22° - 250 °F
- Flow Characteristic: Modified Equal Percentage
- Leakage: Bubble Tight Shutoff
- Max Fluid Velocity: 30 FPS

Modulating Low-Pressure Pneumatic Actuator

- Die-Cast Aluminum Body
- Diaphragm: Synthetic Elastomer
- 25 PSI Air Supply Required
- Adjustable Pilot Positioner: 3-15 PSI
- Refer to Section V for detailed actuator information



*Contact VSI for tandem mounting details

SIZE IN	VALVE MODEL	ACTUATOR MODEL	A	B	C	D	E	WEIGHT (LB)
2	S2110SS-02	D-3153-5120	1.69	14.46	18.00	3.49	4.40	24
2½	S2110SS-02.5	D-3153-5120	1.81	14.99	18.00	3.49	4.40	25
3	S2110SS-03	D-3153-5120	1.81	15.23	18.00	3.49	4.40	26
4	S2110SS-04	D-3244-5100	2.05	15.97	18.00	4.85	6.33	47
5	S2110SS-05	D-3244-5100	2.21	16.49	18.00	4.85	6.33	53
6	S2110SS-06	D-3246-5100	2.21	17.00	22.75	5.63	7.28	75
8	S2110SS-08	D-3246-5100	2.36	18.34	22.75	5.63	7.28	89
10	S2110SS-10	D-3246-5100*	2.68	19.60	45.50	7.28	7.28	156
12	S2110SS-12	D-3246-5100*	3.07	21.37	45.50	7.28	7.28	188

VSI

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Series 2110 • L-MOD

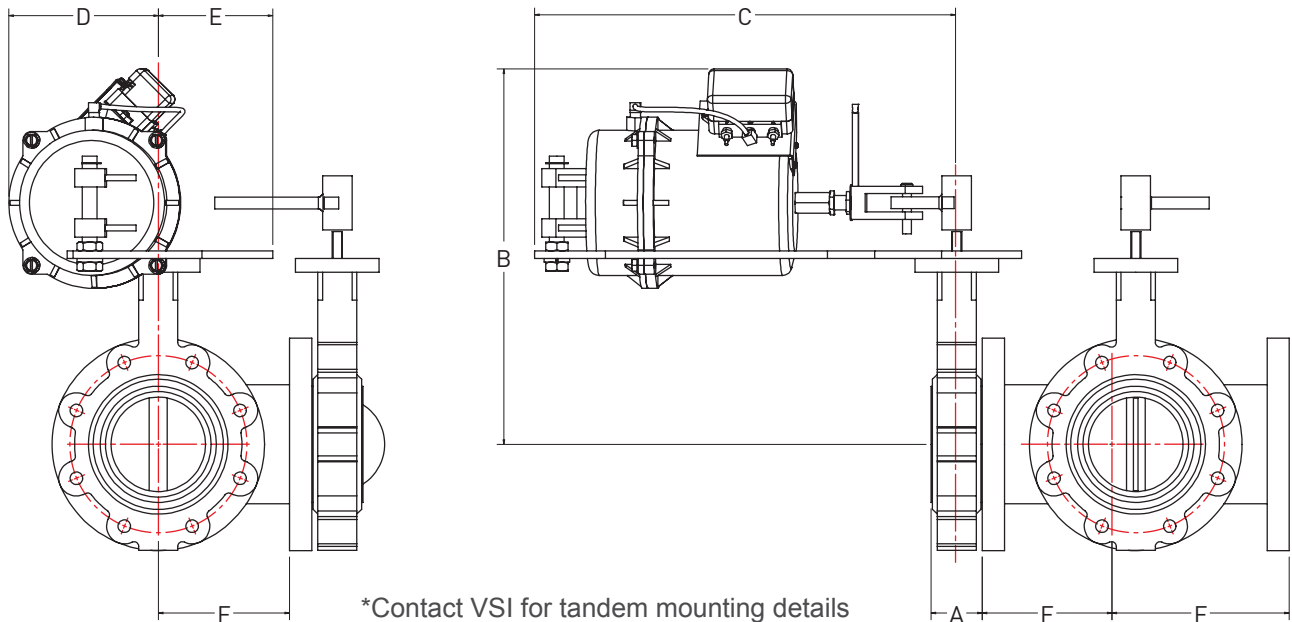
Three-Way 100 PSI Butterfly Valve with Modulating Pneumatic Actuator

Resilient Seated Butterfly Valve

- Ductile Iron Body
- Max Close-off Pressure: 100 PSI
- Temperature Range: -22° - 250 °F
- Flow Characteristic: Modified Equal Percentage
- Leakage: Bubble Tight Shutoff
- Max Fluid Velocity: 30 FPS

Modulating Low-Pressure Pneumatic Actuator

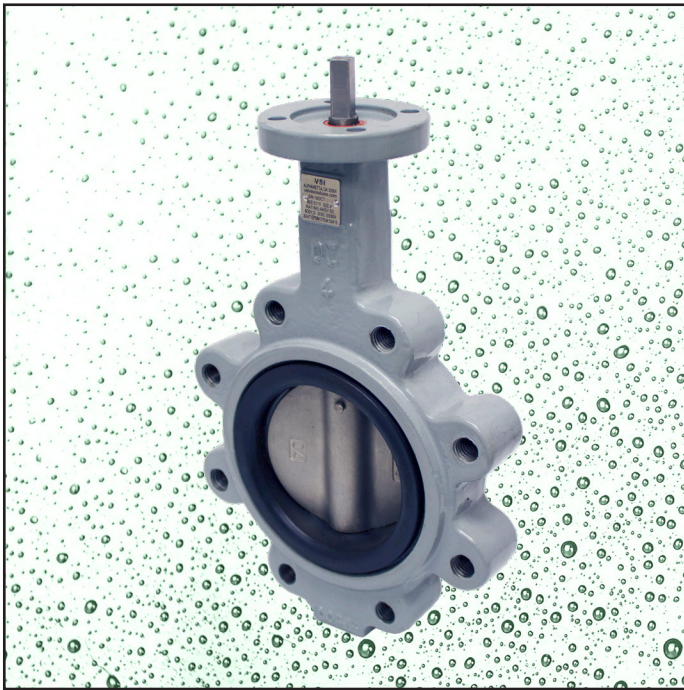
- Die-Cast Aluminum Body
- Diaphragm: Synthetic Elastomer
- 25 PSI Air Supply Required
- Adjustable Pilot Positioner: 3-15 PSI
- Refer to Section V for detailed actuator information



SIZE IN	VALVE MODEL	ACTUATOR MODEL	A	B	C	D	E	F	WEIGHT (LB)
2	S2110SS-02	D-3153-5120	1.69	14.44	18.00	4.40	3.49	4.50	63
2½	S2110SS-02.5	D-3153-5120	1.81	14.99	18.00	4.40	3.49	5.00	73
3	S2110SS-03	D-3153-5100	1.81	15.23	18.00	6.33	4.85	5.50	97
4	S2110SS-04	D-3244-5100	2.05	15.97	18.00	6.33	4.85	6.50	134
5	S2110SS-05	D-3244-5100	2.21	17.00	22.75	7.28	5.63	7.50	179
6	S2110SS-06	D-3246-5100	2.21	17.00	22.75	7.28	5.63	8.00	195
8	S2110SS-08	D-3246-5100*	2.36	18.34	45.50	7.28	7.28	9.00	343
10	S2110SS-10	D-3246-5100*	2.68	19.60	45.50	7.28	7.28	11.00	

VSI

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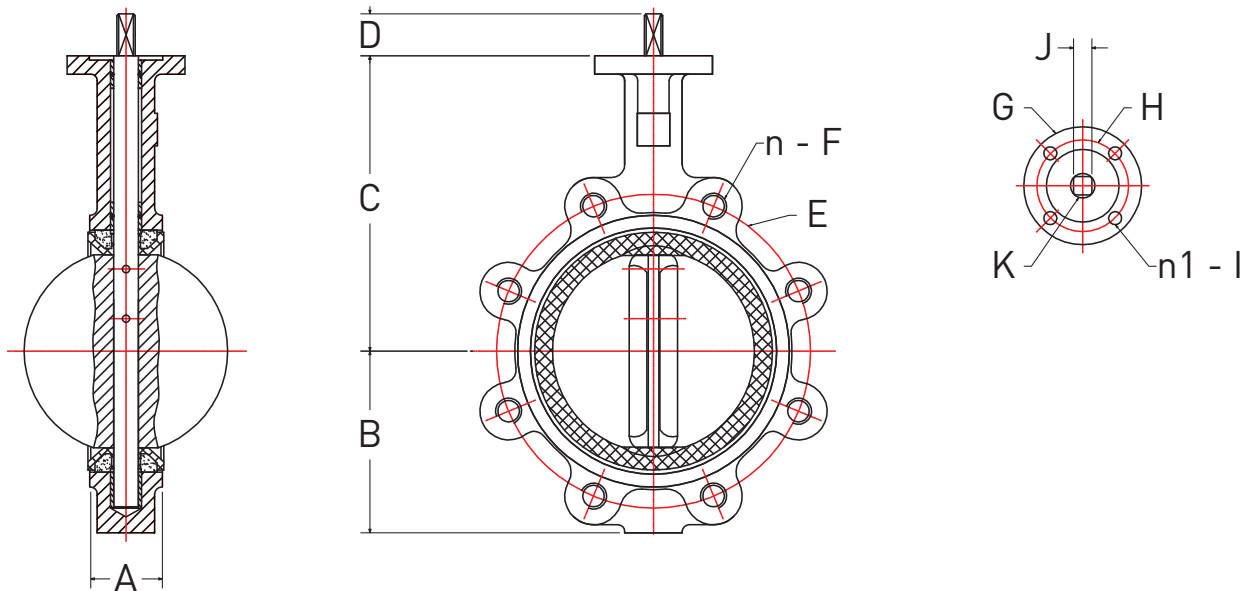


Series 2120

200 PSI Butterfly Valve

Resilient Seated Butterfly Valve

- Applications: HVAC Chillers, Cooling Towers, Boilers, Wastewater, and Pipelines, Paper and Pulp
- Ductile Iron Body
- Lugged ANSI Class 125/150 Flanged
- Max Close-off Pressure: 200 PSI
- Temperature Range: -22° - 250 °F
- Flow Characteristic: Modified Equal Percentage
- Leakage: Bubble Tight Shutoff
- Max Fluid Velocity: 30 FPS
- Bi-directional body and seat design



SIZE IN	VALVE MODEL	A	B	C	D	E	n-F	G	H	n1-l	J	K	WEIGHT (LB)
2	S2120SS-02	1.69	3.15	6.34	1.14	4.75	4 - 5/8-11	2.56	1.97	4-0.315	0.35	0.48	8
2½	S2120SS-02.5	1.81	3.50	6.89	1.14	5.50	4 - 5/8-11	2.56	1.97	4-0.315	0.35	0.48	9
3	S2120SS-03	1.81	3.74	7.13	1.14	6.00	4 - 5/8-11	2.56	1.97	4-0.315	0.35	0.48	10
4	S2120SS-04	2.05	4.49	7.87	1.14	7.50	8 - 5/8-11	3.54	2.76	4-0.394	0.43	0.56	15
5	S2120SS-05	2.21	5.00	8.39	1.14	8.50	8 - 3/4-10	3.54	2.76	4-0.394	0.55	0.71	21
6	S2120SS-06	2.21	5.47	8.90	1.14	9.50	8 - 3/4-10	3.54	2.76	4-0.394	0.55	0.71	24
8	S2120SS-08	2.36	6.89	10.24	1.38	11.75	8 - 3/4-10	4.92	4.02	4-0.472	0.67	0.87	38
10	S2120SS-10	2.68	7.99	11.50	1.38	14.25	12 - 7/8-9	4.92	4.02	4-0.472	0.87	1.11	57
12	S2120SS-12	3.07	9.53	13.27	1.38	17.00	12 - 7/8-9	4.92	4.02	4-0.472	0.87	1.11	87

VSI

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Series 2120 • 1000-X

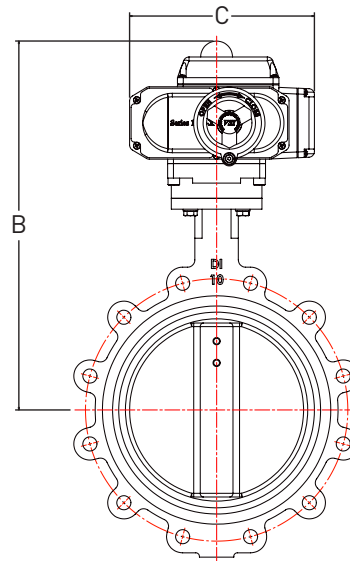
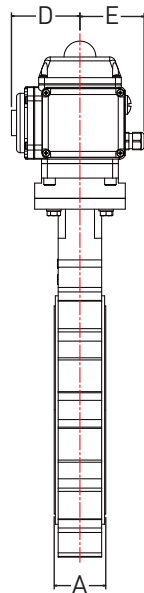
Two-Way 200 PSI Butterfly Valve with Two-Position Electric Actuator

Resilient Seated Butterfly Valve

- Ductile Iron Body
- Max Close-off Pressure: 200 PSI
- Temperature Range: -22° - 250 °F
- Flow Characteristic: Modified Equal Percentage
- Leakage: Bubble Tight Shutoff
- Max Fluid Velocity: 30 FPS

Two-Position Electric Actuator

- 110VDC, 24 VDC, 220VAC, and 24VAC Electric Actuator
- Certifications: CE, NRTL, CSA
- NEMA 4 / 4X watertight, Aluminum Housing
- Torque Output Range: 443 in-lb to 22,127 in-lb
- Handwheel available on 1010-X and higher
- Refer to Section V for detailed actuator information



SIZE IN	VALVE MODEL	ACTUATOR MODEL	A	B	C	D	E	WEIGHT (LB)
2	S2120SS-02	1005-X	1.69	12.66	6.30	5.91	2.87	14
2½	S2120SS-02.5	1005-X	1.81	13.21	6.30	5.91	2.87	15
3	S2120SS-03	1005-X	1.81	13.45	6.30	5.91	2.87	16
4	S2120SS-04	1005-X	2.05	14.19	6.30	5.91	2.87	22
5	S2120SS-05	1010-X	2.21	14.71	7.72	6.22	2.91	30
6	S2120SS-06	1010-X	2.21	16.03	7.72	6.22	2.91	33
8	S2120SS-08	1020-X	2.36	18.82	10.04	7.17	3.43	58
10	S2120SS-10	1040-X	2.68	20.08	10.04	7.17	3.43	77
12	S2120SS-12	1040-X	3.07	21.85	10.04	7.17	3.43	107





Series 2120 • 1000-X

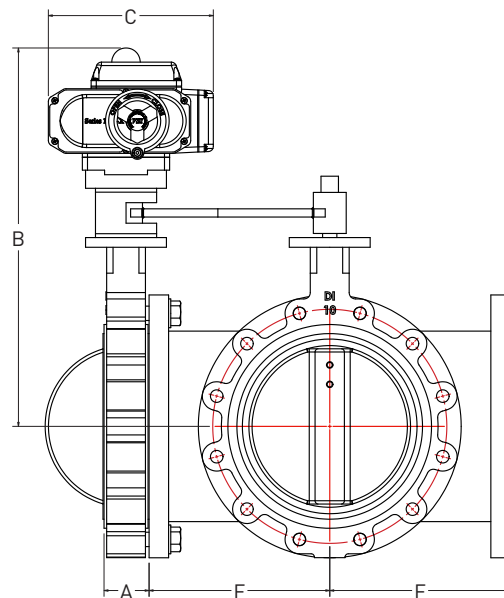
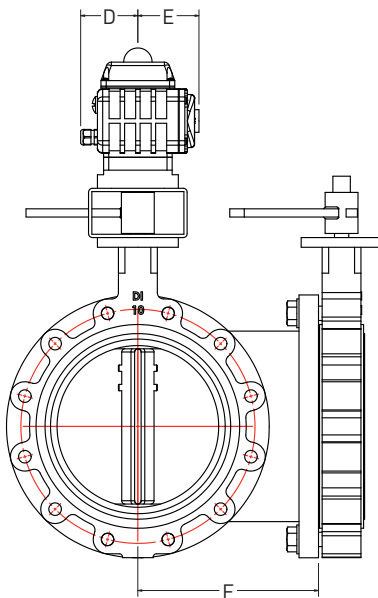
Three-Way 200 PSI Butterfly Valve with Two-Position Electric Actuator

Resilient Seated Butterfly Valve

- Ductile Iron Body
- Max Close-off Pressure: 200 PSI
- Temperature Range: -22° - 250 °F
- Flow Characteristic: Modified Equal Percentage
- Leakage: Bubble Tight Shutoff
- Max Fluid Velocity: 30 FPS

Two-Position Electric Actuator

- 110VDC, 24 VDC, 220VAC, and 24VAC Electric Actuator
- Certifications: CE, NRTL, CSA
- NEMA 4 / 4X watertight, Aluminum Housing
- Torque Output Range: 443 in-lb to 22,127 in-lb
- Handwheel available on 1010-X and higher
- Refer to Section V for detailed actuator information



SIZE IN	VALVE MODEL	ACTUATOR MODEL	A	B	C	D	E	F	WEIGHT (LB)
2	S2120SS-02	1005-X	1.69	14.66	6.30	2.87	2.48	4.50	57
2½	S2120SS-02.5	1005-X	1.81	15.21	6.30	2.87	2.48	5.00	67
3	S2120SS-03	1005-X	1.81	15.45	6.30	2.87	2.48	5.50	81
4	S2120SS-04	1010-X	2.05	17.00	7.72	2.91	2.80	6.50	120
5	S2120SS-05	1010-X	2.21	17.52	7.72	2.91	2.80	7.50	156
6	S2120SS-06	1020-X	2.21	19.48	10.04	3.43	3.74	8.00	183
8	S2120SS-08	1020-X	2.36	20.82	10.04	3.43	3.74	9.00	271
10	S2120SS-10	1040-X	2.68	22.08	10.04	3.43	3.74	11.00	428
12	S2120SS-12	1060-X	3.07	23.85	10.04	3.43	3.74	12.00	603

VSI

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Series 2120 • 1000/S-X

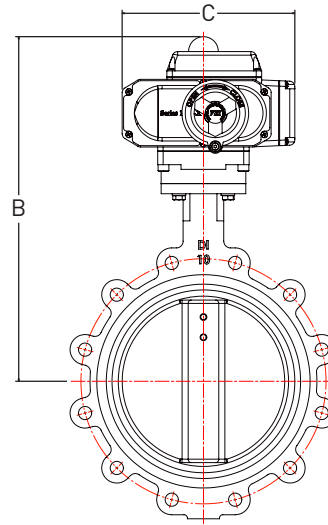
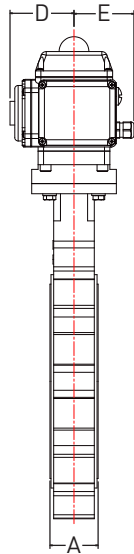
Two-Way 200 PSI Butterfly Valve with Modulating Electric Actuator

Resilient Seated Butterfly Valve

- Ductile or Cast Iron Body
- Max Close-off Pressure: 200 PSI
- Temperature Range: -22° - 250 °F
- Flow Characteristic: Modified Equal Percentage
- Leakage: Bubble Tight Shutoff
- Max Fluid Velocity: 30 FPS

Modulating Control Electric Actuator

- 110VDC, 24 VDC, 220VAC, and 24VAC Electric Actuator
- Certifications: CE, NRTL, CSA
- NEMA 4 / 4X watertight, Aluminum Housing
- Control Signal: 2-10 VDC or 4-20 mA
- Torque Output Range: 443 in-lb to 22,127 in-lb
- Handwheel available on 1010/S-X and higher
- Refer to Section V for detailed actuator information



SIZE IN	VALVE MODEL	ACTUATOR MODEL	A	B	C	D	E	WEIGHT (LB)
2	S2120SS-02	1005/S-X	1.69	12.66	6.30	5.91	2.87	15
2½	S2120SS-02.5	1005/S-X	1.81	13.21	6.30	5.91	2.87	16
3	S2120SS-03	1005/S-X	1.81	13.45	6.30	5.91	2.87	17
4	S2120SS-04	1005/S-X	2.05	14.19	6.30	5.91	2.87	23
5	S2120SS-05	1010/S-X	2.21	14.71	7.72	6.22	2.91	31
6	S2120SS-06	1010/S-X	2.21	16.03	7.72	6.22	2.91	34
8	S2120SS-08	1020/S-X	2.36	18.82	10.04	7.17	3.43	59
10	S2120SS-10	1040/S-X	2.68	20.08	10.04	7.17	3.43	78
12	S2120SS-12	1040/S-X	3.07	21.85	10.04	7.17	3.43	108





Series 2120 • 1000/S-X

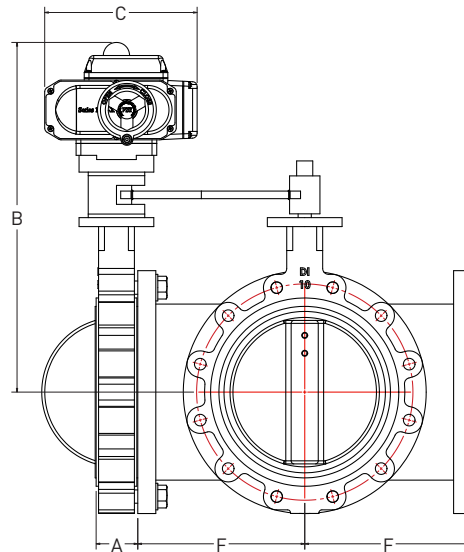
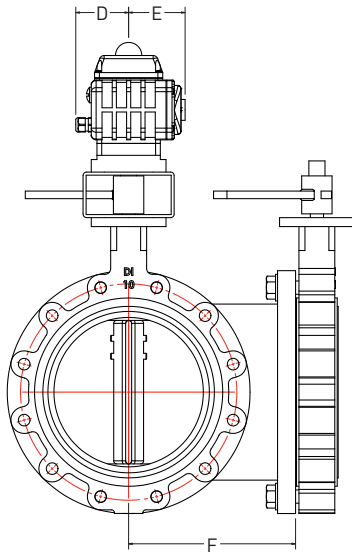
Three-Way 200 PSI Butterfly Valve with Modulating Electric Actuator

Resilient Seated Butterfly Valve

- Ductile Iron Body
- Max Close-off Pressure: 200 PSI
- Temperature Range: -22° - 250 °F
- Flow Characteristic: Modified Equal Percentage
- Leakage: Bubble Tight Shutoff
- Max Fluid Velocity: 30 FPS

Modulating Control Electric Actuator

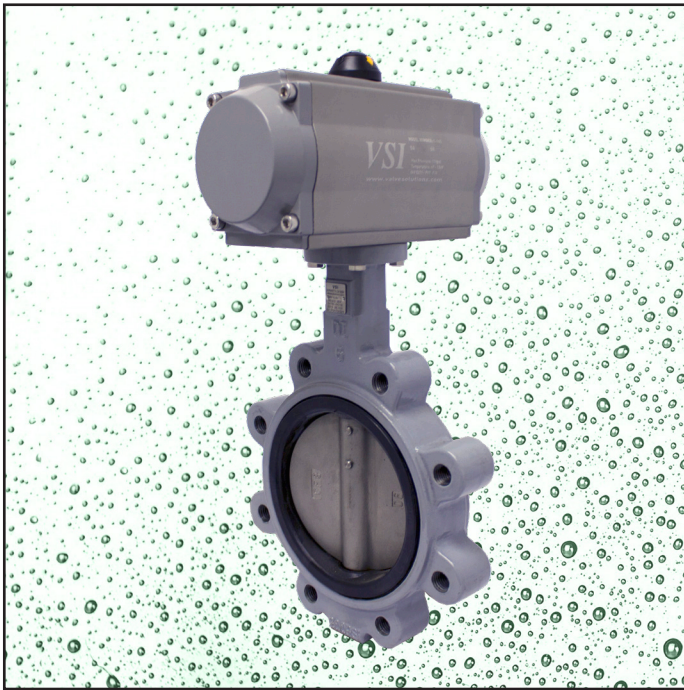
- 110VDC, 24 VDC, 220VAC, and 24VAC Electric Actuator
- Certifications: CE, NRTL, CSA
- NEMA 4 / 4X watertight, Aluminum Housing
- Control Signal: 2-10 VDC or 4-20 mA
- Torque Output Range: 443 in-lb to 22,127 in-lb
- Handwheel available on 1010/S-X and higher
- Refer to Section V for detailed actuator information



SIZE IN	VALVE MODEL	ACTUATOR MODEL	A	B	C	D	E	F	WEIGHT (LB)
2	S2120SS-02	1005/S-X	1.69	14.66	6.30	2.87	2.48	4.50	57
2½	S2120SS-02.5	1005/S-X	1.81	15.21	6.30	2.87	2.48	5.00	67
3	S2120SS-03	1005/S-X	1.81	15.45	6.30	2.87	2.48	5.50	81
4	S2120SS-04	1010/S-X	2.05	17.00	7.72	2.91	2.80	6.50	121
5	S2120SS-05	1010/S-X	2.21	17.52	7.72	2.91	2.80	7.50	157
6	S2120SS-06	1020/S-X	2.21	19.48	10.04	3.43	3.74	8.00	184
8	S2120SS-08	1020/S-X	2.36	20.82	10.04	3.43	3.74	9.00	272
10	S2120SS-10	1040/S-X	2.68	22.08	10.04	3.43	3.74	11.00	429
12	S2120SS-12	1060/S-X	3.07	23.85	10.04	3.43	3.74	12.00	604

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Series 2120 • C-DA

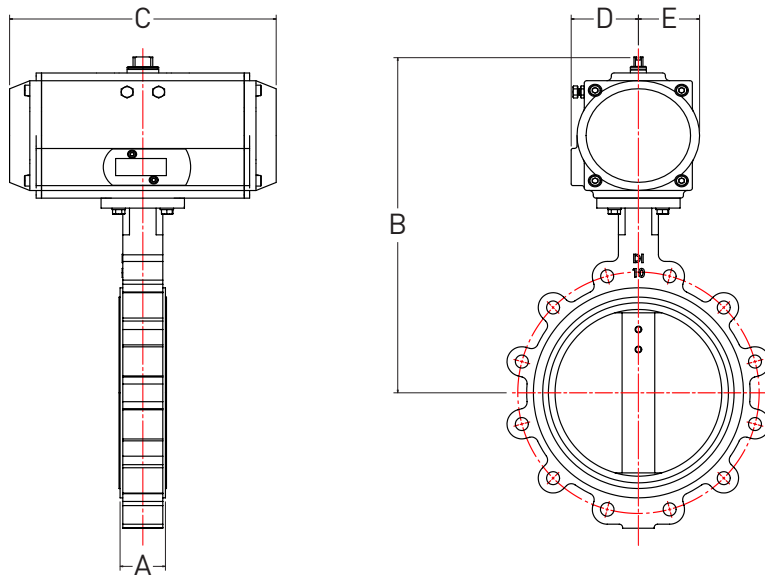
Two-Way 200 PSI Butterfly Valve with Double Acting Pneumatic Actuator

Resilient Seated Butterfly Valve

- Ductile or Cast Iron Body
- Max Close-off Pressure: 200 PSI
- Temperature Range: -22° - 250 °F
- Flow Characteristic: Modified Equal Percentage
- Leakage: Bubble Tight Shutoff
- Max Fluid Velocity: 30 FPS

Double Acting High-Pressure Pneumatic Actuator

- Die Cast Aluminum Alloy Body
- Torque Range: 124 in-lb to 40,519 in-lb
- 60 -110 PSI Air Supply Required
- Standard NAMUR mounts
- Refer to Section V for detailed actuator information



Refer to Section VI For Accessories

For Two-Position Control Refer to:
 -Solenoid Control Valve
 -Limit Switch Box

For Modulating Control Refer to:
 -Pneumatic Positioner
 -Electro-Pneumatic Positioner
 -Dome Indicator Positioner

SIZE IN	VALVE MODEL	ACTUATOR MODEL	A	B	C	D	E	WEIGHT (LB)
2	S2120SS-02	C-DA063	1.69	10.57	6.61	1.85	1.42	12
2½	S2120SS-02.5	C-DA063	1.81	11.12	6.61	1.85	1.42	14
3	S2120SS-03	C-DA063	1.81	11.36	6.61	1.85	1.42	14
4	S2120SS-04	C-DA083	2.05	12.94	8.03	2.24	1.81	22
5	S2120SS-05	C-DA083	2.21	13.46	8.03	2.24	1.81	30
6	S2120SS-06	C-DA092	2.21	14.27	10.31	2.30	1.97	37
8	S2120SS-08	C-DA105	2.36	16.26	10.55	2.52	2.26	47
10	S2120SS-10	C-DA125	2.68	18.39	11.85	2.93	2.66	75
12	S2120SS-12	C-DA140	3.07	20.83	15.35	3.03	2.95	127

VSI

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Series 2120 • C-DA

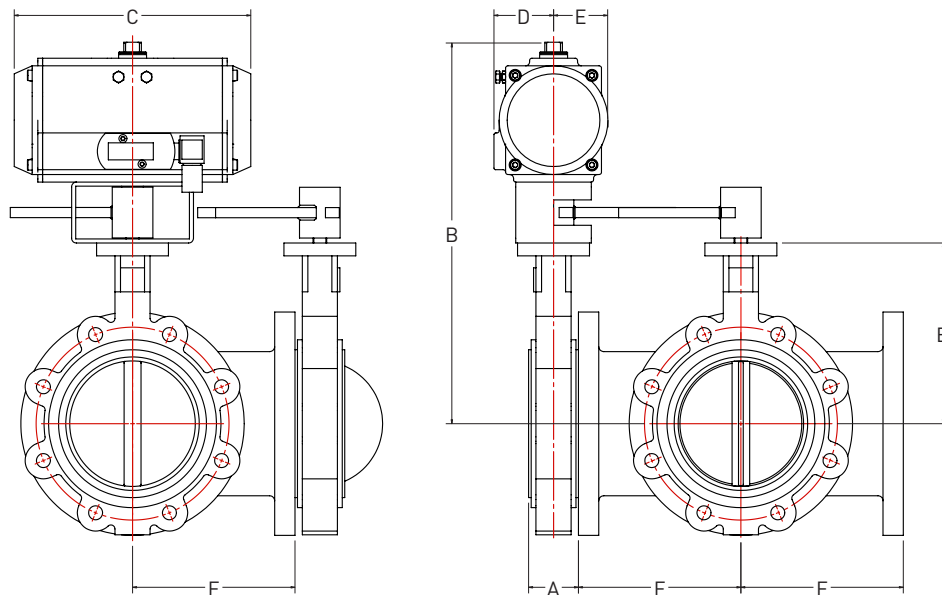
Three-Way 200 PSI Butterfly Valve with Double Acting Pneumatic Actuator

Resilient Seated Butterfly Valve

- Ductile or Cast Iron Body
- Max Close-off Pressure: 200 PSI
- Temperature Range: -22° - 250 °F
- Flow Characteristic: Modified Equal Percentage
- Leakage: Bubble Tight Shutoff
- Max Fluid Velocity: 30 FPS

Double Acting High-Pressure Pneumatic Actuator

- Die Cast Aluminum Alloy Body
- Torque Range: 124 in-lb to 40,519 in-lb
- 60 -110 PSI Air Supply Required
- Standard NAMUR mounts
- Refer to Section V for detailed actuator information



Refer to Section VI For Accessories

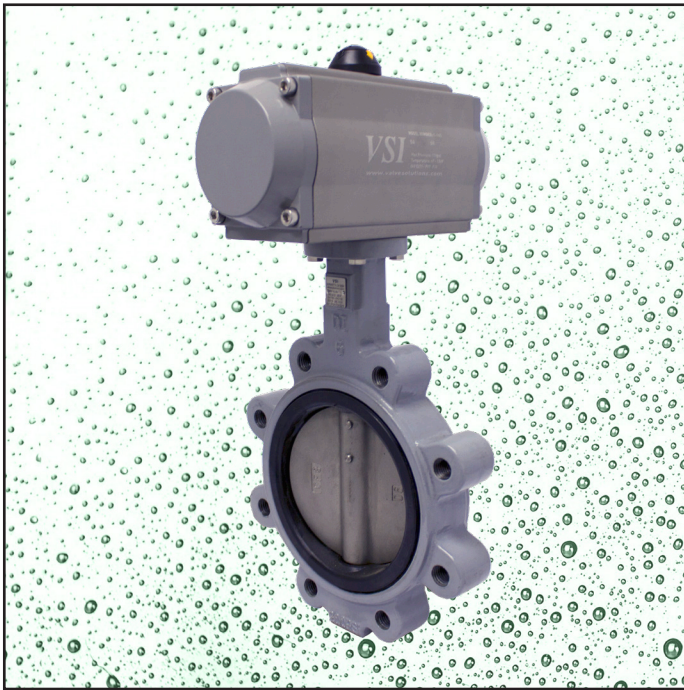
For Two-Position Control Refer to:
 -Solenoid Control Valve
 -Limit Switch Box

For Modulating Control Refer to:
 -Pneumatic Positioner
 -Electro-Pneumatic Positioner
 -Dome Indicator Positioner

SIZE IN	VALVE MODEL	ACTUATOR MODEL	A	B	C	D	E	F	WEIGHT (LB)
2	S2120SS-02	C-DA063	1.69	11.78	6.61	1.85	1.42	4.50	55
2½	S2120SS-02.5	C-DA063	1.81	12.33	6.61	1.85	1.42	5.00	65
3	S2120SS-03	C-DA063	1.81	13.41	6.61	1.85	1.42	5.50	81
4	S2120SS-04	C-DA083	2.05	14.15	8.03	2.24	1.81	6.50	117
5	S2120SS-05	C-DA092	2.21	14.98	10.31	2.30	1.97	7.50	156
6	S2120SS-06	C-DA105	2.21	16.14	10.55	2.52	2.26	8.00	176
8	S2120SS-08	C-DA125	2.36	19.34	11.85	2.93	2.66	9.00	270
10	S2120SS-10	C-DA140	2.68	21.27	15.35	3.03	2.95	11.00	436
12	S2120SS-12	C-DA160	3.07	24.03	18.03	3.43	3.43	12.00	623

VSI

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Series 2120 • C-SR

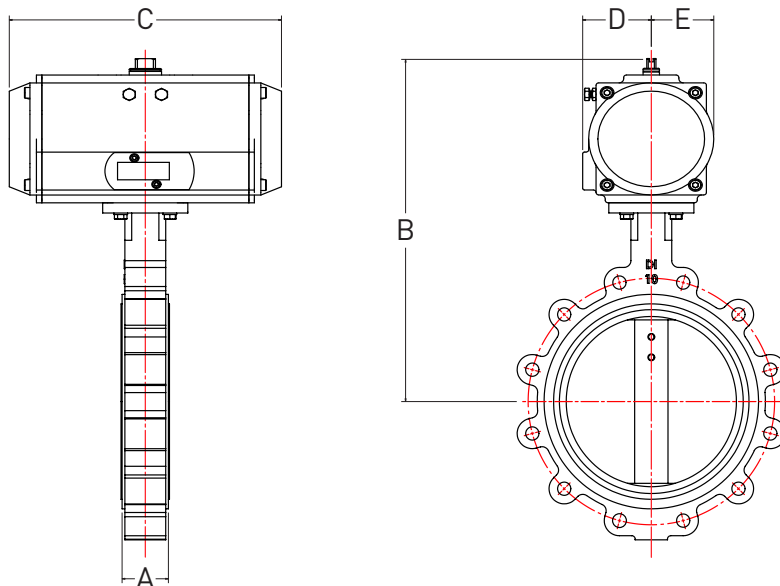
Two-Way 200 PSI Butterfly Valve with Spring Return Pneumatic Actuator

Resilient Seated Butterfly Valve

- Ductile or Cast Iron Body
- Max Close-off Pressure: 200 PSI
- Temperature Range: -22° - 250 °F
- Flow Characteristic: Modified Equal Percentage
- Leakage: Bubble Tight Shutoff
- Max Fluid Velocity: 30 FPS

Spring Return High-Pressure Pneumatic Actuator

- Die Cast Aluminum Alloy Body
- Torque Range: 124 in-lb to 15,500 in-lb
- 60 -110 PSI Air Supply Required
- Standard NAMUR mounts
- Refer to Section V for detailed actuator information



Refer to Section VI For Accessories

For Two-Position Control Refer to:
 -Solenoid Control Valve
 -Limit Switch Box

For Modulating Control Refer to:
 -Pneumatic Positioner
 -Electro-Pneumatic Positioner
 -Dome Indicator Positioner

SIZE IN	VALVE MODEL	ACTUATOR MODEL	A	B	C	D	E	WEIGHT (LB)
2	S2120SS-02	C-SR063	1.69	10.57	6.61	1.85	1.42	15
2½	S2120SS-02.5	C-SR083	1.81	11.96	8.03	2.24	1.81	16
3	S2120SS-03	C-SR083	1.81	12.20	8.03	2.24	1.81	17
4	S2120SS-04	C-SR092	2.05	13.24	10.31	2.30	1.97	23
5	S2120SS-05	C-SR125	2.21	15.28	11.85	2.93	2.66	31
6	S2120SS-06	C-SR125	2.21	15.79	11.85	2.93	2.66	34
8	S2120SS-08	C-SR140	2.36	17.80	15.35	3.03	2.95	59
10	S2120SS-10	C-SR160	2.68	20.04	18.03	3.43	3.43	78
12	S2120SS-12	C-SR190	3.07	23.51	20.67	4.06	4.06	108

VSI

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Series 2120 • C-SR

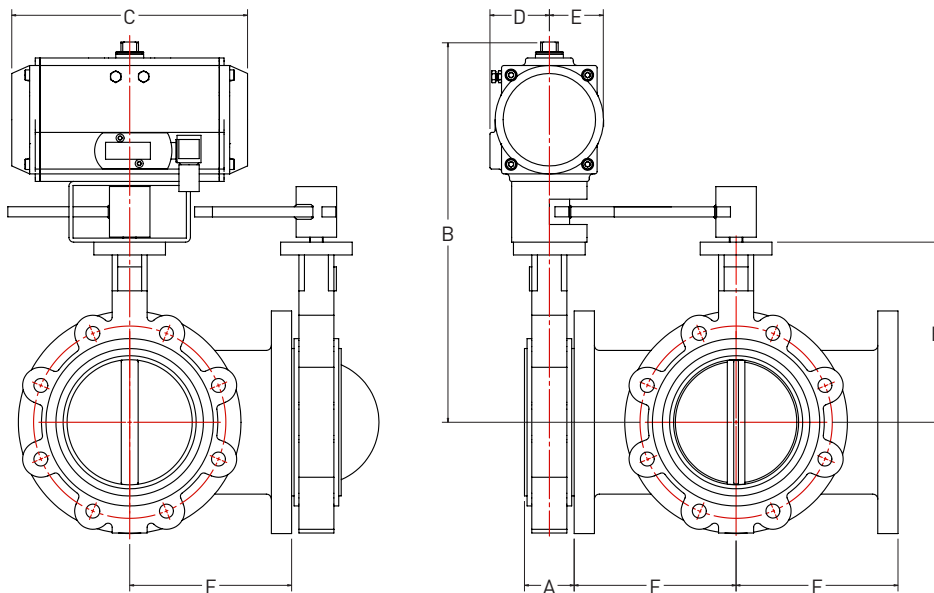
Three-Way 200 PSI Butterfly Valve with Spring Return Pneumatic Actuator

Resilient Seated Butterfly Valve

- Ductile or Cast Iron Body
- Max Close-off Pressure: 200 PSI
- Temperature Range: -22° - 250 °F
- Flow Characteristic: Modified Equal Percentage
- Leakage: Bubble Tight Shutoff
- Max Fluid Velocity: 30 FPS

Spring Return High-Pressure Pneumatic Actuator

- Die Cast Aluminum Alloy Body
- Torque Range: 124 in-lb to 15,500 in-lb
- 60 -110 PSI Air Supply Required
- Standard NAMUR mounts
- Refer to Section V for detailed actuator information



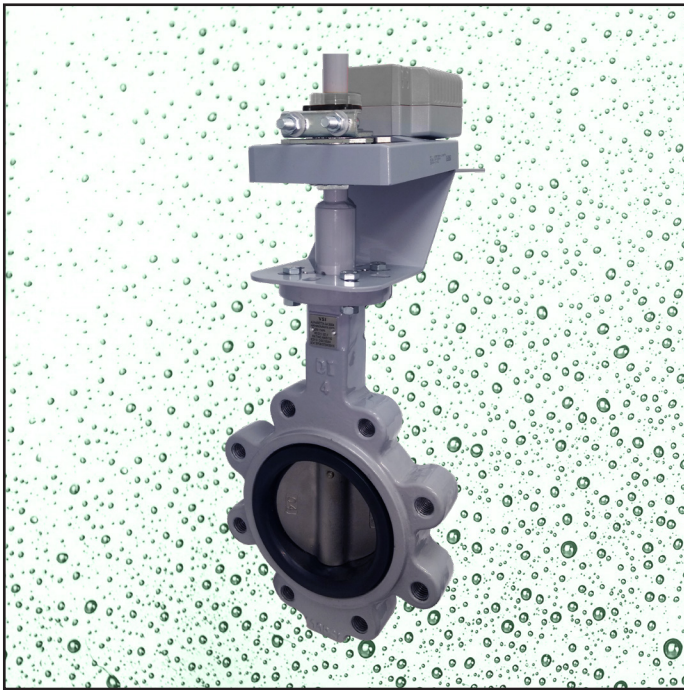
Refer to Section VI For Accessories

For Two-Position Control Refer to:
 -Solenoid Control Valve
 -Limit Switch Box

For Modulating Control Refer to:
 -Pneumatic Positioner
 -Electro-Pneumatic Positioner
 -Dome Indicator Positioner

SIZE IN	VALVE MODEL	ACTUATOR MODEL	A	B	C	D	E	F	WEIGHT (LB)
2	S2120SS-02	C-SR063	1.69	11.78	6.61	1.85	1.42	4.50	55
2½	S2120SS-02.5	C-SR083	1.81	13.17	8.03	2.24	1.81	5.00	65
3	S2120SS-03	C-SR083	1.81	13.41	8.03	2.24	1.81	5.50	81
4	S2120SS-04	C-SR092	2.05	14.46	10.31	2.30	1.97	6.50	117
5	S2120SS-05	C-SR105	2.21	15.63	10.55	2.52	2.26	7.50	156
6	S2120SS-06	C-SR125	2.21	17.00	11.85	2.93	2.66	8.00	176
8	S2120SS-08	C-SR140	2.36	20.01	15.35	3.03	2.95	9.00	270
10	S2120SS-10	C-SR140	2.68	21.27	15.35	3.03	2.95	11.00	436
12	S2120SS-12	C-SR160	3.07	24.03	18.03	3.43	3.43	12.00	623





Series 2120 • Damper

Two-Way 200 PSI Butterfly Valve with Damper Actuator

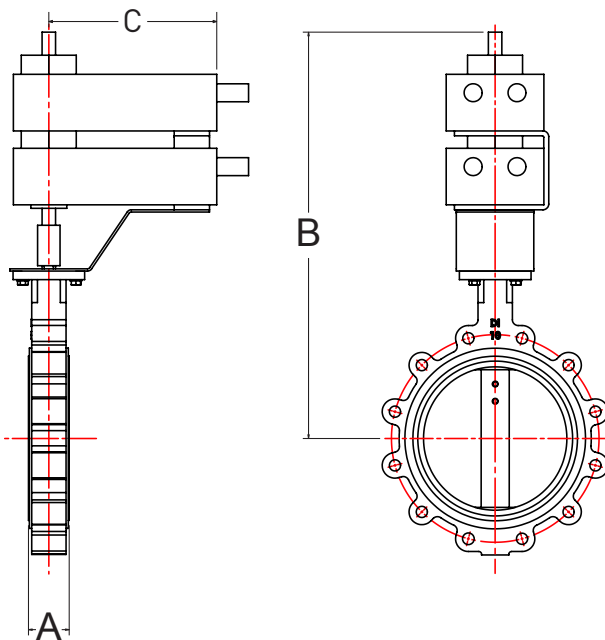
Resilient Seated Butterfly Valve

- Ductile Iron Body
- Max Close-off Pressure: 200 PSI
- Temperature Range: -22° - 250 °F
- Flow Characteristic: Modified Equal Percentage
- Leakage: Bubble Tight Shutoff
- Max Fluid Velocity: 30 FPS

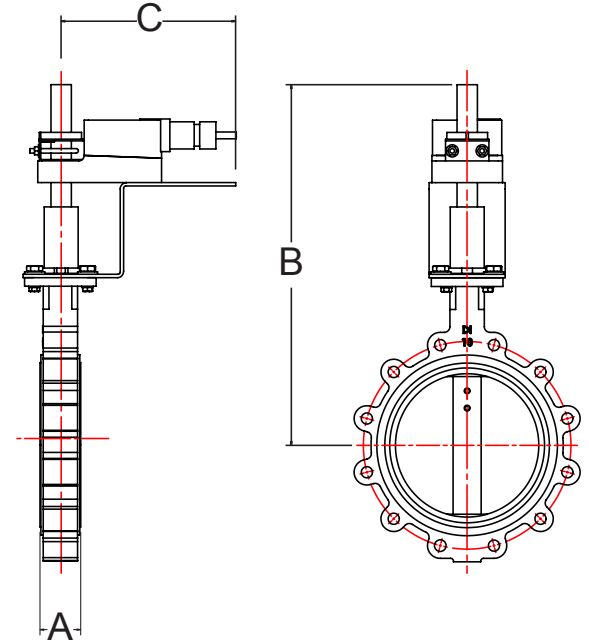
Two-Position/Modulating Damper Actuator

- Spring and Non-Spring Return Option
- Two-Position or Modulating Control
- Wide range of HVAC damper applications
- Flexible Mounting including Tandem style if necessary
- Contact VSI for Damper Actuator Assemblies

TANDEM



SINGLE



*Contact VSI for tandem mounting details

SIZE IN	VALVE MODEL	NON-SPRING RETURN			WEIGHT (LB)	SPRING RETURN			WEIGHT (LB)
		A	B	C		A	B	C	
2	S2120SS-02	1.69	14.34	9.25	13	1.69	14.34	9.25	15
2½	S2120SS-02.5	1.81	14.89	9.25	16	1.81	20.39	9.25	21
3	S2120SS-03	1.81	15.13	9.25	17	1.81	20.63	9.25	22
4	S2120SS-04	2.05	21.37	9.25	27	2.05	21.37	9.25	40
5	S2120SS-05	2.21	21.89	9.25	32	2.21	21.89	9.25	33

VSI

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Series 2120 • Damper

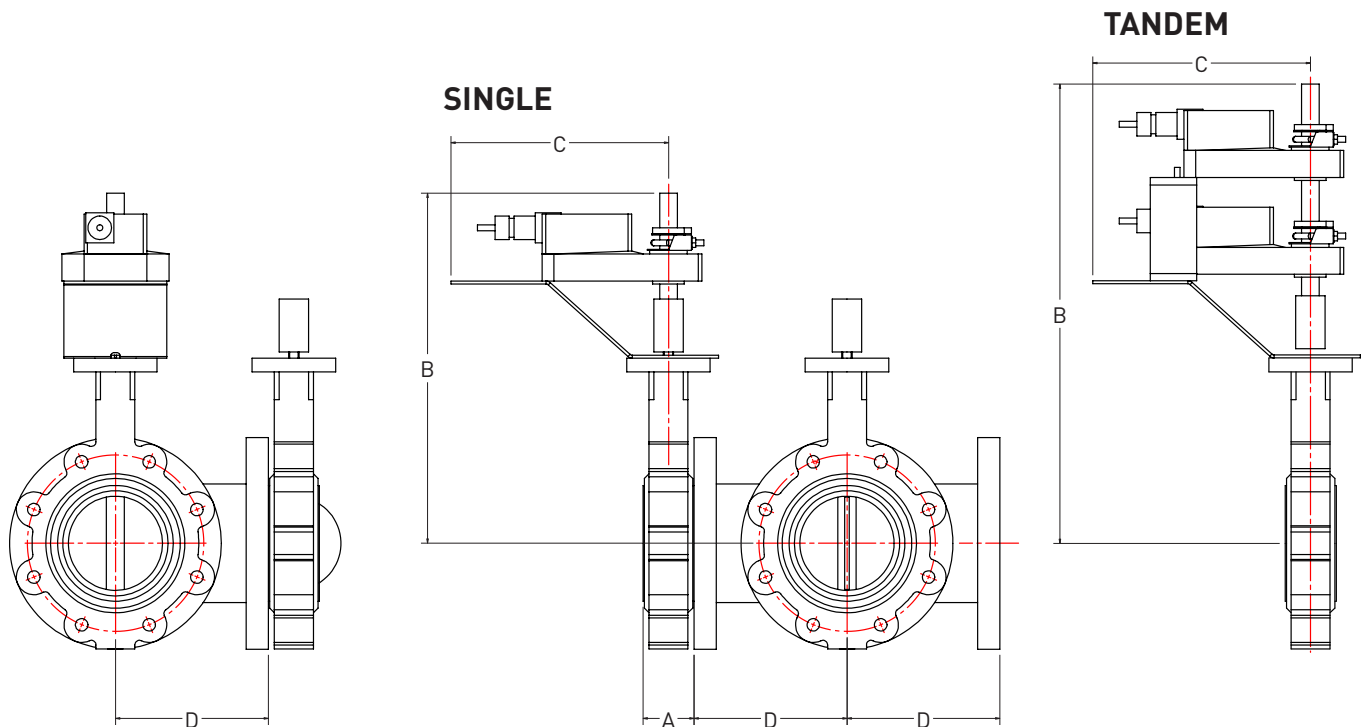
Three-Way 200 PSI Butterfly Valve with Damper Actuator

Resilient Seated Butterfly Valve

- Ductile Iron Body
- Max Close-off Pressure: 200 PSI
- Temperature Range: -22° - 250 °F
- Flow Characteristic: Modified Equal Percentage
- Leakage: Bubble Tight Shutoff
- Max Fluid Velocity: 30 FPS

Two-Position/Modulating Damper Actuator

- Spring and Non-Spring Return Option
- Two-Position or Modulating Control
- Wide range of HVAC damper applications
- Flexible Mounting including Tandem style if necessary
- Contact VSI for Damper Actuator Assemblies



*Contact VSI for tandem mounting details

SIZE IN	VALVE MODEL	NON-SPRING RETURN				WEIGHT (LB)	SPRING RETURN				WEIGHT (LB)
		A	B	C	D		A	B	C	D	
2	S2110SS-02	1.69	14.34	9.25	4.50	52	1.69	14.34	9.25	4.50	55
2½	S2110SS-02.5	1.81	14.89	9.25	5.00	63	1.81	14.89	9.25	5.00	69
3	S2110SS-03	1.81	15.13	9.25	5.50	76	1.81	15.13	9.25	5.50	70
4	S2110SS-04	2.05	15.87	9.25	6.50	114	2.05	21.37	9.25	6.50	130
5	S2110SS-05	2.21	21.89	9.25	7.50	153	2.21	21.89	9.25	7.50	164

VSI

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Series 2120 • L-2P

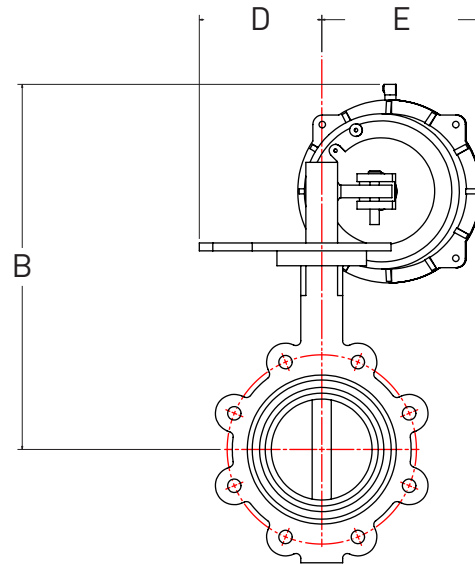
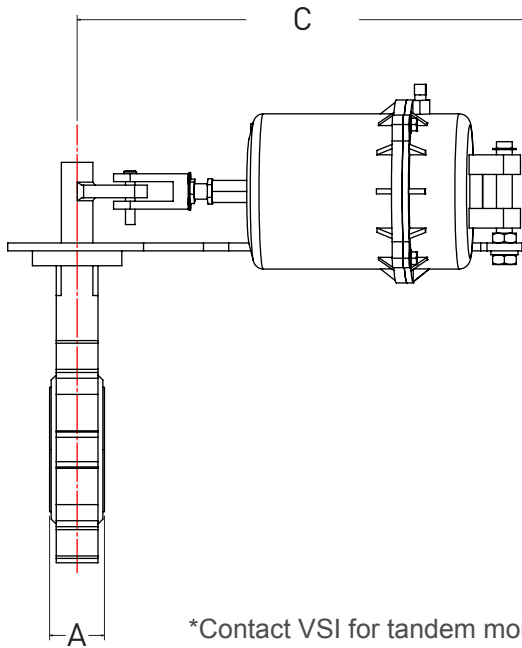
Two-Way 200 PSI Butterfly Valve with Two-Position Pneumatic Actuator

Resilient Seated Butterfly Valve

- Ductile Iron Body
- Max Close-off Pressure: 200 PSI
- Temperature Range: -22° - 250 °F
- Flow Characteristic: Modified Equal Percentage
- Leakage: Bubble Tight Shutoff
- Max Fluid Velocity: 30 FPS

Two-Position Low-Pressure Pneumatic Actuator

- Die-Cast Aluminum Body
- Diaphragm: Synthetic Elastomer
- Spring Range: 8-13 PSIG
- 25 PSI Air Supply Required
- Refer to Section V for detailed actuator information



*Contact VSI for tandem mounting details

SIZE IN	VALVE MODEL	ACTUATOR MODEL	A	B	C	D	E	WEIGHT (LB)
2	S2120SS-02	D-3153-5130	1.69	11.22	14.25	3.49	4.40	23
2½	S2120SS-02.5	D-3153-5130	1.81	11.77	14.25	3.49	4.40	24
3	S2120SS-03	D-3244-5110	1.81	12.01	14.25	3.49	4.40	40
4	S2120SS-04	D-3244-5110	2.05	14.47	17.88	4.85	6.33	45
5	S2120SS-05	D-3246-5110	2.21	14.99	17.88	4.85	6.33	70
6	S2120SS-06	D-3246-5110	2.21	14.98	22.75	5.63	7.28	73
8	S2120SS-08	D-3246-5110*	2.36	14.98	22.75	5.63	7.28	136

VSI

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Series 2120 • L-2P

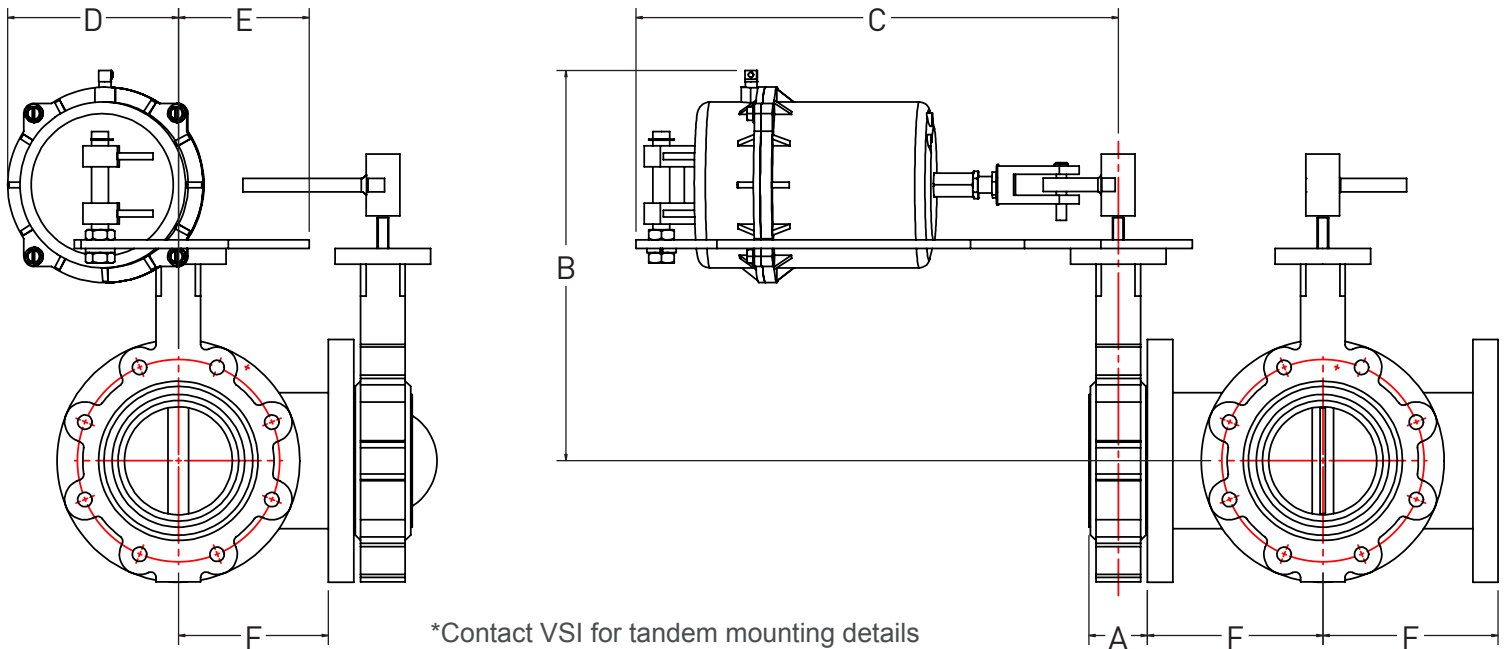
Three-Way 200 PSI Butterfly Valve with Two-Position Pneumatic Actuator

Resilient Seated Butterfly Valve

- Ductile Iron Body
- Max Close-off Pressure: 200 PSI
- Temperature Range: -22° - 250 °F
- Flow Characteristic: Modified Equal Percentage
- Leakage: Bubble Tight Shutoff
- Max Fluid Velocity: 30 FPS

Two-Position Low-Pressure Pneumatic Actuator

- Die-Cast Aluminum Body
- Diaphragm: Synthetic Elastomer
- Spring Range: 8-13 PSIG
- 25 PSI Air Supply Required
- Refer to Section V for detailed actuator information



SIZE IN	VALVE MODEL	ACTUATOR MODEL	A	B	C	D	E	F	WEIGHT (LB)
2	S2120SS-02	D-3153-5130	1.69	12.94	18.00	4.40	3.49	4.50	63
2½	S2120SS-02.5	D-3153-5130	1.81	13.49	18.00	4.40	3.49	5.00	73
3	S2120SS-03	D-3244-5110	1.81	13.73	18.00	6.33	4.85	5.50	96
4	S2120SS-04	D-3244-5110	2.05	14.47	18.00	6.33	4.85	6.50	132
5	S2120SS-05	D-3246-5110	2.21	14.98	22.75	7.28	5.63	7.50	179
6	S2120SS-06	D-3246-5110	2.21	14.98	22.75	7.28	5.63	8.00	196
8	S2120SS-08	D-3246-5110*	2.36	16.32	45.50	7.28	7.28	9.00	345

VSI

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Series 2120 • L-MOD

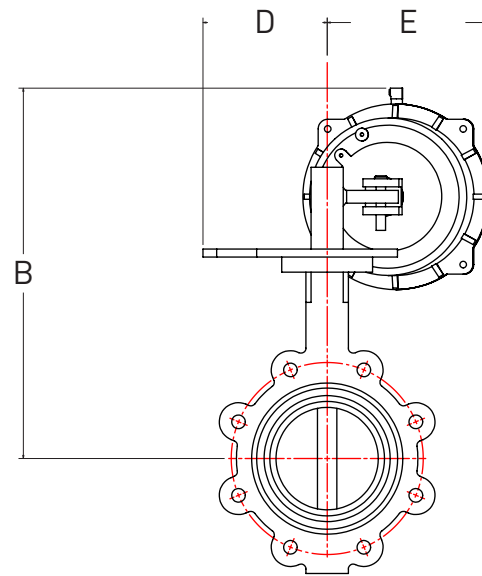
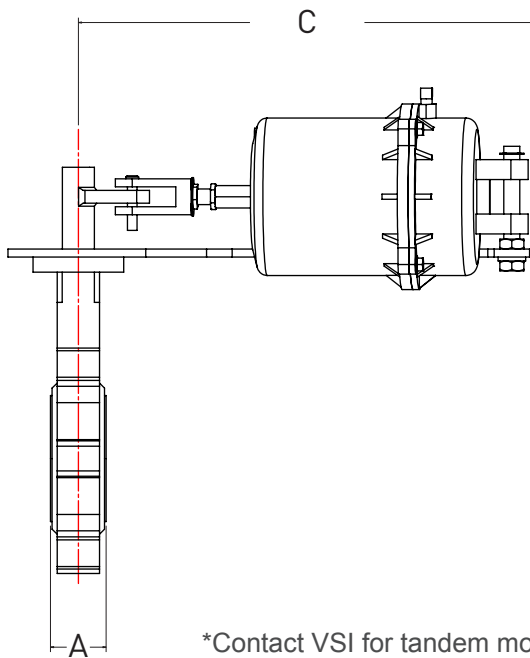
Two-Way 200 PSI Butterfly Valve with Modulating Pneumatic Actuator

Resilient Seated Butterfly Valve

- Ductile Iron Body
- Max Close-off Pressure: 200 PSI
- Temperature Range: -22° - 250 °F
- Flow Characteristic: Modified Equal Percentage
- Leakage: Bubble Tight Shutoff
- Max Fluid Velocity: 30 FPS

Modulating Low-Pressure Actuator

- Die-Cast Aluminum Body
- Diaphragm: Synthetic Elastomer
- 25 PSI Air Supply Required
- Adjustable Pilot Positioner: 3-15 PSI
- Refer to Section V for detailed actuator information



*Contact VSI for tandem mounting details

SIZE IN	VALVE MODEL	ACTUATOR MODEL	A	B	C	D	E	WEIGHT (LB)
2	S2120SS-02	D-3153-5130	1.69	11.22	14.25	3.49	4.40	23
2½	S2120SS-02.5	D-3153-5130	1.81	11.77	14.25	3.49	4.40	24
3	S2120SS-03	D-3244-5110	1.81	12.01	14.25	3.49	4.40	40
4	S2120SS-04	D-3244-5110	2.05	14.47	17.88	4.85	6.33	45
5	S2120SS-05	D-3246-5110	2.21	14.99	17.88	4.85	6.33	70
6	S2120SS-06	D-3246-5110	2.21	14.98	22.75	5.63	7.28	73
8	S2120SS-08	D-3246-5110*	2.36	14.98	22.75	5.63	7.28	136

VSI

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Series 2120 • L-MOD

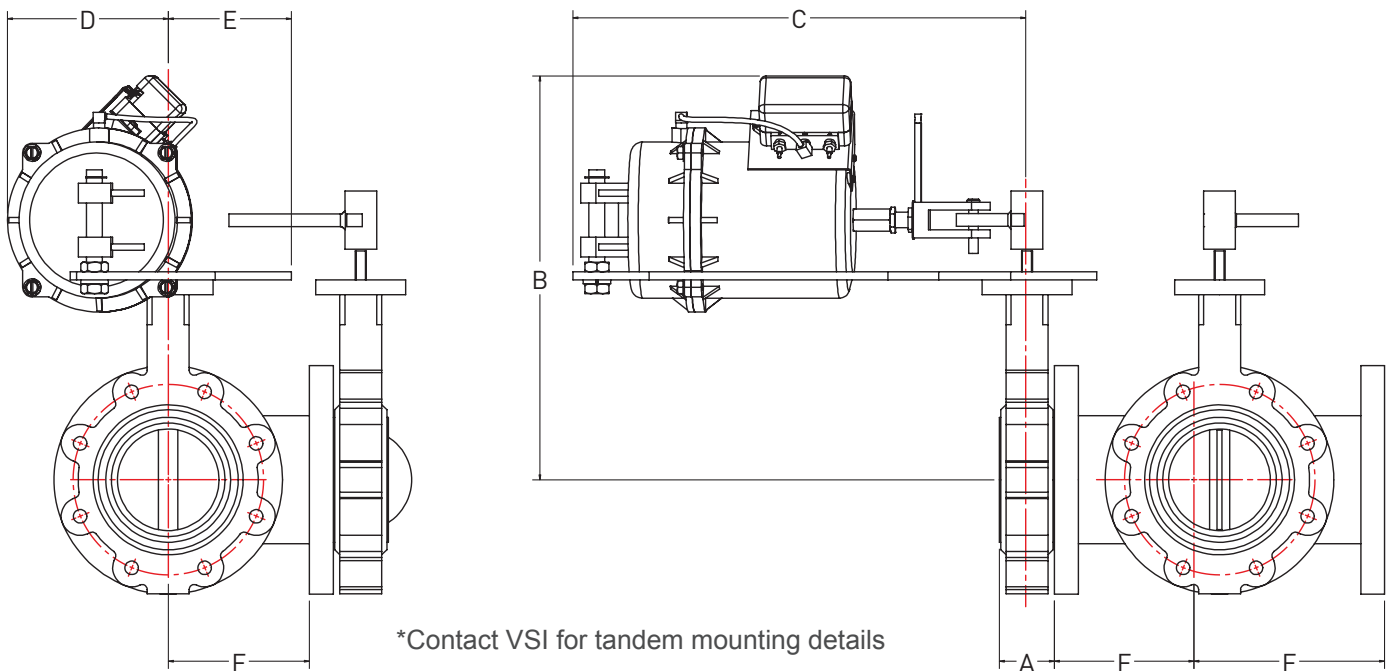
Three-Way 200 PSI Butterfly Valve with Modulating Pneumatic Actuator

Resilient Seated Butterfly Valve

- Ductile Iron Body
- Max Close-off Pressure: 200 PSI
- Temperature Range: -22° - 250 °F
- Flow Characteristic: Modified Equal Percentage
- Leakage: Bubble Tight Shutoff
- Max Fluid Velocity: 30 FPS

Modulating Low-Pressure Actuator

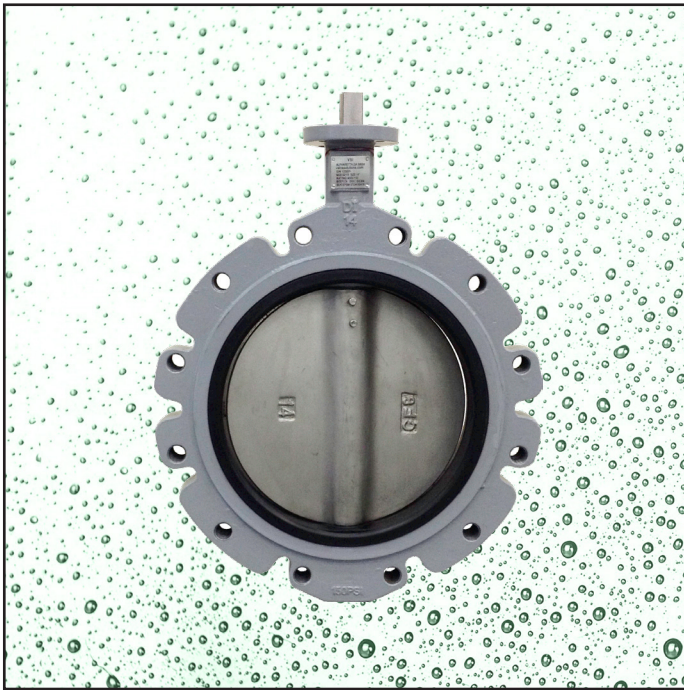
- Die-Cast Aluminum Body
- Diaphragm: Synthetic Elastomer
- 25 PSI Air Supply Required
- Adjustable Pilot Positioner: 3-15 PSI
- Refer to Section V for detailed actuator information



SIZE IN	VALVE MODEL	ACTUATOR MODEL	A	B	C	D	E	F	WEIGHT (LB)
2	S2120SS-02	D-3153-5120	1.69	14.44	18.00	4.40	3.49	4.50	63
2½	S2120SS-02.5	D-3153-5120	1.81	14.99	18.00	4.40	3.49	5.00	73
3	S2120SS-03	D-3244-5100	1.81	15.23	18.00	6.33	4.85	5.50	97
4	S2120SS-04	D-3244-5100	2.05	15.97	18.00	6.33	4.85	6.50	134
5	S2120SS-05	D-3246-5100	2.21	17.00	22.75	7.28	5.63	7.50	179
6	S2120SS-06	D-3246-5100	2.21	17.00	22.75	7.28	5.63	8.00	195
8	S2120SS-08	D-3246-5100*	2.36	18.34	45.50	7.28	7.28	9.00	343

VSI

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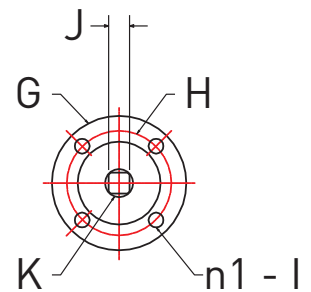
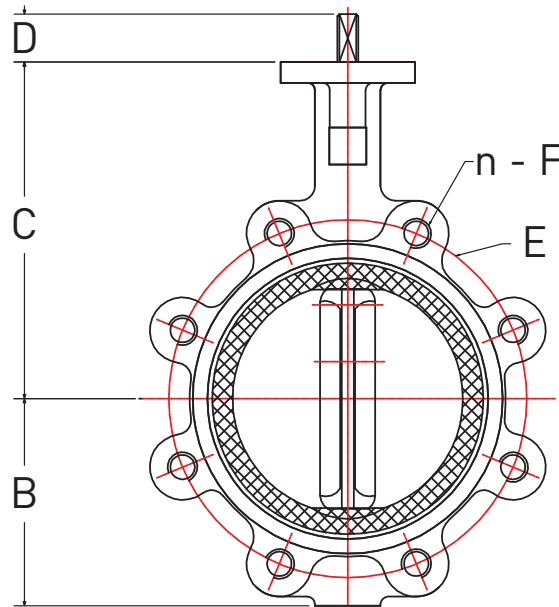
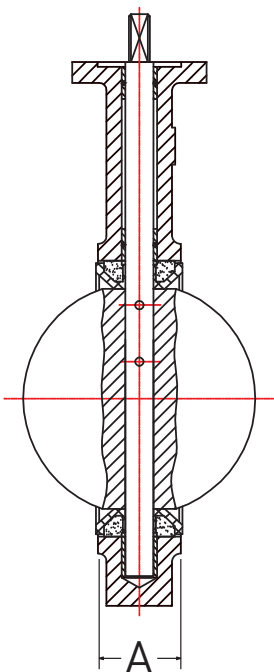


Series 2115

150 PSI Butterfly Valve

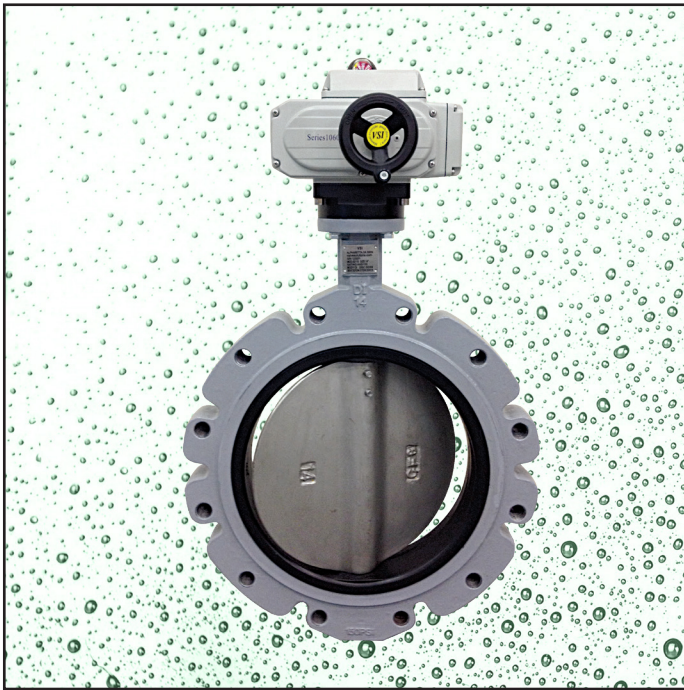
Resilient Seated Butterfly Valve

- Applications: HVAC Chillers, Cooling Towers, Boilers, Wastewater, and Pipelines, Paper and Pulp
- Ductile Iron Body
- Lugged ANSI Class 125/150 Flanged
- Max Close-off Pressure: 150 PSI
- Temperature Range: -22° - 250 °F
- Flow Characteristic: Modified Equal Percentage
- Leakage: Bubble Tight Shutoff
- Max Fluid Velocity: 30 FPS
- Bi-directional body and seat design



SIZE IN	VALVE MODEL	A	B	C	D	E	n-F	G	H	n1-I	J	K	WEIGHT (LB)
14	S2115SS-14	3.07	10.51	14.49	1.77	18.75	12 - 1-8	4.92	4.02	4-0.472	0.87	1.11	135
16	S2115SS-16	4.02	11.69	15.75	2.02	21.25	16 - 1-8	6.89	5.51	4-0.709	0.87	1.11	203
18	S2115SS-18	4.49	12.52	16.61	2.02	22.75	16 - 1 $\frac{1}{8}$ -7	6.89	5.51	4-0.709	1.06	1.43	243
20	S2115SS-20	5.00	13.70	18.90	2.53	25.00	20 - 1 $\frac{1}{8}$ -7	6.89	5.51	4-0.709	1.06	1.43	338
24	S2115SS-24	6.06	17.48	22.13	2.76	29.50	20 - 1 $\frac{1}{4}$ -7	8.27	6.50	4-0.866	1.42	1.90	490





Series 2115 • 1000-X

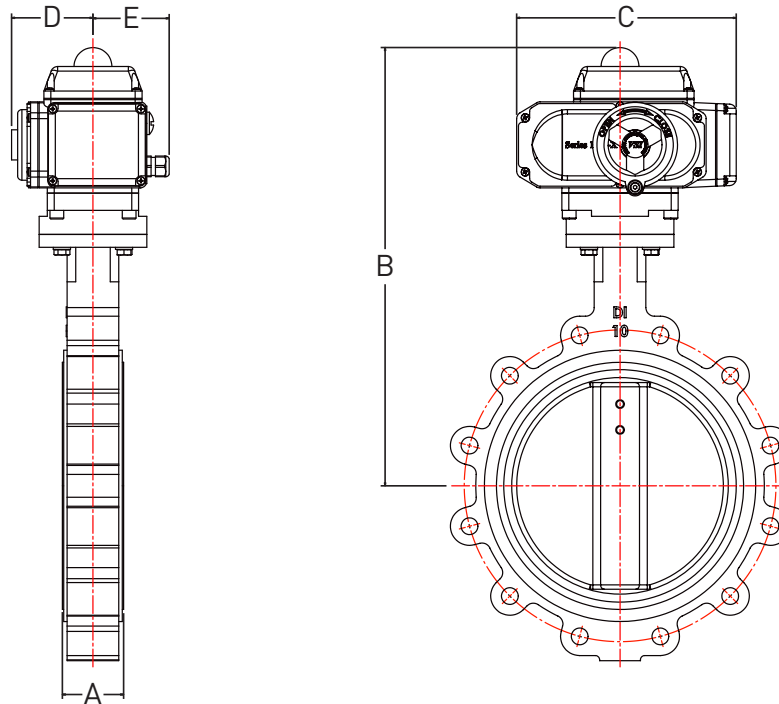
Two-Way 150 PSI Butterfly Valve with Two-Position Electric Actuator

Resilient Seated Butterfly Valve

- Ductile Iron Body
- Max Close-off Pressure: 150 PSI
- Temperature Range: -22° - 250 °F
- Flow Characteristic: Modified Equal Percentage
- Leakage: Bubble Tight Shutoff
- Max Fluid Velocity: 30 FPS

Two-Position Electric Actuator

- 110VDC, 24 VDC, 220VAC, and 24VAC Electric Actuator
- Certifications: CE, NRTL, CSA
- NEMA 4 / 4X watertight, Aluminum Housing
- Torque Output Range: 443 in-lb to 22,127 in-lb
- Handwheel available on 1010-X and higher
- Refer to Section V for detailed actuator information



SIZE IN	VALVE MODEL	ACTUATOR MODEL	A	B	C	D	E	WEIGHT (LB)
14	S2115SS-14	1060-X	3.07	23.07	10.04	7.17	3.43	150
16	S2115SS-16	1100-X	4.02	25.36	12.21	8.54	4.37	234
18	S2115SS-18	1160-X	4.49	26.22	12.21	8.54	4.37	364
20	S2115SS-20	1160-X	5.00	28.51	12.21	8.54	4.37	364
24	S2115SS-24	1250-X	6.06	31.74	12.21	8.54	4.37	582





Series 2115 • 1000-X

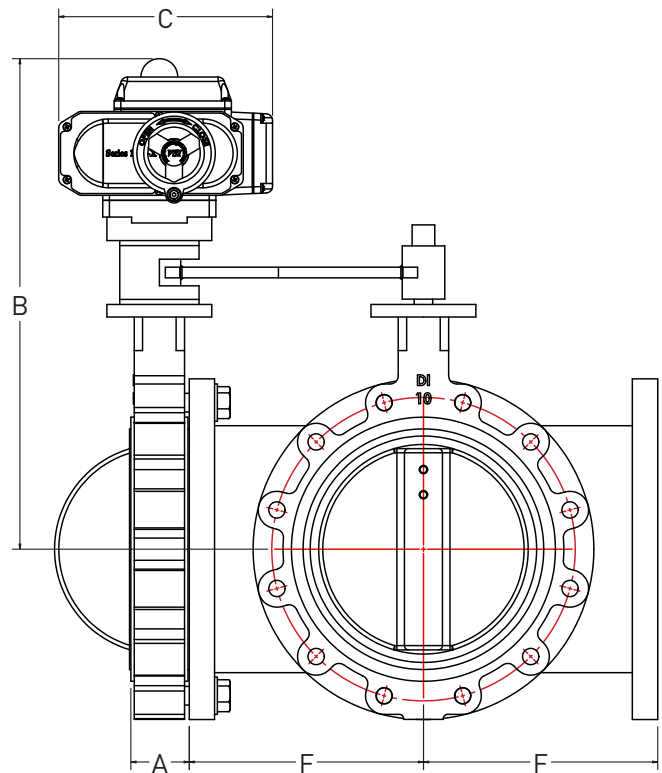
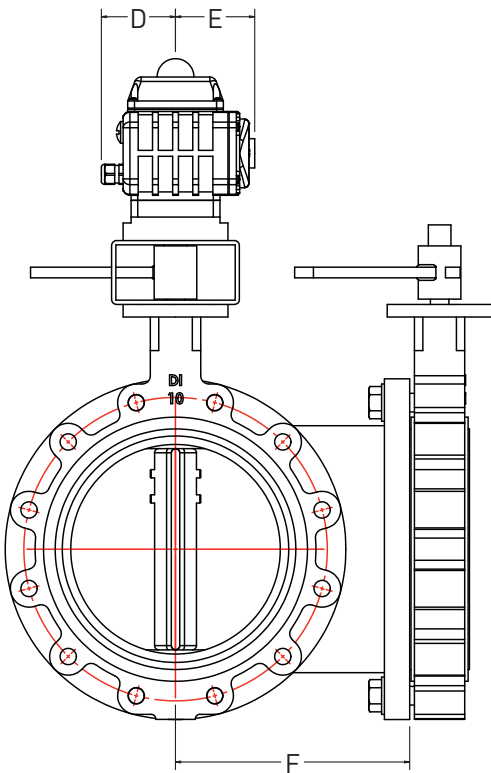
Three-Way 150 PSI Butterfly Valve with Two-Position Electric Actuator

Resilient Seated Butterfly Valve

- Ductile Iron Body
- Max Close-off Pressure: 150 PSI
- Temperature Range: -22° - 250 °F
- Flow Characteristic: Modified Equal Percentage
- Leakage: Bubble Tight Shutoff
- Max Fluid Velocity: 30 FPS

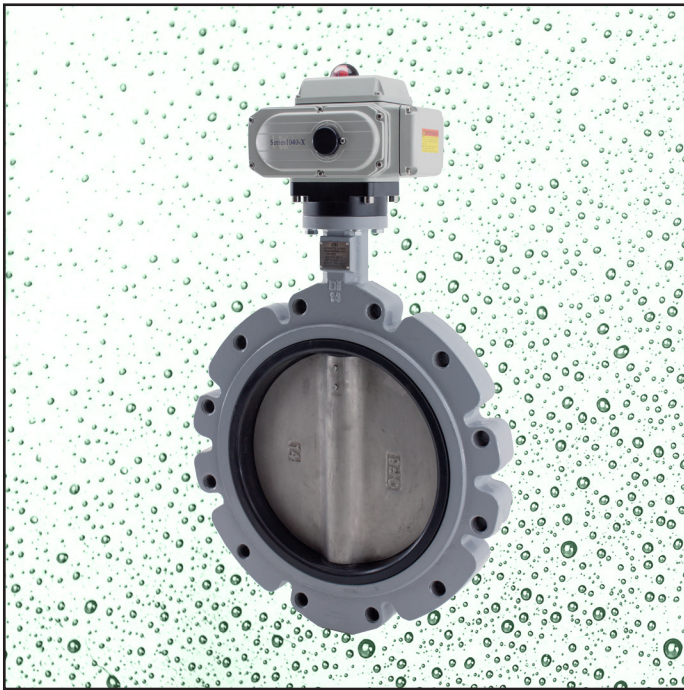
Two-Position Electric Actuator

- 110VDC, 24 VDC, 220VAC, and 24VAC Electric Actuator
- Certifications: CE, NRTL, CSA
- NEMA 4 / 4X watertight, Aluminum Housing
- Torque Output Range: 443 in-lb to 22,127 in-lb
- Handwheel available on 1010-X and higher
- Refer to Section V for detailed actuator information



SIZE IN	VALVE MODEL	ACTUATOR MODEL	A	B	C	D	E	F	WEIGHT (LB)
14	S2115SS-14	1060-X	3.07	25.07	10.04	7.17	3.43	14.00	739
16	S2115SS-16	1100-X	4.02	28.36	12.21	8.54	4.37	15.00	1002
18	S2115SS-18	1160-X	4.49	29.22	12.21	8.54	4.37	16.50	1215
20	S2115SS-20	1250-X	5.00	31.51	12.21	8.54	4.37	18.00	1573





Series 2115 • 1000/S-X

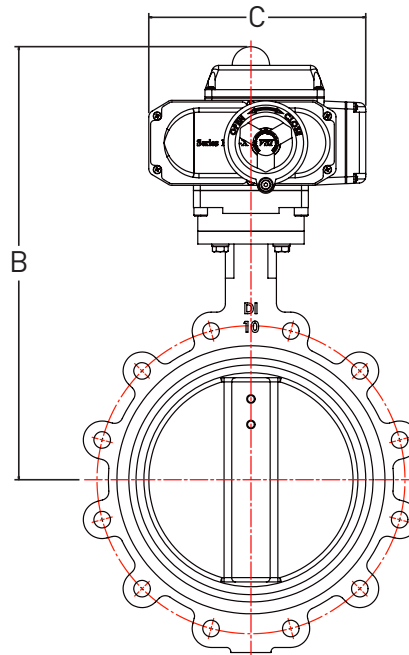
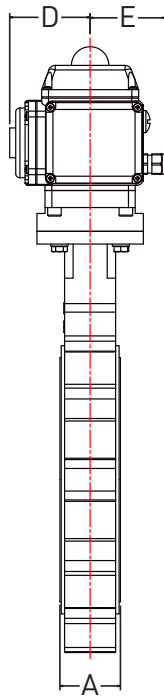
Two-Way 150 PSI Butterfly Valve with Modulating Electric Actuator

Resilient Seated Butterfly Valve

- Ductile Iron Body
- Max Close-off Pressure: 150 PSI
- Temperature Range: -22° - 250 °F
- Flow Characteristic: Modified Equal Percentage
- Leakage: Bubble Tight Shutoff
- Max Fluid Velocity: 30 FPS

Modulating Control Electric Actuator

- 110VDC, 24 VDC, 220VAC, and 24VAC Electric Actuator
- Certifications: CE, NRTL, CSA
- NEMA 4 / 4X watertight, Aluminum Housing
- Control Signal: 2-10 VDC or 4-20 mA
- Torque Output Range: 443 in-lb to 22,127 in-lb
- Handwheel available on 1010/S-X and higher
- Refer to Section V for detailed actuator information



SIZE IN	VALVE MODEL	ACTUATOR MODEL	A	B	C	D	E	WEIGHT (LB)
14	S2115SS-14	1060/S-X	3.07	23.07	10.04	7.17	3.43	151
16	S2115SS-16	1100/S-X	4.02	25.36	12.21	8.54	4.37	235
18	S2115SS-18	1160/S-X	4.49	26.22	12.21	8.54	4.37	365
20	S2115SS-20	1160/S-X	5.00	28.51	12.21	8.54	4.37	365
24	S2115SS-24	1250/S-X	6.06	31.74	12.21	8.54	4.37	583





Series 2115 • 1000/S-X

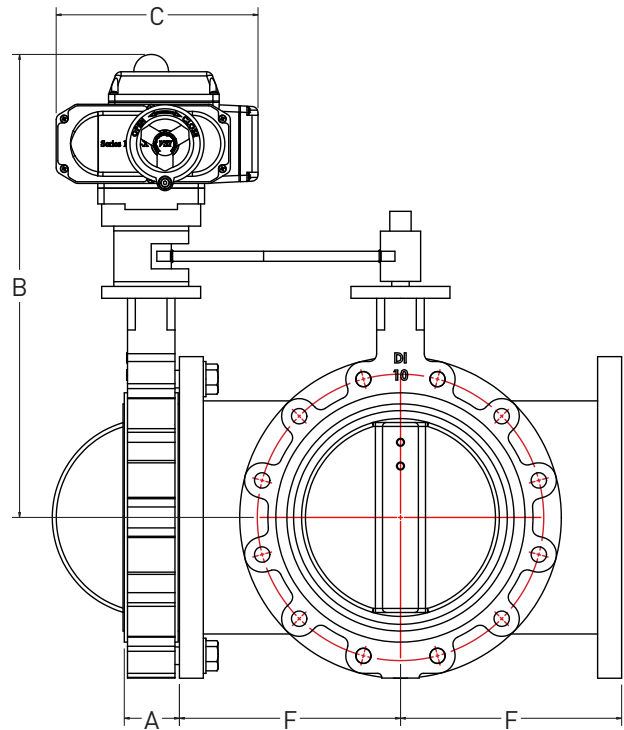
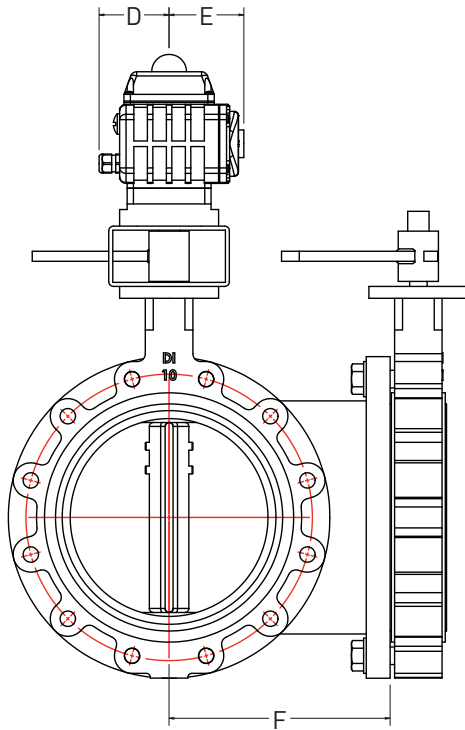
Three-Way 150 PSI Butterfly Valve with Modulating Electric Actuator

Resilient Seated Butterfly Valve

- Ductile Iron Body
- Max Close-off Pressure: 150 PSI
- Temperature Range: -22° - 250 °F
- Flow Characteristic: Modified Equal Percentage
- Leakage: Bubble Tight Shutoff
- Max Fluid Velocity: 30 FPS

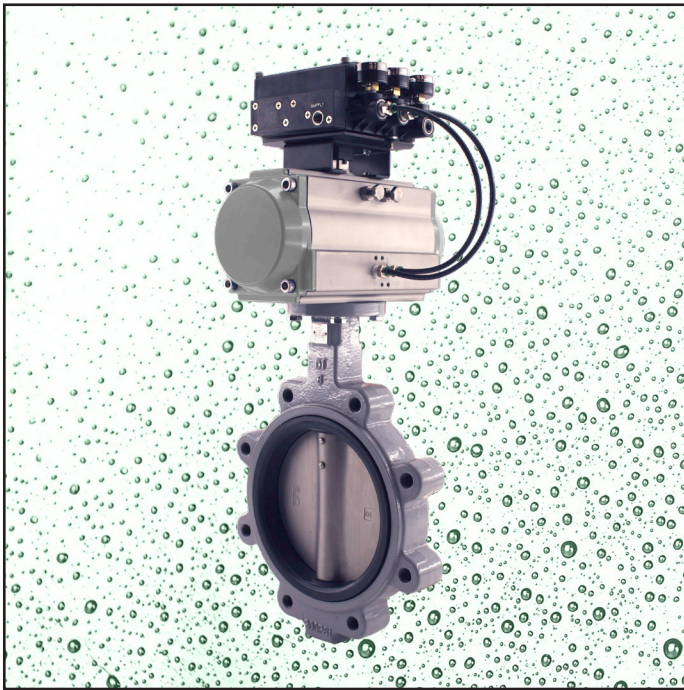
Modulating Control Electric Actuator

- 110VDC, 24 VDC, 220VAC, and 24VAC Electric Actuator
- Certifications: CE, NRTL, CSA
- NEMA 4 / 4X watertight, Aluminum Housing
- Control Signal: 2-10 VDC or 4-20 mA
- Torque Output Range: 443 in-lb to 22,127 in-lb
- Handwheel available on 1010/S-X and higher
- Refer to Section V for detailed actuator information



SIZE IN	VALVE MODEL	ACTUATOR MODEL	A	B	C	D	E	F	WEIGHT (LB)
14	S2115SS-14	1060/S-X	3.07	25.07	10.04	7.17	3.43	14.00	740
16	S2115SS-16	1100/S-X	4.02	28.36	12.21	8.54	4.37	15.00	1002
18	S2115SS-18	1160/S-X	4.49	29.22	12.21	8.54	4.37	16.50	1216
20	S2115SS-20	1250/S-X	5.00	31.51	12.21	8.54	4.37	18.00	1574





Series 2115 • C-DA

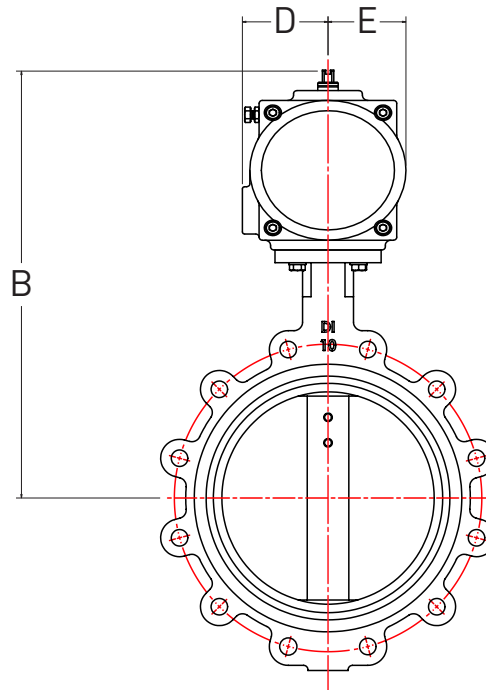
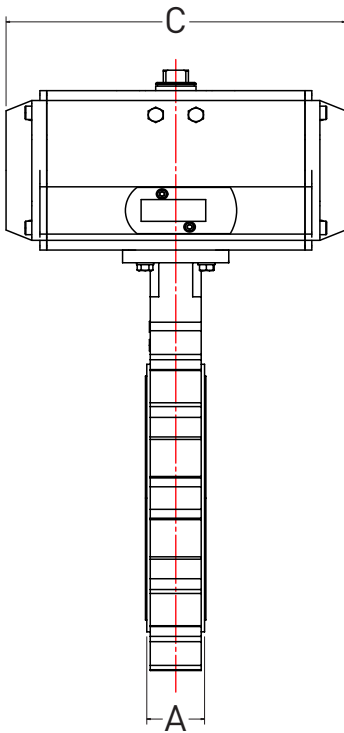
Two-Way 150 PSI Butterfly Valve with Double Acting Pneumatic Actuator

Resilient Seated Butterfly Valve

- Ductile Iron Body
- Max Close-off Pressure: 150 PSI
- Temperature Range: -22° - 250 °F
- Flow Characteristic: Modified Equal Percentage
- Leakage: Bubble Tight Shutoff
- Max Fluid Velocity: 30 FPS

Double Acting High-Pressure Pneumatic Actuator

- Die Cast Aluminum Alloy Body
- Torque Range: 124 in-lb to 40,519 in-lb
- 60 -110 PSI Air Supply Required
- Standard NAMUR mounts
- Refer to Section V for detailed actuator information



Refer to Section VI For Accessories

For Two-Position Control Refer to:
-Solenoid Control Valve
-Limit Switch Box

For Modulating Control Refer to:
-Pneumatic Positioner
-Electro-Pneumatic Positioner
-Dome Indicator Positioner

SIZE IN	VALVE MODEL	ACTUATOR MODEL	A	B	C	D	E	WEIGHT (LB)
14	S2115SS-14	C-DA160	3.07	23.03	18.03	3.43	3.43	170
16	S2115SS-16	C-DA190	4.02	26.00	20.67	4.06	4.06	260
18	S2115SS-18	C-DA240	4.49	29.17	23.70	5.12	5.12	359
20	S2115SS-20	C-DA240	5.00	31.46	23.70	5.12	5.12	440
24	S2115SS-24	C-DA300	6.06	37.01	29.21	6.38	6.38	829

VSI

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Series 2115 • C-DA

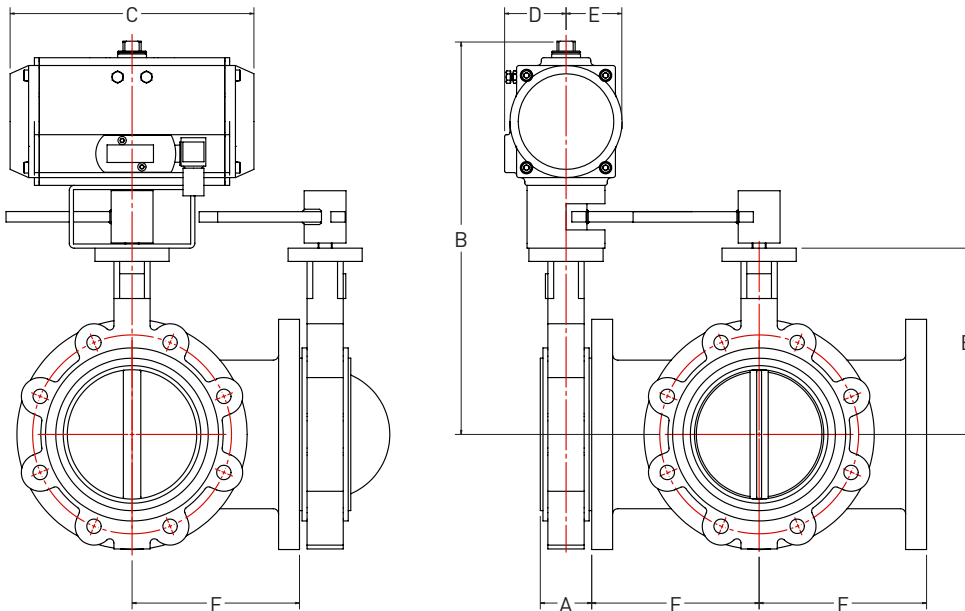
Three-Way 150 PSI Butterfly Valve with Double Acting Pneumatic Actuator

Resilient Seated Butterfly Valve

- Ductile Iron Body
- Max Close-off Pressure: 150 PSI
- Temperature Range: -22° - 250 °F
- Flow Characteristic: Modified Equal Percentage
- Leakage: Bubble Tight Shutoff
- Max Fluid Velocity: 30 FPS

Double Acting High-Pressure Pneumatic Actuator

- Die Cast Aluminum Alloy Body
- Torque Range: 124 in-lb to 40,519 in-lb
- 60 -110 PSI Air Supply Required
- Standard NAMUR mounts
- Refer to Section V for detailed actuator information



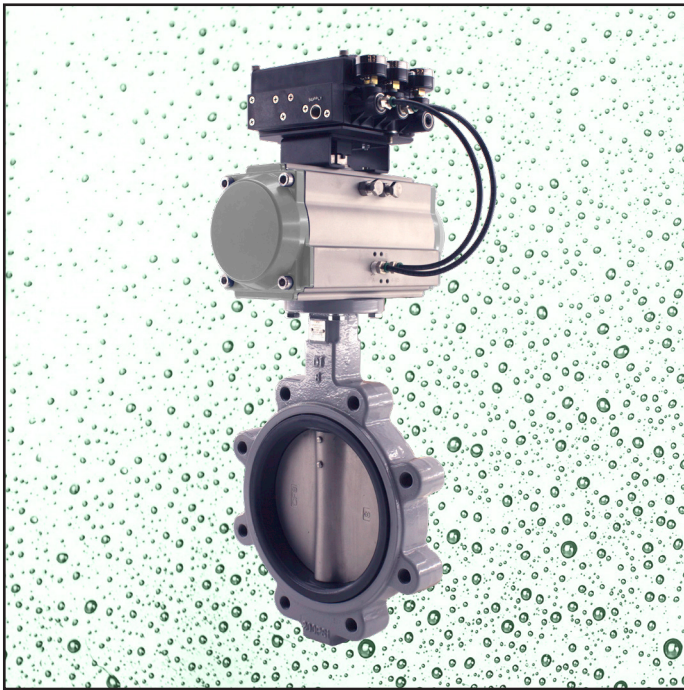
Refer to Section VI For Accessories

For Two-Position Control Refer to:
 -Solenoid Control Valve
 -Limit Switch Box

For Modulating Control Refer to:
 -Pneumatic Positioner
 -Electro-Pneumatic Positioner
 -Dome Indicator Positioner

SIZE IN	VALVE MODEL	ACTUATOR MODEL	A	B	C	D	E	F	WEIGHT (LB)
14	S2115SS-14	C-DA190	3.07	26.55	20.67	4.06	4.06	14.00	170
16	S2115SS-16	C-DA210	4.02	31.79	20.94	4.45	4.45	15.00	260
18	S2115SS-18	C-DA240	4.49	35.17	23.70	5.12	5.12	16.50	359
20	S2115SS-20	C-DA270	5.00	37.73	28.43	5.79	5.79	18.00	440





Series 2115 • C-SR

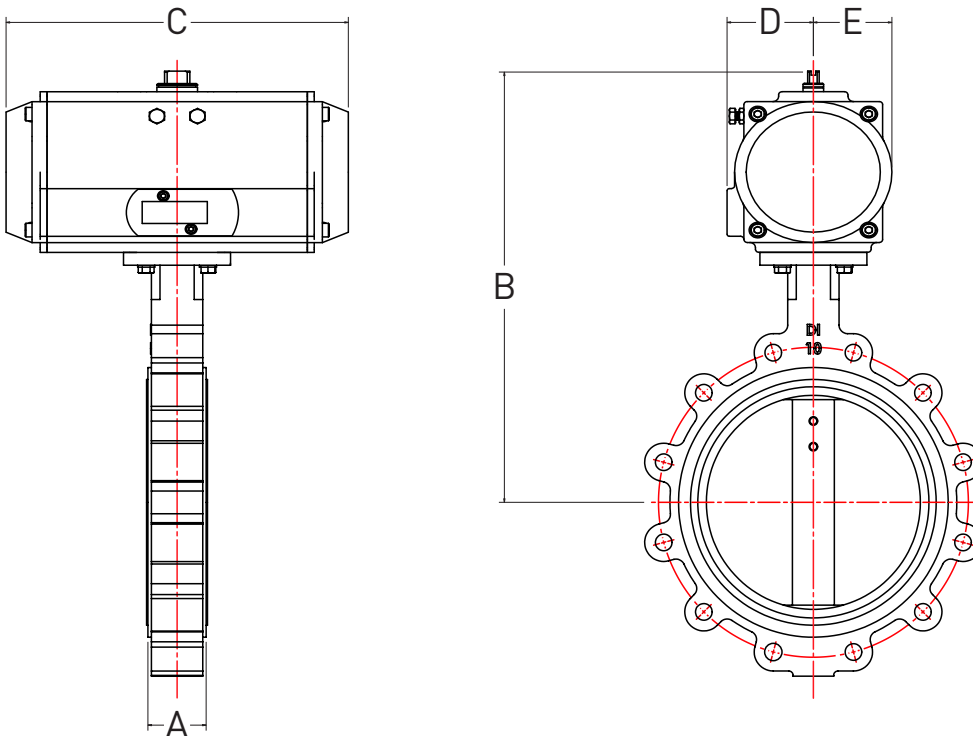
Two-Way 150 PSI Butterfly Valve with Spring Return Pneumatic Actuator

Resilient Seated Butterfly Valve

- Ductile Iron Body
- Max Close-off Pressure: 150 PSI
- Temperature Range: -22° - 250 °F
- Flow Characteristic: Modified Equal Percentage
- Leakage: Bubble Tight Shutoff
- Max Fluid Velocity: 30 FPS

Spring Return High-Pressure Pneumatic Actuator

- Die Cast Aluminum Alloy Body
- Torque Range: 124 in-lb to 15,500 in-lb
- 60 -110 PSI Air Supply Required
- Standard NAMUR mounts
- Refer to Section V for detailed actuator information



Refer to Section VI For Accessories

For Two-Position Control Refer to:
 -Solenoid Control Valve
 -Limit Switch Box

For Modulating Control Refer to:
 -Pneumatic Positioner
 -Electro-Pneumatic Positioner
 -Dome Indicator Positioner

SIZE IN	VALVE MODEL	ACTUATOR MODEL	A	B	C	D	E	WEIGHT (LB)
14	S2115SS-14	C-SR210	3.07	27.53	20.94	4.45	4.45	230
16	S2115SS-16	C-SR240	4.02	28.31	23.70	5.12	5.12	336
18	S2115SS-18	C-SR300	4.49	31.49	29.21	6.38	6.38	582

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Series 2115 • C-SR

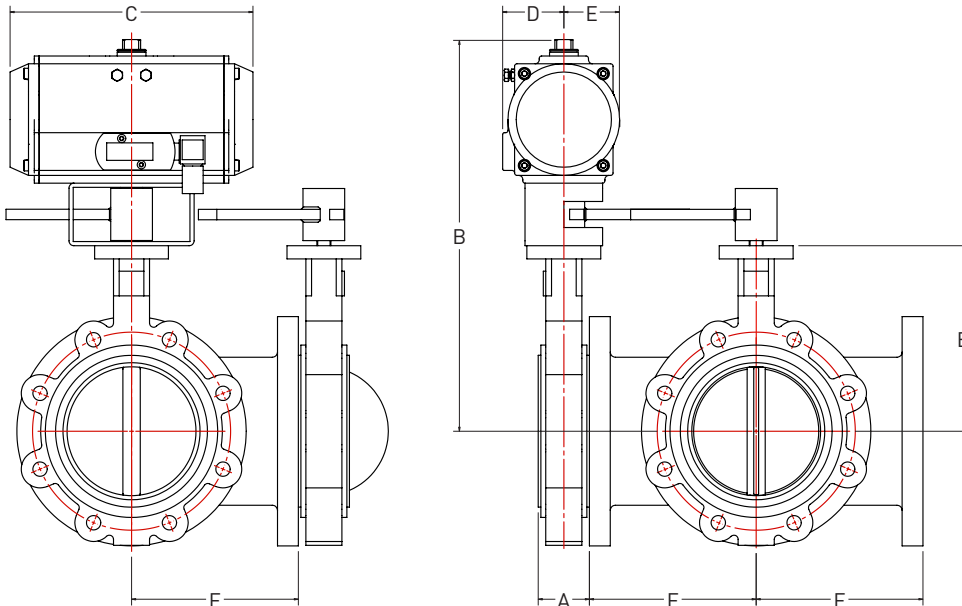
Three-Way 150 PSI Butterfly Valve with Spring Return Pneumatic Actuator

Resilient Seated Butterfly Valve

- Ductile Iron Body
- Max Close-off Pressure: 150 PSI
- Temperature Range: -22° - 250 °F
- Flow Characteristic: Modified Equal Percentage
- Leakage: Bubble Tight Shutoff
- Max Fluid Velocity: 30 FPS

Spring Return High-Pressure Pneumatic Actuator

- Die Cast Aluminum Alloy Body
- Torque Range: 124 in-lb to 15,500 in-lb
- 60 -110 PSI Air Supply Required
- Standard NAMUR mounts
- Refer to Section V for detailed actuator information



Refer to Section VI For Accessories

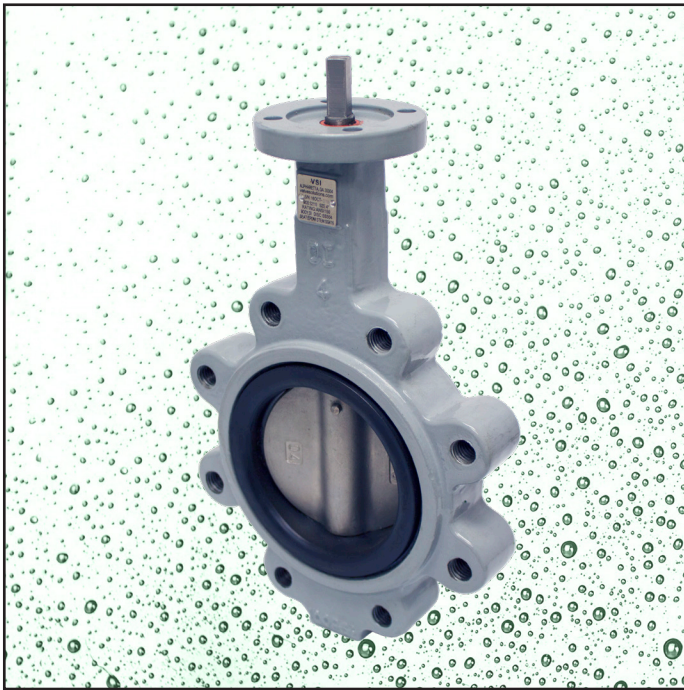
For Two-Position Control Refer to:
 -Solenoid Control Valve
 -Limit Switch Box

For Modulating Control Refer to:
 -Pneumatic Positioner
 -Electro-Pneumatic Positioner
 -Dome Indicator Positioner

SIZE IN	VALVE MODEL	ACTUATOR MODEL	A	B	C	D	E	F	WEIGHT (LB)
14	S2115SS-14	C-SR190	3.07	26.55	20.67	4.06	4.06	14.00	797
16	S2115SS-16	C-SR240	4.02	34.31	23.70	5.12	5.12	15.00	1104
18	S2115SS-18	C-SR270	4.49	35.44	28.43	5.79	5.79	16.50	1400

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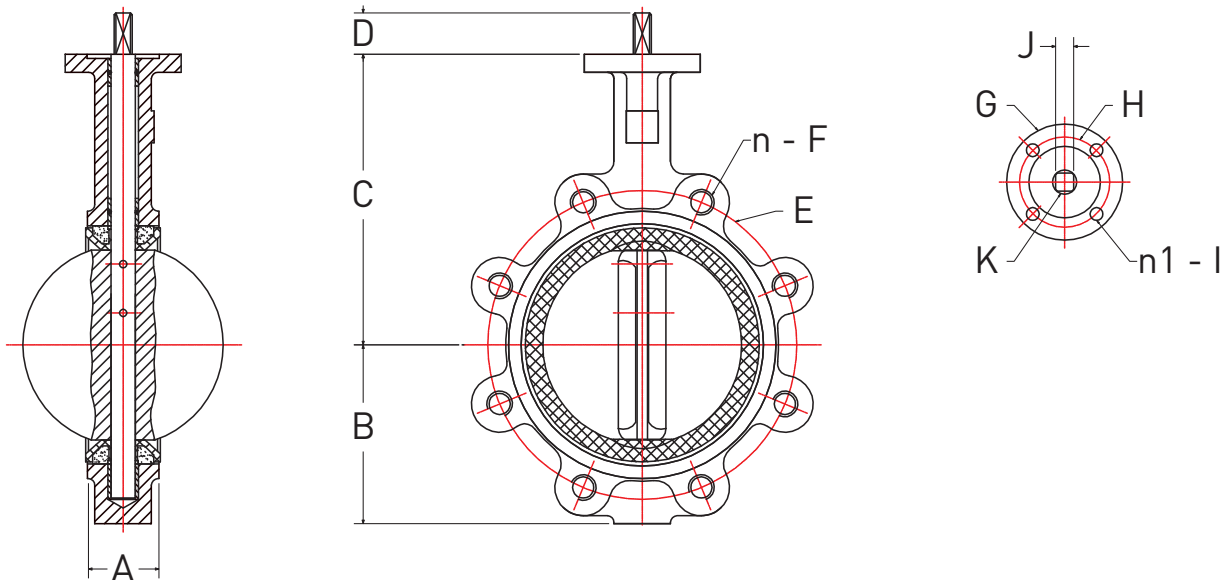


Series 2220

200 PSI Industrial, Replaceable Seat Butterfly Valve

Resilient Seated Butterfly Valve

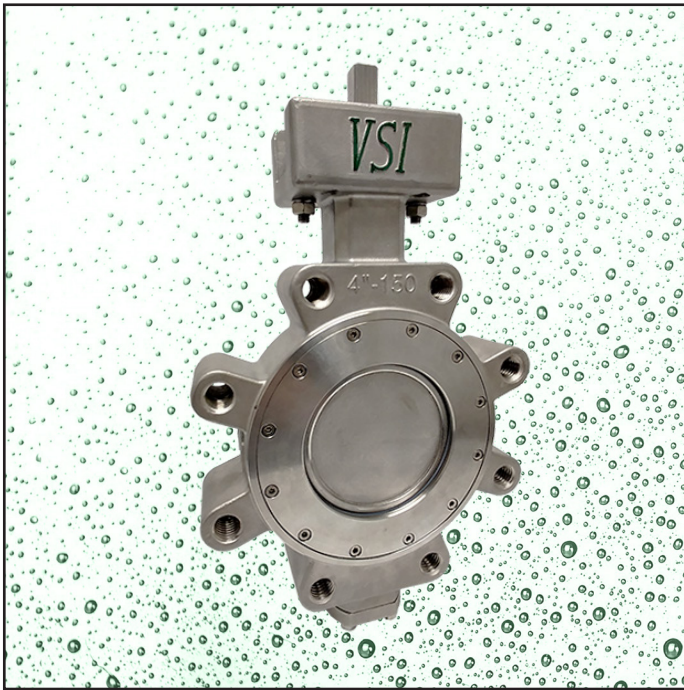
- Applications: HVAC Chillers, Cooling Towers, Boilers, Wastewater, and Pipelines, Paper and Pulp
- Ductile Iron Body
- Lugged ANSI Class 125/150 Flanged
- Max Close-off Pressure: 200 PSI
- Temperature Range: -22° - 250 °F
- Flow Characteristic: Modified Equal Percentage
- Leakage: Bubble Tight Shutoff
- Max Fluid Velocity: 30 FPS
- Bi-directional body and seat design
- Replaceable Seat Options: EPDM, Viton, NBR
- Suitable for Dead End service
- Contact VSI for available Automated Assembly Options



SIZE IN	VALVE MODEL	A	B	C	D	E	n-F	G	H	n1-l	J	K	WEIGHT (LB)
2	S2220SS-02	1.69	3.15	6.34	1.14	4.75	4 - 5/8-11	2.56	1.97	4-0.315	0.35	0.48	8
2½	S2220SS-25	1.81	3.50	6.89	1.14	5.50	4 - 5/8-11	2.56	1.97	4-0.315	0.35	0.48	9
3	S2220SS-03	1.81	3.74	7.13	1.14	6.00	4 - 5/8-11	2.56	1.97	4-0.315	0.35	0.48	10
4	S2220SS-04	2.05	4.49	7.87	1.14	7.50	8 - 5/8-11	3.54	2.76	4-0.394	0.43	0.56	15
5	S2220SS-05	2.21	5.00	8.39	1.14	8.50	8 - 3/4-10	3.54	2.76	4-0.394	0.55	0.71	21
6	S2220SS-06	2.21	5.47	8.90	1.14	9.50	8 - 3/4-10	3.54	2.76	4-0.394	0.55	0.71	24
8	S2220SS-08	2.36	6.89	10.24	1.38	11.75	8 - 3/4-10	4.92	4.02	4-0.472	0.67	0.87	38
10	S2220SS-10	2.68	7.99	11.50	1.38	14.25	12 - 7/8-9	4.92	4.02	4-0.472	0.87	1.11	57
12	S2220SS-12	3.07	9.53	13.27	1.38	17.00	12 - 7/8-9	4.92	4.02	4-0.472	0.87	1.11	87

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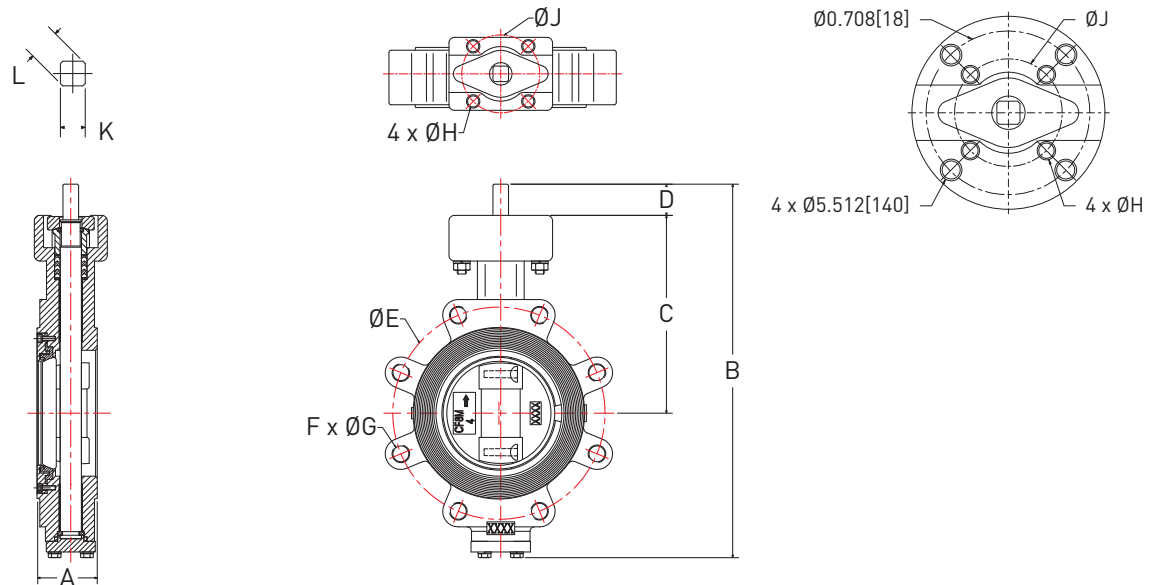


Series 9000

Double Offset High Performance Butterfly Valve

Double Offset Butterfly Valve

- 285 PSI Close off Pressure (WCB Carbon Steel)
- 275 PSI Close Off Pressure (Stainless Steel)
- Temperature Rating up to 650 °F
- PTFE, RTFE, TFM, ALTA, or PEEK Seats available
- Bi-Directional Body and Seat Design
- ISO 5211 Mounting
- Connection: ANSI B16.5 Class 150
- Blow-Out Proof Shaft
- Leakage: Bubble Tight Shutoff
- ANSI Class VI Zero Leakage
- Adjustable Packing Gland
- Three-Way Configurations available, contact VSI for more details



SIZE IN	VALVE MODEL	ØA	B	ØC	D	E	F	ØG	H	ØJ	K	L	WEIGHT (LB)
2	2"S9015-XX	1.74	10.2	4.9	1.1	4.75	4	5/8-11UNC	0.39	2.76	0.433	0.551	10
2½	2.5"S9015-XX	1.84	10.6	5.2	1.1	5.50	4	5/8-11UNC	0.39	2.76	0.433	0.551	12
3	3"S9015-XX	1.96	12.0	6.3	1.1	6.00	4	5/8-11UNC	0.39	2.76	0.433	0.551	24
4	4"S9015-XX	2.13	13.2	7.0	1.1	7.50	8	5/8-11UNC	0.39	2.76	0.551	0.709	42
5	5"S9015-XX	2.26	14.5	7.6	1.1	8.50	8	3/4-10UNC	0.39	2.76	0.551	0.709	29
6	6"S9015-XX	2.26	16.3	8.4	1.1	9.50	8	3/4-10UNC	0.39	2.76	0.551	0.709	36
8	8"S9015-XX	2.56	18.6	9.5	1.2	11.75	8	3/4-10UNC	0.47	4.02	0.866	1.102	56
10	10"S9015-XX	2.86	22.0	11.0	1.2	14.25	12	7/8-9UNC	0.47	4.02	0.866	1.102	85
12	12"S9015-XX	3.19	24.9	12.2	1.5	17.00	12	7/8-9UNC	0.47	4.02	1.063	1.378	132

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Series 9000 • 1000-X

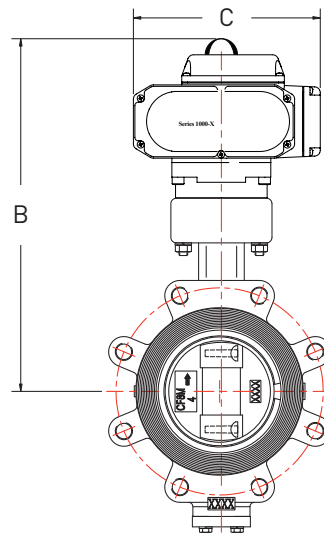
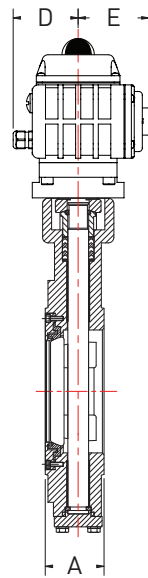
Double Offset High Performance Butterfly Valve with Two-Position Electric Actuator

Double Offset Butterfly Valve

- 285 PSI Close off Pressure (WCB Carbon Steel)
- 275 PSI Close Off Pressure (Stainless Steel)
- Temperature Rating up to 650 °F
- PTFE, RTFE, TFM, ALTA, or PEEK Seats available
- Leakage: Bubble Tight Shutoff
- ANSI Class VI Zero Leakage

Two-Position Electric Actuator

- 110VDC, 24 VDC, 220VAC, and 24VAC Electric Actuator
- Certifications: CE, NRTL, CSA
- NEMA 4 / 4X watertight, Aluminum Housing
- Torque Output Range: 443 in-lb to 22,127 in-lb
- Handwheel available on 1010-X and higher
- Refer to Section V for detailed actuator information



SIZE IN	VALVE MODEL	ACTUATOR MODEL	A	B	C	D	E	WEIGHT (LB)
2	2"S9015-XX	1005-X	1.74	11.22	6.32	2.87	2.48	16
2½	2.5"S9015-XX	1005-X	1.84	11.52	6.32	2.87	2.48	18
3	3"S9015-XX	1010-X	1.96	13.43	7.13	2.91	2.80	24
4	4"S9015-XX	1020-X	2.13	14.13	7.13	3.43	3.74	43
5	5"S9015-XX	1020-X	2.26	16.18	10.04	3.43	3.74	50
6	6"S9015-XX	1020-X	2.26	16.98	10.04	3.43	3.74	57
8	8"S9015-XX	1060-X	2.56	18.08	10.04	3.43	3.74	78
10	10"S9015-XX	1100-X	2.86	20.61	12.20	4.37	5.12	126
12	12"S9015-XX	1100-X	3.19	21.81	12.20	3.47	5.12	173

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Series 9000 • 1000/S-X

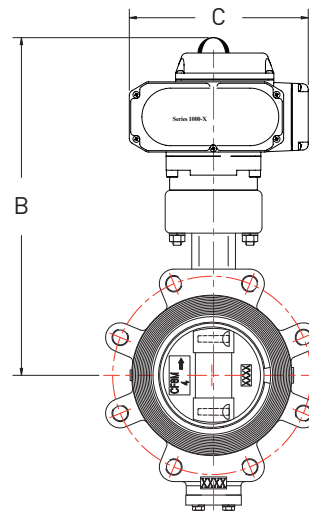
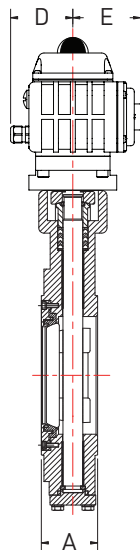
Double Offset High Performance Butterfly Valve with Modulating Electric Actuator

Double Offset Butterfly Valve

- 285 PSI Close off Pressure (WCB Carbon Steel)
- 275 PSI Close Off Pressure (Stainless Steel)
- Temperature Rating up to 650 °F
- PTFE, RTFE, TFM, ALTA, or PEEK Seats available
- Leakage: Bubble Tight Shutoff
- ANSI Class VI Zero Leakage

Modulating Control Electric Actuator

- 110VDC, 24 VDC, 220VAC, and 24VAC Electric Actuator
- Certifications: CE, NRTL, CSA
- NEMA 4 / 4X watertight, Aluminum Housing
- Control Signal: 2-10 VDC or 4-20 mA
- Torque Output Range: 443 in-lb to 22,127 in-lb
- Handwheel available on 1010/S-X and higher
- Refer to Section V for detailed actuator information



SIZE IN	VALVE MODEL	ACTUATOR MODEL	A	B	C	D	E	WEIGHT (LB)
2	2"S9015-XX	1005/S-X	1.74	11.22	6.32	2.87	2.48	17
2½	2.5"S9015-XX	1005/S-X	1.84	11.52	6.32	2.87	2.48	19
3	3"S9015-XX	1010/S-X	1.96	13.43	7.13	2.91	2.80	24
4	4"S9015-XX	1020/S-X	2.13	14.13	7.13	3.43	3.74	43
5	5"S9015-XX	1020/S-X	2.26	16.18	10.04	3.43	3.74	50
6	6"S9015-XX	1020/S-X	2.26	16.98	10.04	3.43	3.74	57
8	8"S9015-XX	1060/S-X	2.56	18.08	10.04	3.43	3.74	78
10	10"S9015-XX	1100/S-X	2.86	20.61	12.20	4.37	5.12	126
12	12"S9015-XX	1100/S-X	3.19	21.81	12.20	3.47	5.12	173





Series 9000 • C-DA

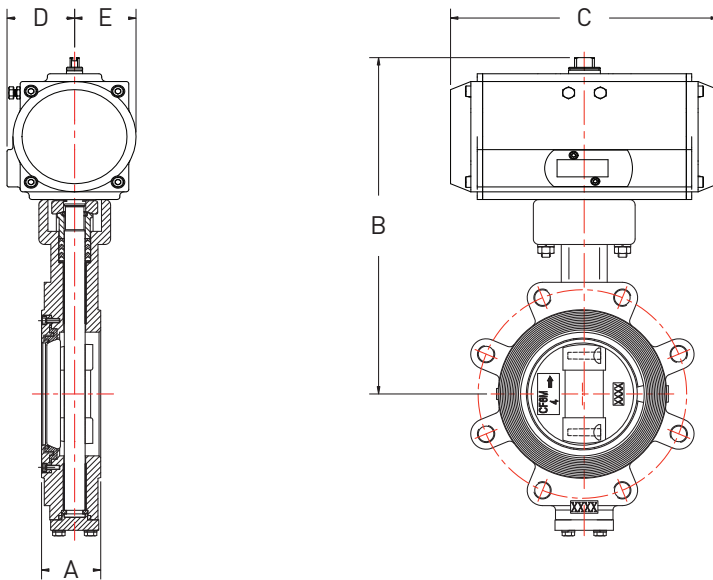
Double Offset High Performance Butterfly Valve with Double Acting Pneumatic Actuator

Double Offset Butterfly Valve

- 285 PSI Close off Pressure (WCB Carbon Steel)
- 275 PSI Close Off Pressure (Stainless Steel)
- Temperature Rating up to 650 °F
- PTFE, RTFE, TFM, ALTA, or PEEK Seats available
- Leakage: Bubble Tight Shutoff
- ANSI Class VI Zero Leakage

Double Acting High-Pressure Pneumatic Actuator

- Die Cast Aluminum Alloy Body
- Torque Range: 124 in-lb to 40,519 in-lb
- 60 -110 PSI Air Supply Required
- Standard NAMUR mounts
- Refer to Section V for detailed actuator information



Refer to Section VI For Accessories

For Two-Position Control Refer to:
 -Solenoid Control Valve
 -Limit Switch Box

For Modulating Control Refer to:
 -Pneumatic Positioner
 -Electro-Pneumatic Positioner
 -Dome Indicator Positioner

SIZE IN	VALVE MODEL	ACTUATOR MODEL	A	B	C	D	E	WEIGHT (LB)
2	2"S9015-XX	C-DA063	1.74	9.13	6.61	1.85	1.42	15
2½	2.5"S9015-XX	C-DA063	1.84	9.43	6.61	1.85	1.42	16
3	3"S9015-XX	C-DA083	1.96	11.37	8.03	2.24	1.81	21
4	4"S9015-XX	C-DA083	2.13	12.07	8.03	2.24	1.81	29
5	5"S9015-XX	C-DA092	2.26	12.97	10.31	2.30	1.97	39
6	6"S9015-XX	C-DA105	2.26	14.42	10.55	2.52	2.26	49
8	8"S9015-XX	C-DA140	2.56	17.06	15.35	3.03	2.95	85
10	10"S9015-XX	C-DA140	2.86	18.56	15.35	3.03	2.95	114
12	12"S9015-XX	C-DA160	3.19	20.74	18.03	3.43	3.43	173

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Series 9000 • C-SR

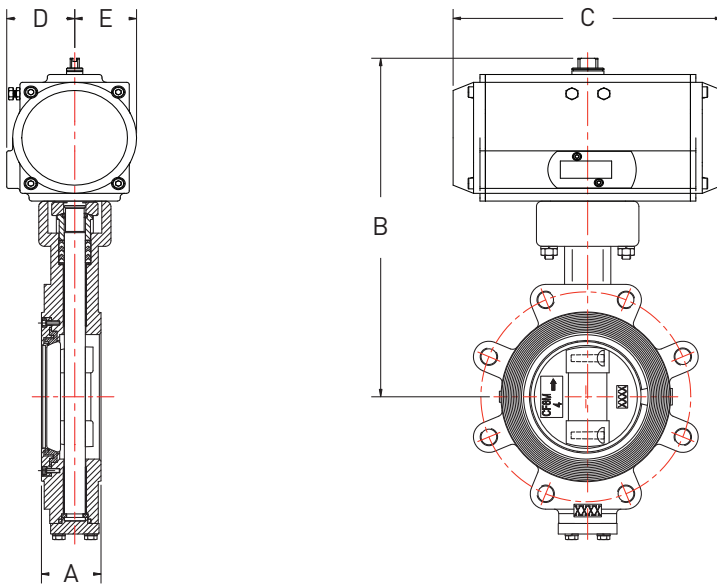
Double Offset High Performance Butterfly Valve with Spring Return Pneumatic Actuator

Double Offset Butterfly Valve

- 285 PSI Close off Pressure (WCB Carbon Steel)
- 275 PSI Close Off Pressure (Stainless Steel)
- Temperature Range: -22° - 250 °F
- Flow Characteristic: Linear
- Leakage: Bubble Tight Shutoff
- Max Fluid Velocity: 30 FPS

Spring Return High-Pressure Pneumatic Actuator

- Die Cast Aluminum Alloy Body
- Torque Range: 124 in-lb to 15,500 in-lb
- 60 -110 PSI Air Supply Required
- Standard NAMUR mounts
- Refer to Section V for detailed actuator information



Refer to Section VI For Accessories

For Two-Position Control Refer to:
 -Solenoid Control Valve
 -Limit Switch Box

For Modulating Control Refer to:
 -Pneumatic Positioner
 -Electro-Pneumatic Positioner
 -Dome Indicator Positioner

SIZE IN	VALVE MODEL	ACTUATOR MODEL	A	B	C	D	E	WEIGHT (LB)
2	2"S9015-XX	C-SR083	1.74	9.97	8.03	2.24	1.81	18
2½	2.5"S9015-XX	C-SR092	1.84	10.57	10.31	2.30	1.97	23
3	3"S9015-XX	C-SR092	1.96	11.67	10.31	2.30	1.97	25
4	4"S9015-XX	C-SR125	2.13	13.89	11.85	2.93	2.66	44
5	5"S9015-XX	C-SR125	2.26	14.49	11.85	2.93	2.66	51
6	6"S9015-XX	C-SR140	2.26	15.96	15.35	3.03	2.95	70
8	8"S9015-XX	C-SR160	2.56	18.04	18.03	3.43	3.43	107
10	10"S9015-XX	C-SR190	2.86	21.24	20.67	4.06	4.06	164
12	12"S9015-XX	C-SR240	3.19	24.76	23.70	5.12	5.12	275

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Notes



Notes





Section V: Actuators

VSI offers various valve actuators and automation services to provide complete turnkey packages. Our wide selection includes industrial or commercial duty electric actuators available in multiple voltages, high or low-pressure pneumatic actuators and critical application actuators upon request.

The Series 1000-X industrial duty, quarter-turn electric actuator anchors VSI's electric actuator family. It is a compact, NEMA 4X rated, weatherproof actuator specifically designed for any rotary valve. Options include two-position/floating or modulating service. All motors feature a minimum duty cycle of at least 70% for reliable operation.

The Series C pneumatic actuator is the workhorse of VSI's pneumatic actuator family. It features rack and pinion operation requires 50-130 psi air supply and is available in either double acting or spring return configurations to comply with project requirements. Standard features include an ISO 5211 mounting pattern and both NAMUR air supply and top-mount to accommodate required solenoid, switch box or positioner accessories.

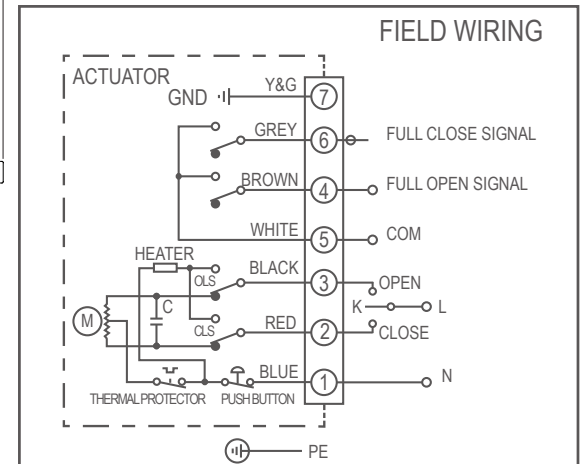
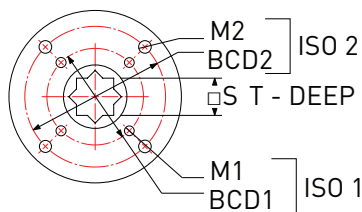
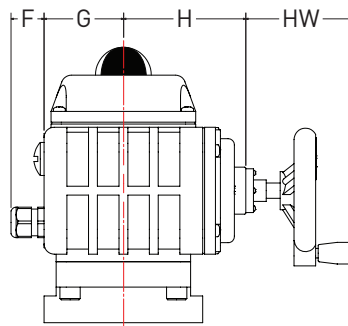
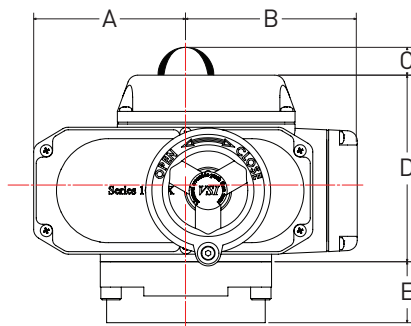




Series 1000-X

Series 1000-X Two-Position Industrial Electric Actuator

- NEMA 4 / 4X Cast Aluminum Body
- Certifications: CE, NRTL, NEMA 4, CSA
- Torque Output range from 443 in-lb to 22,127 in-lb
- ISO 5211 Standard Mounting Configuration
- Visual Position Indicator
- Thermal Overload Protection
- Manual Override Power Switch
- 110VDC, 24 VDC, 220VAC, and 24VAC power options
- 2 x 1/2" NPT Conduit Entries for power and control wiring
- 2 SPDT Switches Included
- Handwheel available for 1010-X and higher



ACTUATOR MODEL	A	B	C	D	E	F	G	H	HW	ISO1	BCD1	M1	ISO2	BCD2	M2	S	T	WEIGHT (LB)
1005-X	3.27	6.30	0.94	4.41	3.43	6.34	3.15	4.75	--	F05	1.97	M6	F07	2.756	M8	0.55	1.25	6
1010-X	3.86	6.30	0.94	4.41	3.43	6.89	3.50	5.50	3.43	F05	1.97	M6	F07	2.756	M8	0.67	1.25	10
1020-X	4.76	6.30	0.94	4.41	3.43	7.13	3.74	6.00	3.43	F07	2.76	M8	F10	4.016	M10	1.06	1.77	20
1040-X	4.76	6.30	0.94	4.41	3.43	7.13	3.74	6.00	3.43	F07	2.76	M8	F10	4.016	M10	1.06	1.77	21
1060-X	4.76	6.30	0.94	4.41	3.43	7.13	3.74	6.00	3.43	F07	2.76	M8	F10	4.016	M10	1.06	1.77	21
1100-X	5.83	6.30	0.94	4.41	3.43	7.87	4.49	7.50	3.43	F07	4.02	M10	F14	5.510	M16	1.42	2.13	41
1160-X	5.83	6.30	0.94	4.41	3.43	7.87	4.49	7.50	3.43	F07	4.02	M10	F14	5.510	M16	1.42	2.13	41
1250-X	5.83	6.30	0.94	4.41	3.43	7.87	4.49	7.50	3.43	F07	4.02	M10	F14	5.510	M16	1.42	2.13	42

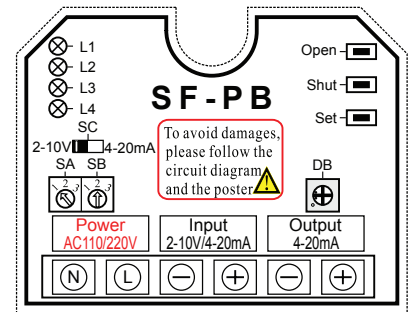
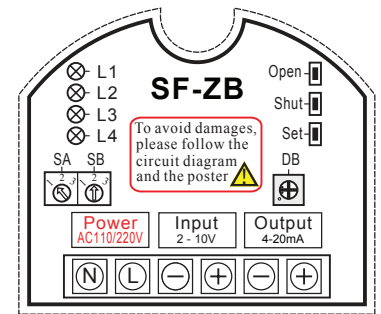
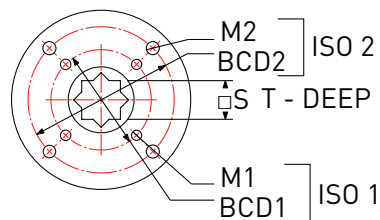
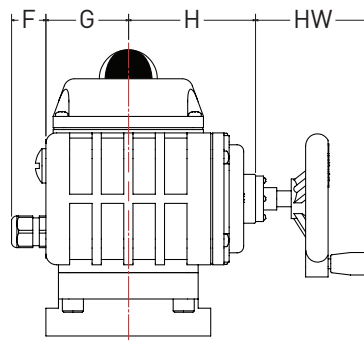
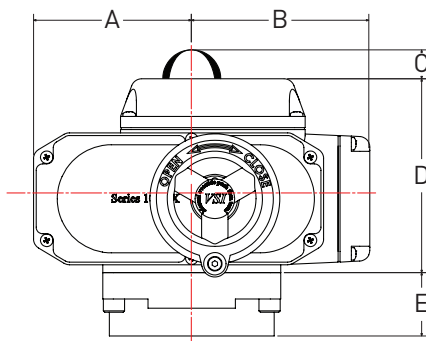




Series 1000/S-X

Series 1000/S-X Modulating Industrial Electric Actuator

- NEMA 4 / 4X Cast Aluminum Body
- Certifications: CE, NRTL, NEMA 4, CSA
- Torque Output range from 443 in-lb to 22,127 in-lb
- ISO 5211 Standard Mounting Configuration
- Visual Position Indicator
- Thermal Overload Protection
- Induction Type, 120VAC Electric Motor with Class F Insulation Rated 80% Duty Cycle
- Modulating Control over the entire range of motion
- Control Signal: 2-10 VDC or 4-20 mA
- Module provides 4-20mA output for feedback.
- 2 SPDT Switches Optional
- Handwheel available for 1010/S-X and higher



ACTUATOR MODEL	A	B	C	D	E	F	G	H	HW	ISO1	BCD1	M1	ISO2	BCD2	M2	S	T	WEIGHT (LB)
1005/S-X	3.27	6.30	0.94	4.41	3.43	6.34	3.15	4.75	--	F05	1.97	M6	F07	2.756	M8	0.55	1.25	7
1010/S-X	3.86	6.30	0.94	4.41	3.43	6.89	3.50	5.50	3.43	F05	1.97	M6	F07	2.756	M8	0.67	1.25	10
1020/S-X	4.76	6.30	0.94	4.41	3.43	7.13	3.74	6.00	3.43	F07	2.76	M8	F10	4.016	M10	1.06	1.77	21
1040/S-X	4.76	6.30	0.94	4.41	3.43	7.13	3.74	6.00	3.43	F07	2.76	M8	F10	4.016	M10	1.06	1.77	22
1060/S-X	4.76	6.30	0.94	4.41	3.43	7.13	3.74	6.00	3.43	F07	2.76	M8	F10	4.016	M10	1.06	1.77	22
1100/S-X	5.83	6.30	0.94	4.41	3.43	7.87	4.49	7.50	3.43	F07	4.02	M10	F14	5.510	M16	1.42	2.13	41
1160/S-X	5.83	6.30	0.94	4.41	3.43	7.87	4.49	7.50	3.43	F07	4.02	M10	F14	5.510	M16	1.42	2.13	42
1250/S-X	5.83	6.30	0.94	4.41	3.43	7.87	4.49	7.50	3.43	F07	4.02	M10	F14	5.510	M16	1.42	2.13	43

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Series C

Series C High-Pressure Pneumatic Actuator

- Die Cast Aluminum twin rack pistons for fast operations and a long life cycle
- High precision pinion to ISO5211, DIN3337, NAMUR standards
- Double acting operation allows for 90 degrees of rotation
- Durable hard anodized Aluminum body
- High visibility mechanical position indicator
- Independent external adjustable stops
- 60 - 110 PSI Air Supply Required
- Double Acting and Spring Return Models Available

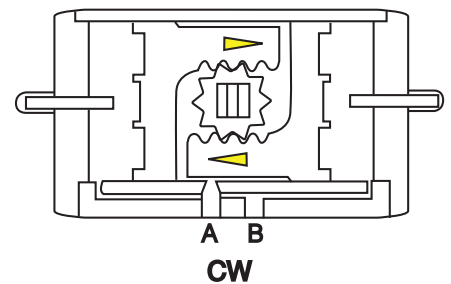
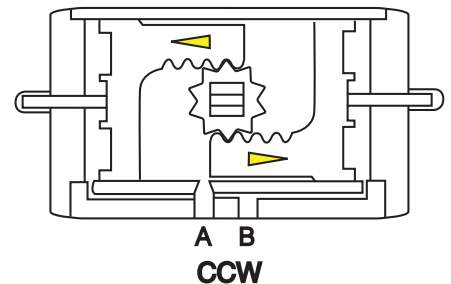
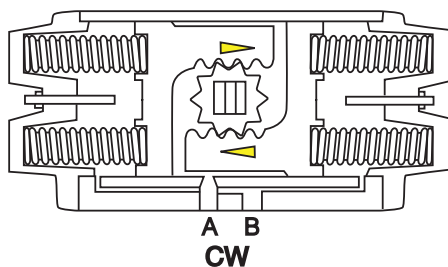
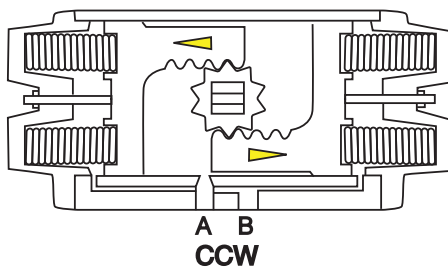
Double Acting Operation

CCW

Air is supplied to Port A forcing the pistons away from each other (towards ends), rotating the drive pinion counter-clockwise and exhausting air out of Port B

CW

Air is supplied to Port B forcing the pistons toward each other (towards the center), rotating the drive pinion clockwise and exhausting air out of Port A



Spring Return Operation

FAIL CCW

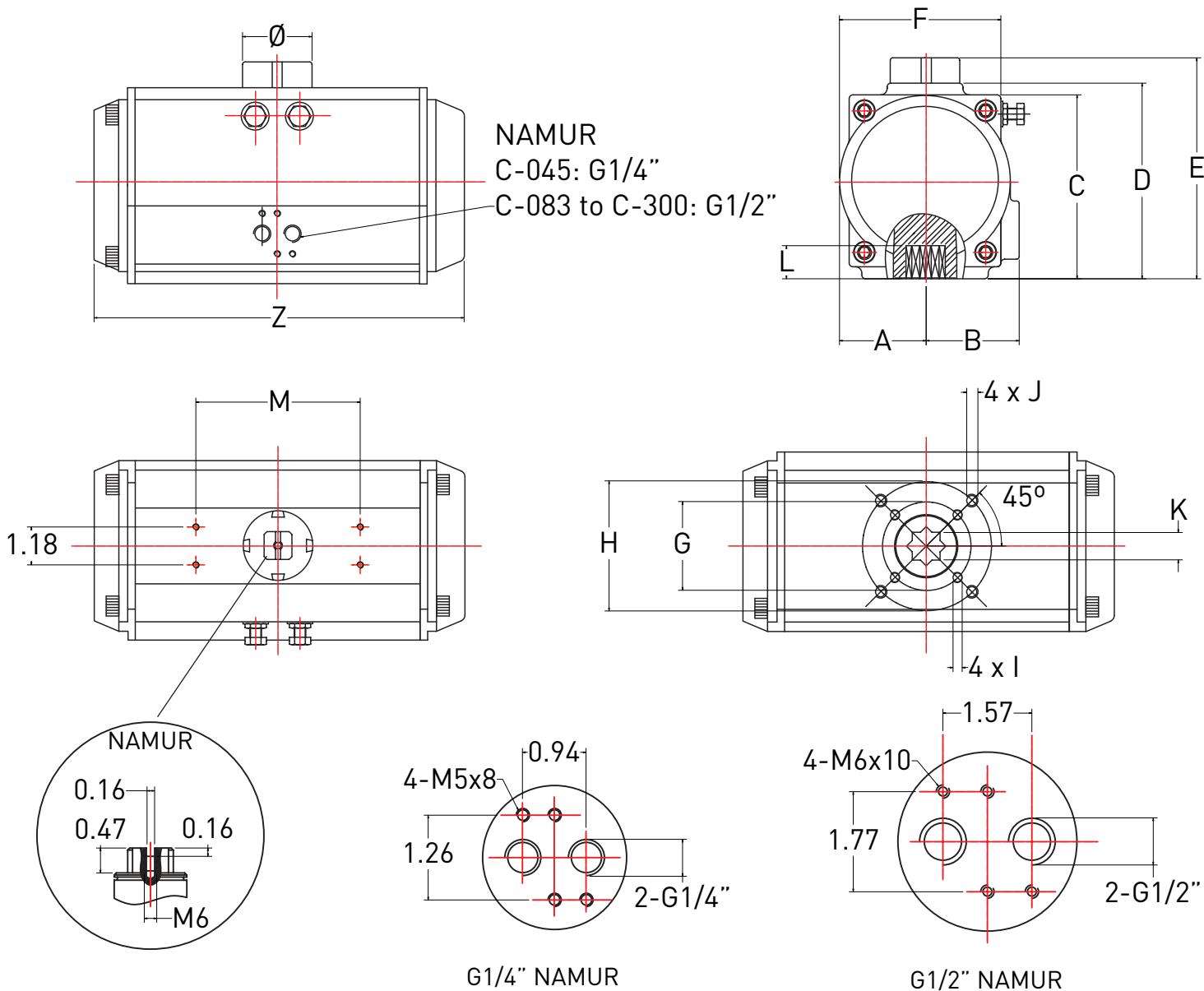
Air is supplied to Port A forcing the pistons away from each other (towards ends), rotating the drive pinion counter-clockwise, compressing the springs and exhausting air out of Port B

FAIL CW

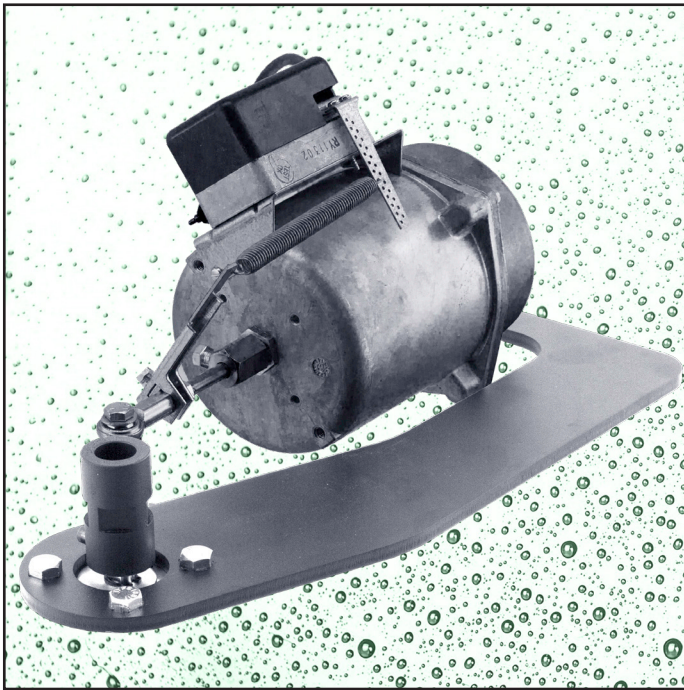
Air failure (loss of pressure) allows the compressed springs to force the pistons toward each other (towards the center), rotating the drive pinion clockwise and exhausting air out of Port A

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MODEL	A	B	C	D	E	F	Ø G	Ø H	I	J	K	L	M	Z	Ø	AIR CONNECTION	WEIGHT (LB)
C-045	1.12	1.44	0.55	2.36	3.15	2.05	1.42	1.99	M5x8	M6x10	0.43	0.55	3.15	4.80	1.57	NAMUR G1/4"	2.5
C-063	1.42	1.85	3.19	3.44	4.23	2.83	1.97	2.76	M6x10	M8x13	0.55	0.71	3.15	6.61	1.57	NAMUR G1/4"	4.6
C-083	1.81	2.24	3.88	4.28	5.07	3.62	1.97	2.76	M6x10	M8x13	0.67	0.83	3.15	8.03	1.57	NAMUR G1/4"	6.9
C-092	1.97	2.30	4.37	4.59	5.37	3.86	1.97	2.76	M6x10	M8x13	0.67	0.83	3.15	10.31	1.57	NAMUR G1/4"	9.8
C-105	2.26	2.52	4.82	5.24	6.02	4.31	2.76	4.02	M8x13	M10x16	0.87	1.02	3.15	10.55	1.57	NAMUR G1/4"	13.0
C-125	2.66	2.93	5.73	6.10	6.89	5.02	2.76	4.02	M8x13	M10x16	0.87	1.02	3.15	11.85	1.57	NAMUR G1/4"	19.4
C-140	2.95	3.03	6.34	6.77	7.56	5.41	4.02	4.92	M10x16	M12x20	1.06	1.22	3.15	15.35	1.57	NAMUR G1/4"	29.0
C-160	3.43	3.43	7.24	7.76	8.54	6.22	4.02	4.92	M10x16	M12x20	1.06	1.22	3.15	18.03	2.17	NAMUR G1/4"	41.0
C-190	4.06	4.06	8.39	9.06	10.24	7.44	-	5.51	-	M16x25	1.42	1.57	5.12	20.67	3.15	NAMUR G1/4"	83.0
C-210	4.45	4.45	9.27	10.04	11.22	8.27	-	5.51	-	M16x25	1.42	1.57	5.12	20.94	3.15	NAMUR G1/4"	117.0
C-240	5.12	5.12	10.41	11.38	12.56	9.65	-	6.50	-	M20x25	1.81	1.97	5.12	23.70	3.15	NAMUR G1/4"	185.0
C-270	5.79	5.79	11.77	12.83	14.02	10.75	-	6.50	-	M20x25	1.81	1.97	5.12	28.43	3.15	NAMUR G1/2"	185.0
C-300	6.38	6.38	13.70	13.70	14.88	12.76	6.50	8.46	M20x25	M20x25	1.81	2.36	5.12	29.21	3.15	NAMUR G1/2"	289.0



Series L

Series L Low-Pressure Pneumatic Actuator

- Die-Cast Aluminum Body
- Diaphragm: Synthetic Elastomer
- Spring Range: 8-13 PSI
- 25 PSI Air Supply Required
- Stroke Range: 3"-6"
- 1/8" NPT Barbed fitting
- Available in 2-Position and Modulating Control

Pilot Positioner

- Optional Pilot Positioner allows Modulating Control
- Start Point: Adjustable from 2-12 PSI
- Span: Adjustable from 3-15 PSI
- Max Air Supply: 25 PSI
- Tandem Mounting Available
- Contact VSI for more details

D-3153-5130

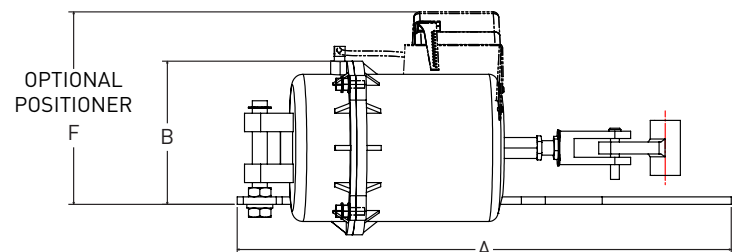
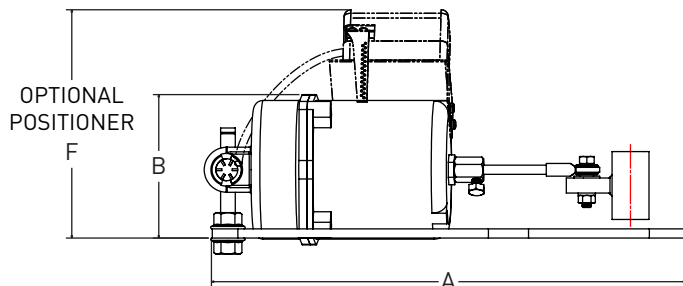
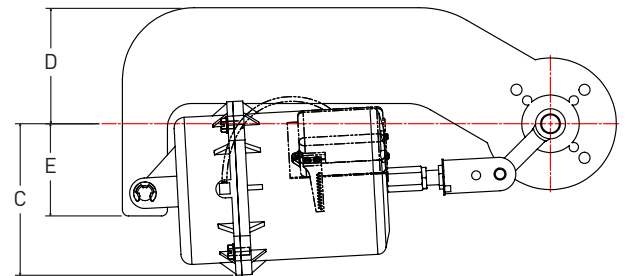
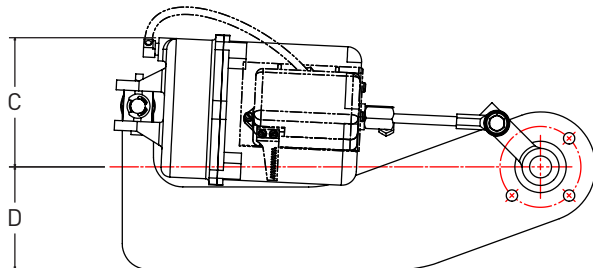
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D-3244-5110

D-3244-5100

D-3246-5110

D-3246-5100

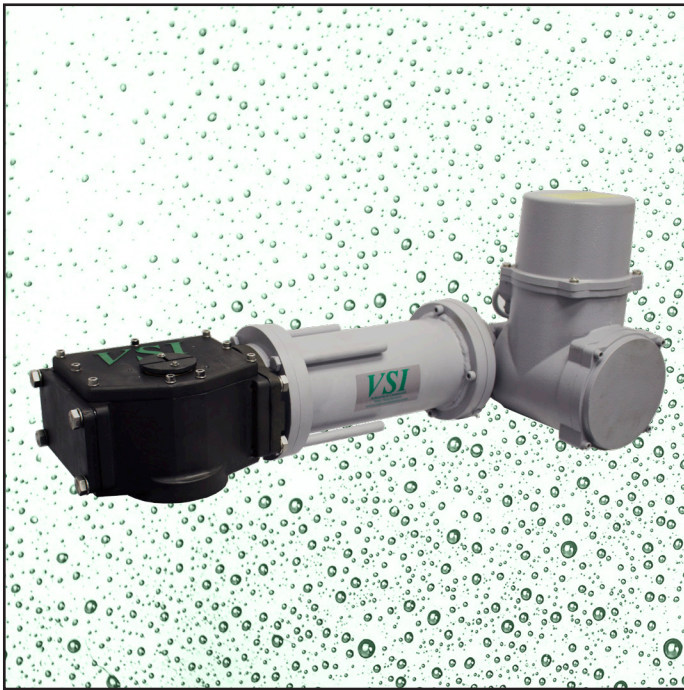


* Indicates Optional Positioner

ACTUATOR MODEL	A	B	C	D	E	F	WEIGHT (LB)
D-3153-5130	14.25	4.88	4.40	3.49	--	--	15
D-3153-5120*	14.25	4.88	4.40	3.49	--	7.78	16
D-3244-5110	17.88	6.60	6.33	4.85	3.85	--	30
D-3244-5100*	17.88	6.60	6.33	4.85	3.85	8.03	32
D-3246-5110	22.75	6.08	7.28	5.63	5.13	--	49
D-3246-5100*	22.75	6.08	7.28	5.63	5.13	7.88	51

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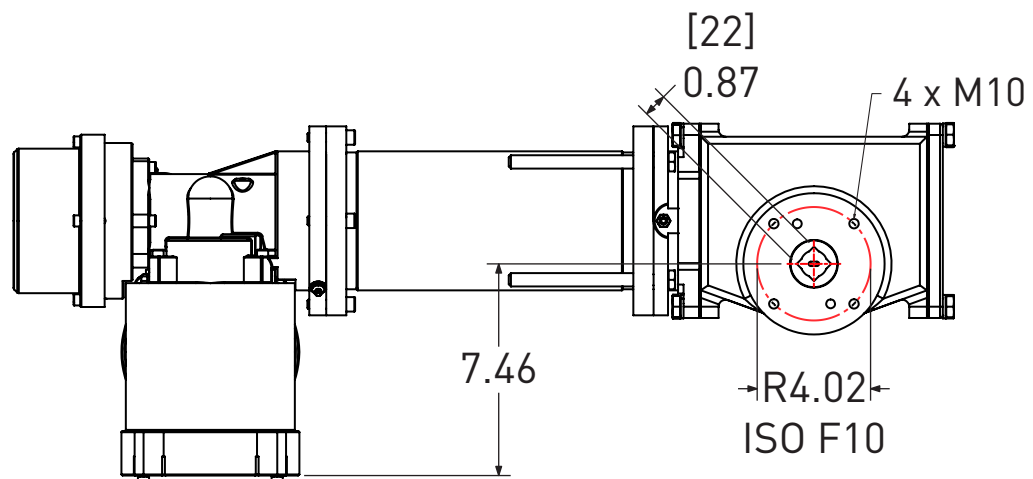
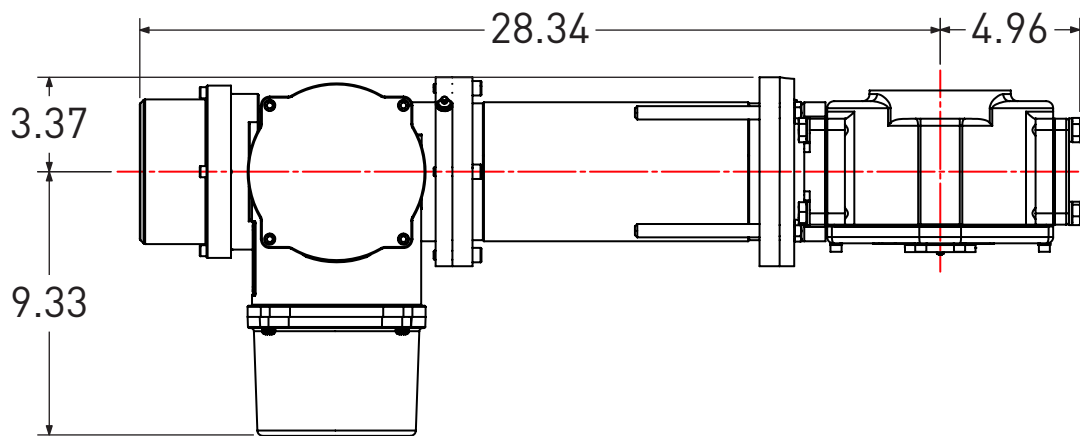
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Series EXCM

Spring Return Rotary Electric Actuator

- Explosion Proof EX II 2 G Exdell CT4 GB
- ISO 5211 Standard Mounting
- Multi-Voltage input 90-240VAC +/-%, 50/60Hz
- Enclosed, reversible permanent magnet, electric motor with an integrated processor control unit with frequency control technology
- Thermal Overload Motor Protection
- DIN rail mounted type Terminal Strip
- 1 x 1" NPT Conduit Entries
- Operating Temperature: -40F to 140F

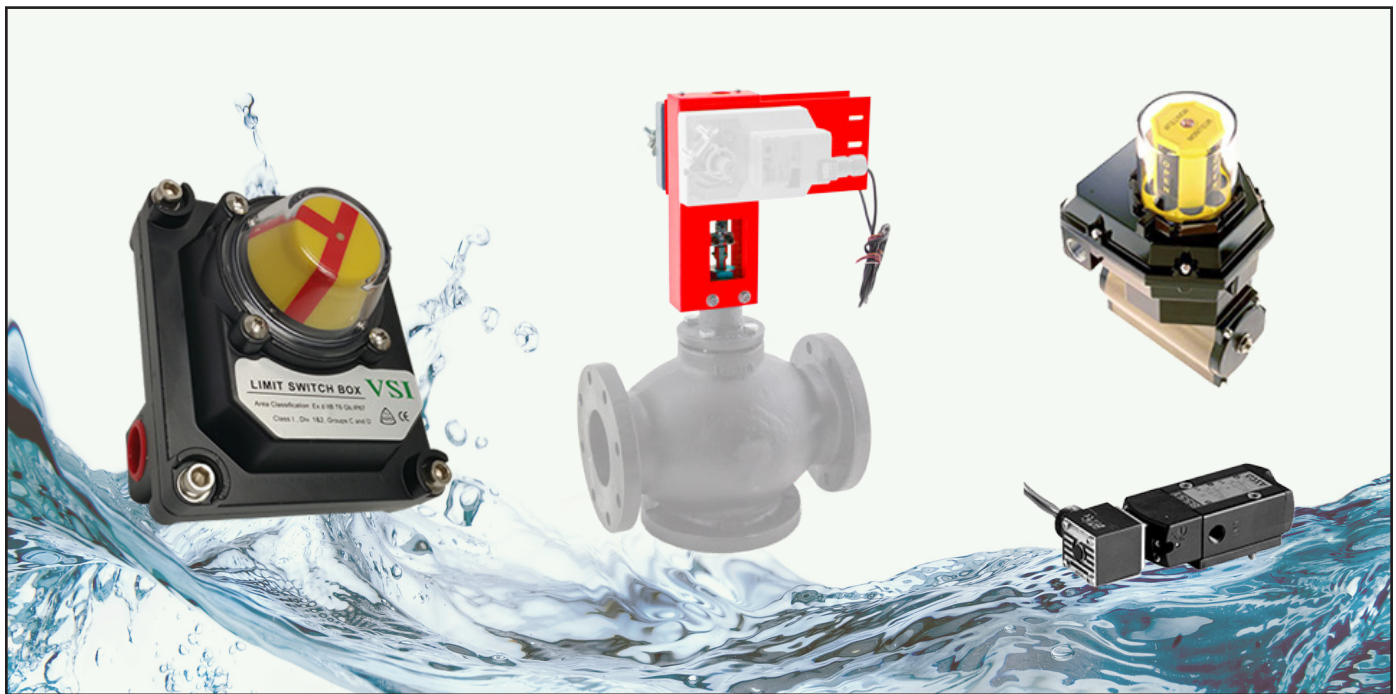


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Notes





Section VI: Accessories

VSI offers various accessories critical to valve automation including limit switches, solenoids, positioners, and gear operators. These accessories can be used in conjunction with the VSI product lines as well as other manufacturers products.

The Series ALS Limit Switch and the Moniteur Limit Switch both provide visible and electrical feedback for any rotary application. Either limit switch offers robust and durable options to withstand even the harshest environments.

The VRC Positioner and the Moniteur Series 40 Positioner are advanced pneumatic or electronic devices necessary in most control valve environments. They offer simplistic adjustments that can adapt to every quarter turn application.

VSI can also provide Retrofit Solutions for linear(globe) and rotary(ball/butterfly) assemblies by utilizing our in-house machine capabilities. Let VSI provide a custom electronic or pneumatic retrofit solution for your existing valve.



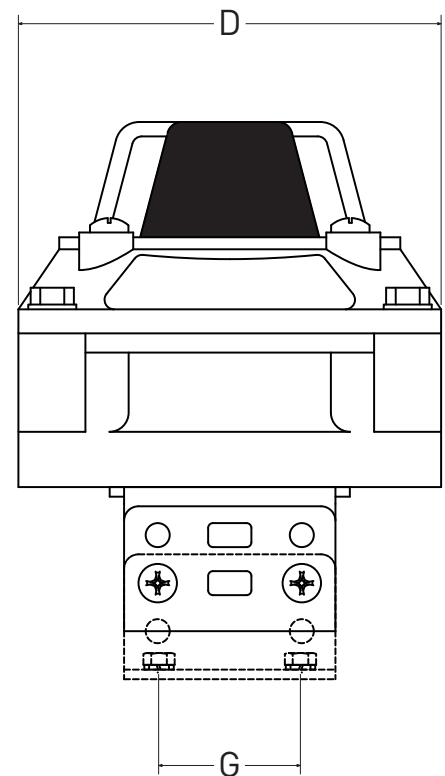
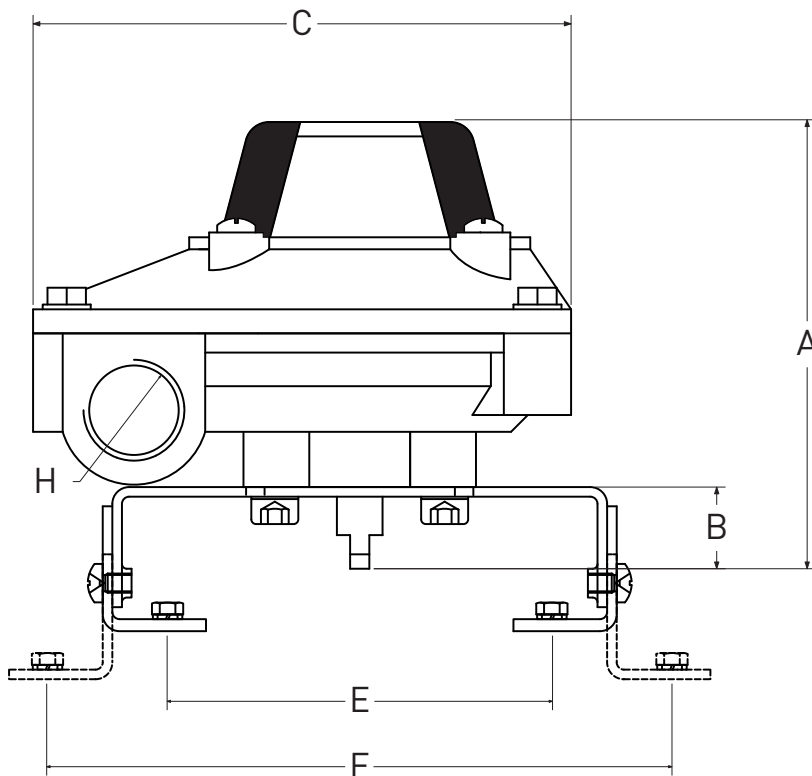


Series ALS

ALS Valve Limit Switch Boxes

The VSI Series ALS valve limit switch box family is a robust, simple to set up solution for digital feedback on quarter turn valves with pneumatic or manual operators. Featuring a die-cast aluminum housing with stainless fasteners, this family is corrosion resistant and suitable for most environments.

- Die-cast Powder Coated Aluminum Body
- Fully Adjustable Quick Set Cams
- High Visibility Indicators
- Numbered terminal Strips with Spare Terminals
- Weatherproof NEMA 4 Housing on ALS-100 & ALS-500
- Explosion-proof Housing on ALS-500
- Intrinsically Safe Switches on ALS-200
- Standard 2-Way or optional 3-Way Indicators
- Other Switches and Options Available on Request



MODEL	A	B	C	D	E	F	G	H	WEIGHT (LB)
ALS-100	5.65	0.94	5.20	4.29	3.15	5.12	1.18	2 x 1/2" NPT	2.85
ALS-200	3.66	0.67	4.41	3.36	3.15	5.12	1.18	2 x 1/2" NPT	1.75
ALS-500	5.39	1.06	5.02	4.41	3.15	5.12	1.18	2 x 3/4" NPT	3.15

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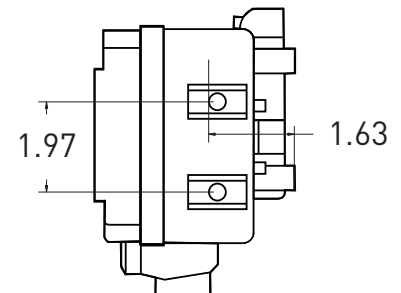
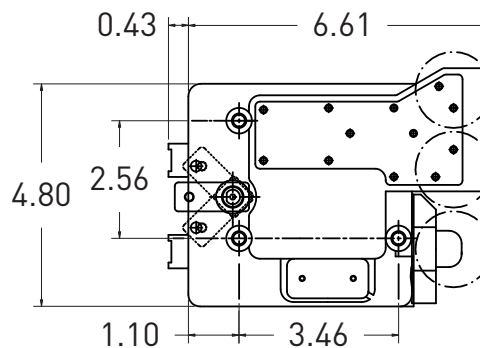
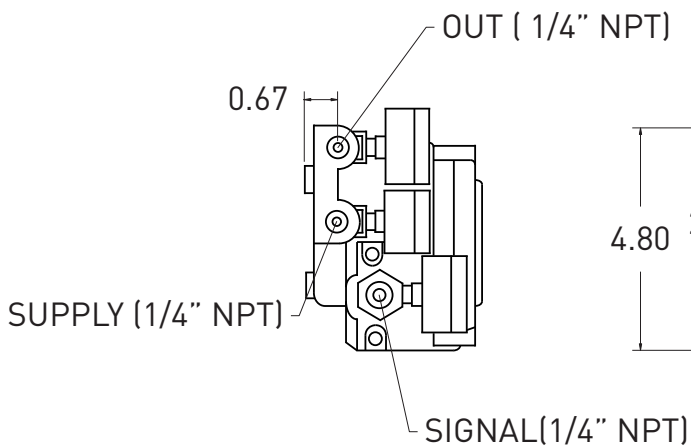
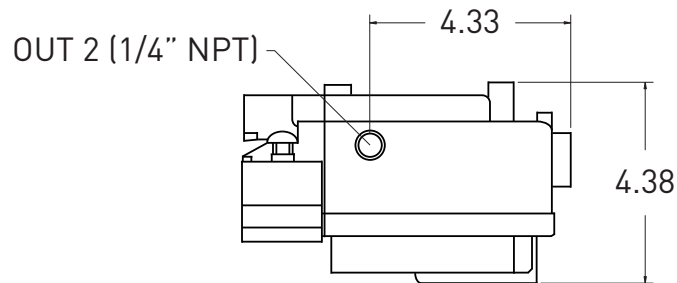
Moniteur Series 40/41

Moniteur Pneumatic Valve Positioner

The Moniteur Series 40 Pneumatic Positioner can be used with the VSI Series C Pneumatic Actuator.

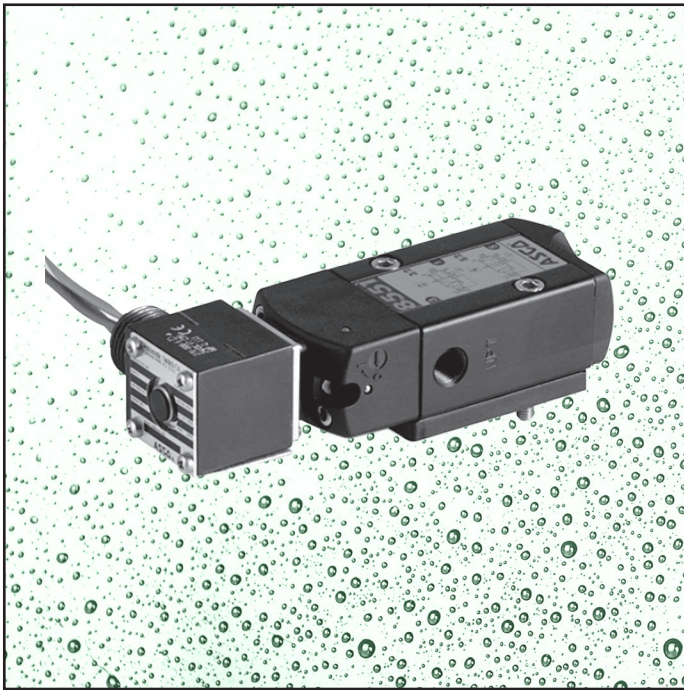
- Corrosion Resistant, Aluminum NEMA 4 housing
- All Metal Internal Parts
- 3-15 PSI Air Supply Required
- Unique Magnetic 4-20 mA I/P
- Precision Zero Hysteresis Coupling System
- Spool-less Valve System
- Stainless Steel Gauge
- Optional Limit Switch and 4-20 mA Feedback

Contact a VSI representative for additional information on the available options.



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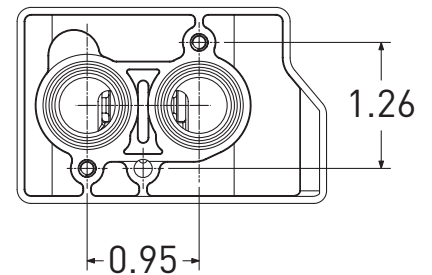
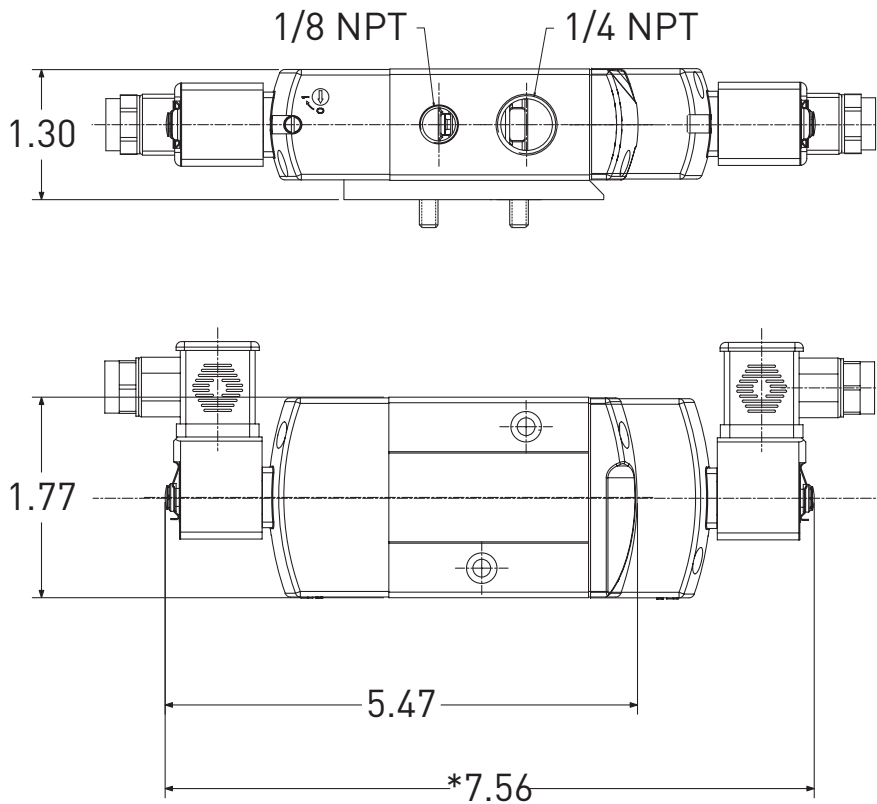
ASCO Namur Solenoid

ASCO Direct Mount Inline Spool Valve

The ASCO NAMUR mount solenoid can be used in conjunction with the VSI Series C pneumatic actuator to control the air supply which allows 2 position control for the valve assembly.

- Anodized Aluminum Bodies
- Direct NAMUR Mount
- Manual Override
- Various AC and DC electrical supply voltages
- Dual Coil Option Available
- Optional Explosion-Proof Coil

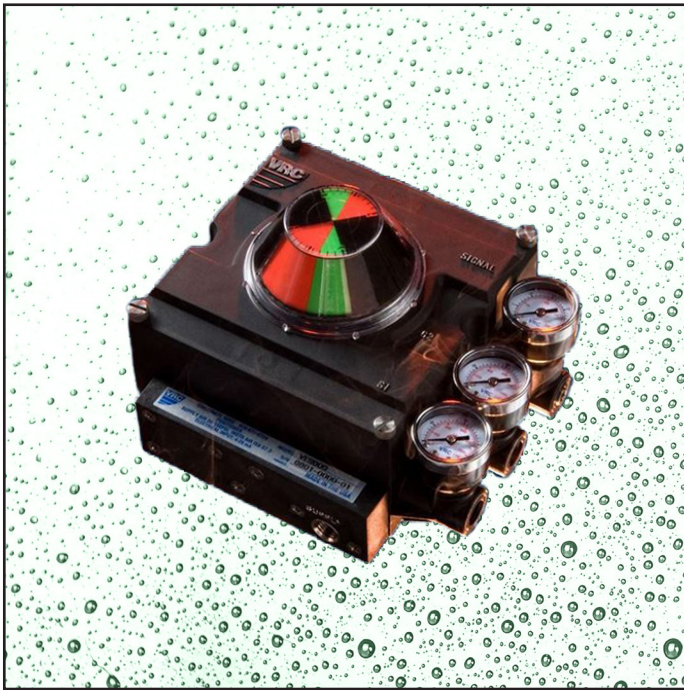
Contact a VSI representative for additional information on the available options.



* Indicates Optional Dual Coil

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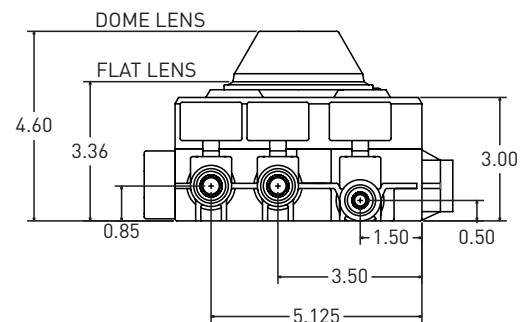
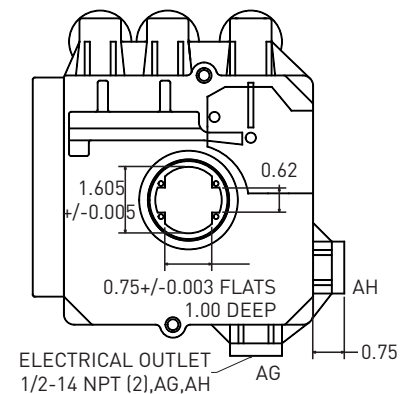
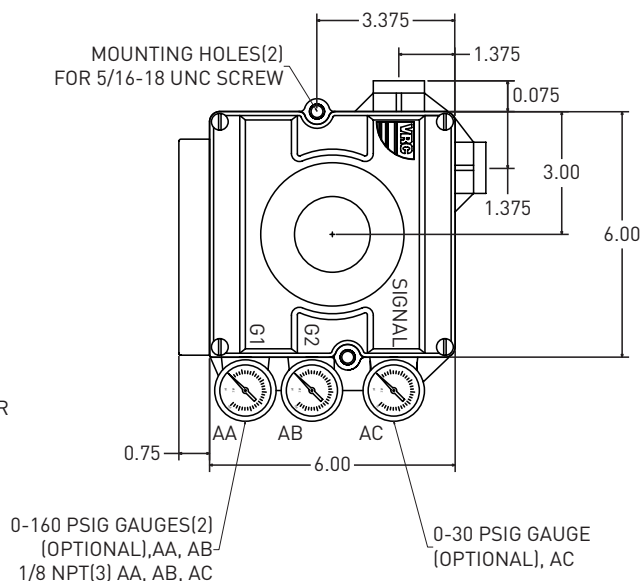
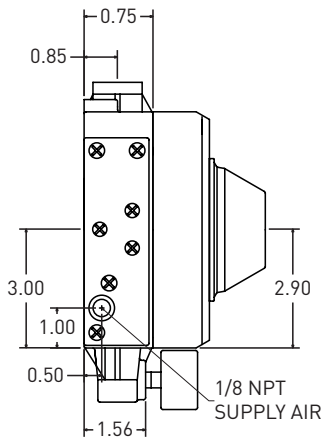
VRC Positioner

Pneumatic Positioner

The VRC Pneumatic Positioner is the most dependable option for the VSI Series C pneumatic actuator when proportional control is required.

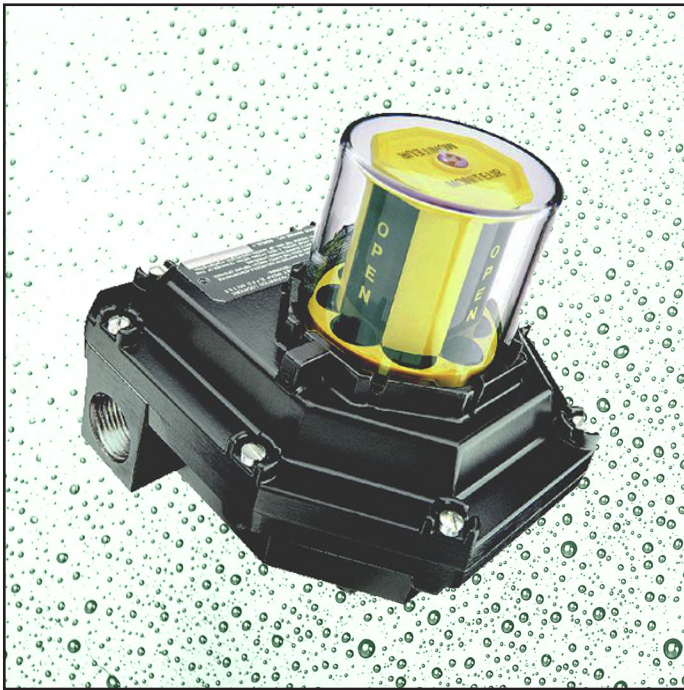
- Corrosion Resistant, NEMA 4 Enclosure
- Flexible Mounting Options
- Customizable Cam Options
- 3-15 PSI Air Supply Required
- Operating temperature: -40 °F to 150 °F
- Optional 4-20 mA Input
- Optional Open/Close Indicator

Contact a VSI representative for additional information on the available options.



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Moniteur Limit Switch

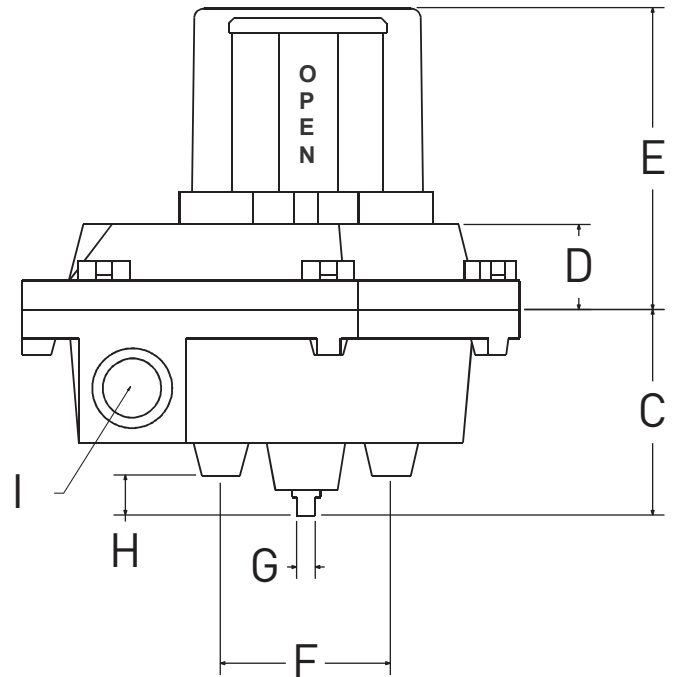
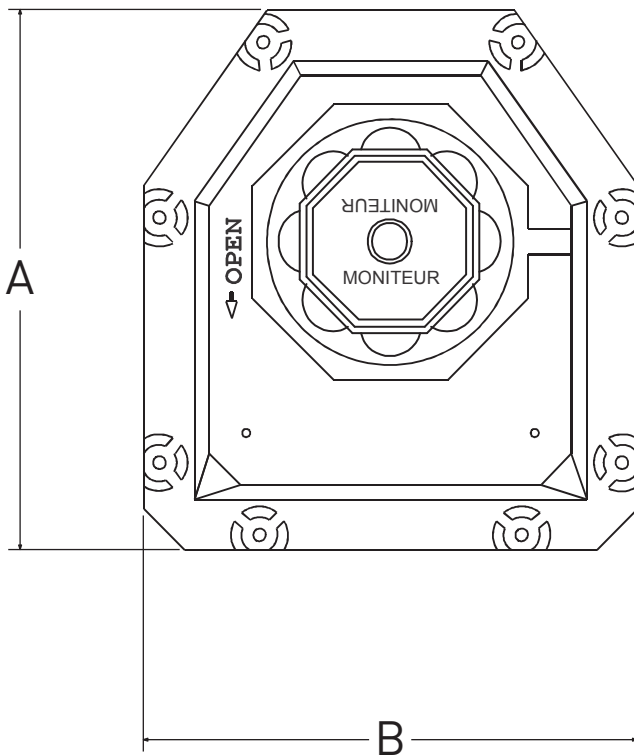
Moniteur Valve Position Transmitter

The Moniteur Limit Switch is the perfect accessory to the VSI Series C pneumatic actuator when position feedback is required.

The Watchman(FMYB) has CSA certification for general purposes. It has a high visibility indicator dome with a NEMA 4, 4x aluminum enclosure.

The Sentinel(AMYB) has UL and CSA certification for various Class, Division and Groups. It has a high visibility indicator dome with a NEMA 4, 4x, 7, 9/Explosion Proof aluminum enclosure.

Contact a VSI representative for additional information on the available options.



MODEL	A	B	C	D	E	F	G	H	I	WEIGHT (LB)
FMYB-XXX	5.83	5.27	2.21	1.13	3.98	2.25	0.156	0.62	1/2 NPT	2.55
AMYB-XXX	6.56	6.00	2.72	1.13	3.98	2.25	0.156	0.62	3/4 NPT	4.15

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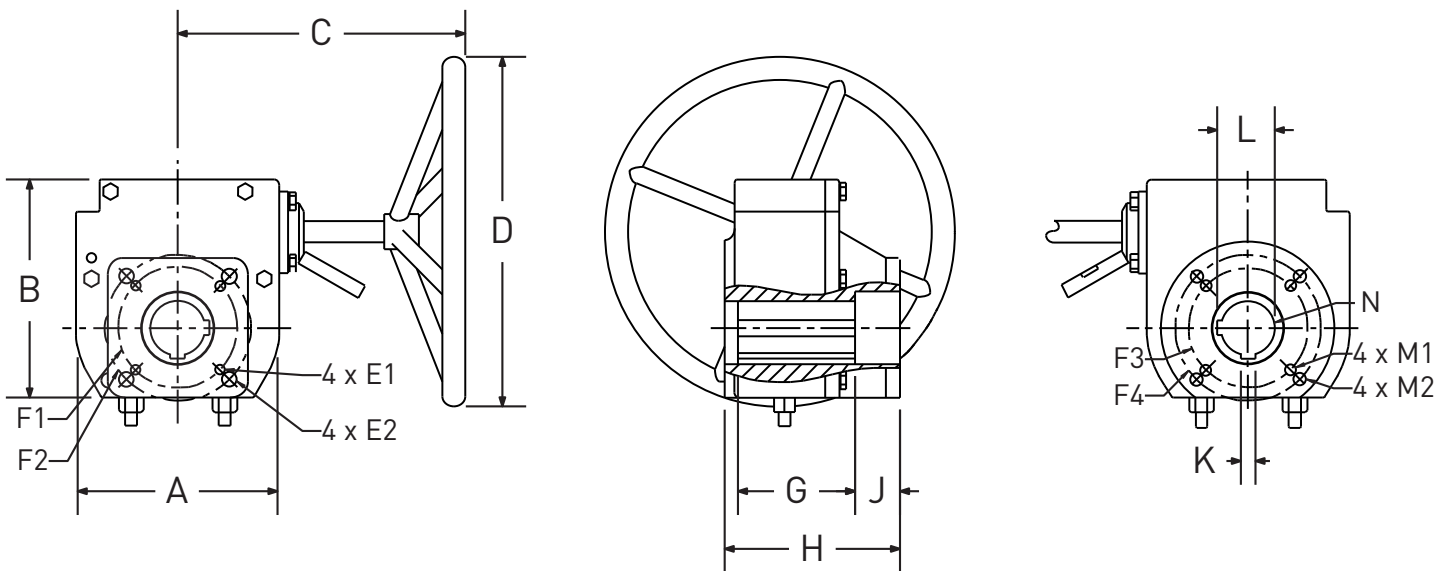
DGD Gear Operator

High-Pressure Pneumatic Gear Operator

Manual Override gear operator is designed for use on butterfly valves, ball valves, and plug valves that utilize High-Pressure pneumatic actuators for operation.

- De-Clutch-able Operator for Manually Overriding the Actuator
- Compact Design and Effortless Operation
- Large Torque Range
- Upper and Lower Mounting Flanges Conform to ISO5211
- Enclosure: Sealed to IP67

Contact a VSI representative for additional information on the available options.



MODEL	A	B	C	ØD	ØE1	ØE2	F1	F2	G	H	J	K	L	M1	M2	F3	F4	ØN	WEIGHT (LB)
DGD025	4.01	5.71	6.57	5.71	0.275	0.354	1.97	2.76	2.48	4.72	1.73	0.24	1.21	M6	M8	1.97	2.76	1.10	12
DGD050	4.92	6.53	9.06	13.78	-	0.433	-	4.02	3.22	5.63	1.77	0.39	1.63	M8	M10	2.76	4.02	1.50	16
DGD100	6.85	8.15	44.18	15.75	-	0.512	-	4.92	3.27	5.91	2.05	0.55	1.96	M10	M12	4.02	4.92	1.81	22
DGD200	9.21	8.15	14.13	19.69	0.709	0.866	5.51	6.50	3.98	6.81	1.89	0.71	2.54	M16	-	5.51	-	2.36	70
DGD201	9.21	10.51	14.13	19.69	0.709	0.866	5.51	6.50	3.98	6.81	1.89	0.71	2.54	-	M20	-	6.50	2.36	80
DGD400	11.49	12.80	16.73	23.62	8 x 0.709	0.866	-	6.50	4.92	7.32	1.50	0.87	3.04	8 x M16	M20	-	6.50	2.83	--

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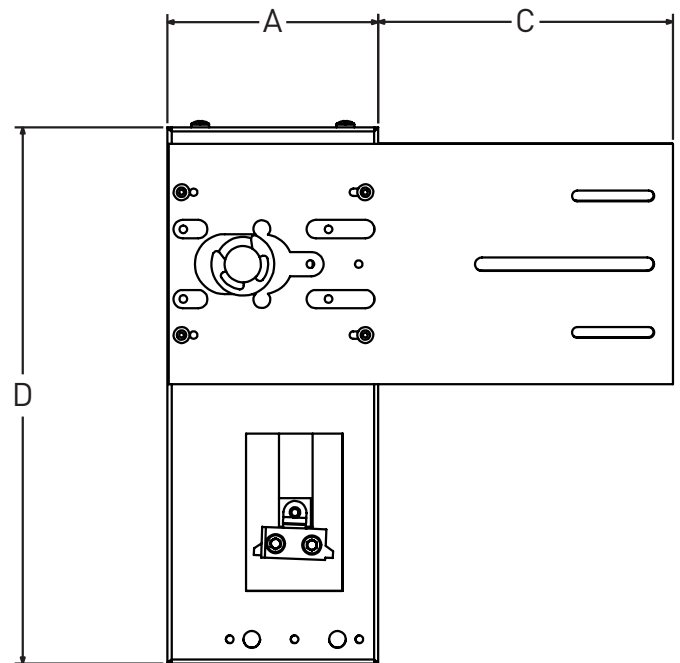
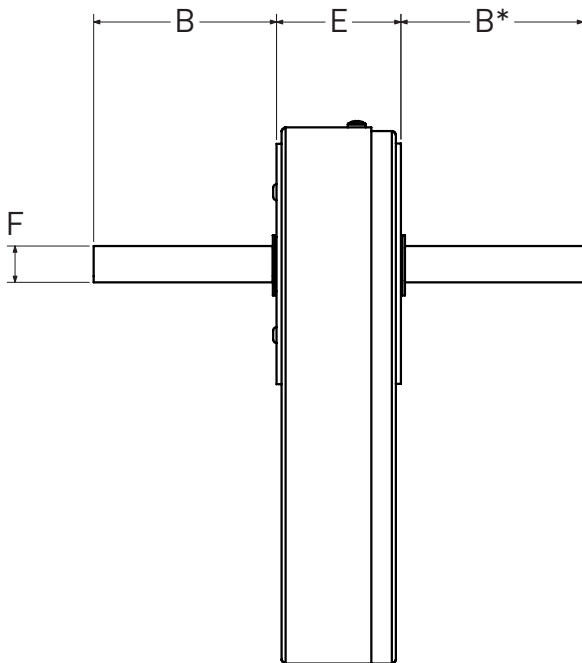
LVB Linkage

Universal Globe Valve Linkage

The VSI LVB series linkages are utilized to retrofit most globe valve applications from sizes ½" through 6". Various globe valve manufacturers include Johnson Controls, Honeywell, Siemens/Landis/Powers and Siebe/Invensys/Barber Coleman/Schneider. The design of the LVB series transfers the rotary action of typical damper actuators into a linear stroke common in most globe valves.

- Multiple stroke lengths (16mm, 23mm, 30mm, 40mm)
- Used in conjunction with wide selection of damper actuators
- Single or tandem actuator mount available for higher close-off
- Machined bonnet and stem adapters—zero plastic material

Contact a VSI representative for additional information on the available options.



B* on LVB230/240

MODEL	A	B	C	D	E	ØF	WEIGHT (LB)
LVB116	4.375	3.5	6.25	9.5	2.50	0.629	5.8
LVB123	4.375	3.5	6.25	9.5	2.50	0.629	5.8
LVB130/230	4.375	4.0	6.00	11.0	2.375	0.748	7.6/9.7
LVB140/240	4.375	4.0	6.00	11.0	2.375	0.748	7.8/9.9

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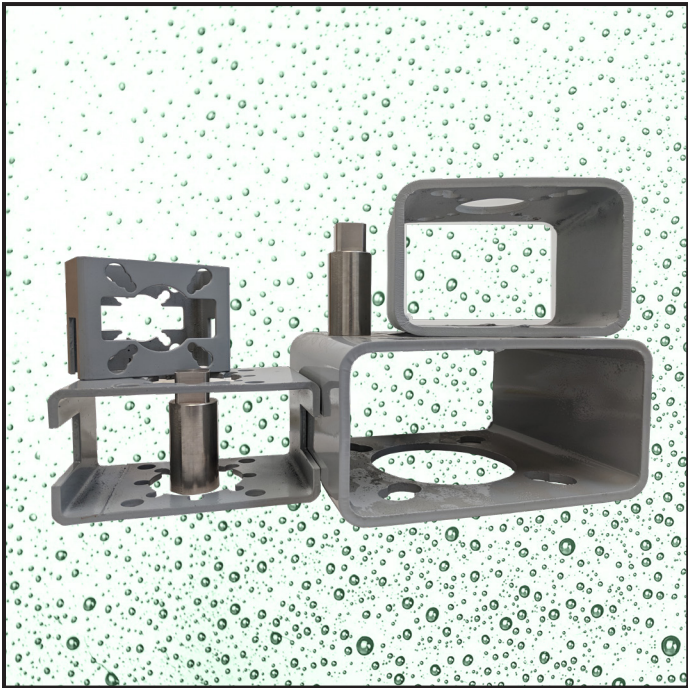
Globe Valve Collars and Stem Adapters

Retrofit Solutions

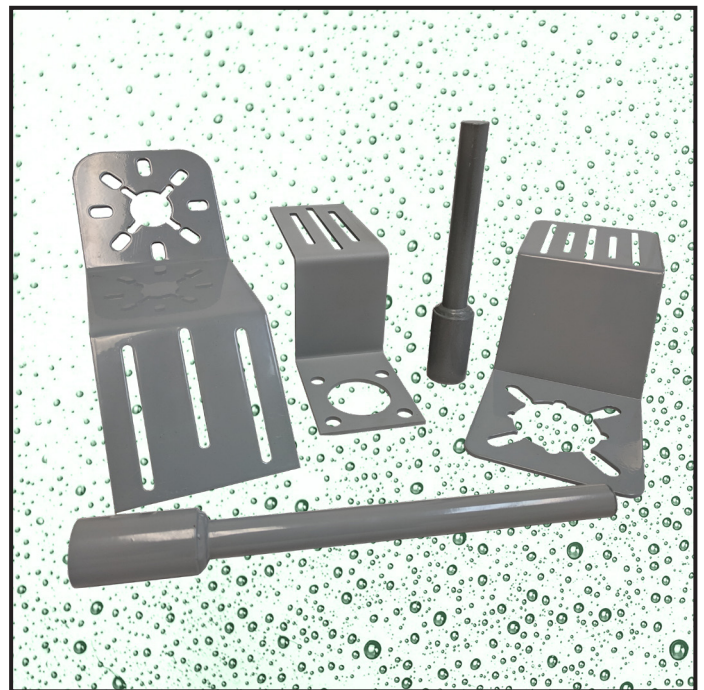
Custom Butterfly and Globe Valve Retrofitting

VSI uniquely makes custom collars and fitting for a variety of globe valves and butterfly valves to fit with any assembly you need.

Refer to the corresponding Retrofit forms on pages 144 (Butterfly Valve) and 145 (Globe Valve) or visit us at WWW.VALVESOLUTIONS.COM.



Butterfly Valve Brackets and Couplings



Damper Actuator Brackets and Couplings



Company:	_____
Contact:	_____
Location:	_____
Project:	_____
Phone #:	_____
Fax #:	_____

Quote #:	_____
Prepared by:	_____
Date:	_____

RETROFIT SOLUTIONS

BUTTERFLY VALVE RETROFIT FORM

VSI, LLC.
1205 Alpha Drive
Alpharetta, GA 30004
Phone: 770.740.0800
Fax: 770.740.8777
www.valvesolutions.com
sales@valvesolutions.com

This sheet is used to fabricate a custom mounting bracket with a new actuator (described in Step 4) for field mounting to an existing valve. Provide as much valve information as possible. No return credit is accepted on retrofit brackets. Often the most cost effective solution on a retrofit job that has very old butterfly valves is to replace the valves.

Step 1. Valve Information

Valve Pipe Size _____

Manufacturer _____

Model/Part # _____

☐ 2-Way ☐ 3-Way

Torque Required _____
(if known)

Max. Close-off _____

Quantity _____

Step 2. Bonnet Information (refer to Diagram 1)

Bonnet Type ☐ 1 ☐ 2 ☐ 3

Dimensions (closest 0.001")
A = _____ B = _____ C = _____

Bolt Holes
☐ Drilled ☐ Drilled & Tapped

Hole Size and/or Threads/Inch _____

Other _____
(include drawing)

Step 3. Shaft Information (refer to Diagram 2)

Shaft Type ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5

Dimensions (closest 0.001")
D = _____
E = _____
F = _____
G = _____
H = _____

Other = _____
(include drawing)

Step 4. Actuator Requirements

☐ Electric ☐ Pneumatic

☐ 2-Position ☐ Modulating

☐ Spring Return (failsafe) ☐ N.C.

☐ Non-Spring Return ☐ N.O.

Power (electric or pneumatic)
☐ 120 VAC ☐ 20 psig
☐ 24 VAC ☐ 80 psig
☐ Other _____

Control Signal ☐ 4-20 mA ☐ 3-15 psig
☐ 2-10 VDC ☐ Other _____
☐ Floating

NIEMA 4 Enclosure Required ☐ Yes ☐ No

Bonnet Type 1	Bonnet Type 2	Bonnet Type 3	Shaft Type 1	Shaft Type 2	Shaft Type 3	Shaft Type 4	Shaft Type 5

Contact VSI or visit www.valvesolutions.com for the Retrofit Form



WWW.VALVESOLUTIONS.COM

This form is to be used if your existing valve is not listed in the Retrofit Library located in the VSI LVB Catalog. Make photocopies of this form (or contact VSI for additional copies) as needed and fax completed forms to VSI, LLC. at (770) 740-8777 or scan and email to sales@valvesolutions.com to ensure proper linkage compatibility. A separate form should be used for each valve when information is different for valve size or manufacturer. Please fill out form completely. Draw your own diagram using the space in figure 4 below if necessary.

Quantity: _____

Valve Body Information:

Figure No. (choose 1, 2, or 3 below) _____

Manufacturer (if known) _____

Model No. (if known) _____

Valve Size: _____

☐ 2 Way ☐ 3 Way

Actuator (check all that apply):

☐ On/Off ☐ Tri-State ☐ Modulating

☐ Spring Return

☐ 24 V ☐ 120 V

☐ Weather Proof Enclosure

Approximate Close-Off Required: _____ (PSI)

Valve Body Dimensions (see below for letter designations):

A= _____

B= _____

C= _____ th/in

D= _____ th/in

E= _____

F= _____

G= _____

H= _____

I= _____

J= _____

Letter Designations (for above):

A = Height with stem down

B = Length of neck

C = Stem diameter and threads/inch

D = Major diameter and threads/inch

E = Lift (Stroke Length)

F, G, H, I = Neck dimensions

Comments: _____

Figure No. 1

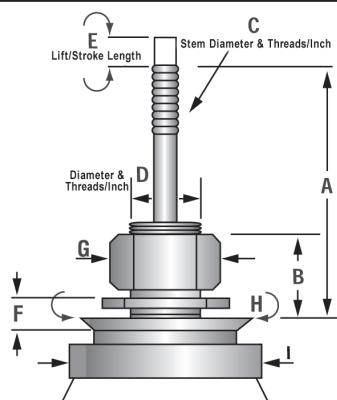


Figure No. 2

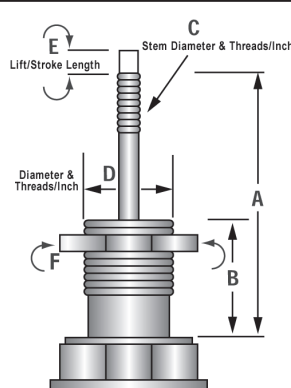


Figure No. 3

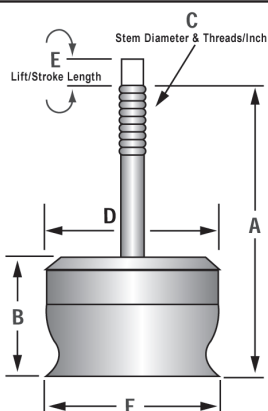


Figure No. 4 (If Fig. 1, 2, 3 do not match your valve, please sketch below.)

DRAW YOUR OWN

VSI, LLC. - 1205 Alpha Drive - Alpharetta, GA 30004 - www.valvesolutions.com - (770) 740-0800 - Fax (770) 740-8777

Contact VSI or visit www.valvesolutions.com for the Retrofit Form

Notes



Notes



Notes



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About VSI

Founded in 1995, Valve Solutions, Inc (VSI) is dedicated to serving the Commercial and Industrial Building Automation Services market; providing complete automated valve packages to some of the largest controls companies in the world all the way down to the consumer.

By Leveraging our facilities and partnerships in the U.S., Italy, Korea, and East Asia, VSI has developed a reputation for bringing products to market that meet performance demands and budget for most any project.

Among the flagship, VSI products are our Series 2100 Resilient Seated Butterfly Valves, Series 1000-X Electric Actuators, Series C Pneumatic Actuators, Series V and Series E Control Ball Valves. Utilizing these flagship lines, line card partner valves and actuators, and our full in-house engineering staff and manufacturing capability VSI can supply the perfect "valve solution" for you.

Quality to Count On

VSI is fully committed to providing the best to our customers. To achieve this lofty goal we have implemented a quality program that has earned ISO 9001:2008 -2015 certification and is audited regularly by international accreditors. Our Series 1000-X electric actuators are independently certified by CSA to CSA 139-10 and ANSI/UL 429, the Series E flow characteristics are certified by ALDEN, and our linkages are certified by USTech for reliability. In addition to third party certification VSI combines the in-house testing capability to impart the highest confidence that our products deserve.



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